

Form 3160-3  
(June 2015)FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

|                                                                                                                                                                                                                                                                                                                                                                |                                       |                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER<br>1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other<br>1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone |                                       | 5. Lease Serial No.<br><br>6. If Indian, Allottee or Tribe Name<br><br>7. If Unit or CA Agreement, Name and No.<br><br>8. Lease Name and Well No.<br><br><div style="text-align: center; font-weight: bold;">[332472]</div> |
| 2. Name of Operator<br><div style="text-align: center; font-weight: bold;">[373910]</div>                                                                                                                                                                                                                                                                      |                                       | 9. API Well No. <div style="text-align: center; font-weight: bold;">30-025-49815</div>                                                                                                                                      |
| 3a. Address                                                                                                                                                                                                                                                                                                                                                    | 3b. Phone No. (include area code)     | 10. Field and Pool, or Exploratory <div style="text-align: center; font-weight: bold;">[98187]</div>                                                                                                                        |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *)<br>At surface<br>At proposed prod. zone                                                                                                                                                                                                                         |                                       | 11. Sec., T. R. M. or Blk. and Survey or Area                                                                                                                                                                               |
| 14. Distance in miles and direction from nearest town or post office*                                                                                                                                                                                                                                                                                          |                                       | 12. County or Parish<br>13. State                                                                                                                                                                                           |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)                                                                                                                                                                                                                                          | 16. No of acres in lease              | 17. Spacing Unit dedicated to this well                                                                                                                                                                                     |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.                                                                                                                                                                                                                                                     | 19. Proposed Depth                    | 20. BLM/BIA Bond No. in file                                                                                                                                                                                                |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)                                                                                                                                                                                                                                                                                                            | 22. Approximate date work will start* | 23. Estimated duration                                                                                                                                                                                                      |
| 24. Attachments                                                                                                                                                                                                                                                                                                                                                |                                       |                                                                                                                                                                                                                             |

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- |                                                                                                                                                                                                                           |                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Well plat certified by a registered surveyor.<br>2. A Drilling Plan.<br>3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).<br>5. Operator certification.<br>6. Such other site specific information and/or plans as may be requested by the BLM. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                         |                      |      |
|-------------------------|----------------------|------|
| 25. Signature           | Name (Printed/Typed) | Date |
| Title                   |                      |      |
| Approved by (Signature) | Name (Printed/Typed) | Date |
| Title                   |                      |      |
| Office                  |                      |      |

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
 Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**NGMP Rec 03/03/2022**

**SL**

(Continued on page 2)



**Approval Date: 02/11/2022**

**KZ**  
**03/04/2022**

\*(Instructions on page 2)

## INSTRUCTIONS

**GENERAL:** This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

**ITEM I:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

**ITEM 4:** Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

**ITEM 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

**ITEMS 15 AND 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

**ITEM 22:** Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

**ITEM 24:** If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

**PRINCIPAL PURPOSES:** The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

**ROUTINE USE:** Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

## Additional Operator Remarks

### Location of Well

0. SHL: TR M / 270 FSL / 1281 FWL / TWSP: 24S / RANGE: 35E / SECTION: 36 / LAT: 32.167462 / LONG: -103.325648 ( TVD: 0 feet, MD: 0 feet )

PPP: SWSW / 0 FSL / 384 FWL / TWSP: 24S / RANGE: 35E / SECTION: 25 / LAT: 32.181268 / LONG: -103.328572 ( TVD: 12392 feet, MD: 17500 feet )

PPP: NWNW / 0 FSL / 383 FWL / TWSP: 24S / RANGE: 35E / SECTION: 36 / LAT: 32.177628 / LONG: -103.32857 ( TVD: 12392 feet, MD: 16200 feet )

PPP: TR M / 632 FSL / 380 FWL / TWSP: 24S / RANGE: 35E / SECTION: 36 / LAT: 32.168455 / LONG: -103.328564 ( TVD: 12392 feet, MD: 12806 feet )

BHL: TR D / 150 FNL / 380 FWL / TWSP: 24S / RANGE: 35E / SECTION: 25 / LAT: 32.195362 / LONG: -103.328572 ( TVD: 12392 feet, MD: 22595 feet )

### BLM Point of Contact

Name: TENILLE ORTIZ

Title: Legal Instruments Examiner

Phone: (575) 234-2224

Email: tortiz@blm.gov

CONFIDENTIAL

### **Review and Appeal Rights**

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

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

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

District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                         |  |                                                            |  |                                                             |                                   |
|-----------------------------------------|--|------------------------------------------------------------|--|-------------------------------------------------------------|-----------------------------------|
| <sup>1</sup> API Number<br>30-025-49815 |  | <sup>2</sup> Pool Code<br>98187                            |  | <sup>3</sup> Pool Name<br>WC-025 G-09 S253502D;UPR WOLFCAMP |                                   |
| <sup>4</sup> Property Code<br>332472    |  | <sup>5</sup> Property Name<br>FMM FED COM                  |  |                                                             | <sup>6</sup> Well Number<br>801H  |
| <sup>7</sup> OGRID No.<br>373910        |  | <sup>8</sup> Operator Name<br>FRANKLIN MOUNTAIN ENERGY LLC |  |                                                             | <sup>9</sup> Elevation<br>3288.9' |

<sup>10</sup>Surface Location

|                    |               |                 |              |         |                      |                           |                       |                        |               |
|--------------------|---------------|-----------------|--------------|---------|----------------------|---------------------------|-----------------------|------------------------|---------------|
| UL or lot no.<br>M | Section<br>36 | Township<br>24S | Range<br>35E | Lot Idn | Feet from the<br>270 | North/South line<br>SOUTH | Feet from the<br>1281 | East/West line<br>WEST | County<br>LEA |
|--------------------|---------------|-----------------|--------------|---------|----------------------|---------------------------|-----------------------|------------------------|---------------|

<sup>11</sup> Bottom Hole Location If Different From Surface

|                                      |               |                               |              |                                  |                      |                           |                      |                        |               |
|--------------------------------------|---------------|-------------------------------|--------------|----------------------------------|----------------------|---------------------------|----------------------|------------------------|---------------|
| UL or lot no.<br>D                   | Section<br>25 | Township<br>24S               | Range<br>35E | Lot Idn                          | Feet from the<br>150 | North/South line<br>NORTH | Feet from the<br>380 | East/West line<br>WEST | County<br>LEA |
| <sup>12</sup> Dedicated Acres<br>640 |               | <sup>13</sup> Joint or Infill |              | <sup>14</sup> Consolidation Code |                      | <sup>15</sup> Order No.   |                      |                        |               |

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

|    |                                         |
|----|-----------------------------------------|
| 16 | <b>NAD 83 (SURFACE HOLE LOCATION)</b>   |
|    | LATITUDE = 32°10'02.86" (32.167462°)    |
|    | LONGITUDE = 103°19'32.33" (103.325648°) |
|    | <b>NAD 27 (SURFACE HOLE LOCATION)</b>   |
|    | LATITUDE = 32°10'02.41" (32.167335°)    |
|    | LONGITUDE = 103°19'30.66" (103.325183°) |
|    | <b>STATE PLANE NAD 83 (N.M. EAST)</b>   |
|    | N: 426117.58' E: 853145.88'             |
|    | <b>STATE PLANE NAD 27 (N.M. EAST)</b>   |
|    | N: 426058.78' E: 811959.47'             |

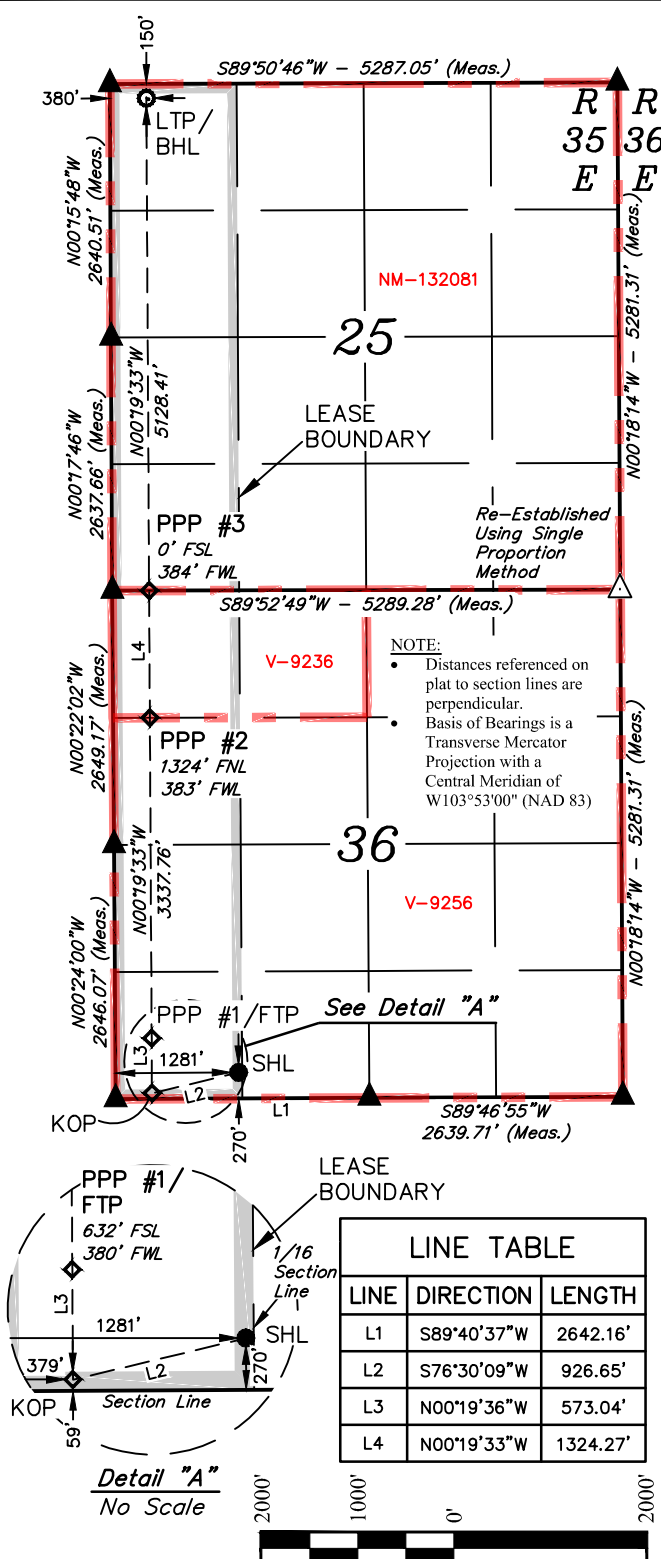
|                                         |
|-----------------------------------------|
| <b>NAD 83 (KOP)</b>                     |
| LATITUDE = 32°10'00.77" (32.166880°)    |
| LONGITUDE = 103°19'42.83" (103.328563°) |
| <b>NAD 27 (KOP)</b>                     |
| LATITUDE = 32°10'00.31" (32.166754°)    |
| LONGITUDE = 103°19'41.15" (103.328097°) |
| <b>STATE PLANE NAD 83 (N.M. EAST)</b>   |
| N: 42589.56' E: 85224.85'               |
| <b>STATE PLANE NAD 27 (N.M. EAST)</b>   |
| N: 425838.78' E: 811059.47'             |

|                                         |
|-----------------------------------------|
| <b>NAD 83 (PPP #1/FTP)</b>              |
| LATITUDE = 32°10'06.44" (32.168455°)    |
| LONGITUDE = 103°19'42.83" (103.328564°) |
| <b>NAD 27 (PPP #1/FTP)</b>              |
| LATITUDE = 32°10'05.98" (32.168329°)    |
| LONGITUDE = 103°19'41.15" (103.328098°) |
| <b>STATE PLANE NAD 83 (N.M. EAST)</b>   |
| N: 426470.49' E: 852240.20'             |
| <b>STATE PLANE NAD 27 (N.M. EAST)</b>   |
| N: 426411.69' E: 811053.83'             |

|                                         |
|-----------------------------------------|
| <b>NAD 83 (PPP #2)</b>                  |
| LATITUDE = 32°10'39.46" (32.177628°)    |
| LONGITUDE = 103°19'42.85" (103.328570°) |
| <b>NAD 27 (PPP #2)</b>                  |
| LATITUDE = 32°10'39.01" (32.177502°)    |
| LONGITUDE = 103°19'41.17" (103.328104°) |
| <b>STATE PLANE NAD 83 (N.M. EAST)</b>   |
| N: 429807.60' E: 852207.26'             |
| <b>STATE PLANE NAD 27 (N.M. EAST)</b>   |
| N: 429748.71' E: 811021.01'             |

|                                         |
|-----------------------------------------|
| <b>NAD 83 (PPP #3)</b>                  |
| LATITUDE = 32°10'52.56" (32.181268°)    |
| LONGITUDE = 103°19'42.86" (103.328572°) |
| <b>NAD 27 (PPP #3)</b>                  |
| LATITUDE = 32°10'52.11" (32.181141°)    |
| LONGITUDE = 103°19'41.18" (103.328106°) |
| <b>STATE PLANE NAD 83 (N.M. EAST)</b>   |
| N: 431131.62' E: 852194.19'             |
| <b>STATE PLANE NAD 27 (N.M. EAST)</b>   |
| N: 431072.69' E: 811008.00'             |

|                                         |
|-----------------------------------------|
| <b>NAD 83 (LTP/BHL)</b>                 |
| LATITUDE = 32°11'43.30" (32.195362°)    |
| LONGITUDE = 103°19'42.89" (103.328581°) |
| <b>NAD 27 (LTP/BHL)</b>                 |
| LATITUDE = 32°11'42.85" (32.195235°)    |
| LONGITUDE = 103°19'41.21" (103.328114°) |
| <b>STATE PLANE NAD 83 (N.M. EAST)</b>   |
| N: 436259.03' E: 852143.56'             |
| <b>STATE PLANE NAD 27 (N.M. EAST)</b>   |
| N: 436199.96' E: 810957.57'             |



- = SURFACE HOLE LOCATION  
 ◆ = KICK OFF POINT/FTP/PPP  
 ◎ = LAST TAKE POINT/  
 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 Julia Christ Date 9/23/2021

Shelly Albrecht  
Printed Name

salbrecht@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.*

July 31, 2021

Date of Survey \_\_\_\_\_  
Signature and Seal of Professional Surveyor: \_\_\_\_\_



Certificate Number:

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, LLC **OGRID:** 373910 **Date:** 02/24/2022

**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:** FMM CTB: (##) fAPP2203348319 [See 19.15.27.9(D)(1) NMAC]

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

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

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

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

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

**Section 2 – Enhanced Plan****EFFECTIVE APRIL 1, 2022**

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

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

**IX. Anticipated Natural Gas Production:**

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

**X. Natural Gas Gathering System (NGGS):**

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

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

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

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

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

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

### **Section 3 - Certifications**

**Effective May 25, 2021**

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

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

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

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

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

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

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

### **Section 4 - Notices**

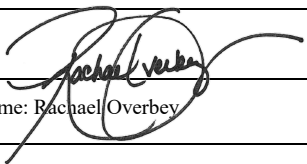
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

|                                                                                                  |
|--------------------------------------------------------------------------------------------------|
| Signature:      |
| Printed Name: Rachael Overbey                                                                    |
| Title: Director Operations Planning & Regulatory                                                 |
| E-mail Address: roverbey@fmelle.com                                                              |
| Date: 2/24/2022                                                                                  |
| Phone: 720-414-7868                                                                              |
| <b>OIL CONSERVATION DIVISION</b><br><b>(Only applicable when submitted as a standalone form)</b> |
| 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 |
|------------------|--------------|--------------|----------------------|-----------------------|-----------------------|----------------------------------|
| FMM Fed Com 101H | TBD          | M-36-24S-35E | 345 FSL 1269 FWL     | 800 +/-               | 700 +/-               | 600 +/-                          |
| FMM Fed Com 102H | TBD          | M-36-24S-35E | 345 FSL 1319 FWL     | 800 +/-               | 700 +/-               | 600 +/-                          |
| FMM Fed Com 301H | TBD          | M-36-24S-35E | 345 FSL 1294 FWL     | 800 +/-               | 700 +/-               | 600 +/-                          |
| FMM Fed Com 302H | TBD          | N-36-24S-35E | 345 FSL 1344 FWL     | 800 +/-               | 700 +/-               | 600 +/-                          |
| FMM Fed Com 801H | TBD          | M-36-24S-35E | 270 FSL 1281 FWL     | 800 +/-               | 700 +/-               | 600 +/-                          |
| FMM Fed Com 802H | TBD          | M-36-24S-35E | 270 FSL 1306 FWL     | 800 +/-               | 700 +/-               | 600 +/-                          |
| FMM Fed Com 803H | TBD          | N-36-24S-35E | 270 FSL 1331 FWL     | 800 +/-               | 700 +/-               | 600 +/-                          |
| FMM Fed Com 103H | TBD          | O-36-24S-35E | 345 FSL 2027 FEL     | 800 +/-               | 700 +/-               | 600 +/-                          |
| FMM Fed Com 104H | TBD          | O-36-24S-35E | 345 FSL 1977 FEL     | 800 +/-               | 700 +/-               | 600 +/-                          |
| FMM Fed Com 303H | TBD          | O-36-24S-35E | 345 FSL 2002 FEL     | 800 +/-               | 700 +/-               | 600 +/-                          |
| FMM Fed Com 304H | TBD          | O-36-24S-35E | 345 FSL 1952 FEL     | 800 +/-               | 700 +/-               | 600 +/-                          |
| FMM Fed Com 804H | TBD          | O-36-24S-35E | 270 FSL 2015 FEL     | 800 +/-               | 700 +/-               | 600 +/-                          |
| FMM Fed Com 805H | TBD          | O-36-24S-35E | 270 FSL 1990 FEL     | 800 +/-               | 700 +/-               | 600 +/-                          |
| FMM Fed Com 806H | TBD          | O-36-24S-35E | 270 FSL 1965 FEL     | 800 +/-               | 700 +/-               | 600 +/-                          |

**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 |
|------------------|--------------|----------------------------|-----------------|------------------------------|-----------------------|-----------------------|
| FMM Fed Com 101H | TBD          | 6/27/2022                  | 7/31/2022       | 11/14/2022                   | 12/31/2022            | 1/2/2023              |
| FMM Fed Com 102H | TBD          | 6/27/2022                  | 7/31/2022       | 11/14/2022                   | 12/31/2022            | 1/2/2023              |
| FMM Fed Com 301H | TBD          | 6/27/2022                  | 7/31/2022       | 11/14/2022                   | 12/31/2022            | 1/2/2023              |
| FMM Fed Com 302H | TBD          | 6/27/2022                  | 7/31/2022       | 11/14/2022                   | 12/31/2022            | 1/2/2023              |
| FMM Fed Com 801H | TBD          | 6/27/2022                  | 7/31/2022       | 11/14/2022                   | 12/31/2022            | 1/2/2023              |
| FMM Fed Com 802H | TBD          | 6/27/2022                  | 7/31/2022       | 11/14/2022                   | 12/31/2022            | 1/2/2023              |
| FMM Fed Com 803H | TBD          | 6/27/2022                  | 7/31/2022       | 11/14/2022                   | 12/31/2022            | 1/2/2023              |
| FMM Fed Com 103H | TBD          | 7/25/2022                  | 8/27/2022       | 12/1/2022                    | 1/4/2023              | 1/7/2023              |
| FMM Fed Com 104H | TBD          | 7/25/2022                  | 8/27/2022       | 12/1/2022                    | 1/4/2023              | 1/7/2023              |
| FMM Fed Com 303H | TBD          | 7/25/2022                  | 8/27/2022       | 12/1/2022                    | 1/4/2023              | 1/7/2023              |
| FMM Fed Com 304H | TBD          | 7/25/2022                  | 8/27/2022       | 12/1/2022                    | 1/4/2023              | 1/7/2023              |
| FMM Fed Com 804H | TBD          | 7/25/2022                  | 8/27/2022       | 12/1/2022                    | 1/4/2023              | 1/7/2023              |
| FMM Fed Com 805H | TBD          | 7/25/2022                  | 8/27/2022       | 12/1/2022                    | 1/4/2023              | 1/7/2023              |
| FMM Fed Com 806H | TBD          | 7/25/2022                  | 8/27/2022       | 12/1/2022                    | 1/4/2023              | 1/7/2023              |



## 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 high pressure 2-phase separator to remove bulk gas, liquid from the 2-phase separator is sent to a 3-phase separator where additional gas is separated. Gas from the 2 Phase and 3 Phase separators are then sent through a gas scrubber before being route to treatment and/or sales. As production declines the 2-phase separator may be removed.
- Industry standard sizing calculations are used for gas-liquid separation and liquid-liquid separation.

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

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



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

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

- Venting will be minimized during active and planned maintenance.
- Systems and equipment requiring maintenance will be isolated and blown down to sales and then flare before any remaining gas is vented in an effort to minimize waste and venting.
- Downhole maintenance will use best management practices to minimize vent.



## FMM Fed Com 801H

1. Geologic name of surface location: Permian
2. Estimated tops of important geological markers:

| Formations                    | PROG SS        | PROG TVD       | Picked TVD | delta | Potential/Issues                    |
|-------------------------------|----------------|----------------|------------|-------|-------------------------------------|
| Cenozoic Alluvium (surface)   | 3,392'         | 30'            | 30'        | 0     | Sand/Gravels/unconsolidated         |
| Rustler                       | 2,569'         | 853'           |            |       | Carbonates                          |
| Salado                        | 2,231'         | 1,191'         |            |       | Salt, Carbonate & Clastics          |
| Base Salt                     | 615'           | 2,807'         |            |       | Shaley Carbonate & Shale            |
| Capitan                       | -1,195'        | 4,617'         |            |       | Carbonates                          |
| Lamar                         | -1,847'        | 5,269'         |            |       | Carbonate & Clastics                |
| Bell Canyon                   | -1,923'        | 5,345'         |            |       | Sandstone - oil/gas/water           |
| Cherry Canyon                 | -2,845'        | 6,267'         |            |       | Sandstone - oil/gas/water           |
| Brushy Canyon                 | -4,172'        | 7,594'         |            |       | Sand/carb/shales - oil/gas/water    |
| Bone Spring Lime              | -5,531'        | 8,953'         |            |       | Shale/Carbonates - oil/gas          |
| Avalon                        | -5,559'        | 8,981'         |            |       | Shale/Carbonates - oil/gas          |
| *Chert Zone*                  | -5,750'        | 9,172'         |            |       | Carbonate/Chert                     |
| First Bone Spring Sand        | -6,633'        | 10,055'        |            |       | Sandstone - oil/gas/water           |
| Second Bone Spring Carbonates | -6,728'        | 10,150'        |            |       | Shale/Carbonates - oil/gas          |
| Second Bone Spring Sand       | -7,205'        | 10,627'        |            |       | Sandstone - oil/gas/water           |
| Third Bone Spring Carbonates  | -7,745'        | 11,167'        |            |       | Shale/Carbonates - oil/gas          |
| Third Bone Spring Sand        | -8,179'        | 11,601'        |            |       | Sandstone - oil/gas/water           |
| Wolfcamp                      | -8,543'        | 11,965'        |            |       | Overpressure shale/sand- Oil/Gas    |
| Wolfcamp A                    | -8,585'        | 12,007'        |            |       | Overpressure Shale - Oil/Gas        |
| Wolfcamp B                    | -8,827'        | 12,249'        |            |       | Overpressure Shale - Oil/Gas        |
| <b>HZ Target</b>              | <b>-8,971'</b> | <b>12,393'</b> |            |       | <b>Overpressure Shale - Oil/Gas</b> |
| Wolfcamp C                    | -9,105'        | 12,527'        |            |       | Overpressure Shale - Oil/Gas        |

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

|                     |         |             |
|---------------------|---------|-------------|
| Upper Permian Sands | 0- 400' | Fresh Water |
| Delaware Sands      | 5,345'  | Oil         |
| Bone Spring         | 10,055' | Oil         |
| Wolfcamp            | 11,965' | 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 1,300' and circulating cement back to surface.

4. Casing Program:

All casing strings will be run new. Safety factors calculated assuming the well is vertical.

| Casing string       | Weight | Grade   | Burst | Collapse | Tension | Conn                | Length         | API design factor |          |         |              |
|---------------------|--------|---------|-------|----------|---------|---------------------|----------------|-------------------|----------|---------|--------------|
|                     |        |         |       |          |         |                     |                | Burst             | Collapse | Tension | Coupling     |
| Surface 13 3/8"     | 54.5   | J-55    | 2730  | 1130     | 853     | BTC<br>909          | 1300           | 1.18              | 1.67     | 4.99    | 5.32         |
| Intermediate 9 5/8" | 40     | HCL-80  | 7430  | 4230     | 916     | BTC<br>1042         | 5300           | 1.75              | 1.71     | 2.94    | 3.34         |
| Intermediate 7 5/8" | 29.7   | HCP-110 | 8280  | 7150     | 827     | Stinger<br>564      | 11906          | 1.11              | 1.28     | 1.82    | 1.24         |
| Long string 5 1/2"  | 23     | P-110   | 14520 | 14520    | 729     | Eagle<br>606<br>TVD | 22595<br>12392 | 1.32              | 1.37     | 1.18    | 0.98<br>1.57 |



7 5/8" casing will be set at 11,906' MD/11,819' TVD at 0° Inc. Stress calculations on 5 1/2" casing performed assuming 22,595' depth. Actual max vertical depth is 12,392'.

### Cementing Program:

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

| String Type | Hole Size | Casing Size | Setting Depth | Sacks | Type of cmt                                             | Lead Yield ft <sup>3</sup> /sk | Water gal/sk | TOC ft | Sacks | Type of cmt                                | Tail Yield ft <sup>3</sup> /sk | Water gal/sk | TOC   | Excess |
|-------------|-----------|-------------|---------------|-------|---------------------------------------------------------|--------------------------------|--------------|--------|-------|--------------------------------------------|--------------------------------|--------------|-------|--------|
| Surf        | 17.5      | 13.375      | 1300          | 803   | Extenda Cem, 12.8 ppg Class C, 3lb/sk Kol-Seal          | 1.747                          | 9.06         | 0      | 330   | Tail, 14.8 ppg, Class C,                   | 1.349                          | 6.51         | 1000  | 100%   |
|             |           |             |               |       | 0.125pps Poly-E-Flake                                   |                                |              |        |       | 1% CaCl <sub>2</sub> , 0.125pps Celo-Flake |                                |              |       |        |
| Int1        | 12.25     | 9.625       | 5300          | 1588  | Lead, 12.8 ppg, Class C 5% Salt,                        | 1.79                           | 9.74         | 0      | 154   | Tail, 14.8 ppg, Class C,                   | 1.33                           | 6.37         | 5000  | 100%   |
|             |           |             |               |       | 0.125 pps Poly-E-Flake, 3lb/sk Kol-Seal                 |                                |              |        |       | 0.1% HR 800 .125 pps Poly-E-Flake          |                                |              |       |        |
| Int2        | 8.75      | 7.625       | 11906         | 354   | Lite Fill, 9.5 ppg, Class C 3lb/sk                      | 2.13                           | 5.97         | 4100   | 94    | NeoCem 14.8 ppg, Class C                   | 1.33                           | 6.29         | 10906 | 50%    |
|             |           |             |               |       | Bridgemaker Gel, 5% Salt, 5pps LCM, 0.25pps Cello-Flake |                                |              |        |       | 0.25 pps Cello-Flake, 2% CaCl <sub>2</sub> |                                |              |       |        |
| Prod        | 6.75      | 5.5         | 22595         | 872   | Tail, 14.5 ppg, Gas Migration Control                   | 1.34                           | 6.22         | 10906  |       |                                            |                                |              |       | 20%    |

### 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 1/2" x 7" variable pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

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

Before drilling out of the second 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. The second intermediate casing will be tested to .22 psi/ft, but not to exceed 70 percent of the minimum internal yield, as per Onshore Order # 2 for 30 minutes prior to drillout.

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

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



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

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

| Depth             | Type        | Weight (ppg) | Viscosity | Water Loss |
|-------------------|-------------|--------------|-----------|------------|
| 0 – 1,300'        | Fresh - Gel | 8.6-8.8      | 28-34     | N/c        |
| 1,300' – 11,906'  | Brine       | 8.8-10.2     | 28-34     | N/c        |
| 11,906' – 22,595' | Oil Base    | 11.0-12.5    | 58-68     | 3 - 6      |
| Lateral           |             |              |           |            |

The highest mud weight needed to balance formation is expected to be 11-12 ppg. In order to maintain hole stability, mud weights up to 13 ppg may be utilized.

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

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

## 7. Auxiliary well control and monitoring equipment:

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

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

(C) H<sub>2</sub>S 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 12,392' TVD (deepest point of the well) is 195F with an estimated maximum bottom-hole pressure (BHP) at the same point of 8,377 psig (based on 13 ppg MW). Hydrogen sulfate 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 H<sub>2</sub>S training.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment
  - a. Well Control Equipment
    - i. Flare line 150' from wellhead to be ignited by auto ignition sparking system.
    - ii. Choke manifold with a remotely operated hydraulic choke.
    - iii. Mud/gas separator
  - b. Protective equipment for essential personnel
    - i. Breathing Apparatus
      1. Rescue packs (SCBA) – 1 unit shall be placed at each briefing area, 2 shall be stored in a safety trailer on site.



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

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

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

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



the "batch drilling" method may be used. A batch drilling sequence sundry will be submitted for BLM 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, as per Onshore Order No. 2

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

After running the 2nd intermediate casing, and before drilling out, the wellhead, BOP, and related equipment will be tested to 10,000/250 psig.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Cacyus Multi-Bowl WH system has been sent to the BLM office in Carlsbad.

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 strings. After installation of the first intermediate string the pack-off and lower flanges will be pressure tested to 5000 psi. After installation of the second intermediate string, the pack-off and upper flange will be pressure tested to 10,000 psi.

Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

## 14. Additional variance requests

### A. Casing.

In order to minimize potential environmental and technical hazards, this well is planned with two intermediate strings of casing.

1. Variance is requested to wave the centralizer requirements for the 7 5/8" casing due to the tight clearance with 9 5/8" string.
2. Variance is requested to wave/reduce the centralizer requirements for the 5 1/2" casing due to the tight clearance with 6 3/4" hole and 5 1/2" casing due to tight clearances.

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# Franklin Mountain Energy

Project: Lea County, NM (NAD83)  
Site: FMM Fed Com  
Well: FMM Fed Com 801H  
Wellbore: OH  
Design: Plan #1

3288.9' GE + 30' KB @ 3318.90usft



Azimuths to Grid North  
True North: -0.54°  
Magnetic North: 5.87°

Magnetic Field  
Strength: 47465.0nT  
Dip Angle: 59.88°  
Date: 8/27/2021  
Model: IGRF2020

PROJECT DETAILS: Lea County, NM (NAD83)

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone



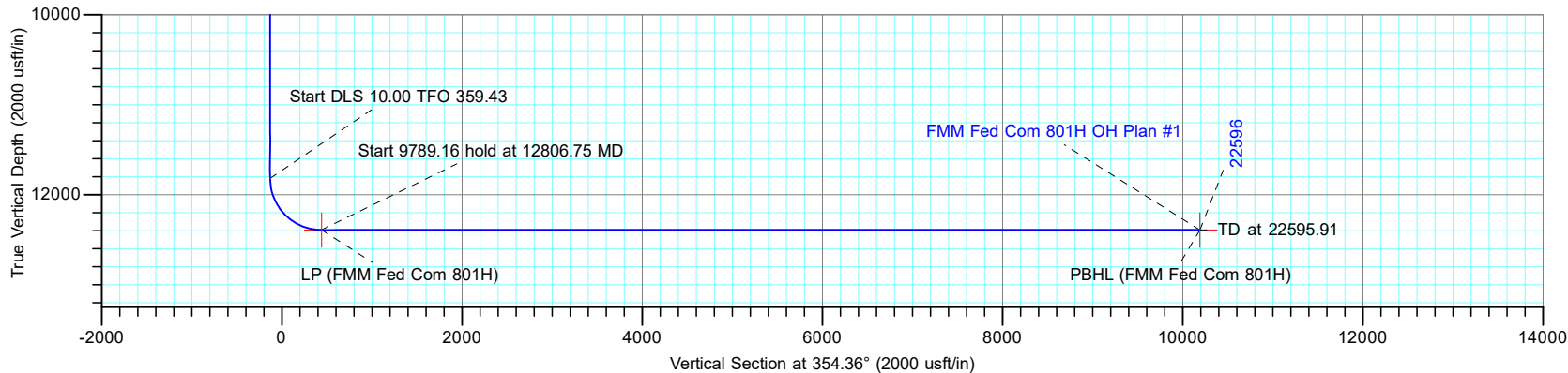
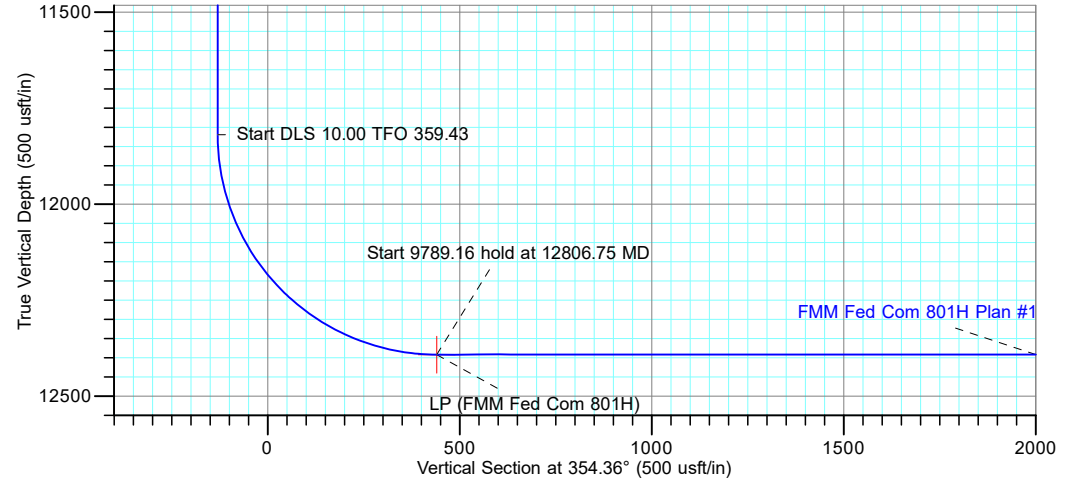
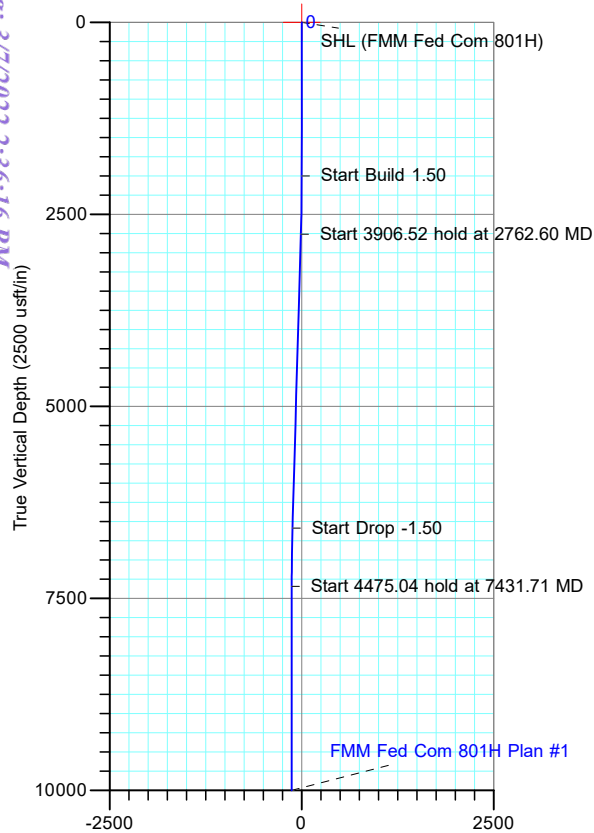
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## SECTION DETAILS

| 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     | Start Build 1.50                  |
| 2762.60  | 11.44 | 256.26 | 2757.54  | -18.02   | -73.70   | 1.50  | 256.26 | -10.68   | Start 3906.52 hold at 2762.60 MD  |
| 6669.11  | 11.44 | 256.26 | 6586.46  | -201.98  | -826.30  | 0.00  | 0.00   | -119.73  | Start Drop -1.50                  |
| 7431.71  | 0.00  | 0.00   | 7344.00  | -220.00  | -900.00  | 1.50  | 180.00 | -130.41  | Start 4475.04 hold at 7431.71 MD  |
| 11906.75 | 0.00  | 0.00   | 11819.04 | -220.00  | -900.00  | 0.00  | 0.00   | -130.41  | Start DLS 10.00 TFO 359.43        |
| 12806.75 | 90.00 | 359.43 | 12392.00 | 352.93   | -905.66  | 10.00 | 359.43 | 440.30   | Start 9789.16 hold at 12806.75 MD |
| 22595.91 | 90.00 | 359.43 | 12392.00 | 10141.61 | -1002.41 | 0.00  | 0.00   | 10191.03 | TD at 22595.91                    |

## DESIGN TARGET DETAILS

| Name                    | TVD      | +N/-S    | +E/-W    | Latitude  | Longitude   |
|-------------------------|----------|----------|----------|-----------|-------------|
| LP (FMM Fed Com 801H)   | 12392.00 | 352.93   | -905.66  | 32.168455 | -103.328564 |
| PBHL (FMM Fed Com 801H) | 12392.00 | 10141.61 | -1002.41 | 32.195362 | -103.328581 |
| SHL (FMM Fed Com 801H)  | 0.00     | 0.00     | 0.00     | 32.167462 | -103.325648 |



TOTAL DIRECTIONAL SERVICES LLC

Plan: Plan #1 (FMM Fed Com 801H/OH)  
Created By: Dustin Ault  
Date: 15:16, August 27 2021  
Approved: \_\_\_\_\_  
Date: \_\_\_\_\_

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Released to Imaging: 3/7/2022 2:36:16 PM

# Franklin Mountain Energy

Project: Lea County, NM (NAD83)  
Site: FMM Fed Com  
Well: FMM Fed Com 801H  
Wellbore: OH  
Design: Plan #1



Azimuths to Grid North  
True North: -0.54°  
Magnetic North: 5.87°  
Magnetic Field  
Strength: 47465.0nT  
Dip Angle: 59.88°  
Date: 8/27/2021  
Model: IGRF2020

PROJECT DETAILS: Lea County, NM (NAD83)  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone

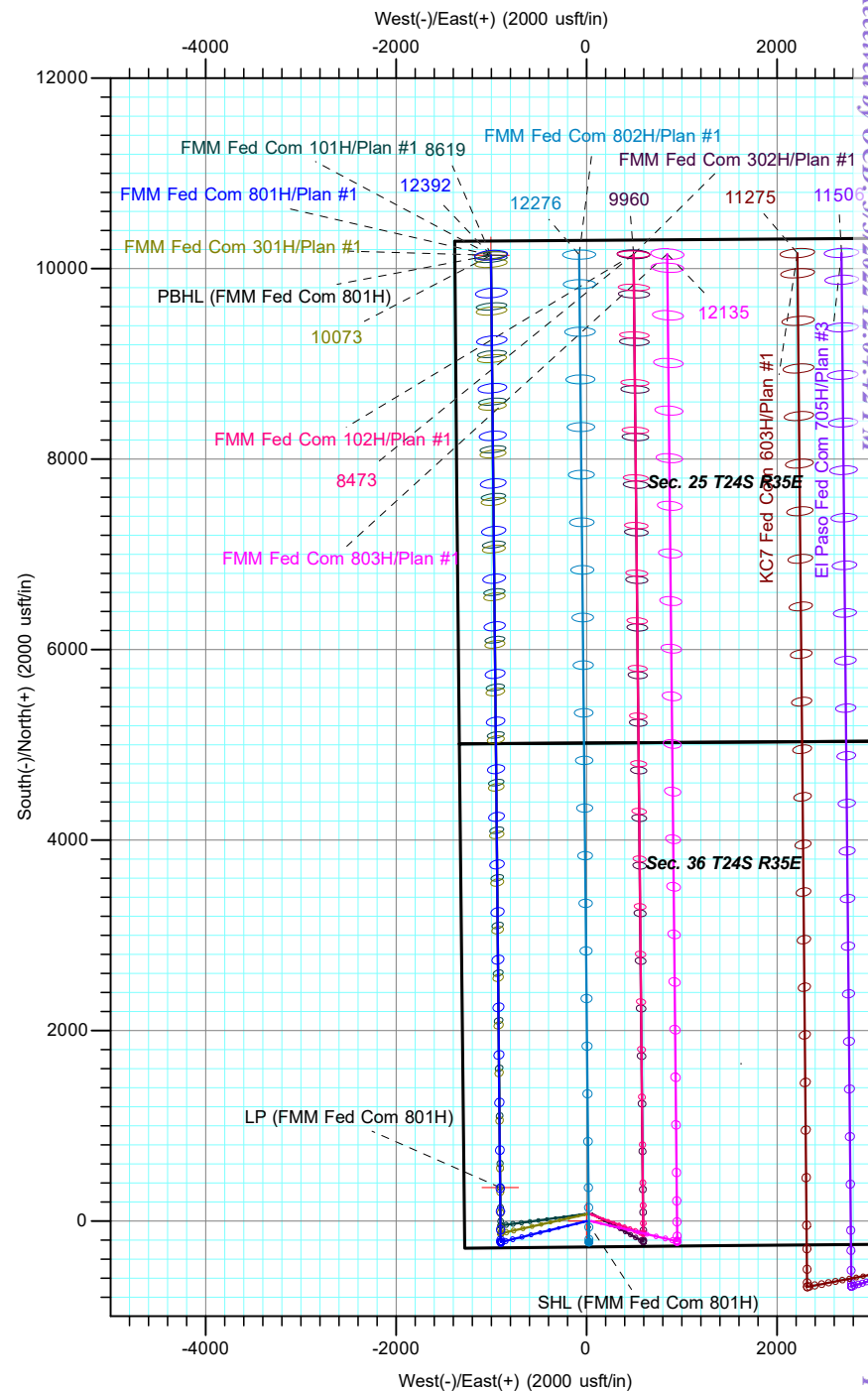
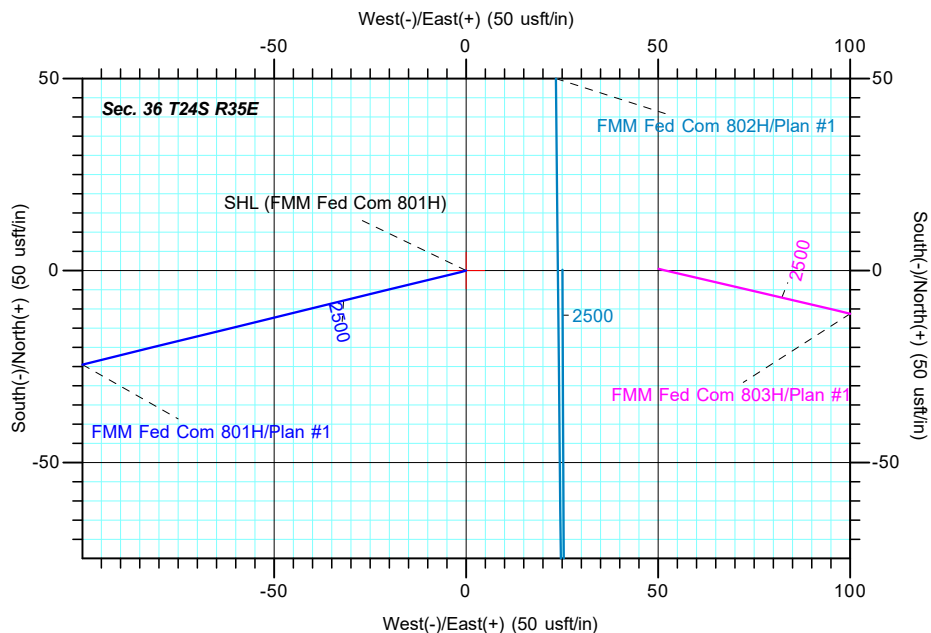


## DESIGN TARGET DETAILS

| Name                    | TVD      | +N/-S    | +E/-W    | Northings | Easting   | Latitude  | Longitude   |
|-------------------------|----------|----------|----------|-----------|-----------|-----------|-------------|
| LP (FMM Fed Com 801H)   | 12392.00 | 352.93   | -905.66  | 426470.49 | 852240.21 | 32.168455 | -103.328564 |
| PBHL (FMM Fed Com 801H) | 12392.00 | 10141.61 | -1002.41 | 436259.18 | 852143.46 | 32.195362 | -103.328581 |
| SHL (FMM Fed Com 801H)  | 0.00     | 0.00     | 0.00     | 426117.56 | 853145.87 | 32.167462 | -103.325648 |

## 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     | Start Build 1.50                  |
| 2762.60  | 11.44 | 256.26 | 2757.54  | -18.02   | -73.70   | 1.50  | 256.26 | -10.68   | Start 3906.52 hold at 2762.60 MD  |
| 6669.11  | 11.44 | 256.26 | 6586.46  | -201.98  | -826.30  | 0.00  | 0.00   | -119.73  | Start Drop -1.50                  |
| 7431.71  | 0.00  | 0.00   | 7344.00  | -220.00  | -900.00  | 1.50  | 180.00 | -130.41  | Start 4475.04 hold at 7431.71 MD  |
| 11906.75 | 0.00  | 0.00   | 11819.04 | -220.00  | -900.00  | 0.00  | 0.00   | -130.41  | Start DLS 10.00 TFO 359.43        |
| 12806.75 | 90.00 | 359.43 | 12392.00 | 352.93   | -905.66  | 10.00 | 359.43 | 440.30   | Start 9789.16 hold at 12806.75 MD |
| 22595.91 | 90.00 | 359.43 | 12392.00 | 10141.61 | -1002.41 | 0.00  | 0.00   | 10191.03 | TD at 22595.91                    |



TOTAL DIRECTIONAL SERVICES LLC

Plan: Plan #1 (FMM Fed Com 801H/OH)  
Created By: Dustin Ault  
Date: 15:18, August 27 2021  
Approved: \_\_\_\_\_  
Date: \_\_\_\_\_

Received by OCD: 3/3/2022 12:04:42 PM

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# Franklin Mountain Energy

Lea County, NM (NAD83)

FMM Fed Com

FMM Fed Com 801H

OH

Plan: Plan #1

## Standard Planning Report

27 August, 2021





## Total Directional Services

### Planning Report



|                  |                            |                                     |                                   |
|------------------|----------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | EDM 5000.15 Single User Db | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Company:</b>  | Franklin Mountain Energy   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Project:</b>  | Lea County, NM (NAD83)     | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site:</b>     | FMM Fed Com                | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | FMM Fed Com 801H           | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | OH                         |                                     |                                   |
| <b>Design:</b>   | Plan #1                    |                                     |                                   |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County, NM (NAD83)    |                      |                |
| <b>Map System:</b> | US State Plane 1983       | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983 |                      |                |
| <b>Map Zone:</b>   | New Mexico Eastern Zone   |                      |                |

|                              |             |                     |                 |                                 |
|------------------------------|-------------|---------------------|-----------------|---------------------------------|
| <b>Site</b>                  | FMM Fed Com |                     |                 |                                 |
| <b>Site Position:</b>        |             | <b>Northing:</b>    | 426,192.39 usft | <b>Latitude:</b> 32.167668      |
| <b>From:</b>                 | Lat/Long    | <b>Easting:</b>     | 853,132.79 usft | <b>Longitude:</b> -103.325688   |
| <b>Position Uncertainty:</b> | 0.00 usft   | <b>Slot Radius:</b> | 13-3/16 "       | <b>Grid Convergence:</b> 0.54 ° |

|                             |                  |                            |                  |                                    |
|-----------------------------|------------------|----------------------------|------------------|------------------------------------|
| <b>Well</b>                 | FMM Fed Com 801H |                            |                  |                                    |
| <b>Well Position</b>        | <b>+N/-S</b>     | -74.83 usft                | <b>Northing:</b> | 426,117.56 usft                    |
|                             | <b>+E/-W</b>     | 13.08 usft                 | <b>Easting:</b>  | 853,145.87 usft                    |
| <b>Position Uncertainty</b> | 0.00 usft        | <b>Wellhead Elevation:</b> |                  | <b>Ground Level:</b> 3,288.90 usft |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | OH                |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2020          | 8/27/2021          | 6.40                   | 59.88                | 47,465.03193145            |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Plan #1                        |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PLAN                | <b>Tie On Depth:</b> | 0.00                 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (°)</b> |
|                          | 0.00                           | 0.00                | 0.00                 | 354.36               |

|                                 |                        |                          |                     |                |
|---------------------------------|------------------------|--------------------------|---------------------|----------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b>            | 8/27/2021                |                     |                |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>    | <b>Remarks</b> |
| 1                               | 0.00                   | 22,595.91 Plan #1 (OH)   | OWSG (Rev2) MWD     |                |
|                                 |                        |                          | OWSG MWD - Standard |                |

|                              |                        |                    |                              |                     |                     |                                |                               |                              |                |                     |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|-------------------------------|------------------------------|----------------|---------------------|
| <b>Plan Sections</b>         |                        |                    |                              |                     |                     |                                |                               |                              |                |                     |
| <b>Measured Depth (usft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Dogleg Rate (°/100usft)</b> | <b>Build Rate (°/100usft)</b> | <b>Turn Rate (°/100usft)</b> | <b>TFO (°)</b> | <b>Target</b>       |
| 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           |                     |
| 2,762.60                     | 11.44                  | 256.26             | 2,757.54                     | -18.02              | -73.70              | 1.50                           | 1.50                          | 0.00                         | 256.26         |                     |
| 6,669.11                     | 11.44                  | 256.26             | 6,586.46                     | -201.98             | -826.30             | 0.00                           | 0.00                          | 0.00                         | 0.00           |                     |
| 7,431.71                     | 0.00                   | 0.00               | 7,344.00                     | -220.00             | -900.00             | 1.50                           | -1.50                         | 0.00                         | 180.00         |                     |
| 11,906.75                    | 0.00                   | 0.00               | 11,819.04                    | -220.00             | -900.00             | 0.00                           | 0.00                          | 0.00                         | 0.00           |                     |
| 12,806.75                    | 90.00                  | 359.43             | 12,392.00                    | 352.93              | -905.66             | 10.00                          | 10.00                         | -0.06                        | 359.43         |                     |
| 22,595.91                    | 90.00                  | 359.43             | 12,392.00                    | 10,141.61           | -1,002.41           | 0.00                           | 0.00                          | 0.00                         | 0.00           | PBHL (FMM Fed Corr) |



## Total Directional Services

### Planning Report



|                  |                            |                                     |                                   |
|------------------|----------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | EDM 5000.15 Single User Db | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Company:</b>  | Franklin Mountain Energy   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Project:</b>  | Lea County, NM (NAD83)     | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site:</b>     | FMM Fed Com                | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | FMM Fed Com 801H           | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | OH                         |                                     |                                   |
| <b>Design:</b>   | 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                  |
| <b>SHL (FMM Fed Com 801H)</b>           |                 |             |                       |              |              |                         |                         |                        |                       |
| 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                  |
| 1,900.00                                | 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                  |
| <b>Start Build 1.50</b>                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,100.00                                | 1.50            | 256.26      | 2,099.99              | -0.31        | -1.27        | -0.18                   | 1.50                    | 1.50                   | 0.00                  |
| 2,200.00                                | 3.00            | 256.26      | 2,199.91              | -1.24        | -5.09        | -0.74                   | 1.50                    | 1.50                   | 0.00                  |
| 2,300.00                                | 4.50            | 256.26      | 2,299.69              | -2.80        | -11.44       | -1.66                   | 1.50                    | 1.50                   | 0.00                  |
| 2,400.00                                | 6.00            | 256.26      | 2,399.27              | -4.97        | -20.33       | -2.95                   | 1.50                    | 1.50                   | 0.00                  |
| 2,500.00                                | 7.50            | 256.26      | 2,498.57              | -7.76        | -31.74       | -4.60                   | 1.50                    | 1.50                   | 0.00                  |
| 2,600.00                                | 9.00            | 256.26      | 2,597.54              | -11.17       | -45.68       | -6.62                   | 1.50                    | 1.50                   | 0.00                  |
| 2,700.00                                | 10.50           | 256.26      | 2,696.09              | -15.19       | -62.13       | -9.00                   | 1.50                    | 1.50                   | 0.00                  |
| 2,762.60                                | 11.44           | 256.26      | 2,757.54              | -18.02       | -73.70       | -10.68                  | 1.50                    | 1.50                   | 0.00                  |
| <b>Start 3906.52 hold at 2762.60 MD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,800.00                                | 11.44           | 256.26      | 2,794.20              | -19.78       | -80.91       | -11.72                  | 0.00                    | 0.00                   | 0.00                  |
| 2,900.00                                | 11.44           | 256.26      | 2,892.21              | -24.49       | -100.17      | -14.51                  | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00                                | 11.44           | 256.26      | 2,990.23              | -29.20       | -119.44      | -17.31                  | 0.00                    | 0.00                   | 0.00                  |
| 3,100.00                                | 11.44           | 256.26      | 3,088.24              | -33.91       | -138.70      | -20.10                  | 0.00                    | 0.00                   | 0.00                  |
| 3,200.00                                | 11.44           | 256.26      | 3,186.26              | -38.61       | -157.97      | -22.89                  | 0.00                    | 0.00                   | 0.00                  |
| 3,300.00                                | 11.44           | 256.26      | 3,284.27              | -43.32       | -177.23      | -25.68                  | 0.00                    | 0.00                   | 0.00                  |
| 3,400.00                                | 11.44           | 256.26      | 3,382.28              | -48.03       | -196.50      | -28.47                  | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00                                | 11.44           | 256.26      | 3,480.30              | -52.74       | -215.76      | -31.26                  | 0.00                    | 0.00                   | 0.00                  |
| 3,600.00                                | 11.44           | 256.26      | 3,578.31              | -57.45       | -235.03      | -34.06                  | 0.00                    | 0.00                   | 0.00                  |
| 3,700.00                                | 11.44           | 256.26      | 3,676.32              | -62.16       | -254.29      | -36.85                  | 0.00                    | 0.00                   | 0.00                  |
| 3,800.00                                | 11.44           | 256.26      | 3,774.34              | -66.87       | -273.56      | -39.64                  | 0.00                    | 0.00                   | 0.00                  |
| 3,900.00                                | 11.44           | 256.26      | 3,872.35              | -71.58       | -292.82      | -42.43                  | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00                                | 11.44           | 256.26      | 3,970.37              | -76.29       | -312.09      | -45.22                  | 0.00                    | 0.00                   | 0.00                  |
| 4,100.00                                | 11.44           | 256.26      | 4,068.38              | -81.00       | -331.35      | -48.01                  | 0.00                    | 0.00                   | 0.00                  |
| 4,200.00                                | 11.44           | 256.26      | 4,166.39              | -85.71       | -350.62      | -50.80                  | 0.00                    | 0.00                   | 0.00                  |
| 4,300.00                                | 11.44           | 256.26      | 4,264.41              | -90.42       | -369.89      | -53.60                  | 0.00                    | 0.00                   | 0.00                  |
| 4,400.00                                | 11.44           | 256.26      | 4,362.42              | -95.13       | -389.15      | -56.39                  | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00                                | 11.44           | 256.26      | 4,460.43              | -99.83       | -408.42      | -59.18                  | 0.00                    | 0.00                   | 0.00                  |
| 4,600.00                                | 11.44           | 256.26      | 4,558.45              | -104.54      | -427.68      | -61.97                  | 0.00                    | 0.00                   | 0.00                  |
| 4,700.00                                | 11.44           | 256.26      | 4,656.46              | -109.25      | -446.95      | -64.76                  | 0.00                    | 0.00                   | 0.00                  |
| 4,800.00                                | 11.44           | 256.26      | 4,754.47              | -113.96      | -466.21      | -67.55                  | 0.00                    | 0.00                   | 0.00                  |



# Total Directional Services

## Planning Report



|                  |                            |                                     |                                   |
|------------------|----------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | EDM 5000.15 Single User Db | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Company:</b>  | Franklin Mountain Energy   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Project:</b>  | Lea County, NM (NAD83)     | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site:</b>     | FMM Fed Com                | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | FMM Fed Com 801H           | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | OH                         |                                     |                                   |
| <b>Design:</b>   | 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) |
| 4,900.00                                | 11.44           | 256.26      | 4,852.49              | -118.67      | -485.48      | -70.34                  | 0.00                    | 0.00                   | 0.00                  |
| 5,000.00                                | 11.44           | 256.26      | 4,950.50              | -123.38      | -504.74      | -73.14                  | 0.00                    | 0.00                   | 0.00                  |
| 5,100.00                                | 11.44           | 256.26      | 5,048.52              | -128.09      | -524.01      | -75.93                  | 0.00                    | 0.00                   | 0.00                  |
| 5,200.00                                | 11.44           | 256.26      | 5,146.53              | -132.80      | -543.27      | -78.72                  | 0.00                    | 0.00                   | 0.00                  |
| 5,300.00                                | 11.44           | 256.26      | 5,244.54              | -137.51      | -562.54      | -81.51                  | 0.00                    | 0.00                   | 0.00                  |
| 5,400.00                                | 11.44           | 256.26      | 5,342.56              | -142.22      | -581.80      | -84.30                  | 0.00                    | 0.00                   | 0.00                  |
| 5,500.00                                | 11.44           | 256.26      | 5,440.57              | -146.93      | -601.07      | -87.09                  | 0.00                    | 0.00                   | 0.00                  |
| 5,600.00                                | 11.44           | 256.26      | 5,538.58              | -151.64      | -620.33      | -89.88                  | 0.00                    | 0.00                   | 0.00                  |
| 5,700.00                                | 11.44           | 256.26      | 5,636.60              | -156.35      | -639.60      | -92.68                  | 0.00                    | 0.00                   | 0.00                  |
| 5,800.00                                | 11.44           | 256.26      | 5,734.61              | -161.06      | -658.86      | -95.47                  | 0.00                    | 0.00                   | 0.00                  |
| 5,900.00                                | 11.44           | 256.26      | 5,832.62              | -165.76      | -678.13      | -98.26                  | 0.00                    | 0.00                   | 0.00                  |
| 6,000.00                                | 11.44           | 256.26      | 5,930.64              | -170.47      | -697.39      | -101.05                 | 0.00                    | 0.00                   | 0.00                  |
| 6,100.00                                | 11.44           | 256.26      | 6,028.65              | -175.18      | -716.66      | -103.84                 | 0.00                    | 0.00                   | 0.00                  |
| 6,200.00                                | 11.44           | 256.26      | 6,126.67              | -179.89      | -735.92      | -106.63                 | 0.00                    | 0.00                   | 0.00                  |
| 6,300.00                                | 11.44           | 256.26      | 6,224.68              | -184.60      | -755.19      | -109.42                 | 0.00                    | 0.00                   | 0.00                  |
| 6,400.00                                | 11.44           | 256.26      | 6,322.69              | -189.31      | -774.45      | -112.22                 | 0.00                    | 0.00                   | 0.00                  |
| 6,500.00                                | 11.44           | 256.26      | 6,420.71              | -194.02      | -793.72      | -115.01                 | 0.00                    | 0.00                   | 0.00                  |
| 6,600.00                                | 11.44           | 256.26      | 6,518.72              | -198.73      | -812.98      | -117.80                 | 0.00                    | 0.00                   | 0.00                  |
| 6,669.11                                | 11.44           | 256.26      | 6,586.46              | -201.98      | -826.30      | -119.73                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Start Drop -1.50</b>                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,700.00                                | 10.98           | 256.26      | 6,616.76              | -203.41      | -832.13      | -120.57                 | 1.50                    | -1.50                  | 0.00                  |
| 6,800.00                                | 9.48            | 256.26      | 6,715.17              | -207.62      | -849.37      | -123.07                 | 1.50                    | -1.50                  | 0.00                  |
| 6,900.00                                | 7.98            | 256.26      | 6,814.01              | -211.23      | -864.11      | -125.21                 | 1.50                    | -1.50                  | 0.00                  |
| 7,000.00                                | 6.48            | 256.26      | 6,913.21              | -214.21      | -876.33      | -126.98                 | 1.50                    | -1.50                  | 0.00                  |
| 7,100.00                                | 4.98            | 256.26      | 7,012.71              | -216.58      | -886.02      | -128.38                 | 1.50                    | -1.50                  | 0.00                  |
| 7,200.00                                | 3.48            | 256.26      | 7,112.43              | -218.33      | -893.18      | -129.42                 | 1.50                    | -1.50                  | 0.00                  |
| 7,300.00                                | 1.98            | 256.26      | 7,212.32              | -219.46      | -897.79      | -130.09                 | 1.50                    | -1.50                  | 0.00                  |
| 7,400.00                                | 0.48            | 256.26      | 7,312.29              | -219.97      | -899.87      | -130.39                 | 1.50                    | -1.50                  | 0.00                  |
| 7,431.71                                | 0.00            | 0.00        | 7,344.00              | -220.00      | -900.00      | -130.41                 | 1.50                    | -1.50                  | 0.00                  |
| <b>Start 4475.04 hold at 7431.71 MD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,500.00                                | 0.00            | 0.00        | 7,412.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 7,600.00                                | 0.00            | 0.00        | 7,512.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 7,700.00                                | 0.00            | 0.00        | 7,612.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 7,800.00                                | 0.00            | 0.00        | 7,712.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 7,900.00                                | 0.00            | 0.00        | 7,812.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 8,000.00                                | 0.00            | 0.00        | 7,912.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 8,100.00                                | 0.00            | 0.00        | 8,012.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 8,200.00                                | 0.00            | 0.00        | 8,112.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 8,300.00                                | 0.00            | 0.00        | 8,212.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 8,400.00                                | 0.00            | 0.00        | 8,312.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 8,500.00                                | 0.00            | 0.00        | 8,412.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 8,600.00                                | 0.00            | 0.00        | 8,512.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 8,700.00                                | 0.00            | 0.00        | 8,612.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 8,800.00                                | 0.00            | 0.00        | 8,712.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 8,900.00                                | 0.00            | 0.00        | 8,812.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 9,000.00                                | 0.00            | 0.00        | 8,912.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 9,100.00                                | 0.00            | 0.00        | 9,012.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 9,200.00                                | 0.00            | 0.00        | 9,112.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 9,300.00                                | 0.00            | 0.00        | 9,212.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 9,400.00                                | 0.00            | 0.00        | 9,312.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 9,500.00                                | 0.00            | 0.00        | 9,412.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 9,600.00                                | 0.00            | 0.00        | 9,512.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 9,700.00                                | 0.00            | 0.00        | 9,612.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 9,800.00                                | 0.00            | 0.00        | 9,712.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |



## Total Directional Services

### Planning Report



|                  |                            |                                     |                                   |
|------------------|----------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | EDM 5000.15 Single User Db | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Company:</b>  | Franklin Mountain Energy   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Project:</b>  | Lea County, NM (NAD83)     | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site:</b>     | FMM Fed Com                | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | FMM Fed Com 801H           | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | OH                         |                                     |                                   |
| <b>Design:</b>   | 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) |
| 9,900.00                                                         | 0.00            | 0.00        | 9,812.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 10,000.00                                                        | 0.00            | 0.00        | 9,912.29              | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 10,100.00                                                        | 0.00            | 0.00        | 10,012.29             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 10,200.00                                                        | 0.00            | 0.00        | 10,112.29             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 10,300.00                                                        | 0.00            | 0.00        | 10,212.29             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 10,400.00                                                        | 0.00            | 0.00        | 10,312.29             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 10,500.00                                                        | 0.00            | 0.00        | 10,412.29             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 10,600.00                                                        | 0.00            | 0.00        | 10,512.29             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 10,700.00                                                        | 0.00            | 0.00        | 10,612.29             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 10,800.00                                                        | 0.00            | 0.00        | 10,712.29             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 10,900.00                                                        | 0.00            | 0.00        | 10,812.29             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 11,000.00                                                        | 0.00            | 0.00        | 10,912.29             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 11,100.00                                                        | 0.00            | 0.00        | 11,012.29             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 11,200.00                                                        | 0.00            | 0.00        | 11,112.29             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 11,300.00                                                        | 0.00            | 0.00        | 11,212.29             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 11,400.00                                                        | 0.00            | 0.00        | 11,312.29             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 11,500.00                                                        | 0.00            | 0.00        | 11,412.29             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 11,600.00                                                        | 0.00            | 0.00        | 11,512.29             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 11,700.00                                                        | 0.00            | 0.00        | 11,612.29             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 11,800.00                                                        | 0.00            | 0.00        | 11,712.29             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| 11,906.75                                                        | 0.00            | 0.00        | 11,819.04             | -220.00      | -900.00      | -130.41                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Start DLS 10.00 TFO 359.43</b>                                |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,950.00                                                        | 4.33            | 359.43      | 11,862.25             | -218.37      | -900.02      | -128.78                 | 10.00                   | 10.00                  | 0.00                  |
| 12,000.00                                                        | 9.33            | 359.43      | 11,911.88             | -212.43      | -900.07      | -122.87                 | 10.00                   | 10.00                  | 0.00                  |
| 12,050.00                                                        | 14.33           | 359.43      | 11,960.80             | -202.19      | -900.18      | -112.66                 | 10.00                   | 10.00                  | 0.00                  |
| 12,100.00                                                        | 19.33           | 359.43      | 12,008.65             | -187.72      | -900.32      | -98.25                  | 10.00                   | 10.00                  | 0.00                  |
| 12,150.00                                                        | 24.33           | 359.43      | 12,055.05             | -169.14      | -900.50      | -79.74                  | 10.00                   | 10.00                  | 0.00                  |
| 12,200.00                                                        | 29.33           | 359.43      | 12,099.66             | -146.58      | -900.73      | -57.27                  | 10.00                   | 10.00                  | 0.00                  |
| 12,250.00                                                        | 34.33           | 359.43      | 12,142.12             | -120.22      | -900.99      | -31.02                  | 10.00                   | 10.00                  | 0.00                  |
| 12,300.00                                                        | 39.33           | 359.43      | 12,182.14             | -90.27       | -901.28      | -1.18                   | 10.00                   | 10.00                  | 0.00                  |
| 12,350.00                                                        | 44.33           | 359.43      | 12,219.38             | -56.94       | -901.61      | 32.02                   | 10.00                   | 10.00                  | 0.00                  |
| 12,400.00                                                        | 49.33           | 359.43      | 12,253.58             | -20.49       | -901.97      | 68.33                   | 10.00                   | 10.00                  | 0.00                  |
| 12,450.00                                                        | 54.33           | 359.43      | 12,284.48             | 18.81        | -902.36      | 107.47                  | 10.00                   | 10.00                  | 0.00                  |
| 12,500.00                                                        | 59.33           | 359.43      | 12,311.83             | 60.64        | -902.77      | 149.15                  | 10.00                   | 10.00                  | 0.00                  |
| 12,550.00                                                        | 64.33           | 359.43      | 12,335.43             | 104.70       | -903.21      | 193.03                  | 10.00                   | 10.00                  | 0.00                  |
| 12,600.00                                                        | 69.33           | 359.43      | 12,355.10             | 150.65       | -903.66      | 238.80                  | 10.00                   | 10.00                  | 0.00                  |
| 12,650.00                                                        | 74.33           | 359.43      | 12,370.69             | 198.14       | -904.13      | 286.11                  | 10.00                   | 10.00                  | 0.00                  |
| 12,700.00                                                        | 79.33           | 359.43      | 12,382.08             | 246.80       | -904.61      | 334.59                  | 10.00                   | 10.00                  | 0.00                  |
| 12,750.00                                                        | 84.33           | 359.43      | 12,389.19             | 296.28       | -905.10      | 383.87                  | 10.00                   | 10.00                  | 0.00                  |
| 12,800.00                                                        | 89.33           | 359.43      | 12,391.96             | 346.18       | -905.60      | 433.58                  | 10.00                   | 10.00                  | 0.00                  |
| 12,806.75                                                        | 90.00           | 359.43      | 12,392.00             | 352.93       | -905.66      | 440.30                  | 10.00                   | 10.00                  | 0.00                  |
| <b>Start 9789.16 hold at 12806.75 MD - LP (FMM Fed Com 801H)</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,900.00                                                        | 90.00           | 359.43      | 12,392.00             | 446.18       | -906.58      | 533.19                  | 0.00                    | 0.00                   | 0.00                  |
| 13,000.00                                                        | 90.00           | 359.43      | 12,392.00             | 546.17       | -907.57      | 632.79                  | 0.00                    | 0.00                   | 0.00                  |
| 13,100.00                                                        | 90.00           | 359.43      | 12,392.00             | 646.17       | -908.56      | 732.40                  | 0.00                    | 0.00                   | 0.00                  |
| 13,200.00                                                        | 90.00           | 359.43      | 12,392.00             | 746.16       | -909.55      | 832.01                  | 0.00                    | 0.00                   | 0.00                  |
| 13,300.00                                                        | 90.00           | 359.43      | 12,392.00             | 846.16       | -910.54      | 931.62                  | 0.00                    | 0.00                   | 0.00                  |
| 13,400.00                                                        | 90.00           | 359.43      | 12,392.00             | 946.15       | -911.53      | 1,031.22                | 0.00                    | 0.00                   | 0.00                  |
| 13,500.00                                                        | 90.00           | 359.43      | 12,392.00             | 1,046.15     | -912.51      | 1,130.83                | 0.00                    | 0.00                   | 0.00                  |
| 13,600.00                                                        | 90.00           | 359.43      | 12,392.00             | 1,146.14     | -913.50      | 1,230.44                | 0.00                    | 0.00                   | 0.00                  |
| 13,700.00                                                        | 90.00           | 359.43      | 12,392.00             | 1,246.14     | -914.49      | 1,330.05                | 0.00                    | 0.00                   | 0.00                  |
| 13,800.00                                                        | 90.00           | 359.43      | 12,392.00             | 1,346.13     | -915.48      | 1,429.65                | 0.00                    | 0.00                   | 0.00                  |
| 13,900.00                                                        | 90.00           | 359.43      | 12,392.00             | 1,446.13     | -916.47      | 1,529.26                | 0.00                    | 0.00                   | 0.00                  |
| 14,000.00                                                        | 90.00           | 359.43      | 12,392.00             | 1,546.12     | -917.46      | 1,628.87                | 0.00                    | 0.00                   | 0.00                  |



## Total Directional Services

## Planning Report



|                  |                            |                                     |                                   |
|------------------|----------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | EDM 5000.15 Single User Db | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Company:</b>  | Franklin Mountain Energy   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Project:</b>  | Lea County, NM (NAD83)     | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site:</b>     | FMM Fed Com                | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | FMM Fed Com 801H           | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | OH                         |                                     |                                   |
| <b>Design:</b>   | 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) |
| 14,100.00             | 90.00           | 359.43      | 12,392.00             | 1,646.12     | -918.44      | 1,728.48                | 0.00                    | 0.00                   | 0.00                  |
| 14,200.00             | 90.00           | 359.43      | 12,392.00             | 1,746.11     | -919.43      | 1,828.08                | 0.00                    | 0.00                   | 0.00                  |
| 14,300.00             | 90.00           | 359.43      | 12,392.00             | 1,846.11     | -920.42      | 1,927.69                | 0.00                    | 0.00                   | 0.00                  |
| 14,400.00             | 90.00           | 359.43      | 12,392.00             | 1,946.10     | -921.41      | 2,027.30                | 0.00                    | 0.00                   | 0.00                  |
| 14,500.00             | 90.00           | 359.43      | 12,392.00             | 2,046.10     | -922.40      | 2,126.91                | 0.00                    | 0.00                   | 0.00                  |
| 14,600.00             | 90.00           | 359.43      | 12,392.00             | 2,146.09     | -923.39      | 2,226.51                | 0.00                    | 0.00                   | 0.00                  |
| 14,700.00             | 90.00           | 359.43      | 12,392.00             | 2,246.09     | -924.37      | 2,326.12                | 0.00                    | 0.00                   | 0.00                  |
| 14,800.00             | 90.00           | 359.43      | 12,392.00             | 2,346.08     | -925.36      | 2,425.73                | 0.00                    | 0.00                   | 0.00                  |
| 14,900.00             | 90.00           | 359.43      | 12,392.00             | 2,446.08     | -926.35      | 2,525.33                | 0.00                    | 0.00                   | 0.00                  |
| 15,000.00             | 90.00           | 359.43      | 12,392.00             | 2,546.07     | -927.34      | 2,624.94                | 0.00                    | 0.00                   | 0.00                  |
| 15,100.00             | 90.00           | 359.43      | 12,392.00             | 2,646.07     | -928.33      | 2,724.55                | 0.00                    | 0.00                   | 0.00                  |
| 15,200.00             | 90.00           | 359.43      | 12,392.00             | 2,746.06     | -929.32      | 2,824.16                | 0.00                    | 0.00                   | 0.00                  |
| 15,300.00             | 90.00           | 359.43      | 12,392.00             | 2,846.06     | -930.30      | 2,923.76                | 0.00                    | 0.00                   | 0.00                  |
| 15,400.00             | 90.00           | 359.43      | 12,392.00             | 2,946.05     | -931.29      | 3,023.37                | 0.00                    | 0.00                   | 0.00                  |
| 15,500.00             | 90.00           | 359.43      | 12,392.00             | 3,046.05     | -932.28      | 3,122.98                | 0.00                    | 0.00                   | 0.00                  |
| 15,600.00             | 90.00           | 359.43      | 12,392.00             | 3,146.04     | -933.27      | 3,222.59                | 0.00                    | 0.00                   | 0.00                  |
| 15,700.00             | 90.00           | 359.43      | 12,392.00             | 3,246.04     | -934.26      | 3,322.19                | 0.00                    | 0.00                   | 0.00                  |
| 15,800.00             | 90.00           | 359.43      | 12,392.00             | 3,346.04     | -935.25      | 3,421.80                | 0.00                    | 0.00                   | 0.00                  |
| 15,900.00             | 90.00           | 359.43      | 12,392.00             | 3,446.03     | -936.23      | 3,521.41                | 0.00                    | 0.00                   | 0.00                  |
| 16,000.00             | 90.00           | 359.43      | 12,392.00             | 3,546.03     | -937.22      | 3,621.02                | 0.00                    | 0.00                   | 0.00                  |
| 16,100.00             | 90.00           | 359.43      | 12,392.00             | 3,646.02     | -938.21      | 3,720.62                | 0.00                    | 0.00                   | 0.00                  |
| 16,200.00             | 90.00           | 359.43      | 12,392.00             | 3,746.02     | -939.20      | 3,820.23                | 0.00                    | 0.00                   | 0.00                  |
| 16,300.00             | 90.00           | 359.43      | 12,392.00             | 3,846.01     | -940.19      | 3,919.84                | 0.00                    | 0.00                   | 0.00                  |
| 16,400.00             | 90.00           | 359.43      | 12,392.00             | 3,946.01     | -941.18      | 4,019.45                | 0.00                    | 0.00                   | 0.00                  |
| 16,500.00             | 90.00           | 359.43      | 12,392.00             | 4,046.00     | -942.16      | 4,119.05                | 0.00                    | 0.00                   | 0.00                  |
| 16,600.00             | 90.00           | 359.43      | 12,392.00             | 4,146.00     | -943.15      | 4,218.66                | 0.00                    | 0.00                   | 0.00                  |
| 16,700.00             | 90.00           | 359.43      | 12,392.00             | 4,245.99     | -944.14      | 4,318.27                | 0.00                    | 0.00                   | 0.00                  |
| 16,800.00             | 90.00           | 359.43      | 12,392.00             | 4,345.99     | -945.13      | 4,417.88                | 0.00                    | 0.00                   | 0.00                  |
| 16,900.00             | 90.00           | 359.43      | 12,392.00             | 4,445.98     | -946.12      | 4,517.48                | 0.00                    | 0.00                   | 0.00                  |
| 17,000.00             | 90.00           | 359.43      | 12,392.00             | 4,545.98     | -947.10      | 4,617.09                | 0.00                    | 0.00                   | 0.00                  |
| 17,100.00             | 90.00           | 359.43      | 12,392.00             | 4,645.97     | -948.09      | 4,716.70                | 0.00                    | 0.00                   | 0.00                  |
| 17,200.00             | 90.00           | 359.43      | 12,392.00             | 4,745.97     | -949.08      | 4,816.31                | 0.00                    | 0.00                   | 0.00                  |
| 17,300.00             | 90.00           | 359.43      | 12,392.00             | 4,845.96     | -950.07      | 4,915.91                | 0.00                    | 0.00                   | 0.00                  |
| 17,400.00             | 90.00           | 359.43      | 12,392.00             | 4,945.96     | -951.06      | 5,015.52                | 0.00                    | 0.00                   | 0.00                  |
| 17,500.00             | 90.00           | 359.43      | 12,392.00             | 5,045.95     | -952.05      | 5,115.13                | 0.00                    | 0.00                   | 0.00                  |
| 17,600.00             | 90.00           | 359.43      | 12,392.00             | 5,145.95     | -953.03      | 5,214.74                | 0.00                    | 0.00                   | 0.00                  |
| 17,700.00             | 90.00           | 359.43      | 12,392.00             | 5,245.94     | -954.02      | 5,314.34                | 0.00                    | 0.00                   | 0.00                  |
| 17,800.00             | 90.00           | 359.43      | 12,392.00             | 5,345.94     | -955.01      | 5,413.95                | 0.00                    | 0.00                   | 0.00                  |
| 17,900.00             | 90.00           | 359.43      | 12,392.00             | 5,445.93     | -956.00      | 5,513.56                | 0.00                    | 0.00                   | 0.00                  |
| 18,000.00             | 90.00           | 359.43      | 12,392.00             | 5,545.93     | -956.99      | 5,613.17                | 0.00                    | 0.00                   | 0.00                  |
| 18,100.00             | 90.00           | 359.43      | 12,392.00             | 5,645.92     | -957.98      | 5,712.77                | 0.00                    | 0.00                   | 0.00                  |
| 18,200.00             | 90.00           | 359.43      | 12,392.00             | 5,745.92     | -958.96      | 5,812.38                | 0.00                    | 0.00                   | 0.00                  |
| 18,300.00             | 90.00           | 359.43      | 12,392.00             | 5,845.91     | -959.95      | 5,911.99                | 0.00                    | 0.00                   | 0.00                  |
| 18,400.00             | 90.00           | 359.43      | 12,392.00             | 5,945.91     | -960.94      | 6,011.59                | 0.00                    | 0.00                   | 0.00                  |
| 18,500.00             | 90.00           | 359.43      | 12,392.00             | 6,045.90     | -961.93      | 6,111.20                | 0.00                    | 0.00                   | 0.00                  |
| 18,600.00             | 90.00           | 359.43      | 12,392.00             | 6,145.90     | -962.92      | 6,210.81                | 0.00                    | 0.00                   | 0.00                  |
| 18,700.00             | 90.00           | 359.43      | 12,392.00             | 6,245.89     | -963.91      | 6,310.42                | 0.00                    | 0.00                   | 0.00                  |
| 18,800.00             | 90.00           | 359.43      | 12,392.00             | 6,345.89     | -964.89      | 6,410.02                | 0.00                    | 0.00                   | 0.00                  |
| 18,900.00             | 90.00           | 359.43      | 12,392.00             | 6,445.88     | -965.88      | 6,509.63                | 0.00                    | 0.00                   | 0.00                  |
| 19,000.00             | 90.00           | 359.43      | 12,392.00             | 6,545.88     | -966.87      | 6,609.24                | 0.00                    | 0.00                   | 0.00                  |
| 19,100.00             | 90.00           | 359.43      | 12,392.00             | 6,645.87     | -967.86      | 6,708.85                | 0.00                    | 0.00                   | 0.00                  |
| 19,200.00             | 90.00           | 359.43      | 12,392.00             | 6,745.87     | -968.85      | 6,808.45                | 0.00                    | 0.00                   | 0.00                  |
| 19,300.00             | 90.00           | 359.43      | 12,392.00             | 6,845.86     | -969.84      | 6,908.06                | 0.00                    | 0.00                   | 0.00                  |
| 19,400.00             | 90.00           | 359.43      | 12,392.00             | 6,945.86     | -970.82      | 7,007.67                | 0.00                    | 0.00                   | 0.00                  |



## Total Directional Services

## Planning Report



|                  |                            |                                     |                                   |
|------------------|----------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | EDM 5000.15 Single User Db | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Company:</b>  | Franklin Mountain Energy   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Project:</b>  | Lea County, NM (NAD83)     | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site:</b>     | FMM Fed Com                | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | FMM Fed Com 801H           | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | OH                         |                                     |                                   |
| <b>Design:</b>   | Plan #1                    |                                     |                                   |

| Planned Survey                           |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
|------------------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|--|
| Measured<br>Depth<br>(usft)              | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |  |
| 19,500.00                                | 90.00              | 359.43         | 12,392.00                   | 7,045.85        | -971.81         | 7,107.28                      | 0.00                          | 0.00                         | 0.00                        |  |
| 19,600.00                                | 90.00              | 359.43         | 12,392.00                   | 7,145.85        | -972.80         | 7,206.88                      | 0.00                          | 0.00                         | 0.00                        |  |
| 19,700.00                                | 90.00              | 359.43         | 12,392.00                   | 7,245.84        | -973.79         | 7,306.49                      | 0.00                          | 0.00                         | 0.00                        |  |
| 19,800.00                                | 90.00              | 359.43         | 12,392.00                   | 7,345.84        | -974.78         | 7,406.10                      | 0.00                          | 0.00                         | 0.00                        |  |
| 19,900.00                                | 90.00              | 359.43         | 12,392.00                   | 7,445.84        | -975.77         | 7,505.71                      | 0.00                          | 0.00                         | 0.00                        |  |
| 20,000.00                                | 90.00              | 359.43         | 12,392.00                   | 7,545.83        | -976.75         | 7,605.31                      | 0.00                          | 0.00                         | 0.00                        |  |
| 20,100.00                                | 90.00              | 359.43         | 12,392.00                   | 7,645.83        | -977.74         | 7,704.92                      | 0.00                          | 0.00                         | 0.00                        |  |
| 20,200.00                                | 90.00              | 359.43         | 12,392.00                   | 7,745.82        | -978.73         | 7,804.53                      | 0.00                          | 0.00                         | 0.00                        |  |
| 20,300.00                                | 90.00              | 359.43         | 12,392.00                   | 7,845.82        | -979.72         | 7,904.14                      | 0.00                          | 0.00                         | 0.00                        |  |
| 20,400.00                                | 90.00              | 359.43         | 12,392.00                   | 7,945.81        | -980.71         | 8,003.74                      | 0.00                          | 0.00                         | 0.00                        |  |
| 20,500.00                                | 90.00              | 359.43         | 12,392.00                   | 8,045.81        | -981.70         | 8,103.35                      | 0.00                          | 0.00                         | 0.00                        |  |
| 20,600.00                                | 90.00              | 359.43         | 12,392.00                   | 8,145.80        | -982.68         | 8,202.96                      | 0.00                          | 0.00                         | 0.00                        |  |
| 20,700.00                                | 90.00              | 359.43         | 12,392.00                   | 8,245.80        | -983.67         | 8,302.57                      | 0.00                          | 0.00                         | 0.00                        |  |
| 20,800.00                                | 90.00              | 359.43         | 12,392.00                   | 8,345.79        | -984.66         | 8,402.17                      | 0.00                          | 0.00                         | 0.00                        |  |
| 20,900.00                                | 90.00              | 359.43         | 12,392.00                   | 8,445.79        | -985.65         | 8,501.78                      | 0.00                          | 0.00                         | 0.00                        |  |
| 21,000.00                                | 90.00              | 359.43         | 12,392.00                   | 8,545.78        | -986.64         | 8,601.39                      | 0.00                          | 0.00                         | 0.00                        |  |
| 21,100.00                                | 90.00              | 359.43         | 12,392.00                   | 8,645.78        | -987.63         | 8,701.00                      | 0.00                          | 0.00                         | 0.00                        |  |
| 21,200.00                                | 90.00              | 359.43         | 12,392.00                   | 8,745.77        | -988.61         | 8,800.60                      | 0.00                          | 0.00                         | 0.00                        |  |
| 21,300.00                                | 90.00              | 359.43         | 12,392.00                   | 8,845.77        | -989.60         | 8,900.21                      | 0.00                          | 0.00                         | 0.00                        |  |
| 21,400.00                                | 90.00              | 359.43         | 12,392.00                   | 8,945.76        | -990.59         | 8,999.82                      | 0.00                          | 0.00                         | 0.00                        |  |
| 21,500.00                                | 90.00              | 359.43         | 12,392.00                   | 9,045.76        | -991.58         | 9,099.42                      | 0.00                          | 0.00                         | 0.00                        |  |
| 21,600.00                                | 90.00              | 359.43         | 12,392.00                   | 9,145.75        | -992.57         | 9,199.03                      | 0.00                          | 0.00                         | 0.00                        |  |
| 21,700.00                                | 90.00              | 359.43         | 12,392.00                   | 9,245.75        | -993.56         | 9,298.64                      | 0.00                          | 0.00                         | 0.00                        |  |
| 21,800.00                                | 90.00              | 359.43         | 12,392.00                   | 9,345.74        | -994.54         | 9,398.25                      | 0.00                          | 0.00                         | 0.00                        |  |
| 21,900.00                                | 90.00              | 359.43         | 12,392.00                   | 9,445.74        | -995.53         | 9,497.85                      | 0.00                          | 0.00                         | 0.00                        |  |
| 22,000.00                                | 90.00              | 359.43         | 12,392.00                   | 9,545.73        | -996.52         | 9,597.46                      | 0.00                          | 0.00                         | 0.00                        |  |
| 22,100.00                                | 90.00              | 359.43         | 12,392.00                   | 9,645.73        | -997.51         | 9,697.07                      | 0.00                          | 0.00                         | 0.00                        |  |
| 22,200.00                                | 90.00              | 359.43         | 12,392.00                   | 9,745.72        | -998.50         | 9,796.68                      | 0.00                          | 0.00                         | 0.00                        |  |
| 22,300.00                                | 90.00              | 359.43         | 12,392.00                   | 9,845.72        | -999.49         | 9,896.28                      | 0.00                          | 0.00                         | 0.00                        |  |
| 22,400.00                                | 90.00              | 359.43         | 12,392.00                   | 9,945.71        | -1,000.47       | 9,995.89                      | 0.00                          | 0.00                         | 0.00                        |  |
| 22,500.00                                | 90.00              | 359.43         | 12,392.00                   | 10,045.71       | -1,001.46       | 10,095.50                     | 0.00                          | 0.00                         | 0.00                        |  |
| 22,595.91                                | 90.00              | 359.43         | 12,392.00                   | 10,141.61       | -1,002.41       | 10,191.03                     | 0.00                          | 0.00                         | 0.00                        |  |
| TD at 22595.91 - PBHL (FMM Fed Com 801H) |                    |                |                             |                 |                 |                               |                               |                              |                             |  |

| Design Targets                                                    |               |              |            |              |              |                 |                |           |  |             |
|-------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|--|-------------|
| Target Name                                                       | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude  |  | Longitude   |
| SHL (FMM Fed Com 801H)<br>- hit/miss target<br>- Shape<br>- Point | 0.00          | 0.00         | 0.00       | 0.00         | 0.00         | 426,117.56      | 853,145.87     | 32.167462 |  | -103.325648 |
| LP (FMM Fed Com 801H)<br>- plan hits target center<br>- Point     | 0.00          | 0.00         | 12,392.00  | 352.93       | -905.66      | 426,470.49      | 852,240.21     | 32.168455 |  | -103.328564 |
| PBHL (FMM Fed Com 801H)<br>- plan hits target center<br>- Point   | 0.00          | 0.00         | 12,392.00  | 10,141.61    | -1,002.41    | 436,259.18      | 852,143.46     | 32.195362 |  | -103.328581 |



## Total Directional Services

### Planning Report



|                  |                            |                                     |                                   |
|------------------|----------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | EDM 5000.15 Single User Db | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Company:</b>  | Franklin Mountain Energy   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Project:</b>  | Lea County, NM (NAD83)     | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site:</b>     | FMM Fed Com                | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | FMM Fed Com 801H           | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | OH                         |                                     |                                   |
| <b>Design:</b>   | Plan #1                    |                                     |                                   |

| Plan Annotations      |                       |                   |              |                                   |
|-----------------------|-----------------------|-------------------|--------------|-----------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                           |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                                   |
| 2,000.00              | 2,000.00              | 0.00              | 0.00         | Start Build 1.50                  |
| 2,762.60              | 2,757.54              | -18.02            | -73.70       | Start 3906.52 hold at 2762.60 MD  |
| 6,669.11              | 6,586.46              | -201.98           | -826.30      | Start Drop -1.50                  |
| 7,431.71              | 7,344.00              | -220.00           | -900.00      | Start 4475.04 hold at 7431.71 MD  |
| 11,906.75             | 11,819.04             | -220.00           | -900.00      | Start DLS 10.00 TFO 359.43        |
| 12,806.75             | 12,392.00             | 352.93            | -905.66      | Start 9789.16 hold at 12806.75 MD |
| 22,595.91             | 12,392.00             | 10,141.61         | -1,002.41    | TD at 22595.91                    |



# Franklin Mountain Energy

Lea County, NM (NAD83)

FMM Fed Com

FMM Fed Com 801H

OH

Plan #1

## Anticollision Report

27 August, 2021





## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Reference                    | Plan #1                                                             |                |                     |
|------------------------------|---------------------------------------------------------------------|----------------|---------------------|
| Filter type:                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                |                     |
| Interpolation Method:        | Stations                                                            | Error Model:   | ISCWSA              |
| Depth Range:                 | 1,843.00 to 28,999.00usft                                           | Scan Method:   | Closest Approach 3D |
| Results Limited by:          | Maximum ellipse separation of 1,000.00 usft                         | Error Surface: | Combined Separation |
| Warning Levels Evaluated at: | 2.00 Sigma                                                          | Casing Method: | Not applied         |

| Survey Tool Program |              | Date              | 8/27/2021       |                     |  |
|---------------------|--------------|-------------------|-----------------|---------------------|--|
| From<br>(usft)      | To<br>(usft) | Survey (Wellbore) | Tool Name       | Description         |  |
| 0.00                | 22,595.91    | Plan #1 (OH)      | OWSG (Rev2) MWD | OWSG MWD - Standard |  |

| Summary                             |                                 |                              |                                 |                                  |                   |            |
|-------------------------------------|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|------------|
| Site Name                           | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning    |
| Offset Well - Wellbore - Design     |                                 |                              |                                 |                                  |                   |            |
| FMM Fed Com                         |                                 |                              |                                 |                                  |                   |            |
| FMM Fed Com 101H - OH - Plan #1     | 1,843.00                        | 1,841.87                     | 75.97                           | 66.96                            | 8.434             | CC         |
| FMM Fed Com 101H - OH - Plan #1     | 2,000.00                        | 1,998.57                     | 76.34                           | 66.55                            | 7.800             | ES         |
| FMM Fed Com 101H - OH - Plan #1     | 8,101.40                        | 8,090.11                     | 174.83                          | 129.71                           | 3.875             | SF         |
| FMM Fed Com 102H - OH - Plan #1     | 1,916.40                        | 1,917.20                     | 83.78                           | 74.39                            | 8.924             | CC         |
| FMM Fed Com 102H - OH - Plan #1     | 2,000.00                        | 2,000.80                     | 83.78                           | 73.97                            | 8.539             | ES         |
| FMM Fed Com 102H - OH - Plan #1     | 2,200.00                        | 2,200.00                     | 88.13                           | 77.36                            | 8.177             | SF         |
| FMM Fed Com 301H - OH - Plan #1     | 2,000.00                        | 1,999.70                     | 75.96                           | 66.15                            | 7.744             | CC         |
| FMM Fed Com 301H - OH - Plan #1     | 9,600.00                        | 9,598.64                     | 92.17                           | 40.28                            | 1.776             | ES, SF     |
| FMM Fed Com 302H - OH - Plan #1     | 1,916.19                        | 1,917.59                     | 97.59                           | 88.21                            | 10.395            | CC         |
| FMM Fed Com 302H - OH - Plan #1     | 2,000.00                        | 2,001.39                     | 97.59                           | 87.78                            | 9.945             | ES         |
| FMM Fed Com 302H - OH - Plan #1     | 2,200.00                        | 2,200.00                     | 103.11                          | 92.33                            | 9.570             | SF         |
| FMM Fed Com 802H - OH - Plan #1     | 2,000.00                        | 2,000.30                     | 25.07                           | 15.26                            | 2.555             | CC, ES, SF |
| FMM Fed Com 803H - OH - Plan #1     | 1,916.36                        | 1,917.26                     | 50.13                           | 40.74                            | 5.340             | CC         |
| FMM Fed Com 803H - OH - Plan #1     | 2,000.00                        | 2,000.89                     | 50.13                           | 40.32                            | 5.109             | ES, SF     |
| KC7 Fed Com/EI Paso Fed Com         |                                 |                              |                                 |                                  |                   |            |
| EI Paso Fed Com 604H - OH - Plan #1 | 2,000.00                        | 2,045.20                     | 3,392.98                        | 3,383.06                         | 341.868           | CC, ES     |
| EI Paso Fed Com 604H - OH - Plan #1 | 22,595.91                       | 22,139.46                    | 4,415.95                        | 4,172.90                         | 18.168            | SF         |
| EI Paso Fed Com 705H - OH - Plan #3 | 2,000.00                        | 2,045.60                     | 3,358.42                        | 3,348.49                         | 338.351           | CC, ES     |
| EI Paso Fed Com 705H - OH - Plan #3 | 22,595.91                       | 22,466.71                    | 3,785.72                        | 3,541.13                         | 15.478            | SF         |
| EI Paso Fed Com 706H - OH - Plan #1 | 2,000.00                        | 2,045.00                     | 3,427.54                        | 3,417.62                         | 345.368           | CC, ES     |
| EI Paso Fed Com 706H - OH - Plan #1 | 22,595.91                       | 22,289.73                    | 4,670.50                        | 4,424.77                         | 19.007            | SF         |
| KC7 Fed Com 603H - OH - Plan #1     | 11,665.64                       | 11,952.46                    | 3,213.40                        | 3,154.78                         | 54.814            | CC, ES     |
| KC7 Fed Com 603H - OH - Plan #1     | 22,595.91                       | 22,285.91                    | 3,406.13                        | 3,168.20                         | 14.316            | SF         |

| Offset Design         |                       | FMM Fed Com - FMM Fed Com 101H - OH - Plan #1 |                       |                  |               |                       |                                     |              |                        |                         |                           | Offset Site Error: |         | 0.00 usft |
|-----------------------|-----------------------|-----------------------------------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|--------------------|---------|-----------|
| Survey Program:       |                       | 0-OWSG (Rev2) MWD                             |                       |                  |               |                       |                                     |              |                        |                         |                           | Offset Well Error: |         | 0.00 usft |
| Reference             |                       | Offset                                        |                       | Semi Major Axis  |               | Distance              |                                     |              |                        |                         |                           |                    | Warning |           |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft)                         | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor  |         |           |
| 1,843.00              | 1,843.00              | 1,841.87                                      | 1,841.87              | 6.37             | 6.37          | -10.09                | 74.80                               | -13.31       | 75.97                  | 66.96                   | 9.01                      | 8.434              | CC      |           |
| 1,900.00              | 1,900.00              | 1,898.80                                      | 1,898.79              | 6.58             | 6.56          | -10.88                | 74.66                               | -14.35       | 76.02                  | 66.73                   | 9.29                      | 8.181              |         |           |
| 2,000.00              | 2,000.00              | 1,998.57                                      | 1,998.48              | 6.94             | 6.90          | -13.79                | 74.14                               | -18.19       | 76.34                  | 66.55                   | 9.79                      | 7.800              | ES      |           |
| 2,100.00              | 2,099.99              | 2,098.15                                      | 2,097.85              | 7.28             | 7.25          | 86.12                 | 73.27                               | -24.61       | 77.20                  | 66.92                   | 10.27                     | 7.514              |         |           |
| 2,200.00              | 2,199.91              | 2,197.60                                      | 2,196.89              | 7.62             | 7.59          | 82.44                 | 72.06                               | -33.57       | 78.66                  | 67.91                   | 10.76                     | 7.313              |         |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   | Warning            |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 2,300.00                          | 2,299.69              | 2,296.92              | 2,295.52              | 7.97             | 7.95          | 78.96                 | 70.50                               | -45.07       | 80.71                  | 69.46                   | 11.24                     | 7.179             |                    |           |
| 2,400.00                          | 2,399.27              | 2,396.09              | 2,393.68              | 8.31             | 8.31          | 75.72                 | 68.61                               | -59.08       | 83.28                  | 71.55                   | 11.73                     | 7.099             |                    |           |
| 2,500.00                          | 2,498.57              | 2,495.17              | 2,491.34              | 8.66             | 8.66          | 72.76                 | 66.38                               | -75.59       | 86.35                  | 74.13                   | 12.23                     | 7.063             |                    |           |
| 2,600.00                          | 2,597.54              | 2,595.08              | 2,589.62              | 9.02             | 9.06          | 70.87                 | 63.97                               | -93.42       | 89.28                  | 76.54                   | 12.74                     | 7.007             |                    |           |
| 2,700.00                          | 2,696.09              | 2,695.06              | 2,687.96              | 9.39             | 9.45          | 70.65                 | 61.56                               | -111.25      | 91.39                  | 78.12                   | 13.27                     | 6.886             |                    |           |
| 2,762.60                          | 2,757.54              | 2,757.64              | 2,749.52              | 9.63             | 9.70          | 71.30                 | 60.05                               | -122.41      | 92.28                  | 78.67                   | 13.61                     | 6.779             |                    |           |
| 2,800.00                          | 2,794.20              | 2,795.03              | 2,786.30              | 9.77             | 9.84          | 71.87                 | 59.15                               | -129.08      | 92.72                  | 78.90                   | 13.82                     | 6.709             |                    |           |
| 2,900.00                          | 2,892.21              | 2,894.99              | 2,884.63              | 10.17            | 10.25         | 73.37                 | 56.74                               | -146.91      | 93.94                  | 79.56                   | 14.38                     | 6.533             |                    |           |
| 3,000.00                          | 2,990.23              | 2,994.95              | 2,982.96              | 10.56            | 10.65         | 74.83                 | 54.33                               | -164.75      | 95.22                  | 80.27                   | 14.95                     | 6.369             |                    |           |
| 3,100.00                          | 3,088.24              | 3,094.92              | 3,081.29              | 10.97            | 11.06         | 76.25                 | 51.92                               | -182.58      | 96.57                  | 81.04                   | 15.53                     | 6.218             |                    |           |
| 3,200.00                          | 3,186.26              | 3,194.88              | 3,179.62              | 11.38            | 11.48         | 77.62                 | 49.51                               | -200.41      | 97.97                  | 81.85                   | 16.12                     | 6.079             |                    |           |
| 3,300.00                          | 3,284.27              | 3,294.84              | 3,277.95              | 11.80            | 11.90         | 78.96                 | 47.10                               | -218.24      | 99.43                  | 82.72                   | 16.71                     | 5.950             |                    |           |
| 3,400.00                          | 3,382.28              | 3,394.80              | 3,376.28              | 12.22            | 12.32         | 80.26                 | 44.69                               | -236.07      | 100.94                 | 83.62                   | 17.31                     | 5.830             |                    |           |
| 3,500.00                          | 3,480.30              | 3,494.77              | 3,474.61              | 12.65            | 12.74         | 81.52                 | 42.28                               | -253.90      | 102.50                 | 84.58                   | 17.92                     | 5.720             |                    |           |
| 3,600.00                          | 3,578.31              | 3,594.73              | 3,572.94              | 13.08            | 13.17         | 82.75                 | 39.87                               | -271.74      | 104.10                 | 85.58                   | 18.53                     | 5.618             |                    |           |
| 3,700.00                          | 3,676.32              | 3,694.69              | 3,671.27              | 13.51            | 13.60         | 83.93                 | 37.46                               | -289.57      | 105.76                 | 86.61                   | 19.14                     | 5.524             |                    |           |
| 3,800.00                          | 3,774.34              | 3,794.66              | 3,769.60              | 13.95            | 14.03         | 85.08                 | 35.05                               | -307.40      | 107.46                 | 87.69                   | 19.76                     | 5.437             |                    |           |
| 3,900.00                          | 3,872.35              | 3,894.62              | 3,867.93              | 14.39            | 14.47         | 86.19                 | 32.64                               | -325.23      | 109.20                 | 88.81                   | 20.39                     | 5.356             |                    |           |
| 4,000.00                          | 3,970.37              | 3,994.58              | 3,966.26              | 14.83            | 14.90         | 87.27                 | 30.24                               | -343.06      | 110.98                 | 89.96                   | 21.01                     | 5.282             |                    |           |
| 4,100.00                          | 4,068.38              | 4,094.54              | 4,064.59              | 15.28            | 15.34         | 88.31                 | 27.83                               | -360.89      | 112.79                 | 91.15                   | 21.64                     | 5.213             |                    |           |
| 4,200.00                          | 4,166.39              | 4,194.51              | 4,162.92              | 15.72            | 15.78         | 89.32                 | 25.42                               | -378.72      | 114.65                 | 92.38                   | 22.27                     | 5.148             |                    |           |
| 4,300.00                          | 4,264.41              | 4,294.47              | 4,261.25              | 16.17            | 16.22         | 90.29                 | 23.01                               | -396.56      | 116.53                 | 93.64                   | 22.90                     | 5.089             |                    |           |
| 4,400.00                          | 4,362.42              | 4,394.43              | 4,359.58              | 16.63            | 16.66         | 91.24                 | 20.60                               | -414.39      | 118.45                 | 94.92                   | 23.53                     | 5.034             |                    |           |
| 4,500.00                          | 4,460.43              | 4,494.40              | 4,457.91              | 17.08            | 17.10         | 92.15                 | 18.19                               | -432.22      | 120.41                 | 96.24                   | 24.17                     | 4.983             |                    |           |
| 4,600.00                          | 4,558.45              | 4,594.36              | 4,556.24              | 17.54            | 17.54         | 93.04                 | 15.78                               | -450.05      | 122.39                 | 97.59                   | 24.80                     | 4.935             |                    |           |
| 4,700.00                          | 4,656.46              | 4,694.32              | 4,654.57              | 17.99            | 17.99         | 93.89                 | 13.37                               | -467.88      | 124.40                 | 98.96                   | 25.43                     | 4.891             |                    |           |
| 4,800.00                          | 4,754.47              | 4,794.28              | 4,752.90              | 18.45            | 18.43         | 94.72                 | 10.96                               | -485.71      | 126.43                 | 100.36                  | 26.07                     | 4.850             |                    |           |
| 4,900.00                          | 4,852.49              | 4,894.25              | 4,851.23              | 18.91            | 18.88         | 95.53                 | 8.55                                | -503.55      | 128.50                 | 101.79                  | 26.71                     | 4.812             |                    |           |
| 5,000.00                          | 4,950.50              | 4,994.21              | 4,949.56              | 19.37            | 19.33         | 96.30                 | 6.14                                | -521.38      | 130.58                 | 103.24                  | 27.34                     | 4.776             |                    |           |
| 5,100.00                          | 5,048.52              | 5,094.17              | 5,047.89              | 19.83            | 19.78         | 97.06                 | 3.73                                | -539.21      | 132.69                 | 104.72                  | 27.98                     | 4.743             |                    |           |
| 5,200.00                          | 5,146.53              | 5,194.13              | 5,146.22              | 20.29            | 20.22         | 97.79                 | 1.32                                | -557.04      | 134.83                 | 106.21                  | 28.61                     | 4.712             |                    |           |
| 5,300.00                          | 5,244.54              | 5,294.10              | 5,244.55              | 20.76            | 20.67         | 98.49                 | -1.09                               | -574.87      | 136.98                 | 107.73                  | 29.25                     | 4.683             |                    |           |
| 5,400.00                          | 5,342.56              | 5,394.06              | 5,342.88              | 21.22            | 21.12         | 99.18                 | -3.50                               | -592.70      | 139.15                 | 109.27                  | 29.89                     | 4.656             |                    |           |
| 5,500.00                          | 5,440.57              | 5,494.02              | 5,441.21              | 21.69            | 21.57         | 99.84                 | -5.91                               | -610.53      | 141.35                 | 110.82                  | 30.52                     | 4.631             |                    |           |
| 5,600.00                          | 5,538.58              | 5,593.99              | 5,539.54              | 22.15            | 22.02         | 100.48                | -8.32                               | -628.37      | 143.56                 | 112.40                  | 31.16                     | 4.608             |                    |           |
| 5,700.00                          | 5,636.60              | 5,693.95              | 5,637.87              | 22.62            | 22.48         | 101.11                | -10.73                              | -646.20      | 145.79                 | 113.99                  | 31.79                     | 4.586             |                    |           |
| 5,800.00                          | 5,734.61              | 5,793.91              | 5,736.20              | 23.09            | 22.93         | 101.71                | -13.14                              | -664.03      | 148.03                 | 115.60                  | 32.43                     | 4.565             |                    |           |
| 5,900.00                          | 5,832.62              | 5,893.87              | 5,834.53              | 23.56            | 23.38         | 102.30                | -15.55                              | -681.86      | 150.29                 | 117.23                  | 33.06                     | 4.546             |                    |           |
| 6,000.00                          | 5,930.64              | 5,993.84              | 5,932.86              | 24.02            | 23.83         | 102.87                | -17.96                              | -699.69      | 152.57                 | 118.87                  | 33.69                     | 4.528             |                    |           |
| 6,100.00                          | 6,028.65              | 6,093.80              | 6,031.19              | 24.49            | 24.28         | 103.42                | -20.37                              | -717.52      | 154.86                 | 120.53                  | 34.33                     | 4.511             |                    |           |
| 6,200.00                          | 6,126.67              | 6,193.76              | 6,129.52              | 24.96            | 24.74         | 103.95                | -22.78                              | -735.35      | 157.17                 | 122.21                  | 34.96                     | 4.496             |                    |           |
| 6,300.00                          | 6,224.68              | 6,293.73              | 6,227.85              | 25.43            | 25.19         | 104.48                | -25.19                              | -753.19      | 159.48                 | 123.89                  | 35.59                     | 4.481             |                    |           |
| 6,400.00                          | 6,322.69              | 6,393.69              | 6,326.18              | 25.91            | 25.65         | 104.98                | -27.60                              | -771.02      | 161.82                 | 125.59                  | 36.22                     | 4.467             |                    |           |
| 6,500.00                          | 6,420.71              | 6,493.65              | 6,424.51              | 26.38            | 26.10         | 105.47                | -30.01                              | -788.85      | 164.16                 | 127.30                  | 36.85                     | 4.454             |                    |           |
| 6,600.00                          | 6,518.72              | 6,593.61              | 6,522.84              | 26.85            | 26.56         | 105.95                | -32.42                              | -806.68      | 166.51                 | 129.03                  | 37.49                     | 4.442             |                    |           |
| 6,669.11                          | 6,586.46              | 6,662.70              | 6,590.80              | 27.18            | 26.87         | 106.27                | -34.08                              | -819.00      | 168.15                 | 130.23                  | 37.92                     | 4.434             |                    |           |
| 6,700.00                          | 6,616.76              | 6,693.58              | 6,621.17              | 27.32            | 27.01         | 106.38                | -34.83                              | -824.51      | 168.85                 | 130.73                  | 38.12                     | 4.430             |                    |           |
| 6,800.00                          | 6,715.17              | 6,793.42              | 6,719.39              | 27.78            | 27.46         | 106.19                | -37.23                              | -842.29      | 170.63                 | 131.87                  | 38.76                     | 4.402             |                    |           |
| 6,900.00                          | 6,814.01              | 6,892.63              | 6,817.27              | 28.21            | 27.90         | 105.73                | -39.39                              | -858.29      | 171.99                 | 132.60                  | 39.39                     | 4.367             |                    |           |
| 7,000.00                          | 6,913.21              | 6,991.87              | 6,915.58              | 28.62            | 28.32         | 105.28                | -41.21                              | -871.77      | 173.10                 | 133.11                  | 39.98                     | 4.329             |                    |           |
| 7,100.00                          | 7,012.71              | 7,091.15              | 7,014.23              | 29.01            | 28.71         | 104.84                | -42.69                              | -882.72      | 173.94                 | 133.39                  | 40.55                     | 4.289             |                    |           |
| 7,200.00                          | 7,112.43              | 7,190.46              | 7,113.18              | 29.37            | 29.09         | 104.42                | -43.83                              | -891.13      | 174.53                 | 133.44                  | 41.09                     | 4.248             |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | FMM Fed Com - FMM Fed Com 101H - OH - Plan #1 |         | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|-----------------------------------------------|---------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   |                                               |         | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                                               | Warning |                    |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                                               |         |                    |           |
| 7,300.00                          | 7,212.32              | 7,289.81              | 7,212.35              | 29.72            | 29.44         | 104.01                | -44.62                              | -896.98      | 174.85                 | 133.25                  | 41.59                     | 4.204             |                                               |         |                    |           |
| 7,400.00                          | 7,312.29              | 7,389.18              | 7,311.66              | 30.04            | 29.78         | 103.60                | -45.07                              | -900.28      | 174.90                 | 132.83                  | 42.07                     | 4.157             |                                               |         |                    |           |
| 7,431.71                          | 7,344.00              | 7,420.70              | 7,343.18              | 30.14            | 29.88         | -0.26                 | -45.13                              | -900.80      | 174.87                 | 132.65                  | 42.21                     | 4.142             |                                               |         |                    |           |
| 7,500.00                          | 7,412.29              | 7,488.72              | 7,411.19              | 30.34            | 30.09         | -0.35                 | -45.17                              | -901.08      | 174.83                 | 132.32                  | 42.51                     | 4.113             |                                               |         |                    |           |
| 7,600.00                          | 7,512.29              | 7,588.72              | 7,511.19              | 30.64            | 30.39         | -0.35                 | -45.17                              | -901.08      | 174.83                 | 131.89                  | 42.94                     | 4.071             |                                               |         |                    |           |
| 7,700.00                          | 7,612.29              | 7,688.72              | 7,611.19              | 30.94            | 30.70         | -0.35                 | -45.17                              | -901.08      | 174.83                 | 131.46                  | 43.37                     | 4.031             |                                               |         |                    |           |
| 7,800.00                          | 7,712.29              | 7,788.72              | 7,711.19              | 31.24            | 31.00         | -0.35                 | -45.17                              | -901.08      | 174.83                 | 131.03                  | 43.81                     | 3.991             |                                               |         |                    |           |
| 7,900.00                          | 7,812.29              | 7,888.72              | 7,811.19              | 31.55            | 31.31         | -0.35                 | -45.17                              | -901.08      | 174.83                 | 130.59                  | 44.24                     | 3.952             |                                               |         |                    |           |
| 8,000.00                          | 7,912.29              | 7,988.72              | 7,911.19              | 31.85            | 31.62         | -0.35                 | -45.17                              | -901.08      | 174.83                 | 130.16                  | 44.68                     | 3.913             |                                               |         |                    |           |
| 8,100.00                          | 8,012.29              | 8,088.72              | 8,011.19              | 32.16            | 31.93         | -0.35                 | -45.17                              | -901.08      | 174.83                 | 129.72                  | 45.11                     | 3.875             |                                               |         |                    |           |
| 8,101.40                          | 8,013.69              | 8,090.11              | 8,012.59              | 32.16            | 31.93         | -0.35                 | -45.17                              | -901.08      | 174.83                 | 129.71                  | 45.12                     | 3.875 SF          |                                               |         |                    |           |
| 8,200.00                          | 8,112.29              | 8,173.12              | 8,095.53              | 32.47            | 32.19         | -0.36                 | -42.94                              | -901.10      | 177.75                 | 132.47                  | 45.28                     | 3.926             |                                               |         |                    |           |
| 8,300.00                          | 8,212.29              | 8,250.00              | 8,171.43              | 32.78            | 32.41         | -0.37                 | -31.06                              | -901.22      | 193.08                 | 148.29                  | 44.80                     | 4.310             |                                               |         |                    |           |
| 8,400.00                          | 8,312.29              | 8,318.48              | 8,237.16              | 33.08            | 32.60         | -0.39                 | -12.00                              | -901.41      | 220.78                 | 177.25                  | 43.53                     | 5.072             |                                               |         |                    |           |
| 8,500.00                          | 8,412.29              | 8,383.45              | 8,297.00              | 33.40            | 32.76         | -0.41                 | 13.20                               | -901.66      | 259.66                 | 217.60                  | 42.07                     | 6.173             |                                               |         |                    |           |
| 8,600.00                          | 8,512.29              | 8,450.00              | 8,354.94              | 33.71            | 32.92         | -0.43                 | 45.87                               | -901.99      | 308.39                 | 267.35                  | 41.04                     | 7.514             |                                               |         |                    |           |
| 8,700.00                          | 8,612.29              | 8,500.00              | 8,395.76              | 34.02            | 33.02         | -0.44                 | 74.71                               | -902.27      | 365.06                 | 325.76                  | 39.30                     | 9.290             |                                               |         |                    |           |
| 8,800.00                          | 8,712.29              | 8,550.00              | 8,433.92              | 34.33            | 33.11         | -0.45                 | 107.00                              | -902.59      | 428.74                 | 390.72                  | 38.02                     | 11.277            |                                               |         |                    |           |
| 8,900.00                          | 8,812.29              | 8,579.52              | 8,455.07              | 34.65            | 33.16         | -0.46                 | 127.58                              | -902.80      | 497.64                 | 461.60                  | 36.04                     | 13.809            |                                               |         |                    |           |
| 9,000.00                          | 8,912.29              | 8,614.51              | 8,478.73              | 34.96            | 33.22         | -0.47                 | 153.35                              | -903.05      | 571.33                 | 536.51                  | 34.82                     | 16.406            |                                               |         |                    |           |
| 9,100.00                          | 9,012.29              | 8,650.00              | 8,501.08              | 35.28            | 33.27         | -0.48                 | 180.91                              | -903.33      | 648.82                 | 614.85                  | 33.96                     | 19.103            |                                               |         |                    |           |
| 9,200.00                          | 9,112.29              | 8,672.11              | 8,514.12              | 35.59            | 33.30         | -0.48                 | 198.77                              | -903.51      | 729.30                 | 696.45                  | 32.84                     | 22.207            |                                               |         |                    |           |
| 9,300.00                          | 9,212.29              | 8,700.00              | 8,529.57              | 35.91            | 33.34         | -0.48                 | 221.98                              | -903.74      | 812.38                 | 780.19                  | 32.20                     | 25.233            |                                               |         |                    |           |
| 9,400.00                          | 9,312.29              | 8,716.91              | 8,538.38              | 36.23            | 33.37         | -0.49                 | 236.40                              | -903.88      | 897.53                 | 866.13                  | 31.39                     | 28.590            |                                               |         |                    |           |
| 9,500.00                          | 9,412.29              | 8,750.00              | 8,554.38              | 36.55            | 33.41         | -0.49                 | 265.37                              | -904.17      | 984.75                 | 953.52                  | 31.23                     | 31.537            |                                               |         |                    |           |
| 9,600.00                          | 9,512.29              | 8,750.00              | 8,554.38              | 36.87            | 33.41         | -0.49                 | 265.37                              | -904.17      | 1,072.89               | 1,042.57                | 30.32                     | 35.387            |                                               |         |                    |           |
| 9,700.00                          | 9,612.29              | 8,767.34              | 8,562.08              | 37.19            | 33.44         | -0.49                 | 280.90                              | -904.32      | 1,162.56               | 1,132.56                | 30.00                     | 38.757            |                                               |         |                    |           |
| 9,800.00                          | 9,712.29              | 8,780.85              | 8,567.77              | 37.51            | 33.46         | -0.50                 | 293.16                              | -904.45      | 1,253.31               | 1,223.62                | 29.69                     | 42.213            |                                               |         |                    |           |
| 9,900.00                          | 9,812.29              | 8,800.00              | 8,575.31              | 37.83            | 33.49         | -0.50                 | 310.76                              | -904.62      | 1,345.04               | 1,315.46                | 29.58                     | 45.473            |                                               |         |                    |           |
| 10,000.00                         | 9,912.29              | 8,800.00              | 8,575.31              | 38.15            | 33.49         | -0.50                 | 310.76                              | -904.62      | 1,437.46               | 1,408.27                | 29.19                     | 49.240            |                                               |         |                    |           |
| 10,100.00                         | 10,012.29             | 8,800.00              | 8,575.31              | 38.47            | 33.49         | -0.50                 | 310.76                              | -904.62      | 1,530.84               | 1,501.93                | 28.91                     | 52.954            |                                               |         |                    |           |
| 10,200.00                         | 10,112.29             | 8,823.60              | 8,583.80              | 38.80            | 33.52         | -0.50                 | 332.78                              | -904.84      | 1,624.35               | 1,595.31                | 29.04                     | 55.937            |                                               |         |                    |           |
| 10,300.00                         | 10,212.29             | 8,850.00              | 8,592.21              | 39.12            | 33.56         | -0.50                 | 357.80                              | -905.09      | 1,719.01               | 1,689.78                | 29.22                     | 58.824            |                                               |         |                    |           |
| 10,400.00                         | 10,312.29             | 8,850.00              | 8,592.21              | 39.45            | 33.56         | -0.50                 | 357.80                              | -905.09      | 1,813.50               | 1,784.41                | 29.09                     | 62.345            |                                               |         |                    |           |
| 10,500.00                         | 10,412.29             | 8,850.00              | 8,592.21              | 39.77            | 33.56         | -0.50                 | 357.80                              | -905.09      | 1,908.55               | 1,879.55                | 29.01                     | 65.794            |                                               |         |                    |           |
| 10,600.00                         | 10,512.29             | 8,850.00              | 8,592.21              | 40.10            | 33.56         | -0.50                 | 357.80                              | -905.09      | 2,004.09               | 1,975.11                | 28.98                     | 69.165            |                                               |         |                    |           |
| 10,700.00                         | 10,612.29             | 8,850.00              | 8,592.21              | 40.42            | 33.56         | -0.50                 | 357.80                              | -905.09      | 2,100.04               | 2,071.06                | 28.98                     | 72.467            |                                               |         |                    |           |
| 10,800.00                         | 10,712.29             | 8,850.00              | 8,592.21              | 40.75            | 33.56         | -0.50                 | 357.80                              | -905.09      | 2,196.35               | 2,167.34                | 29.02                     | 75.691            |                                               |         |                    |           |
| 10,900.00                         | 10,812.29             | 8,871.29              | 8,598.14              | 41.08            | 33.60         | -0.51                 | 378.24                              | -905.29      | 2,292.49               | 2,263.22                | 29.27                     | 78.325            |                                               |         |                    |           |
| 11,000.00                         | 10,912.29             | 8,876.34              | 8,599.44              | 41.41            | 33.61         | -0.51                 | 383.12                              | -905.34      | 2,389.14               | 2,359.75                | 29.39                     | 81.285            |                                               |         |                    |           |
| 11,100.00                         | 11,012.29             | 8,900.00              | 8,604.94              | 41.73            | 33.65         | -0.51                 | 406.13                              | -905.57      | 2,486.39               | 2,456.71                | 29.68                     | 83.770            |                                               |         |                    |           |
| 11,200.00                         | 11,112.29             | 8,900.00              | 8,604.94              | 42.06            | 33.65         | -0.51                 | 406.13                              | -905.57      | 2,583.29               | 2,553.49                | 29.80                     | 86.700            |                                               |         |                    |           |
| 11,300.00                         | 11,212.29             | 8,900.00              | 8,604.94              | 42.39            | 33.65         | -0.51                 | 406.13                              | -905.57      | 2,680.42               | 2,650.48                | 29.93                     | 89.552            |                                               |         |                    |           |
| 11,400.00                         | 11,312.29             | 8,900.00              | 8,604.94              | 42.72            | 33.65         | -0.51                 | 406.13                              | -905.57      | 2,777.75               | 2,747.66                | 30.08                     | 92.332            |                                               |         |                    |           |
| 11,500.00                         | 11,412.29             | 8,900.00              | 8,604.94              | 43.05            | 33.65         | -0.51                 | 406.13                              | -905.57      | 2,875.26               | 2,845.01                | 30.25                     | 95.041            |                                               |         |                    |           |
| 11,600.00                         | 11,512.29             | 8,900.00              | 8,604.94              | 43.38            | 33.65         | -0.51                 | 406.13                              | -905.57      | 2,972.94               | 2,942.50                | 30.44                     | 97.674            |                                               |         |                    |           |
| 11,700.00                         | 11,612.29             | 8,900.00              | 8,604.94              | 43.71            | 33.65         | -0.51                 | 406.13                              | -905.57      | 3,070.77               | 3,040.13                | 30.64                     | 100.235           |                                               |         |                    |           |
| 11,800.00                         | 11,712.29             | 8,900.00              | 8,604.94              | 44.05            | 33.65         | -0.51                 | 406.13                              | -905.57      | 3,168.73               | 3,137.89                | 30.85                     | 102.725           |                                               |         |                    |           |
| 11,906.75                         | 11,819.04             | 8,900.00              | 8,604.94              | 44.40            | 33.65         | -0.51                 | 406.13                              | -905.57      | 3,273.45               | 3,242.36                | 31.08                     | 105.308           |                                               |         |                    |           |
| 11,950.00                         | 11,862.25             | 8,900.00              | 8,604.94              | 44.54            | 33.65         | 0.04                  | 406.13                              | -905.57      | 3,315.56               | 3,284.38                | 31.18                     | 106.345           |                                               |         |                    |           |
| 12,000.00                         | 11,911.88             | 8,900.00              | 8,604.94              | 44.70            | 33.65         | 0.03                  | 406.13                              | -905.57      | 3,363.22               | 3,331.95                | 31.27                     | 107.550           |                                               |         |                    |           |
| 12,050.00                         | 11,960.80             | 8,900.00              | 8,604.94              | 44.85            | 33.65         | 0.03                  | 406.13                              | -905.57      | 3,409.48               | 3,378.13                | 31.35                     | 108.752           |                                               |         |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                        |              |                        |                         |                           |                   | FMM Fed Com - FMM Fed Com 101H - OH - Plan #1 |           | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|-----------------------------------------------|-----------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                        |              |                        |                         |                           |                   | Offset Well Error:                            | 0.00 usft |                    |           |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance               |              |                        |                         |                           |                   |                                               | Warning   |                    |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre |              | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                                               |           |                    |           |
|                                   |                       |                       |                       |                  |               |                       | +N/-S (usft)           | +E/-W (usft) |                        |                         |                           |                   |                                               |           |                    |           |
| 12,100.00                         | 12,008.65             | 8,900.00              | 8,604.94              | 45.00            | 33.65         | 0.02                  | 406.13                 | -905.57      | 3,454.05               | 3,422.63                | 31.42                     | 109.940           |                                               |           |                    |           |
| 12,150.00                         | 12,055.05             | 8,923.95              | 8,609.53              | 45.13            | 33.70         | 0.02                  | 429.63                 | -905.80      | 3,496.08               | 3,464.50                | 31.58                     | 110.715           |                                               |           |                    |           |
| 12,200.00                         | 12,099.66             | 8,928.11              | 8,610.23              | 45.25            | 33.71         | 0.02                  | 433.73                 | -905.84      | 3,536.27               | 3,504.64                | 31.63                     | 111.787           |                                               |           |                    |           |
| 12,250.00                         | 12,142.12             | 8,950.00              | 8,613.41              | 45.35            | 33.76         | 0.01                  | 455.39                 | -906.06      | 3,574.27               | 3,542.52                | 31.75                     | 112.566           |                                               |           |                    |           |
| 12,300.00                         | 12,182.14             | 8,950.00              | 8,613.41              | 45.45            | 33.76         | 0.01                  | 455.39                 | -906.06      | 3,609.12               | 3,577.35                | 31.77                     | 113.609           |                                               |           |                    |           |
| 12,350.00                         | 12,219.38             | 8,950.00              | 8,613.41              | 45.53            | 33.76         | 0.01                  | 455.39                 | -906.06      | 3,641.10               | 3,609.32                | 31.78                     | 114.582           |                                               |           |                    |           |
| 12,400.00                         | 12,253.58             | 8,950.00              | 8,613.41              | 45.60            | 33.76         | 0.01                  | 455.39                 | -906.06      | 3,670.06               | 3,638.28                | 31.78                     | 115.474           |                                               |           |                    |           |
| 12,450.00                         | 12,284.48             | 8,950.00              | 8,613.41              | 45.65            | 33.76         | 0.01                  | 455.39                 | -906.06      | 3,695.85               | 3,664.07                | 31.78                     | 116.301           |                                               |           |                    |           |
| 12,500.00                         | 12,311.83             | 8,950.00              | 8,613.41              | 45.70            | 33.76         | 0.01                  | 455.39                 | -906.06      | 3,718.33               | 3,686.55                | 31.78                     | 117.008           |                                               |           |                    |           |
| 12,550.00                         | 12,335.43             | 8,950.00              | 8,613.41              | 45.74            | 33.76         | 0.01                  | 455.39                 | -906.06      | 3,737.41               | 3,705.64                | 31.77                     | 117.622           |                                               |           |                    |           |
| 12,600.00                         | 12,355.10             | 8,972.55              | 8,615.82              | 45.77            | 33.81         | 0.01                  | 477.80                 | -906.28      | 3,752.47               | 3,720.64                | 31.83                     | 117.884           |                                               |           |                    |           |
| 12,650.00                         | 12,370.69             | 9,000.00              | 8,617.55              | 45.81            | 33.88         | 0.01                  | 505.20                 | -906.55      | 3,764.58               | 3,732.68                | 31.90                     | 118.005           |                                               |           |                    |           |
| 12,700.00                         | 12,382.08             | 9,000.00              | 8,617.55              | 45.84            | 33.88         | 0.01                  | 505.20                 | -906.55      | 3,772.29               | 3,740.39                | 31.90                     | 118.249           |                                               |           |                    |           |
| 12,750.00                         | 12,389.19             | 9,000.00              | 8,617.55              | 45.89            | 33.88         | 0.01                  | 505.20                 | -906.55      | 3,776.32               | 3,744.41                | 31.91                     | 118.350           |                                               |           |                    |           |
| 12,800.00                         | 12,391.96             | 9,000.00              | 8,617.55              | 45.94            | 33.88         | 0.01                  | 505.20                 | -906.55      | 3,776.65               | 3,744.73                | 31.92                     | 118.307           |                                               |           |                    |           |
| 12,806.75                         | 12,392.00             | 9,000.00              | 8,617.55              | 45.95            | 33.88         | 0.01                  | 505.20                 | -906.55      | 3,776.42               | 3,744.49                | 31.93                     | 118.283           |                                               |           |                    |           |
| 12,900.00                         | 12,392.00             | 9,011.81              | 8,617.90              | 46.10            | 33.91         | 0.01                  | 517.00                 | -906.67      | 3,773.67               | 3,741.65                | 32.02                     | 117.866           |                                               |           |                    |           |
| 13,000.00                         | 12,392.00             | 9,040.99              | 8,618.00              | 46.33            | 34.00         | 0.01                  | 546.18                 | -906.96      | 3,772.90               | 3,740.71                | 32.19                     | 117.202           |                                               |           |                    |           |
| 13,100.00                         | 12,392.00             | 9,140.99              | 8,618.00              | 46.63            | 34.34         | 0.01                  | 646.17                 | -907.96      | 3,772.90               | 3,740.42                | 32.48                     | 116.144           |                                               |           |                    |           |
| 13,200.00                         | 12,392.00             | 9,240.99              | 8,618.00              | 47.00            | 34.79         | 0.01                  | 746.17                 | -908.95      | 3,772.90               | 3,740.09                | 32.81                     | 114.986           |                                               |           |                    |           |
| 13,300.00                         | 12,392.00             | 9,340.99              | 8,618.00              | 47.44            | 35.32         | 0.01                  | 846.16                 | -909.95      | 3,772.90               | 3,739.73                | 33.17                     | 113.734           |                                               |           |                    |           |
| 13,400.00                         | 12,392.00             | 9,440.99              | 8,618.00              | 47.95            | 35.93         | 0.01                  | 946.16                 | -910.94      | 3,772.90               | 3,739.33                | 33.57                     | 112.400           |                                               |           |                    |           |
| 13,500.00                         | 12,392.00             | 9,540.99              | 8,618.00              | 48.51            | 36.62         | 0.01                  | 1,046.15               | -911.94      | 3,772.90               | 3,738.91                | 33.99                     | 110.992           |                                               |           |                    |           |
| 13,600.00                         | 12,392.00             | 9,640.99              | 8,618.00              | 49.13            | 37.37         | 0.01                  | 1,146.15               | -912.93      | 3,772.90               | 3,738.45                | 34.45                     | 109.522           |                                               |           |                    |           |
| 13,700.00                         | 12,392.00             | 9,740.99              | 8,618.00              | 49.79            | 38.18         | 0.01                  | 1,246.14               | -913.92      | 3,772.90               | 3,737.97                | 34.93                     | 108.000           |                                               |           |                    |           |
| 13,800.00                         | 12,392.00             | 9,840.99              | 8,618.00              | 50.51            | 39.05         | 0.01                  | 1,346.14               | -914.92      | 3,772.90               | 3,737.45                | 35.45                     | 106.435           |                                               |           |                    |           |
| 13,900.00                         | 12,392.00             | 9,940.99              | 8,618.00              | 51.27            | 39.97         | 0.01                  | 1,446.13               | -915.91      | 3,772.90               | 3,736.91                | 35.99                     | 104.836           |                                               |           |                    |           |
| 14,000.00                         | 12,392.00             | 10,040.99             | 8,618.00              | 52.07            | 40.94         | 0.01                  | 1,546.13               | -916.91      | 3,772.90               | 3,736.35                | 36.55                     | 103.212           |                                               |           |                    |           |
| 14,100.00                         | 12,392.00             | 10,140.99             | 8,618.00              | 52.91            | 41.95         | 0.01                  | 1,646.12               | -917.90      | 3,772.90               | 3,735.75                | 37.15                     | 101.567           |                                               |           |                    |           |
| 14,200.00                         | 12,392.00             | 10,240.99             | 8,618.00              | 53.79            | 43.01         | 0.01                  | 1,746.12               | -918.90      | 3,772.90               | 3,735.14                | 37.76                     | 99.915            |                                               |           |                    |           |
| 14,300.00                         | 12,392.00             | 10,340.99             | 8,618.00              | 54.70            | 44.10         | 0.01                  | 1,846.11               | -919.89      | 3,772.90               | 3,734.50                | 38.40                     | 98.260            |                                               |           |                    |           |
| 14,400.00                         | 12,392.00             | 10,440.99             | 8,618.00              | 55.65            | 45.22         | 0.01                  | 1,946.11               | -920.89      | 3,772.90               | 3,733.85                | 39.05                     | 96.605            |                                               |           |                    |           |
| 14,500.00                         | 12,392.00             | 10,540.99             | 8,618.00              | 56.64            | 46.38         | 0.01                  | 2,046.10               | -921.88      | 3,772.90               | 3,733.17                | 39.73                     | 94.958            |                                               |           |                    |           |
| 14,600.00                         | 12,392.00             | 10,640.99             | 8,618.00              | 57.65            | 47.56         | 0.01                  | 2,146.10               | -922.88      | 3,772.90               | 3,732.47                | 40.43                     | 93.321            |                                               |           |                    |           |
| 14,700.00                         | 12,392.00             | 10,740.99             | 8,618.00              | 58.69            | 48.77         | 0.01                  | 2,246.09               | -923.87      | 3,772.90               | 3,731.76                | 41.14                     | 91.699            |                                               |           |                    |           |
| 14,800.00                         | 12,392.00             | 10,840.99             | 8,618.00              | 59.76            | 50.01         | 0.01                  | 2,346.09               | -924.87      | 3,772.90               | 3,731.02                | 41.88                     | 90.096            |                                               |           |                    |           |
| 14,900.00                         | 12,392.00             | 10,940.99             | 8,618.00              | 60.86            | 51.27         | 0.01                  | 2,446.08               | -925.86      | 3,772.90               | 3,730.28                | 42.62                     | 88.514            |                                               |           |                    |           |
| 15,000.00                         | 12,392.00             | 11,040.99             | 8,618.00              | 61.98            | 52.55         | 0.01                  | 2,546.08               | -926.86      | 3,772.90               | 3,729.51                | 43.39                     | 86.955            |                                               |           |                    |           |
| 15,100.00                         | 12,392.00             | 11,140.99             | 8,618.00              | 63.12            | 53.86         | 0.01                  | 2,646.07               | -927.85      | 3,772.90               | 3,728.73                | 44.17                     | 85.422            |                                               |           |                    |           |
| 15,200.00                         | 12,392.00             | 11,240.99             | 8,618.00              | 64.29            | 55.18         | 0.01                  | 2,746.07               | -928.84      | 3,772.90               | 3,727.94                | 44.96                     | 83.916            |                                               |           |                    |           |
| 15,300.00                         | 12,392.00             | 11,340.99             | 8,618.00              | 65.47            | 56.52         | 0.01                  | 2,846.07               | -929.84      | 3,772.90               | 3,727.13                | 45.77                     | 82.439            |                                               |           |                    |           |
| 15,400.00                         | 12,392.00             | 11,440.99             | 8,618.00              | 66.68            | 57.87         | 0.01                  | 2,946.06               | -930.83      | 3,772.90               | 3,726.32                | 46.58                     | 80.990            |                                               |           |                    |           |
| 15,500.00                         | 12,392.00             | 11,540.99             | 8,618.00              | 67.90            | 59.24         | 0.01                  | 3,046.06               | -931.83      | 3,772.90               | 3,725.49                | 47.41                     | 79.572            |                                               |           |                    |           |
| 15,600.00                         | 12,392.00             | 11,640.99             | 8,618.00              | 69.15            | 60.62         | 0.01                  | 3,146.05               | -932.82      | 3,772.90               | 3,724.64                | 48.26                     | 78.185            |                                               |           |                    |           |
| 15,700.00                         | 12,392.00             | 11,740.99             | 8,618.00              | 70.41            | 62.02         | 0.01                  | 3,246.05               | -933.82      | 3,772.90               | 3,723.79                | 49.11                     | 76.828            |                                               |           |                    |           |
| 15,800.00                         | 12,392.00             | 11,840.99             | 8,618.00              | 71.68            | 63.43         | 0.01                  | 3,346.04               | -934.81      | 3,772.90               | 3,722.93                | 49.97                     | 75.502            |                                               |           |                    |           |
| 15,900.00                         | 12,392.00             | 11,940.99             | 8,618.00              | 72.97            | 64.85         | 0.01                  | 3,446.04               | -935.81      | 3,772.90               | 3,722.06                | 50.84                     | 74.207            |                                               |           |                    |           |
| 16,000.00                         | 12,392.00             | 12,040.99             | 8,618.00              | 74.28            | 66.28         | 0.01                  | 3,546.03               | -936.80      | 3,772.90               | 3,721.18                | 51.72                     | 72.943            |                                               |           |                    |           |
| 16,100.00                         | 12,392.00             | 12,140.99             | 8,618.00              | 75.60            | 67.72         | 0.01                  | 3,646.03               | -937.80      | 3,772.90               | 3,720.29                | 52.61                     | 71.710            |                                               |           |                    |           |
| 16,200.00                         | 12,392.00             | 12,240.99             | 8,618.00              | 76.93            | 69.17         | 0.01                  | 3,746.02               | -938.79      | 3,772.90               | 3,719.39                | 53.51                     | 70.507            |                                               |           |                    |           |
| 16,300.00                         | 12,392.00             | 12,340.99             | 8,618.00              | 78.27            | 70.63         | 0.01                  | 3,846.02               | -939.79      | 3,772.90               | 3,718.48                | 54.42                     | 69.333            |                                               |           |                    |           |
| 16,400.00                         | 12,392.00             | 12,440.99             | 8,618.00              | 79.63            | 72.10         | 0.01                  | 3,946.01               | -940.78      | 3,772.90               | 3,717.57                | 55.33                     | 68.189            |                                               |           |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design         |                       | FMM Fed Com - FMM Fed Com 101H - OH - Plan #1 |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: |         | 0.00 usft |
|-----------------------|-----------------------|-----------------------------------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|---------|-----------|
| Survey Program:       |                       | 0-OWSG (Rev2) MWD                             |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: |         | 0.00 usft |
| Reference             |                       | Offset                                        |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    | Warning |           |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft)                         | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |         |           |
| 16,500.00             | 12,392.00             | 12,540.99                                     | 8,618.00              | 80.99            | 73.58         | 0.01                  | 4,046.01                            | -941.78      | 3,772.90               | 3,716.65                | 56.25                     | 67.073            |                    |         |           |
| 16,600.00             | 12,392.00             | 12,640.99                                     | 8,618.00              | 82.37            | 75.06         | 0.01                  | 4,146.00                            | -942.77      | 3,772.90               | 3,715.72                | 57.18                     | 65.986            |                    |         |           |
| 16,700.00             | 12,392.00             | 12,740.99                                     | 8,618.00              | 83.75            | 76.55         | 0.01                  | 4,246.00                            | -943.76      | 3,772.90               | 3,714.79                | 58.11                     | 64.926            |                    |         |           |
| 16,800.00             | 12,392.00             | 12,840.99                                     | 8,618.00              | 85.15            | 78.05         | 0.01                  | 4,345.99                            | -944.76      | 3,772.90               | 3,713.85                | 59.05                     | 63.893            |                    |         |           |
| 16,900.00             | 12,392.00             | 12,940.99                                     | 8,618.00              | 86.56            | 79.55         | 0.01                  | 4,445.99                            | -945.75      | 3,772.90               | 3,712.90                | 60.00                     | 62.886            |                    |         |           |
| 17,000.00             | 12,392.00             | 13,040.99                                     | 8,618.00              | 87.97            | 81.06         | 0.01                  | 4,545.98                            | -946.75      | 3,772.90               | 3,711.95                | 60.95                     | 61.905            |                    |         |           |
| 17,100.00             | 12,392.00             | 13,140.99                                     | 8,618.00              | 89.39            | 82.57         | 0.01                  | 4,645.98                            | -947.74      | 3,772.90               | 3,711.00                | 61.90                     | 60.948            |                    |         |           |
| 17,200.00             | 12,392.00             | 13,240.99                                     | 8,618.00              | 90.82            | 84.09         | 0.01                  | 4,745.97                            | -948.74      | 3,772.90               | 3,710.04                | 62.86                     | 60.016            |                    |         |           |
| 17,300.00             | 12,392.00             | 13,340.99                                     | 8,618.00              | 92.26            | 85.62         | 0.01                  | 4,845.97                            | -949.73      | 3,772.90               | 3,709.07                | 63.83                     | 59.108            |                    |         |           |
| 17,400.00             | 12,392.00             | 13,440.99                                     | 8,618.00              | 93.70            | 87.14         | 0.01                  | 4,945.96                            | -950.73      | 3,772.90               | 3,708.10                | 64.80                     | 58.223            |                    |         |           |
| 17,500.00             | 12,392.00             | 13,540.99                                     | 8,618.00              | 95.15            | 88.68         | 0.00                  | 5,045.96                            | -951.72      | 3,772.90               | 3,707.12                | 65.78                     | 57.359            |                    |         |           |
| 17,600.00             | 12,392.00             | 13,640.99                                     | 8,618.00              | 96.61            | 90.21         | 0.00                  | 5,145.95                            | -952.72      | 3,772.90               | 3,706.14                | 66.76                     | 56.518            |                    |         |           |
| 17,700.00             | 12,392.00             | 13,740.99                                     | 8,618.00              | 98.07            | 91.76         | 0.00                  | 5,245.95                            | -953.71      | 3,772.90               | 3,705.16                | 67.74                     | 55.697            |                    |         |           |
| 17,800.00             | 12,392.00             | 13,840.99                                     | 8,618.00              | 99.54            | 93.30         | 0.00                  | 5,345.94                            | -954.71      | 3,772.90               | 3,704.17                | 68.73                     | 54.897            |                    |         |           |
| 17,900.00             | 12,392.00             | 13,940.99                                     | 8,618.00              | 101.02           | 94.85         | 0.00                  | 5,445.94                            | -955.70      | 3,772.90               | 3,703.18                | 69.72                     | 54.117            |                    |         |           |
| 18,000.00             | 12,392.00             | 14,040.99                                     | 8,618.00              | 102.50           | 96.40         | 0.00                  | 5,545.93                            | -956.70      | 3,772.90               | 3,702.19                | 70.71                     | 53.356            |                    |         |           |
| 18,100.00             | 12,392.00             | 14,140.99                                     | 8,618.00              | 103.98           | 97.96         | 0.00                  | 5,645.93                            | -957.69      | 3,772.90               | 3,701.19                | 71.71                     | 52.614            |                    |         |           |
| 18,200.00             | 12,392.00             | 14,240.99                                     | 8,618.00              | 105.47           | 99.52         | 0.00                  | 5,745.92                            | -958.68      | 3,772.90               | 3,700.19                | 72.71                     | 51.889            |                    |         |           |
| 18,300.00             | 12,392.00             | 14,340.99                                     | 8,618.00              | 106.97           | 101.08        | 0.00                  | 5,845.92                            | -959.68      | 3,772.90               | 3,699.19                | 73.71                     | 51.182            |                    |         |           |
| 18,400.00             | 12,392.00             | 14,440.99                                     | 8,618.00              | 108.47           | 102.64        | 0.00                  | 5,945.91                            | -960.67      | 3,772.90               | 3,698.18                | 74.72                     | 50.492            |                    |         |           |
| 18,500.00             | 12,392.00             | 14,540.99                                     | 8,618.00              | 109.97           | 104.21        | 0.00                  | 6,045.91                            | -961.67      | 3,772.90               | 3,697.17                | 75.73                     | 49.819            |                    |         |           |
| 18,600.00             | 12,392.00             | 14,640.99                                     | 8,618.00              | 111.48           | 105.78        | 0.00                  | 6,145.90                            | -962.66      | 3,772.90               | 3,696.16                | 76.75                     | 49.161            |                    |         |           |
| 18,700.00             | 12,392.00             | 14,740.99                                     | 8,618.00              | 112.99           | 107.35        | 0.00                  | 6,245.90                            | -963.66      | 3,772.90               | 3,695.14                | 77.76                     | 48.519            |                    |         |           |
| 18,800.00             | 12,392.00             | 14,840.99                                     | 8,618.00              | 114.51           | 108.92        | 0.00                  | 6,345.89                            | -964.65      | 3,772.90               | 3,694.12                | 78.78                     | 47.892            |                    |         |           |
| 18,900.00             | 12,392.00             | 14,940.99                                     | 8,618.00              | 116.03           | 110.50        | 0.00                  | 6,445.89                            | -965.65      | 3,772.90               | 3,693.10                | 79.80                     | 47.280            |                    |         |           |
| 19,000.00             | 12,392.00             | 15,040.99                                     | 8,618.00              | 117.55           | 112.08        | 0.00                  | 6,545.88                            | -966.64      | 3,772.90               | 3,692.08                | 80.82                     | 46.682            |                    |         |           |
| 19,100.00             | 12,392.00             | 15,140.99                                     | 8,618.00              | 119.08           | 113.66        | 0.00                  | 6,645.88                            | -967.64      | 3,772.90               | 3,691.05                | 81.85                     | 46.097            |                    |         |           |
| 19,200.00             | 12,392.00             | 15,240.99                                     | 8,618.00              | 120.61           | 115.24        | 0.00                  | 6,745.87                            | -968.63      | 3,772.90               | 3,690.03                | 82.87                     | 45.526            |                    |         |           |
| 19,300.00             | 12,392.00             | 15,340.99                                     | 8,618.00              | 122.14           | 116.83        | 0.00                  | 6,845.87                            | -969.63      | 3,772.90               | 3,689.00                | 83.90                     | 44.967            |                    |         |           |
| 19,400.00             | 12,392.00             | 15,440.99                                     | 8,618.00              | 123.68           | 118.42        | 0.00                  | 6,945.86                            | -970.62      | 3,772.90               | 3,687.96                | 84.94                     | 44.421            |                    |         |           |
| 19,500.00             | 12,392.00             | 15,540.99                                     | 8,618.00              | 125.22           | 120.00        | 0.00                  | 7,045.86                            | -971.62      | 3,772.90               | 3,686.93                | 85.97                     | 43.887            |                    |         |           |
| 19,600.00             | 12,392.00             | 15,640.99                                     | 8,618.00              | 126.76           | 121.59        | 0.00                  | 7,145.85                            | -972.61      | 3,772.90               | 3,685.90                | 87.00                     | 43.365            |                    |         |           |
| 19,700.00             | 12,392.00             | 15,740.99                                     | 8,618.00              | 128.31           | 123.19        | 0.00                  | 7,245.85                            | -973.60      | 3,772.90               | 3,684.86                | 88.04                     | 42.854            |                    |         |           |
| 19,800.00             | 12,392.00             | 15,840.99                                     | 8,618.00              | 129.85           | 124.78        | 0.00                  | 7,345.84                            | -974.60      | 3,772.90               | 3,683.82                | 89.08                     | 42.354            |                    |         |           |
| 19,900.00             | 12,392.00             | 15,940.99                                     | 8,618.00              | 131.40           | 126.38        | 0.00                  | 7,445.84                            | -975.59      | 3,772.90               | 3,682.78                | 90.12                     | 41.865            |                    |         |           |
| 20,000.00             | 12,392.00             | 16,040.99                                     | 8,618.00              | 132.96           | 127.97        | 0.00                  | 7,545.83                            | -976.59      | 3,772.90               | 3,681.74                | 91.16                     | 41.386            |                    |         |           |
| 20,100.00             | 12,392.00             | 16,140.99                                     | 8,618.00              | 134.51           | 129.57        | 0.00                  | 7,645.83                            | -977.58      | 3,772.90               | 3,680.69                | 92.21                     | 40.918            |                    |         |           |
| 20,200.00             | 12,392.00             | 16,240.99                                     | 8,618.00              | 136.07           | 131.17        | 0.00                  | 7,745.82                            | -978.58      | 3,772.90               | 3,679.65                | 93.25                     | 40.459            |                    |         |           |
| 20,300.00             | 12,392.00             | 16,340.99                                     | 8,618.00              | 137.63           | 132.77        | 0.00                  | 7,845.82                            | -979.57      | 3,772.90               | 3,678.60                | 94.30                     | 40.010            |                    |         |           |
| 20,400.00             | 12,392.00             | 16,440.99                                     | 8,618.00              | 139.19           | 134.37        | 0.00                  | 7,945.81                            | -980.57      | 3,772.90               | 3,677.55                | 95.35                     | 39.570            |                    |         |           |
| 20,500.00             | 12,392.00             | 16,540.99                                     | 8,618.00              | 140.75           | 135.97        | 0.00                  | 8,045.81                            | -981.56      | 3,772.90               | 3,676.50                | 96.40                     | 39.139            |                    |         |           |
| 20,600.00             | 12,392.00             | 16,640.99                                     | 8,618.00              | 142.32           | 137.58        | 0.00                  | 8,145.80                            | -982.56      | 3,772.90               | 3,675.45                | 97.45                     | 38.717            |                    |         |           |
| 20,700.00             | 12,392.00             | 16,740.99                                     | 8,618.00              | 143.89           | 139.18        | 0.00                  | 8,245.80                            | -983.55      | 3,772.90               | 3,674.40                | 98.50                     | 38.304            |                    |         |           |
| 20,800.00             | 12,392.00             | 16,840.99                                     | 8,618.00              | 145.46           | 140.79        | 0.00                  | 8,345.79                            | -984.55      | 3,772.90               | 3,673.35                | 99.55                     | 37.898            |                    |         |           |
| 20,900.00             | 12,392.00             | 16,940.99                                     | 8,618.00              | 147.03           | 142.40        | 0.00                  | 8,445.79                            | -985.54      | 3,772.90               | 3,672.29                | 100.61                    | 37.501            |                    |         |           |
| 21,000.00             | 12,392.00             | 17,040.99                                     | 8,618.00              | 148.60           | 144.00        | 0.00                  | 8,545.78                            | -986.54      | 3,772.90               | 3,671.24                | 101.66                    | 37.112            |                    |         |           |
| 21,100.00             | 12,392.00             | 17,140.99                                     | 8,618.00              | 150.18           | 145.61        | 0.00                  | 8,645.78                            | -987.53      | 3,772.90               | 3,670.18                | 102.72                    | 36.730            |                    |         |           |
| 21,200.00             | 12,392.00             | 17,240.99                                     | 8,618.00              | 151.75           | 147.22        | 0.00                  | 8,745.77                            | -988.53      | 3,772.90               | 3,669.12                | 103.78                    | 36.355            |                    |         |           |
| 21,300.00             | 12,392.00             | 17,340.99                                     | 8,618.00              | 153.33           | 148.84        | 0.00                  | 8,845.77                            | -989.52      | 3,772.90               | 3,668.06                | 104.84                    | 35.988            |                    |         |           |
| 21,400.00             | 12,392.00             | 17,440.99                                     | 8,618.00              | 154.91           | 150.45        | 0.00                  | 8,945.76                            | -990.51      | 3,772.90               | 3,667.00                | 105.90                    | 35.628            |                    |         |           |
| 21,500.00             | 12,392.00             | 17,540.99                                     | 8,618.00              | 156.49           | 152.06        | 0.00                  | 9,045.76                            | -991.51      | 3,772.90               | 3,665.94                | 106.96                    | 35.274            |                    |         |           |
| 21,600.00             | 12,392.00             | 17,640.99                                     | 8,618.00              | 158.07           | 153.67        | 0.00                  | 9,145.75                            | -992.50      | 3,772.90               | 3,664.88                | 108.02                    | 34.927            |                    |         |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

|                                               |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                           |           |
|-----------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|---------------------------|-----------|
| <b>Offset Design</b>                          |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <b>Offset Site Error:</b> | 0.00 usft |
| FMM Fed Com - FMM Fed Com 101H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <b>Offset Well Error:</b> | 0.00 usft |
| Survey Program: 0-OWSG (Rev2) MWD             |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                           |           |
| Reference                                     |                       | Offset                |                       | Semi Major Axis  |               | Distance              |                                     |              |                        |                         |                           |                           |           |
| Measured Depth (usft)                         | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor         | Warning   |
| 21,700.00                                     | 12,392.00             | 17,740.99             | 8,618.00              | 159.66           | 155.29        | 0.00                  | 9,245.75                            | -993.50      | 3,772.90               | 3,663.82                | 109.08                    | 34.587                    |           |
| 21,800.00                                     | 12,392.00             | 17,840.99             | 8,618.00              | 161.24           | 156.90        | 0.00                  | 9,345.74                            | -994.49      | 3,772.90               | 3,662.75                | 110.15                    | 34.253                    |           |
| 21,900.00                                     | 12,392.00             | 17,940.99             | 8,618.00              | 162.83           | 158.52        | 0.00                  | 9,445.74                            | -995.49      | 3,772.90               | 3,661.69                | 111.21                    | 33.925                    |           |
| 22,000.00                                     | 12,392.00             | 18,040.99             | 8,618.00              | 164.42           | 160.14        | 0.00                  | 9,545.73                            | -996.48      | 3,772.90               | 3,660.62                | 112.28                    | 33.603                    |           |
| 22,100.00                                     | 12,392.00             | 18,140.99             | 8,618.00              | 166.01           | 161.76        | 0.00                  | 9,645.73                            | -997.48      | 3,772.90               | 3,659.55                | 113.35                    | 33.287                    |           |
| 22,200.00                                     | 12,392.00             | 18,240.99             | 8,618.00              | 167.60           | 163.37        | 0.00                  | 9,745.72                            | -998.47      | 3,772.90               | 3,658.49                | 114.41                    | 32.976                    |           |
| 22,300.00                                     | 12,392.00             | 18,340.99             | 8,618.00              | 169.19           | 164.99        | 0.00                  | 9,845.72                            | -999.47      | 3,772.90               | 3,657.42                | 115.48                    | 32.671                    |           |
| 22,400.00                                     | 12,392.00             | 18,440.99             | 8,618.00              | 170.78           | 166.61        | 0.00                  | 9,945.71                            | -1,000.46    | 3,772.90               | 3,656.35                | 116.55                    | 32.371                    |           |
| 22,500.00                                     | 12,392.00             | 18,540.99             | 8,618.00              | 172.37           | 168.23        | 0.00                  | 10,045.71                           | -1,001.46    | 3,772.90               | 3,655.28                | 117.62                    | 32.077                    |           |
| 22,564.79                                     | 12,392.00             | 18,605.78             | 8,618.00              | 173.41           | 169.28        | 0.00                  | 10,110.50                           | -1,002.10    | 3,772.90               | 3,654.59                | 118.31                    | 31.889                    |           |
| 22,595.91                                     | 12,392.00             | 18,636.90             | 8,618.00              | 173.90           | 169.79        | 0.00                  | 10,141.61                           | -1,002.41    | 3,772.90               | 3,654.25                | 118.65                    | 31.799                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | FMM Fed Com - FMM Fed Com 102H - OH - Plan #1 |           | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|-----------------------------------------------|-----------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error:                            | 0.00 usft |                    |           |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                                               |           |                    |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning                                       |           |                    |           |
| 1,843.00                          | 1,843.00              | 1,843.80              | 1,843.80              | 6.37             | 6.38          | 26.01                 | 75.29                               | 36.74        | 83.78                  | 74.76                   | 9.02                      | 9.293             |                                               |           |                    |           |
| 1,900.00                          | 1,900.00              | 1,900.80              | 1,900.80              | 6.58             | 6.58          | 26.01                 | 75.29                               | 36.74        | 83.78                  | 74.48                   | 9.30                      | 9.004             |                                               |           |                    |           |
| 1,916.40                          | 1,916.40              | 1,917.20              | 1,917.20              | 6.64             | 6.64          | 26.01                 | 75.29                               | 36.74        | 83.78                  | 74.39                   | 9.39                      | 8.924             | CC                                            |           |                    |           |
| 2,000.00                          | 2,000.00              | 2,000.80              | 2,000.80              | 6.94             | 6.94          | 26.01                 | 75.29                               | 36.74        | 83.78                  | 73.97                   | 9.81                      | 8.539             | ES                                            |           |                    |           |
| 2,100.00                          | 2,099.99              | 2,100.52              | 2,100.51              | 7.28             | 7.28          | 131.30                | 74.83                               | 37.98        | 84.78                  | 74.48                   | 10.30                     | 8.230             |                                               |           |                    |           |
| 2,200.00                          | 2,199.91              | 2,200.00              | 2,199.91              | 7.62             | 7.62          | 135.70                | 73.47                               | 41.65        | 88.13                  | 77.36                   | 10.78                     | 8.177             | SF                                            |           |                    |           |
| 2,300.00                          | 2,299.69              | 2,298.47              | 2,298.17              | 7.97             | 7.96          | 142.18                | 71.24                               | 47.67        | 94.77                  | 83.51                   | 11.25                     | 8.422             |                                               |           |                    |           |
| 2,400.00                          | 2,399.27              | 2,395.98              | 2,395.27              | 8.31             | 8.29          | 149.67                | 68.16                               | 55.97        | 105.79                 | 94.07                   | 11.72                     | 9.025             |                                               |           |                    |           |
| 2,500.00                          | 2,498.57              | 2,492.50              | 2,491.15              | 8.66             | 8.63          | 157.07                | 64.30                               | 66.39        | 122.03                 | 109.84                  | 12.19                     | 10.013            |                                               |           |                    |           |
| 2,600.00                          | 2,597.54              | 2,589.28              | 2,587.21              | 9.02             | 8.97          | 163.24                | 60.20                               | 77.45        | 142.75                 | 130.10                  | 12.66                     | 11.279            |                                               |           |                    |           |
| 2,700.00                          | 2,696.09              | 2,685.39              | 2,682.60              | 9.39             | 9.32          | 168.01                | 56.13                               | 88.43        | 167.21                 | 154.08                  | 13.13                     | 12.739            |                                               |           |                    |           |
| 2,762.60                          | 2,757.54              | 2,745.18              | 2,741.94              | 9.63             | 9.54          | 170.41                | 53.60                               | 95.26        | 184.25                 | 170.82                  | 13.42                     | 13.728            |                                               |           |                    |           |
| 2,800.00                          | 2,794.20              | 2,780.82              | 2,777.32              | 9.77             | 9.67          | 171.69                | 52.09                               | 99.34        | 194.85                 | 181.25                  | 13.60                     | 14.330            |                                               |           |                    |           |
| 2,900.00                          | 2,892.21              | 2,876.10              | 2,871.89              | 10.17            | 10.02         | 174.50                | 48.05                               | 110.22       | 223.55                 | 209.48                  | 14.07                     | 15.892            |                                               |           |                    |           |
| 3,000.00                          | 2,990.23              | 2,971.38              | 2,966.46              | 10.56            | 10.37         | 176.68                | 44.01                               | 121.11       | 252.64                 | 238.10                  | 14.54                     | 17.375            |                                               |           |                    |           |
| 3,100.00                          | 3,088.24              | 3,066.66              | 3,061.03              | 10.97            | 10.72         | 178.41                | 39.98                               | 132.00       | 282.00                 | 266.98                  | 15.02                     | 18.778            |                                               |           |                    |           |
| 3,200.00                          | 3,186.26              | 3,161.94              | 3,155.60              | 11.38            | 11.08         | 179.81                | 35.94                               | 142.89       | 311.55                 | 296.05                  | 15.50                     | 20.104            |                                               |           |                    |           |
| 3,300.00                          | 3,284.27              | 3,257.22              | 3,250.17              | 11.80            | 11.44         | -179.03               | 31.90                               | 153.78       | 341.24                 | 325.26                  | 15.98                     | 21.355            |                                               |           |                    |           |
| 3,400.00                          | 3,382.28              | 3,352.51              | 3,344.74              | 12.22            | 11.80         | -178.05               | 27.86                               | 164.66       | 371.04                 | 354.57                  | 16.46                     | 22.537            |                                               |           |                    |           |
| 3,500.00                          | 3,480.30              | 3,447.79              | 3,439.31              | 12.65            | 12.16         | -177.22               | 23.83                               | 175.55       | 400.92                 | 383.97                  | 16.95                     | 23.653            |                                               |           |                    |           |
| 3,600.00                          | 3,578.31              | 3,543.07              | 3,533.88              | 13.08            | 12.53         | -176.51               | 19.79                               | 186.44       | 430.87                 | 413.43                  | 17.44                     | 24.707            |                                               |           |                    |           |
| 3,700.00                          | 3,676.32              | 3,638.35              | 3,628.45              | 13.51            | 12.89         | -175.88               | 15.75                               | 197.33       | 460.87                 | 442.94                  | 17.93                     | 25.705            |                                               |           |                    |           |
| 3,800.00                          | 3,774.34              | 3,733.63              | 3,723.03              | 13.95            | 13.26         | -175.34               | 11.72                               | 208.22       | 490.92                 | 472.49                  | 18.42                     | 26.649            |                                               |           |                    |           |
| 3,900.00                          | 3,872.35              | 3,828.91              | 3,817.60              | 14.39            | 13.63         | -174.85               | 7.68                                | 219.10       | 521.00                 | 502.08                  | 18.91                     | 27.544            |                                               |           |                    |           |
| 4,000.00                          | 3,970.37              | 3,924.19              | 3,912.17              | 14.83            | 14.00         | -174.42               | 3.64                                | 229.99       | 551.11                 | 531.70                  | 19.41                     | 28.393            |                                               |           |                    |           |
| 4,100.00                          | 4,068.38              | 4,019.47              | 4,006.74              | 15.28            | 14.37         | -174.04               | -0.39                               | 240.88       | 581.25                 | 561.34                  | 19.91                     | 29.199            |                                               |           |                    |           |
| 4,200.00                          | 4,166.39              | 4,114.75              | 4,101.31              | 15.72            | 14.74         | -173.69               | -4.43                               | 251.77       | 611.41                 | 591.00                  | 20.40                     | 29.965            |                                               |           |                    |           |
| 4,300.00                          | 4,264.41              | 4,210.04              | 4,195.88              | 16.17            | 15.12         | -173.37               | -8.47                               | 262.66       | 641.58                 | 620.68                  | 20.90                     | 30.694            |                                               |           |                    |           |
| 4,400.00                          | 4,362.42              | 4,305.32              | 4,290.45              | 16.63            | 15.49         | -173.09               | -12.50                              | 273.54       | 671.78                 | 650.37                  | 21.40                     | 31.389            |                                               |           |                    |           |
| 4,500.00                          | 4,460.43              | 4,400.60              | 4,385.02              | 17.08            | 15.86         | -172.82               | -16.54                              | 284.43       | 701.98                 | 680.08                  | 21.90                     | 32.050            |                                               |           |                    |           |
| 4,600.00                          | 4,558.45              | 4,495.88              | 4,479.59              | 17.54            | 16.24         | -172.58               | -20.58                              | 295.32       | 732.20                 | 709.80                  | 22.40                     | 32.681            |                                               |           |                    |           |
| 4,700.00                          | 4,656.46              | 4,591.16              | 4,574.16              | 17.99            | 16.62         | -172.36               | -24.62                              | 306.21       | 762.44                 | 739.53                  | 22.91                     | 33.284            |                                               |           |                    |           |
| 4,800.00                          | 4,754.47              | 4,686.44              | 4,668.73              | 18.45            | 16.99         | -172.16               | -28.65                              | 317.10       | 792.68                 | 769.27                  | 23.41                     | 33.860            |                                               |           |                    |           |
| 4,900.00                          | 4,852.49              | 4,781.72              | 4,763.30              | 18.91            | 17.37         | -171.97               | -32.69                              | 327.98       | 822.93                 | 799.01                  | 23.91                     | 34.412            |                                               |           |                    |           |
| 5,000.00                          | 4,950.50              | 4,877.00              | 4,857.88              | 19.37            | 17.75         | -171.79               | -36.73                              | 338.87       | 853.18                 | 828.76                  | 24.42                     | 34.939            |                                               |           |                    |           |
| 5,100.00                          | 5,048.52              | 4,972.28              | 4,952.45              | 19.83            | 18.12         | -171.62               | -40.76                              | 349.76       | 883.45                 | 858.52                  | 24.92                     | 35.445            |                                               |           |                    |           |
| 5,200.00                          | 5,146.53              | 5,067.57              | 5,047.02              | 20.29            | 18.50         | -171.47               | -44.80                              | 360.65       | 913.71                 | 888.28                  | 25.43                     | 35.930            |                                               |           |                    |           |
| 5,300.00                          | 5,244.54              | 5,162.85              | 5,141.59              | 20.76            | 18.88         | -171.33               | -48.84                              | 371.53       | 943.99                 | 918.05                  | 25.94                     | 36.395            |                                               |           |                    |           |
| 5,400.00                          | 5,342.56              | 5,258.13              | 5,236.16              | 21.22            | 19.26         | -171.19               | -52.87                              | 382.42       | 974.27                 | 947.83                  | 26.44                     | 36.842            |                                               |           |                    |           |
| 5,500.00                          | 5,440.57              | 5,353.41              | 5,330.73              | 21.69            | 19.64         | -171.07               | -56.91                              | 393.31       | 1,004.56               | 977.60                  | 26.95                     | 37.271            |                                               |           |                    |           |
| 5,600.00                          | 5,538.58              | 5,448.69              | 5,425.30              | 22.15            | 20.02         | -170.95               | -60.95                              | 404.20       | 1,034.84               | 1,007.38                | 27.46                     | 37.684            |                                               |           |                    |           |
| 5,700.00                          | 5,636.60              | 5,543.97              | 5,519.87              | 22.62            | 20.40         | -170.83               | -64.98                              | 415.09       | 1,065.14               | 1,037.17                | 27.97                     | 38.082            |                                               |           |                    |           |
| 5,800.00                          | 5,734.61              | 5,639.25              | 5,614.44              | 23.09            | 20.78         | -170.73               | -69.02                              | 425.97       | 1,095.43               | 1,066.95                | 28.48                     | 38.464            |                                               |           |                    |           |
| 5,900.00                          | 5,832.62              | 5,734.53              | 5,709.01              | 23.56            | 21.16         | -170.63               | -73.06                              | 436.86       | 1,125.73               | 1,096.74                | 28.99                     | 38.833            |                                               |           |                    |           |
| 6,000.00                          | 5,930.64              | 5,829.81              | 5,803.58              | 24.02            | 21.55         | -170.53               | -77.09                              | 447.75       | 1,156.04               | 1,126.54                | 29.50                     | 39.188            |                                               |           |                    |           |
| 6,100.00                          | 6,028.65              | 5,925.10              | 5,898.15              | 24.49            | 21.93         | -170.44               | -81.13                              | 458.64       | 1,186.34               | 1,156.33                | 30.01                     | 39.531            |                                               |           |                    |           |
| 6,200.00                          | 6,126.67              | 6,020.38              | 5,992.73              | 24.96            | 22.31         | -170.36               | -85.17                              | 469.53       | 1,216.65               | 1,186.13                | 30.52                     | 39.862            |                                               |           |                    |           |
| 6,300.00                          | 6,224.68              | 6,115.66              | 6,087.30              | 25.43            | 22.69         | -170.27               | -89.21                              | 480.41       | 1,246.96               | 1,215.93                | 31.03                     | 40.182            |                                               |           |                    |           |
| 6,400.00                          | 6,322.69              | 6,210.94              | 6,181.87              | 25.91            | 23.07         | -170.20               | -93.24                              | 491.30       | 1,277.27               | 1,245.73                | 31.54                     | 40.490            |                                               |           |                    |           |
| 6,500.00                          | 6,420.71              | 6,306.22              | 6,276.44              | 26.38            | 23.46         | -170.12               | -97.28                              | 502.19       | 1,307.59               | 1,275.53                | 32.06                     | 40.789            |                                               |           |                    |           |
| 6,600.00                          | 6,518.72              | 6,401.50              | 6,371.01              | 26.85            | 23.84         | -170.05               | -101.32                             | 513.08       | 1,337.90               | 1,305.33                | 32.57                     | 41.078            |                                               |           |                    |           |
| 6,669.11                          | 6,586.46              | 6,467.35              | 6,436.37              | 27.18            | 24.10         | -170.00               | -104.11                             | 520.60       | 1,358.86               | 1,325.93                | 32.92                     | 41.272            |                                               |           |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design FMM Fed Com - FMM Fed Com 102H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD                           |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                                                   |                       | Offset                |                       | Semi Major Axis  |               | Distance              |                                     |              |                        |                         |                           |                   |                    | Warning   |
| Measured Depth (usft)                                       | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 6,700.00                                                    | 6,616.76              | 6,496.82              | 6,465.62              | 27.32            | 24.22         | -170.01               | -105.35                             | 523.97       | 1,368.10               | 1,335.02                | 33.08                     | 41.354            |                    |           |
| 6,800.00                                                    | 6,715.17              | 6,592.70              | 6,560.78              | 27.78            | 24.61         | -170.00               | -109.42                             | 534.93       | 1,396.43               | 1,362.83                | 33.60                     | 41.566            |                    |           |
| 6,900.00                                                    | 6,814.01              | 6,689.27              | 6,656.64              | 28.21            | 25.00         | -169.98               | -113.51                             | 545.96       | 1,422.28               | 1,388.17                | 34.11                     | 41.699            |                    |           |
| 7,000.00                                                    | 6,913.21              | 6,786.47              | 6,753.11              | 28.62            | 25.39         | -169.93               | -117.63                             | 557.07       | 1,445.63               | 1,411.01                | 34.62                     | 41.756            |                    |           |
| 7,100.00                                                    | 7,012.71              | 6,884.22              | 6,850.13              | 29.01            | 25.78         | -169.86               | -121.77                             | 568.24       | 1,466.47               | 1,431.34                | 35.13                     | 41.742            |                    |           |
| 7,200.00                                                    | 7,112.43              | 7,023.12              | 6,988.18              | 29.37            | 26.33         | -169.73               | -127.06                             | 582.52       | 1,483.79               | 1,447.94                | 35.85                     | 41.389            |                    |           |
| 7,300.00                                                    | 7,212.32              | 7,177.60              | 7,142.26              | 29.72            | 26.91         | -169.64               | -130.93                             | 592.94       | 1,495.04               | 1,458.44                | 36.60                     | 40.851            |                    |           |
| 7,400.00                                                    | 7,312.29              | 7,333.41              | 7,297.98              | 30.04            | 27.46         | -169.60               | -132.63                             | 597.52       | 1,500.02               | 1,462.72                | 37.29                     | 40.222            |                    |           |
| 7,431.71                                                    | 7,344.00              | 7,382.93              | 7,347.50              | 30.14            | 27.62         | 86.66                 | -132.70                             | 597.73       | 1,500.28               | 1,462.78                | 37.50                     | 40.007            |                    |           |
| 7,435.90                                                    | 7,348.20              | 7,389.48              | 7,354.05              | 30.15            | 27.64         | 86.66                 | -132.70                             | 597.72       | 1,500.27               | 1,462.74                | 37.53                     | 39.978            |                    |           |
| 7,500.00                                                    | 7,412.29              | 7,448.52              | 7,413.09              | 30.34            | 27.83         | 86.66                 | -132.71                             | 597.74       | 1,500.28               | 1,462.47                | 37.81                     | 39.676            |                    |           |
| 7,600.00                                                    | 7,512.29              | 7,548.52              | 7,513.09              | 30.64            | 28.16         | 86.66                 | -132.71                             | 597.74       | 1,500.28               | 1,462.00                | 38.29                     | 39.187            |                    |           |
| 7,700.00                                                    | 7,612.29              | 7,648.52              | 7,613.09              | 30.94            | 28.48         | 86.66                 | -132.71                             | 597.74       | 1,500.28               | 1,461.52                | 38.76                     | 38.709            |                    |           |
| 7,800.00                                                    | 7,712.29              | 7,748.52              | 7,713.09              | 31.24            | 28.81         | 86.66                 | -132.71                             | 597.74       | 1,500.28               | 1,461.05                | 39.23                     | 38.241            |                    |           |
| 7,900.00                                                    | 7,812.29              | 7,848.52              | 7,813.09              | 31.55            | 29.14         | 86.66                 | -132.71                             | 597.74       | 1,500.28               | 1,460.58                | 39.71                     | 37.784            |                    |           |
| 7,912.10                                                    | 7,824.39              | 7,860.63              | 7,825.19              | 31.59            | 29.18         | 86.66                 | -132.71                             | 597.74       | 1,500.28               | 1,460.52                | 39.76                     | 37.730            |                    |           |
| 8,000.00                                                    | 7,912.29              | 7,947.17              | 7,911.74              | 31.85            | 29.46         | 86.66                 | -132.61                             | 597.74       | 1,500.29               | 1,460.11                | 40.18                     | 37.341            |                    |           |
| 8,100.00                                                    | 8,012.29              | 8,034.99              | 7,999.07              | 32.16            | 29.73         | 86.34                 | -124.26                             | 597.66       | 1,500.78               | 1,460.18                | 40.60                     | 36.962            |                    |           |
| 8,200.00                                                    | 8,112.29              | 8,118.40              | 8,079.93              | 32.47            | 29.97         | 85.57                 | -104.07                             | 597.45       | 1,502.30               | 1,461.31                | 40.99                     | 36.647            |                    |           |
| 8,300.00                                                    | 8,212.29              | 8,194.57              | 8,150.50              | 32.78            | 30.16         | 84.49                 | -75.55                              | 597.17       | 1,505.42               | 1,464.08                | 41.34                     | 36.418            |                    |           |
| 8,400.00                                                    | 8,312.29              | 8,262.10              | 8,209.42              | 33.08            | 30.30         | 83.24                 | -42.64                              | 596.84       | 1,510.87               | 1,469.25                | 41.62                     | 36.300            |                    |           |
| 8,500.00                                                    | 8,412.29              | 8,320.83              | 8,257.21              | 33.40            | 30.41         | 81.96                 | -8.56                               | 596.50       | 1,519.38               | 1,477.55                | 41.83                     | 36.321            |                    |           |
| 8,600.00                                                    | 8,512.29              | 8,371.36              | 8,295.36              | 33.71            | 30.48         | 80.72                 | 24.56                               | 596.16       | 1,531.57               | 1,489.62                | 41.96                     | 36.502            |                    |           |
| 8,700.00                                                    | 8,612.29              | 8,414.66              | 8,325.62              | 34.02            | 30.54         | 79.56                 | 55.51                               | 595.85       | 1,547.94               | 1,505.95                | 41.99                     | 36.862            |                    |           |
| 8,800.00                                                    | 8,712.29              | 8,450.00              | 8,348.52              | 34.33            | 30.58         | 78.57                 | 82.41                               | 595.58       | 1,568.80               | 1,526.87                | 41.93                     | 37.419            |                    |           |
| 8,900.00                                                    | 8,812.29              | 8,483.70              | 8,368.78              | 34.65            | 30.61         | 77.58                 | 109.34                              | 595.31       | 1,594.31               | 1,552.53                | 41.78                     | 38.157            |                    |           |
| 9,000.00                                                    | 8,912.29              | 8,500.00              | 8,378.01              | 34.96            | 30.62         | 77.09                 | 122.77                              | 595.18       | 1,624.61               | 1,583.13                | 41.48                     | 39.166            |                    |           |
| 9,100.00                                                    | 9,012.29              | 8,535.25              | 8,396.62              | 35.28            | 30.65         | 76.00                 | 152.70                              | 594.88       | 1,659.40               | 1,618.17                | 41.23                     | 40.248            |                    |           |
| 9,200.00                                                    | 9,112.29              | 8,550.00              | 8,403.86              | 35.59            | 30.66         | 75.54                 | 165.55                              | 594.75       | 1,698.80               | 1,657.99                | 40.82                     | 41.622            |                    |           |
| 9,300.00                                                    | 9,212.29              | 8,574.61              | 8,415.19              | 35.91            | 30.67         | 74.75                 | 187.39                              | 594.53       | 1,742.48               | 1,702.05                | 40.43                     | 43.104            |                    |           |
| 9,400.00                                                    | 9,312.29              | 8,600.00              | 8,425.89              | 36.23            | 30.69         | 73.93                 | 210.42                              | 594.30       | 1,790.34               | 1,750.32                | 40.02                     | 44.734            |                    |           |
| 9,500.00                                                    | 9,412.29              | 8,600.00              | 8,425.89              | 36.55            | 30.69         | 73.93                 | 210.42                              | 594.30       | 1,841.94               | 1,802.49                | 39.45                     | 46.689            |                    |           |
| 9,600.00                                                    | 9,512.29              | 8,618.34              | 8,432.97              | 36.87            | 30.70         | 73.33                 | 227.33                              | 594.13       | 1,897.15               | 1,858.15                | 39.00                     | 48.646            |                    |           |
| 9,700.00                                                    | 9,612.29              | 8,629.97              | 8,437.19              | 37.19            | 30.71         | 72.95                 | 238.17                              | 594.02       | 1,955.70               | 1,917.19                | 38.51                     | 50.784            |                    |           |
| 9,800.00                                                    | 9,712.29              | 8,650.00              | 8,443.92              | 37.51            | 30.73         | 72.29                 | 257.03                              | 593.83       | 2,017.40               | 1,979.32                | 38.08                     | 52.977            |                    |           |
| 9,900.00                                                    | 9,812.29              | 8,650.00              | 8,443.92              | 37.83            | 30.73         | 72.29                 | 257.03                              | 593.83       | 2,081.76               | 2,044.20                | 37.56                     | 55.427            |                    |           |
| 10,000.00                                                   | 9,912.29              | 8,650.00              | 8,443.92              | 38.15            | 30.73         | 72.29                 | 257.03                              | 593.83       | 2,148.85               | 2,111.78                | 37.07                     | 57.975            |                    |           |
| 10,100.00                                                   | 10,012.29             | 8,650.00              | 8,443.92              | 38.47            | 30.73         | 72.29                 | 257.03                              | 593.83       | 2,218.42               | 2,181.82                | 36.60                     | 60.607            |                    |           |
| 10,200.00                                                   | 10,112.29             | 8,673.86              | 8,451.08              | 38.80            | 30.75         | 71.50                 | 279.79                              | 593.60       | 2,289.75               | 2,253.43                | 36.31                     | 63.058            |                    |           |
| 10,300.00                                                   | 10,212.29             | 8,680.55              | 8,452.91              | 39.12            | 30.75         | 71.28                 | 286.22                              | 593.54       | 2,363.29               | 2,327.34                | 35.95                     | 65.731            |                    |           |
| 10,400.00                                                   | 10,312.29             | 8,700.00              | 8,457.82              | 39.45            | 30.78         | 70.63                 | 305.04                              | 593.35       | 2,438.81               | 2,403.11                | 35.70                     | 68.321            |                    |           |
| 10,500.00                                                   | 10,412.29             | 8,700.00              | 8,457.82              | 39.77            | 30.78         | 70.63                 | 305.04                              | 593.35       | 2,515.72               | 2,480.35                | 35.37                     | 71.124            |                    |           |
| 10,600.00                                                   | 10,512.29             | 8,700.00              | 8,457.82              | 40.10            | 30.78         | 70.63                 | 305.04                              | 593.35       | 2,594.20               | 2,559.12                | 35.08                     | 73.950            |                    |           |
| 10,700.00                                                   | 10,612.29             | 8,700.00              | 8,457.82              | 40.42            | 30.78         | 70.63                 | 305.04                              | 593.35       | 2,674.13               | 2,639.30                | 34.82                     | 76.790            |                    |           |
| 10,800.00                                                   | 10,712.29             | 8,700.00              | 8,457.82              | 40.75            | 30.78         | 70.63                 | 305.04                              | 593.35       | 2,755.36               | 2,720.76                | 34.60                     | 79.632            |                    |           |
| 10,900.00                                                   | 10,812.29             | 8,700.00              | 8,457.82              | 41.08            | 30.78         | 70.63                 | 305.04                              | 593.35       | 2,837.79               | 2,803.38                | 34.41                     | 82.467            |                    |           |
| 11,000.00                                                   | 10,912.29             | 8,700.00              | 8,457.82              | 41.41            | 30.78         | 70.63                 | 305.04                              | 593.35       | 2,921.32               | 2,887.07                | 34.25                     | 85.287            |                    |           |
| 11,100.00                                                   | 11,012.29             | 8,700.00              | 8,457.82              | 41.73            | 30.78         | 70.63                 | 305.04                              | 593.35       | 3,005.86               | 2,971.73                | 34.12                     | 88.085            |                    |           |
| 11,200.00                                                   | 11,112.29             | 8,722.89              | 8,462.78              | 42.06            | 30.81         | 69.87                 | 327.39                              | 593.13       | 3,090.83               | 3,056.71                | 34.12                     | 90.582            |                    |           |
| 11,300.00                                                   | 11,212.29             | 8,726.24              | 8,463.43              | 42.39            | 30.82         | 69.76                 | 330.67                              | 593.09       | 3,176.98               | 3,142.92                | 34.06                     | 93.276            |                    |           |
| 11,400.00                                                   | 11,312.29             | 8,750.00              | 8,467.48              | 42.72            | 30.86         | 68.97                 | 354.08                              | 592.86       | 3,264.30               | 3,230.20                | 34.10                     | 95.723            |                    |           |
| 11,500.00                                                   | 11,412.29             | 8,750.00              | 8,467.48              | 43.05            | 30.86         | 68.97                 | 354.08                              | 592.86       | 3,351.83               | 3,317.76                | 34.07                     | 98.378            |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | FMM Fed Com - FMM Fed Com 102H - OH - Plan #1 |           | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|-----------------------------------------------|-----------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error:                            | 0.00 usft |                    |           |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                                               |           |                    |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning                                       |           |                    |           |
| 11,600.00                         | 11,512.29             | 8,750.00              | 8,467.48              | 43.38            | 30.86         | 68.97                 | 354.08                              | 592.86       | 3,440.05               | 3,405.98                | 34.06                     | 100.989           |                                               |           |                    |           |
| 11,700.00                         | 11,612.29             | 8,750.00              | 8,467.48              | 43.71            | 30.86         | 68.97                 | 354.08                              | 592.86       | 3,528.89               | 3,494.81                | 34.08                     | 103.552           |                                               |           |                    |           |
| 11,800.00                         | 11,712.29             | 8,750.00              | 8,467.48              | 44.05            | 30.86         | 68.97                 | 354.08                              | 592.86       | 3,618.31               | 3,584.19                | 34.11                     | 106.065           |                                               |           |                    |           |
| 11,906.75                         | 11,819.04             | 8,750.00              | 8,467.48              | 44.40            | 30.86         | 68.97                 | 354.08                              | 592.86       | 3,714.36               | 3,680.19                | 34.17                     | 108.689           |                                               |           |                    |           |
| 11,950.00                         | 11,862.25             | 8,750.00              | 8,467.48              | 44.54            | 30.86         | 61.54                 | 354.08                              | 592.86       | 3,753.16               | 3,718.96                | 34.20                     | 109.738           |                                               |           |                    |           |
| 12,000.00                         | 11,911.88             | 8,750.00              | 8,467.48              | 44.70            | 30.86         | 53.65                 | 354.08                              | 592.86       | 3,797.26               | 3,763.03                | 34.23                     | 110.939           |                                               |           |                    |           |
| 12,050.00                         | 11,960.80             | 8,750.00              | 8,467.48              | 44.85            | 30.86         | 47.17                 | 354.08                              | 592.86       | 3,840.24               | 3,805.99                | 34.25                     | 112.119           |                                               |           |                    |           |
| 12,100.00                         | 12,008.65             | 8,750.00              | 8,467.48              | 45.00            | 30.86         | 41.91                 | 354.08                              | 592.86       | 3,881.83               | 3,847.56                | 34.27                     | 113.271           |                                               |           |                    |           |
| 12,150.00                         | 12,055.05             | 8,750.00              | 8,467.48              | 45.13            | 30.86         | 37.66                 | 354.08                              | 592.86       | 3,921.77               | 3,887.48                | 34.28                     | 114.389           |                                               |           |                    |           |
| 12,200.00                         | 12,099.66             | 8,750.00              | 8,467.48              | 45.25            | 30.86         | 34.22                 | 354.08                              | 592.86       | 3,959.79               | 3,925.49                | 34.29                     | 115.464           |                                               |           |                    |           |
| 12,250.00                         | 12,142.12             | 8,750.00              | 8,467.48              | 45.35            | 30.86         | 31.43                 | 354.08                              | 592.86       | 3,995.67               | 3,961.37                | 34.30                     | 116.491           |                                               |           |                    |           |
| 12,300.00                         | 12,182.14             | 8,750.00              | 8,467.48              | 45.45            | 30.86         | 29.15                 | 354.08                              | 592.86       | 4,029.20               | 3,994.90                | 34.30                     | 117.461           |                                               |           |                    |           |
| 12,350.00                         | 12,219.38             | 8,772.78              | 8,470.46              | 45.53            | 30.92         | 27.17                 | 376.66                              | 592.63       | 4,059.70               | 4,025.34                | 34.36                     | 118.142           |                                               |           |                    |           |
| 12,400.00                         | 12,253.58             | 8,778.02              | 8,471.02              | 45.60            | 30.93         | 25.64                 | 381.87                              | 592.58       | 4,087.72               | 4,053.34                | 34.37                     | 118.927           |                                               |           |                    |           |
| 12,450.00                         | 12,284.48             | 8,800.00              | 8,472.84              | 45.65            | 30.99         | 24.34                 | 403.78                              | 592.36       | 4,113.04               | 4,078.62                | 34.42                     | 119.496           |                                               |           |                    |           |
| 12,500.00                         | 12,311.83             | 8,800.00              | 8,472.84              | 45.70            | 30.99         | 23.36                 | 403.78                              | 592.36       | 4,134.87               | 4,100.46                | 34.41                     | 120.157           |                                               |           |                    |           |
| 12,550.00                         | 12,335.43             | 8,800.00              | 8,472.84              | 45.74            | 30.99         | 22.57                 | 403.78                              | 592.36       | 4,153.55               | 4,119.14                | 34.41                     | 120.719           |                                               |           |                    |           |
| 12,600.00                         | 12,355.10             | 8,800.00              | 8,472.84              | 45.77            | 30.99         | 21.96                 | 403.78                              | 592.36       | 4,168.97               | 4,134.57                | 34.41                     | 121.172           |                                               |           |                    |           |
| 12,650.00                         | 12,370.69             | 8,800.00              | 8,472.84              | 45.81            | 30.99         | 21.49                 | 403.78                              | 592.36       | 4,181.06               | 4,146.65                | 34.41                     | 121.507           |                                               |           |                    |           |
| 12,700.00                         | 12,382.08             | 8,800.00              | 8,472.84              | 45.84            | 30.99         | 21.17                 | 403.78                              | 592.36       | 4,189.75               | 4,155.33                | 34.42                     | 121.718           |                                               |           |                    |           |
| 12,750.00                         | 12,389.19             | 8,820.02              | 8,473.76              | 45.89            | 31.05         | 20.98                 | 423.78                              | 592.16       | 4,194.63               | 4,160.15                | 34.48                     | 121.659           |                                               |           |                    |           |
| 12,800.00                         | 12,391.96             | 8,836.47              | 8,474.00              | 45.94            | 31.11         | 20.92                 | 440.22                              | 591.99       | 4,196.22               | 4,161.69                | 34.53                     | 121.508           |                                               |           |                    |           |
| 12,806.75                         | 12,392.00             | 8,836.47              | 8,474.00              | 45.95            | 31.11         | 20.93                 | 440.22                              | 591.99       | 4,196.14               | 4,161.60                | 34.54                     | 121.490           |                                               |           |                    |           |
| 12,900.00                         | 12,392.00             | 8,857.46              | 8,474.00              | 46.10            | 31.18         | 20.93                 | 461.21                              | 591.78       | 4,195.51               | 4,160.86                | 34.66                     | 121.061           |                                               |           |                    |           |
| 13,000.00                         | 12,392.00             | 8,957.46              | 8,474.00              | 46.33            | 31.60         | 20.93                 | 561.20                              | 590.78       | 4,195.51               | 4,160.56                | 34.95                     | 120.059           |                                               |           |                    |           |
| 13,100.00                         | 12,392.00             | 9,057.46              | 8,474.00              | 46.63            | 32.11         | 20.93                 | 661.20                              | 589.78       | 4,195.50               | 4,160.22                | 35.28                     | 118.917           |                                               |           |                    |           |
| 13,200.00                         | 12,392.00             | 9,157.46              | 8,474.00              | 47.00            | 32.69         | 20.92                 | 761.19                              | 588.77       | 4,195.50               | 4,159.83                | 35.66                     | 117.645           |                                               |           |                    |           |
| 13,300.00                         | 12,392.00             | 9,257.46              | 8,474.00              | 47.44            | 33.35         | 20.92                 | 861.19                              | 587.77       | 4,195.49               | 4,159.40                | 36.09                     | 116.255           |                                               |           |                    |           |
| 13,400.00                         | 12,392.00             | 9,357.46              | 8,474.00              | 47.95            | 34.07         | 20.92                 | 961.18                              | 586.77       | 4,195.49               | 4,158.93                | 36.56                     | 114.761           |                                               |           |                    |           |
| 13,500.00                         | 12,392.00             | 9,457.46              | 8,474.00              | 48.51            | 34.85         | 20.92                 | 1,061.18                            | 585.76       | 4,195.48               | 4,158.41                | 37.07                     | 113.178           |                                               |           |                    |           |
| 13,600.00                         | 12,392.00             | 9,557.46              | 8,474.00              | 49.13            | 35.69         | 20.92                 | 1,161.17                            | 584.76       | 4,195.48               | 4,157.85                | 37.62                     | 111.520           |                                               |           |                    |           |
| 13,700.00                         | 12,392.00             | 9,657.46              | 8,474.00              | 49.79            | 36.58         | 20.92                 | 1,261.17                            | 583.76       | 4,195.47               | 4,157.26                | 38.21                     | 109.800           |                                               |           |                    |           |
| 13,800.00                         | 12,392.00             | 9,757.46              | 8,474.00              | 50.51            | 37.53         | 20.92                 | 1,361.16                            | 582.75       | 4,195.46               | 4,156.63                | 38.84                     | 108.031           |                                               |           |                    |           |
| 13,900.00                         | 12,392.00             | 9,857.46              | 8,474.00              | 51.27            | 38.52         | 20.92                 | 1,461.16                            | 581.75       | 4,195.46               | 4,155.96                | 39.50                     | 106.224           |                                               |           |                    |           |
| 14,000.00                         | 12,392.00             | 9,957.46              | 8,474.00              | 52.07            | 39.55         | 20.92                 | 1,561.15                            | 580.75       | 4,195.45               | 4,155.26                | 40.19                     | 104.391           |                                               |           |                    |           |
| 14,100.00                         | 12,392.00             | 10,057.46             | 8,474.00              | 52.91            | 40.63         | 20.92                 | 1,661.15                            | 579.75       | 4,195.45               | 4,154.53                | 40.91                     | 102.542           |                                               |           |                    |           |
| 14,200.00                         | 12,392.00             | 10,157.46             | 8,474.00              | 53.79            | 41.74         | 20.92                 | 1,761.14                            | 578.74       | 4,195.44               | 4,153.77                | 41.67                     | 100.685           |                                               |           |                    |           |
| 14,300.00                         | 12,392.00             | 10,257.46             | 8,474.00              | 54.70            | 42.88         | 20.92                 | 1,861.14                            | 577.74       | 4,195.44               | 4,152.99                | 42.45                     | 98.829            |                                               |           |                    |           |
| 14,400.00                         | 12,392.00             | 10,357.46             | 8,474.00              | 55.65            | 44.06         | 20.92                 | 1,961.13                            | 576.74       | 4,195.43               | 4,152.17                | 43.26                     | 96.981            |                                               |           |                    |           |
| 14,500.00                         | 12,392.00             | 10,457.46             | 8,474.00              | 56.64            | 45.27         | 20.92                 | 2,061.13                            | 575.73       | 4,195.43               | 4,151.33                | 44.09                     | 95.146            |                                               |           |                    |           |
| 14,600.00                         | 12,392.00             | 10,557.46             | 8,474.00              | 57.65            | 46.50         | 20.92                 | 2,161.12                            | 574.73       | 4,195.42               | 4,150.47                | 44.95                     | 93.330            |                                               |           |                    |           |
| 14,700.00                         | 12,392.00             | 10,657.46             | 8,474.00              | 58.69            | 47.76         | 20.92                 | 2,261.12                            | 573.73       | 4,195.42               | 4,149.58                | 45.83                     | 91.538            |                                               |           |                    |           |
| 14,800.00                         | 12,392.00             | 10,757.46             | 8,474.00              | 59.76            | 49.04         | 20.92                 | 2,361.11                            | 572.72       | 4,195.41               | 4,148.68                | 46.73                     | 89.772            |                                               |           |                    |           |
| 14,900.00                         | 12,392.00             | 10,857.46             | 8,474.00              | 60.86            | 50.34         | 20.92                 | 2,461.11                            | 571.72       | 4,195.41               | 4,147.75                | 47.65                     | 88.041            |                                               |           |                    |           |
| 15,000.00                         | 12,392.00             | 10,957.46             | 8,474.00              | 61.98            | 51.67         | 20.92                 | 2,561.10                            | 570.72       | 4,195.40               | 4,146.81                | 48.59                     | 86.343            |                                               |           |                    |           |
| 15,100.00                         | 12,392.00             | 11,057.46             | 8,474.00              | 63.12            | 53.01         | 20.92                 | 2,661.10                            | 569.71       | 4,195.40               | 4,145.85                | 49.54                     | 84.679            |                                               |           |                    |           |
| 15,200.00                         | 12,392.00             | 11,157.46             | 8,474.00              | 64.29            | 54.37         | 20.92                 | 2,761.09                            | 568.71       | 4,195.39               | 4,144.87                | 50.52                     | 83.050            |                                               |           |                    |           |
| 15,300.00                         | 12,392.00             | 11,257.46             | 8,474.00              | 65.47            | 55.74         | 20.92                 | 2,861.09                            | 567.71       | 4,195.39               | 4,143.88                | 51.50                     | 81.458            |                                               |           |                    |           |
| 15,400.00                         | 12,392.00             | 11,357.46             | 8,474.00              | 66.68            | 57.13         | 20.92                 | 2,961.08                            | 566.70       | 4,195.38               | 4,142.87                | 52.51                     | 79.903            |                                               |           |                    |           |
| 15,500.00                         | 12,392.00             | 11,457.46             | 8,474.00              | 67.90            | 58.53         | 20.92                 | 3,061.08                            | 565.70       | 4,195.37               | 4,141.85                | 53.52                     | 78.386            |                                               |           |                    |           |
| 15,600.00                         | 12,392.00             | 11,557.46             | 8,474.00              | 69.15            | 59.95         | 20.92                 | 3,161.07                            | 564.70       | 4,195.37               | 4,140.82                | 54.55                     | 76.907            |                                               |           |                    |           |
| 15,700.00                         | 12,392.00             | 11,657.46             | 8,474.00              | 70.41            | 61.37         | 20.92                 | 3,261.07                            | 563.70       | 4,195.36               | 4,139.77                | 55.59                     | 75.464            |                                               |           |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               | Distance              |                                     |              |                        |                         |                           | Warning           |                    |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 15,800.00                         | 12,392.00             | 11,757.46             | 8,474.00              | 71.68            | 62.81         | 20.92                 | 3,361.06                            | 562.69       | 4,195.36               | 4,138.71                | 56.65                     | 74.059            |                    |           |
| 15,900.00                         | 12,392.00             | 11,857.46             | 8,474.00              | 72.97            | 64.26         | 20.92                 | 3,461.06                            | 561.69       | 4,195.35               | 4,137.64                | 57.71                     | 72.694            |                    |           |
| 16,000.00                         | 12,392.00             | 11,957.46             | 8,474.00              | 74.28            | 65.72         | 20.92                 | 3,561.05                            | 560.69       | 4,195.35               | 4,136.56                | 58.79                     | 71.366            |                    |           |
| 16,100.00                         | 12,392.00             | 12,057.46             | 8,474.00              | 75.60            | 67.18         | 20.92                 | 3,661.05                            | 559.68       | 4,195.34               | 4,135.47                | 59.87                     | 70.073            |                    |           |
| 16,200.00                         | 12,392.00             | 12,157.46             | 8,474.00              | 76.93            | 68.66         | 20.92                 | 3,761.04                            | 558.68       | 4,195.34               | 4,134.38                | 60.96                     | 68.818            |                    |           |
| 16,300.00                         | 12,392.00             | 12,257.46             | 8,474.00              | 78.27            | 70.14         | 20.92                 | 3,861.04                            | 557.68       | 4,195.33               | 4,133.27                | 62.06                     | 67.598            |                    |           |
| 16,400.00                         | 12,392.00             | 12,357.46             | 8,474.00              | 79.63            | 71.63         | 20.92                 | 3,961.03                            | 556.67       | 4,195.33               | 4,132.16                | 63.17                     | 66.411            |                    |           |
| 16,500.00                         | 12,392.00             | 12,457.46             | 8,474.00              | 80.99            | 73.13         | 20.92                 | 4,061.03                            | 555.67       | 4,195.32               | 4,131.03                | 64.29                     | 65.256            |                    |           |
| 16,600.00                         | 12,392.00             | 12,557.46             | 8,474.00              | 82.37            | 74.63         | 20.92                 | 4,161.02                            | 554.67       | 4,195.32               | 4,129.90                | 65.42                     | 64.133            |                    |           |
| 16,700.00                         | 12,392.00             | 12,657.46             | 8,474.00              | 83.75            | 76.14         | 20.92                 | 4,261.02                            | 553.66       | 4,195.31               | 4,128.76                | 66.55                     | 63.042            |                    |           |
| 16,800.00                         | 12,392.00             | 12,757.46             | 8,474.00              | 85.15            | 77.66         | 20.92                 | 4,361.01                            | 552.66       | 4,195.31               | 4,127.62                | 67.69                     | 61.981            |                    |           |
| 16,900.00                         | 12,392.00             | 12,857.46             | 8,474.00              | 86.56            | 79.18         | 20.92                 | 4,461.01                            | 551.66       | 4,195.30               | 4,126.47                | 68.83                     | 60.949            |                    |           |
| 17,000.00                         | 12,392.00             | 12,957.46             | 8,474.00              | 87.97            | 80.71         | 20.92                 | 4,561.00                            | 550.66       | 4,195.30               | 4,125.31                | 69.99                     | 59.945            |                    |           |
| 17,100.00                         | 12,392.00             | 13,057.46             | 8,474.00              | 89.39            | 82.24         | 20.92                 | 4,661.00                            | 549.65       | 4,195.29               | 4,124.15                | 71.14                     | 58.970            |                    |           |
| 17,200.00                         | 12,392.00             | 13,157.46             | 8,474.00              | 90.82            | 83.77         | 20.92                 | 4,760.99                            | 548.65       | 4,195.28               | 4,122.98                | 72.30                     | 58.023            |                    |           |
| 17,300.00                         | 12,392.00             | 13,257.46             | 8,474.00              | 92.26            | 85.31         | 20.92                 | 4,860.99                            | 547.65       | 4,195.28               | 4,121.81                | 73.47                     | 57.103            |                    |           |
| 17,400.00                         | 12,392.00             | 13,357.46             | 8,474.00              | 93.70            | 86.86         | 20.92                 | 4,960.98                            | 546.64       | 4,195.27               | 4,120.63                | 74.64                     | 56.207            |                    |           |
| 17,500.00                         | 12,392.00             | 13,457.46             | 8,474.00              | 95.15            | 88.41         | 20.92                 | 5,060.98                            | 545.64       | 4,195.27               | 4,119.45                | 75.82                     | 55.335            |                    |           |
| 17,600.00                         | 12,392.00             | 13,557.46             | 8,474.00              | 96.61            | 89.96         | 20.92                 | 5,160.97                            | 544.64       | 4,195.26               | 4,118.27                | 77.00                     | 54.487            |                    |           |
| 17,700.00                         | 12,392.00             | 13,657.46             | 8,474.00              | 98.07            | 91.51         | 20.92                 | 5,260.97                            | 543.63       | 4,195.26               | 4,117.08                | 78.18                     | 53.661            |                    |           |
| 17,800.00                         | 12,392.00             | 13,757.46             | 8,474.00              | 99.54            | 93.07         | 20.92                 | 5,360.96                            | 542.63       | 4,195.25               | 4,115.88                | 79.37                     | 52.857            |                    |           |
| 17,900.00                         | 12,392.00             | 13,857.46             | 8,474.00              | 101.02           | 94.63         | 20.92                 | 5,460.96                            | 541.63       | 4,195.25               | 4,114.69                | 80.56                     | 52.074            |                    |           |
| 18,000.00                         | 12,392.00             | 13,957.46             | 8,474.00              | 102.50           | 96.20         | 20.92                 | 5,560.95                            | 540.62       | 4,195.24               | 4,113.48                | 81.76                     | 51.312            |                    |           |
| 18,100.00                         | 12,392.00             | 14,057.46             | 8,474.00              | 103.98           | 97.77         | 20.92                 | 5,660.95                            | 539.62       | 4,195.24               | 4,112.28                | 82.96                     | 50.570            |                    |           |
| 18,200.00                         | 12,392.00             | 14,157.46             | 8,474.00              | 105.47           | 99.34         | 20.92                 | 5,760.94                            | 538.62       | 4,195.23               | 4,111.07                | 84.16                     | 49.846            |                    |           |
| 18,300.00                         | 12,392.00             | 14,257.46             | 8,474.00              | 106.97           | 100.91        | 20.92                 | 5,860.94                            | 537.61       | 4,195.23               | 4,109.86                | 85.37                     | 49.141            |                    |           |
| 18,400.00                         | 12,392.00             | 14,357.46             | 8,474.00              | 108.47           | 102.49        | 20.92                 | 5,960.93                            | 536.61       | 4,195.22               | 4,108.64                | 86.58                     | 48.454            |                    |           |
| 18,500.00                         | 12,392.00             | 14,457.46             | 8,474.00              | 109.97           | 104.06        | 20.91                 | 6,060.93                            | 535.61       | 4,195.22               | 4,107.42                | 87.79                     | 47.784            |                    |           |
| 18,600.00                         | 12,392.00             | 14,557.46             | 8,474.00              | 111.48           | 105.64        | 20.91                 | 6,160.92                            | 534.61       | 4,195.21               | 4,106.20                | 89.01                     | 47.131            |                    |           |
| 18,700.00                         | 12,392.00             | 14,657.46             | 8,474.00              | 112.99           | 107.23        | 20.91                 | 6,260.92                            | 533.60       | 4,195.21               | 4,104.98                | 90.23                     | 46.495            |                    |           |
| 18,800.00                         | 12,392.00             | 14,757.46             | 8,474.00              | 114.51           | 108.81        | 20.91                 | 6,360.91                            | 532.60       | 4,195.20               | 4,103.75                | 91.45                     | 45.876            |                    |           |
| 18,900.00                         | 12,392.00             | 14,857.46             | 8,474.00              | 116.03           | 110.40        | 20.91                 | 6,460.91                            | 531.60       | 4,195.20               | 4,102.53                | 92.67                     | 45.271            |                    |           |
| 19,000.00                         | 12,392.00             | 14,957.46             | 8,474.00              | 117.55           | 111.99        | 20.91                 | 6,560.90                            | 530.59       | 4,195.19               | 4,101.30                | 93.89                     | 44.681            |                    |           |
| 19,100.00                         | 12,392.00             | 15,057.46             | 8,474.00              | 119.08           | 113.58        | 20.91                 | 6,660.90                            | 529.59       | 4,195.18               | 4,100.07                | 95.12                     | 44.105            |                    |           |
| 19,200.00                         | 12,392.00             | 15,157.46             | 8,474.00              | 120.61           | 115.17        | 20.91                 | 6,760.89                            | 528.59       | 4,195.18               | 4,098.83                | 96.35                     | 43.542            |                    |           |
| 19,300.00                         | 12,392.00             | 15,257.46             | 8,474.00              | 122.14           | 116.76        | 20.91                 | 6,860.89                            | 527.58       | 4,195.17               | 4,097.59                | 97.58                     | 42.992            |                    |           |
| 19,400.00                         | 12,392.00             | 15,357.46             | 8,474.00              | 123.68           | 118.36        | 20.91                 | 6,960.88                            | 526.58       | 4,195.17               | 4,096.36                | 98.81                     | 42.455            |                    |           |
| 19,500.00                         | 12,392.00             | 15,457.46             | 8,474.00              | 125.22           | 119.95        | 20.91                 | 7,060.88                            | 525.58       | 4,195.16               | 4,095.11                | 100.05                    | 41.931            |                    |           |
| 19,600.00                         | 12,392.00             | 15,557.46             | 8,474.00              | 126.76           | 121.55        | 20.91                 | 7,160.87                            | 524.57       | 4,195.16               | 4,093.87                | 101.29                    | 41.419            |                    |           |
| 19,700.00                         | 12,392.00             | 15,657.46             | 8,474.00              | 128.31           | 123.15        | 20.91                 | 7,260.87                            | 523.57       | 4,195.15               | 4,092.63                | 102.52                    | 40.919            |                    |           |
| 19,800.00                         | 12,392.00             | 15,757.46             | 8,474.00              | 129.85           | 124.75        | 20.91                 | 7,360.86                            | 522.57       | 4,195.15               | 4,091.38                | 103.76                    | 40.430            |                    |           |
| 19,900.00                         | 12,392.00             | 15,857.46             | 8,474.00              | 131.40           | 126.36        | 20.91                 | 7,460.86                            | 521.56       | 4,195.14               | 4,090.14                | 105.01                    | 39.952            |                    |           |
| 20,000.00                         | 12,392.00             | 15,957.46             | 8,474.00              | 132.96           | 127.96        | 20.91                 | 7,560.85                            | 520.56       | 4,195.14               | 4,088.89                | 106.25                    | 39.485            |                    |           |
| 20,100.00                         | 12,392.00             | 16,057.46             | 8,474.00              | 134.51           | 129.56        | 20.91                 | 7,660.85                            | 519.56       | 4,195.13               | 4,087.64                | 107.49                    | 39.028            |                    |           |
| 20,200.00                         | 12,392.00             | 16,157.46             | 8,474.00              | 136.07           | 131.17        | 20.91                 | 7,760.84                            | 518.56       | 4,195.13               | 4,086.39                | 108.73                    | 38.582            |                    |           |
| 20,300.00                         | 12,392.00             | 16,257.46             | 8,474.00              | 137.63           | 132.78        | 20.91                 | 7,860.84                            | 517.55       | 4,195.12               | 4,085.14                | 109.98                    | 38.144            |                    |           |
| 20,400.00                         | 12,392.00             | 16,357.46             | 8,474.00              | 139.19           | 134.39        | 20.91                 | 7,960.83                            | 516.55       | 4,195.12               | 4,083.89                | 111.23                    | 37.716            |                    |           |
| 20,500.00                         | 12,392.00             | 16,457.46             | 8,474.00              | 140.75           | 136.00        | 20.91                 | 8,060.83                            | 515.55       | 4,195.11               | 4,082.63                | 112.48                    | 37.297            |                    |           |
| 20,600.00                         | 12,392.00             | 16,557.46             | 8,474.00              | 142.32           | 137.61        | 20.91                 | 8,160.82                            | 514.54       | 4,195.11               | 4,081.38                | 113.73                    | 36.887            |                    |           |
| 20,700.00                         | 12,392.00             | 16,657.46             | 8,474.00              | 143.89           | 139.22        | 20.91                 | 8,260.82                            | 513.54       | 4,195.10               | 4,080.12                | 114.98                    | 36.485            |                    |           |
| 20,800.00                         | 12,392.00             | 16,757.46             | 8,474.00              | 145.46           | 140.83        | 20.91                 | 8,360.81                            | 512.54       | 4,195.09               | 4,078.86                | 116.24                    | 36.091            |                    |           |
| 20,900.00                         | 12,392.00             | 16,857.46             | 8,474.00              | 147.03           | 142.44        | 20.91                 | 8,460.81                            | 511.53       | 4,195.09               | 4,077.60                | 117.49                    | 35.706            |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| <b>Offset Design</b> FMM Fed Com - FMM Fed Com 102H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | <b>Offset Site Error:</b> | 0.00 usft |
|--------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|---------------------------|-----------|
| <b>Survey Program:</b> 0-OWSG (Rev2) MWD                           |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | <b>Offset Well Error:</b> | 0.00 usft |
| Reference                                                          |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   | Warning                   |           |
| Measured Depth (usft)                                              | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                           |           |
| 21,000.00                                                          | 12,392.00             | 16,957.46             | 8,474.00              | 148.60           | 144.06        | 20.91                 | 8,560.80                            | 510.53       | 4,195.08               | 4,076.34                | 118.74                    | 35.329            |                           |           |
| 21,100.00                                                          | 12,392.00             | 17,057.46             | 8,474.00              | 150.18           | 145.67        | 20.91                 | 8,660.80                            | 509.53       | 4,195.08               | 4,075.08                | 120.00                    | 34.960            |                           |           |
| 21,200.00                                                          | 12,392.00             | 17,157.46             | 8,474.00              | 151.75           | 147.29        | 20.91                 | 8,760.79                            | 508.52       | 4,195.07               | 4,073.82                | 121.25                    | 34.598            |                           |           |
| 21,300.00                                                          | 12,392.00             | 17,257.46             | 8,474.00              | 153.33           | 148.90        | 20.91                 | 8,860.79                            | 507.52       | 4,195.07               | 4,072.56                | 122.51                    | 34.243            |                           |           |
| 21,400.00                                                          | 12,392.00             | 17,357.46             | 8,474.00              | 154.91           | 150.52        | 20.91                 | 8,960.78                            | 506.52       | 4,195.06               | 4,071.30                | 123.77                    | 33.895            |                           |           |
| 21,500.00                                                          | 12,392.00             | 17,457.46             | 8,474.00              | 156.49           | 152.14        | 20.91                 | 9,060.78                            | 505.51       | 4,195.06               | 4,070.03                | 125.02                    | 33.554            |                           |           |
| 21,600.00                                                          | 12,392.00             | 17,557.46             | 8,474.00              | 158.07           | 153.76        | 20.91                 | 9,160.77                            | 504.51       | 4,195.05               | 4,068.77                | 126.28                    | 33.219            |                           |           |
| 21,700.00                                                          | 12,392.00             | 17,657.46             | 8,474.00              | 159.66           | 155.38        | 20.91                 | 9,260.77                            | 503.51       | 4,195.05               | 4,067.50                | 127.55                    | 32.891            |                           |           |
| 21,800.00                                                          | 12,392.00             | 17,757.46             | 8,474.00              | 161.24           | 157.00        | 20.91                 | 9,360.76                            | 502.51       | 4,195.04               | 4,066.23                | 128.81                    | 32.568            |                           |           |
| 21,900.00                                                          | 12,392.00             | 17,857.46             | 8,474.00              | 162.83           | 158.62        | 20.91                 | 9,460.76                            | 501.50       | 4,195.04               | 4,064.97                | 130.07                    | 32.252            |                           |           |
| 22,000.00                                                          | 12,392.00             | 17,957.46             | 8,474.00              | 164.42           | 160.24        | 20.91                 | 9,560.75                            | 500.50       | 4,195.03               | 4,063.70                | 131.33                    | 31.942            |                           |           |
| 22,100.00                                                          | 12,392.00             | 18,057.46             | 8,474.00              | 166.01           | 161.86        | 20.91                 | 9,660.75                            | 499.50       | 4,195.03               | 4,062.43                | 132.60                    | 31.637            |                           |           |
| 22,200.00                                                          | 12,392.00             | 18,157.46             | 8,474.00              | 167.60           | 163.49        | 20.91                 | 9,760.74                            | 498.49       | 4,195.02               | 4,061.16                | 133.86                    | 31.338            |                           |           |
| 22,300.00                                                          | 12,392.00             | 18,257.46             | 8,474.00              | 169.19           | 165.11        | 20.91                 | 9,860.74                            | 497.49       | 4,195.02               | 4,059.89                | 135.13                    | 31.045            |                           |           |
| 22,400.00                                                          | 12,392.00             | 18,357.46             | 8,474.00              | 170.78           | 166.73        | 20.91                 | 9,960.73                            | 496.49       | 4,195.01               | 4,058.62                | 136.39                    | 30.757            |                           |           |
| 22,500.00                                                          | 12,392.00             | 18,457.46             | 8,474.00              | 172.37           | 168.36        | 20.91                 | 10,060.73                           | 495.48       | 4,195.00               | 4,057.35                | 137.66                    | 30.474            |                           |           |
| 22,587.43                                                          | 12,392.00             | 18,544.89             | 8,474.00              | 173.77           | 169.78        | 20.91                 | 10,148.15                           | 494.61       | 4,195.00               | 4,056.24                | 138.76                    | 30.232            |                           |           |
| 22,595.91                                                          | 12,392.00             | 18,548.37             | 8,474.00              | 173.90           | 169.83        | 20.91                 | 10,151.63                           | 494.57       | 4,195.00               | 4,056.16                | 138.84                    | 30.214            |                           |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design FMM Fed Com - FMM Fed Com 301H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD                           |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                                                   |                       | Offset                |                       | Semi Major Axis  |               | Distance              |                                     |              |                        |                         |                           |                   |                    | Warning   |
| Measured Depth (usft)                                       | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 1,843.00                                                    | 1,843.00              | 1,842.70              | 1,842.70              | 6.37             | 6.37          | 8.84                  | 75.06                               | 11.68        | 75.96                  | 66.95                   | 9.01                      | 8.428             |                    |           |
| 1,900.00                                                    | 1,900.00              | 1,899.70              | 1,899.70              | 6.58             | 6.58          | 8.84                  | 75.06                               | 11.68        | 75.96                  | 66.66                   | 9.30                      | 8.166             |                    |           |
| 2,000.00                                                    | 2,000.00              | 1,999.70              | 1,999.70              | 6.94             | 6.94          | 8.84                  | 75.06                               | 11.68        | 75.96                  | 66.15                   | 9.81                      | 7.744 CC          |                    |           |
| 2,100.00                                                    | 2,099.99              | 2,100.43              | 2,100.42              | 7.28             | 7.29          | 112.57                | 74.77                               | 10.39        | 75.99                  | 65.68                   | 10.30                     | 7.376             |                    |           |
| 2,200.00                                                    | 2,199.91              | 2,201.16              | 2,201.07              | 7.62             | 7.63          | 112.53                | 73.91                               | 6.51         | 76.05                  | 65.27                   | 10.78                     | 7.054             |                    |           |
| 2,300.00                                                    | 2,299.69              | 2,301.89              | 2,301.57              | 7.97             | 7.97          | 112.46                | 72.47                               | 0.04         | 76.17                  | 64.90                   | 11.26                     | 6.761             |                    |           |
| 2,400.00                                                    | 2,399.27              | 2,402.62              | 2,401.87              | 8.31             | 8.32          | 112.37                | 70.45                               | -9.02        | 76.32                  | 64.57                   | 11.75                     | 6.494             |                    |           |
| 2,500.00                                                    | 2,498.57              | 2,503.34              | 2,501.89              | 8.66             | 8.68          | 112.24                | 67.86                               | -20.65       | 76.52                  | 64.27                   | 12.25                     | 6.248             |                    |           |
| 2,600.00                                                    | 2,597.54              | 2,604.07              | 2,601.55              | 9.02             | 9.04          | 112.09                | 64.70                               | -34.85       | 76.76                  | 64.01                   | 12.75                     | 6.020             |                    |           |
| 2,700.00                                                    | 2,696.09              | 2,704.79              | 2,700.79              | 9.39             | 9.41          | 111.90                | 60.97                               | -51.61       | 77.05                  | 63.78                   | 13.26                     | 5.808             |                    |           |
| 2,762.60                                                    | 2,757.54              | 2,767.78              | 2,762.62              | 9.63             | 9.65          | 111.78                | 58.35                               | -63.38       | 77.25                  | 63.66                   | 13.59                     | 5.683             |                    |           |
| 2,800.00                                                    | 2,794.20              | 2,805.18              | 2,799.29              | 9.77             | 9.80          | 111.75                | 56.74                               | -70.61       | 77.40                  | 63.60                   | 13.80                     | 5.611             |                    |           |
| 2,900.00                                                    | 2,892.21              | 2,905.18              | 2,897.31              | 10.17            | 10.19         | 111.68                | 52.44                               | -89.92       | 77.80                  | 63.46                   | 14.34                     | 5.425             |                    |           |
| 3,000.00                                                    | 2,990.23              | 3,005.18              | 2,995.33              | 10.56            | 10.59         | 111.60                | 48.15                               | -109.24      | 78.20                  | 63.30                   | 14.90                     | 5.249             |                    |           |
| 3,100.00                                                    | 3,088.24              | 3,105.18              | 3,093.35              | 10.97            | 10.99         | 111.52                | 43.85                               | -128.55      | 78.60                  | 63.14                   | 15.46                     | 5.084             |                    |           |
| 3,200.00                                                    | 3,186.26              | 3,205.18              | 3,191.37              | 11.38            | 11.41         | 111.45                | 39.55                               | -147.86      | 79.00                  | 62.97                   | 16.03                     | 4.927             |                    |           |
| 3,300.00                                                    | 3,284.27              | 3,305.18              | 3,289.40              | 11.80            | 11.82         | 111.37                | 35.25                               | -167.18      | 79.40                  | 62.79                   | 16.61                     | 4.780             |                    |           |
| 3,400.00                                                    | 3,382.28              | 3,405.18              | 3,387.42              | 12.22            | 12.24         | 111.30                | 30.95                               | -186.49      | 79.80                  | 62.60                   | 17.20                     | 4.640             |                    |           |
| 3,500.00                                                    | 3,480.30              | 3,505.18              | 3,485.44              | 12.65            | 12.67         | 111.23                | 26.65                               | -205.80      | 80.20                  | 62.41                   | 17.79                     | 4.509             |                    |           |
| 3,600.00                                                    | 3,578.31              | 3,605.18              | 3,583.46              | 13.08            | 13.10         | 111.16                | 22.35                               | -225.12      | 80.60                  | 62.22                   | 18.38                     | 4.384             |                    |           |
| 3,700.00                                                    | 3,676.32              | 3,705.18              | 3,681.49              | 13.51            | 13.54         | 111.09                | 18.05                               | -244.43      | 81.00                  | 62.02                   | 18.99                     | 4.266             |                    |           |
| 3,800.00                                                    | 3,774.34              | 3,805.18              | 3,779.51              | 13.95            | 13.97         | 111.02                | 13.75                               | -263.74      | 81.40                  | 61.81                   | 19.59                     | 4.155             |                    |           |
| 3,900.00                                                    | 3,872.35              | 3,905.17              | 3,877.53              | 14.39            | 14.41         | 110.95                | 9.45                                | -283.06      | 81.80                  | 61.60                   | 20.20                     | 4.050             |                    |           |
| 4,000.00                                                    | 3,970.37              | 4,005.17              | 3,975.55              | 14.83            | 14.86         | 110.88                | 5.16                                | -302.37      | 82.21                  | 61.39                   | 20.81                     | 3.950             |                    |           |
| 4,100.00                                                    | 4,068.38              | 4,105.17              | 4,073.57              | 15.28            | 15.30         | 110.81                | 0.86                                | -321.69      | 82.61                  | 61.18                   | 21.43                     | 3.855             |                    |           |
| 4,200.00                                                    | 4,166.39              | 4,205.17              | 4,171.60              | 15.72            | 15.75         | 110.74                | -3.44                               | -341.00      | 83.01                  | 60.96                   | 22.05                     | 3.765             |                    |           |
| 4,300.00                                                    | 4,264.41              | 4,305.17              | 4,269.62              | 16.17            | 16.20         | 110.67                | -7.74                               | -360.31      | 83.41                  | 60.74                   | 22.67                     | 3.679             |                    |           |
| 4,400.00                                                    | 4,362.42              | 4,405.17              | 4,367.64              | 16.63            | 16.65         | 110.61                | -12.04                              | -379.63      | 83.81                  | 60.52                   | 23.30                     | 3.598             |                    |           |
| 4,500.00                                                    | 4,460.43              | 4,505.17              | 4,465.66              | 17.08            | 17.10         | 110.54                | -16.34                              | -398.94      | 84.21                  | 60.29                   | 23.92                     | 3.520             |                    |           |
| 4,600.00                                                    | 4,558.45              | 4,605.17              | 4,563.68              | 17.54            | 17.56         | 110.48                | -20.64                              | -418.25      | 84.62                  | 60.06                   | 24.55                     | 3.446             |                    |           |
| 4,700.00                                                    | 4,656.46              | 4,705.17              | 4,661.71              | 17.99            | 18.01         | 110.41                | -24.94                              | -437.57      | 85.02                  | 59.83                   | 25.18                     | 3.376             |                    |           |
| 4,800.00                                                    | 4,754.47              | 4,805.17              | 4,759.73              | 18.45            | 18.47         | 110.35                | -29.24                              | -456.88      | 85.42                  | 59.60                   | 25.82                     | 3.309             |                    |           |
| 4,900.00                                                    | 4,852.49              | 4,905.17              | 4,857.75              | 18.91            | 18.93         | 110.29                | -33.53                              | -476.19      | 85.82                  | 59.37                   | 26.45                     | 3.245             |                    |           |
| 5,000.00                                                    | 4,950.50              | 5,005.17              | 4,955.77              | 19.37            | 19.39         | 110.22                | -37.83                              | -495.51      | 86.22                  | 59.14                   | 27.09                     | 3.183             |                    |           |
| 5,100.00                                                    | 5,048.52              | 5,105.16              | 5,053.79              | 19.83            | 19.85         | 110.16                | -42.13                              | -514.82      | 86.63                  | 58.90                   | 27.73                     | 3.124             |                    |           |
| 5,200.00                                                    | 5,146.53              | 5,205.16              | 5,151.82              | 20.29            | 20.31         | 110.10                | -46.43                              | -534.14      | 87.03                  | 58.66                   | 28.36                     | 3.068             |                    |           |
| 5,300.00                                                    | 5,244.54              | 5,305.16              | 5,249.84              | 20.76            | 20.78         | 110.04                | -50.73                              | -553.45      | 87.43                  | 58.43                   | 29.01                     | 3.014             |                    |           |
| 5,400.00                                                    | 5,342.56              | 5,405.16              | 5,347.86              | 21.22            | 21.24         | 109.98                | -55.03                              | -572.76      | 87.83                  | 58.19                   | 29.65                     | 2.963             |                    |           |
| 5,500.00                                                    | 5,440.57              | 5,505.16              | 5,445.88              | 21.69            | 21.71         | 109.92                | -59.33                              | -592.08      | 88.24                  | 57.95                   | 30.29                     | 2.913             |                    |           |
| 5,600.00                                                    | 5,538.58              | 5,605.16              | 5,543.91              | 22.15            | 22.17         | 109.86                | -63.63                              | -611.39      | 88.64                  | 57.70                   | 30.94                     | 2.865             |                    |           |
| 5,700.00                                                    | 5,636.60              | 5,705.16              | 5,641.93              | 22.62            | 22.64         | 109.80                | -67.93                              | -630.70      | 89.04                  | 57.46                   | 31.58                     | 2.820             |                    |           |
| 5,800.00                                                    | 5,734.61              | 5,805.16              | 5,739.95              | 23.09            | 23.11         | 109.74                | -72.23                              | -650.02      | 89.45                  | 57.22                   | 32.23                     | 2.775             |                    |           |
| 5,900.00                                                    | 5,832.62              | 5,905.16              | 5,837.97              | 23.56            | 23.57         | 109.68                | -76.52                              | -669.33      | 89.85                  | 56.97                   | 32.88                     | 2.733             |                    |           |
| 6,000.00                                                    | 5,930.64              | 6,005.16              | 5,935.99              | 24.02            | 24.04         | 109.63                | -80.82                              | -688.64      | 90.25                  | 56.73                   | 33.52                     | 2.692             |                    |           |
| 6,100.00                                                    | 6,028.65              | 6,105.16              | 6,034.02              | 24.49            | 24.51         | 109.57                | -85.12                              | -707.96      | 90.66                  | 56.48                   | 34.17                     | 2.653             |                    |           |
| 6,200.00                                                    | 6,126.67              | 6,205.16              | 6,132.04              | 24.96            | 24.98         | 109.51                | -89.42                              | -727.27      | 91.06                  | 56.24                   | 34.82                     | 2.615             |                    |           |
| 6,300.00                                                    | 6,224.68              | 6,305.15              | 6,230.06              | 25.43            | 25.45         | 109.46                | -93.72                              | -746.58      | 91.46                  | 55.99                   | 35.47                     | 2.578             |                    |           |
| 6,400.00                                                    | 6,322.69              | 6,405.15              | 6,328.08              | 25.91            | 25.92         | 109.40                | -98.02                              | -765.90      | 91.87                  | 55.74                   | 36.13                     | 2.543             |                    |           |
| 6,500.00                                                    | 6,420.71              | 6,505.15              | 6,426.10              | 26.38            | 26.39         | 109.35                | -102.32                             | -785.21      | 92.27                  | 55.49                   | 36.78                     | 2.509             |                    |           |
| 6,600.00                                                    | 6,518.72              | 6,605.15              | 6,524.13              | 26.85            | 26.86         | 109.29                | -106.62                             | -804.53      | 92.68                  | 55.24                   | 37.43                     | 2.476             |                    |           |
| 6,669.11                                                    | 6,586.46              | 6,674.26              | 6,591.87              | 27.18            | 27.19         | 109.26                | -109.59                             | -817.87      | 92.95                  | 55.07                   | 37.88                     | 2.454             |                    |           |
| 6,700.00                                                    | 6,616.76              | 6,705.15              | 6,622.15              | 27.32            | 27.34         | 109.17                | -110.92                             | -823.84      | 93.04                  | 54.95                   | 38.09                     | 2.443             |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |              |              |              |                 |        |              |                        |              |                |                 |                   |              | FMM Fed Com - FMM Fed Com 301H - OH - Plan #1 |           | Offset Site Error: | 0.00 usft |
|-----------------------------------|--------------|--------------|--------------|-----------------|--------|--------------|------------------------|--------------|----------------|-----------------|-------------------|--------------|-----------------------------------------------|-----------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |              |              |              |                 |        |              |                        |              |                |                 |                   |              | Offset Well Error:                            | 0.00 usft |                    |           |
| Reference                         |              | Offset       |              | Semi Major Axis |        |              | Distance               |              |                |                 |                   |              |                                               | Warning   |                    |           |
| Measured Depth                    | Vertical     | Measured     | Vertical     | Reference       | Offset | Highside     | Offset Wellbore Centre |              | Between        | Between         | Minimum           | Separation   |                                               |           |                    |           |
| Depth (usft)                      | Depth (usft) | Depth (usft) | Depth (usft) | (usft)          | (usft) | Toolface (°) | +N/-S (usft)           | +E/-W (usft) | Centres (usft) | Ellipses (usft) | Separation (usft) | Factor       |                                               |           |                    |           |
| 6,800.00                          | 6,715.17     | 6,804.52     | 6,719.73     | 27.78           | 27.80  | 108.45       | -114.99                | -842.12      | 93.05          | 54.28           | 38.76             | 2.400        |                                               |           |                    |           |
| 6,900.00                          | 6,814.01     | 6,903.81     | 6,817.69     | 28.21           | 28.24  | 107.71       | -118.51                | -857.94      | 93.01          | 53.60           | 39.41             | 2.360        |                                               |           |                    |           |
| 7,000.00                          | 6,913.21     | 7,003.13     | 6,916.06     | 28.62           | 28.65  | 106.97       | -121.47                | -871.27      | 92.93          | 52.90           | 40.03             | 2.322        |                                               |           |                    |           |
| 7,100.00                          | 7,012.71     | 7,102.48     | 7,014.79     | 29.01           | 29.05  | 106.22       | -123.88                | -882.10      | 92.81          | 52.20           | 40.61             | 2.285        |                                               |           |                    |           |
| 7,200.00                          | 7,112.43     | 7,201.86     | 7,113.80     | 29.37           | 29.42  | 105.47       | -125.74                | -890.42      | 92.65          | 51.48           | 41.17             | 2.251        |                                               |           |                    |           |
| 7,300.00                          | 7,212.32     | 7,301.27     | 7,213.03     | 29.72           | 29.77  | 104.72       | -127.03                | -896.23      | 92.45          | 50.76           | 41.69             | 2.218        |                                               |           |                    |           |
| 7,400.00                          | 7,312.29     | 7,400.72     | 7,312.42     | 30.04           | 30.11  | 103.96       | -127.76                | -899.51      | 92.21          | 50.03           | 42.18             | 2.186        |                                               |           |                    |           |
| 7,431.71                          | 7,344.00     | 7,432.26     | 7,343.95     | 30.14           | 30.20  | -0.02        | -127.88                | -900.03      | 92.13          | 49.79           | 42.33             | 2.176        |                                               |           |                    |           |
| 7,500.00                          | 7,412.29     | 7,500.30     | 7,411.99     | 30.34           | 30.41  | -0.20        | -127.94                | -900.32      | 92.06          | 49.43           | 42.63             | 2.159        |                                               |           |                    |           |
| 7,600.00                          | 7,512.29     | 7,600.30     | 7,511.99     | 30.64           | 30.71  | -0.20        | -127.94                | -900.32      | 92.06          | 49.00           | 43.06             | 2.138        |                                               |           |                    |           |
| 7,700.00                          | 7,612.29     | 7,700.30     | 7,611.99     | 30.94           | 31.01  | -0.20        | -127.94                | -900.32      | 92.06          | 48.57           | 43.49             | 2.117        |                                               |           |                    |           |
| 7,800.00                          | 7,712.29     | 7,800.30     | 7,711.99     | 31.24           | 31.32  | -0.20        | -127.94                | -900.32      | 92.06          | 48.14           | 43.92             | 2.096        |                                               |           |                    |           |
| 7,900.00                          | 7,812.29     | 7,900.30     | 7,811.99     | 31.55           | 31.62  | -0.20        | -127.94                | -900.32      | 92.06          | 47.71           | 44.35             | 2.076        |                                               |           |                    |           |
| 8,000.00                          | 7,912.29     | 8,000.30     | 7,911.99     | 31.85           | 31.92  | -0.20        | -127.94                | -900.32      | 92.06          | 47.27           | 44.79             | 2.055        |                                               |           |                    |           |
| 8,100.00                          | 8,012.29     | 8,100.30     | 8,011.99     | 32.16           | 32.23  | -0.20        | -127.94                | -900.32      | 92.06          | 46.84           | 45.22             | 2.036        |                                               |           |                    |           |
| 8,200.00                          | 8,112.29     | 8,200.30     | 8,111.99     | 32.47           | 32.54  | -0.20        | -127.94                | -900.32      | 92.06          | 46.40           | 45.66             | 2.016        |                                               |           |                    |           |
| 8,300.00                          | 8,212.29     | 8,300.30     | 8,211.99     | 32.78           | 32.84  | -0.20        | -127.94                | -900.32      | 92.06          | 45.96           | 46.10             | 1.997        |                                               |           |                    |           |
| 8,400.00                          | 8,312.29     | 8,400.30     | 8,311.99     | 33.08           | 33.15  | -0.20        | -127.94                | -900.32      | 92.06          | 45.52           | 46.54             | 1.978        |                                               |           |                    |           |
| 8,500.00                          | 8,412.29     | 8,500.30     | 8,411.99     | 33.40           | 33.46  | -0.20        | -127.94                | -900.32      | 92.06          | 45.08           | 46.98             | 1.959        |                                               |           |                    |           |
| 8,600.00                          | 8,512.29     | 8,600.30     | 8,511.99     | 33.71           | 33.77  | -0.20        | -127.94                | -900.32      | 92.06          | 44.63           | 47.43             | 1.941        |                                               |           |                    |           |
| 8,700.00                          | 8,612.29     | 8,700.30     | 8,611.99     | 34.02           | 34.09  | -0.20        | -127.94                | -900.32      | 92.06          | 44.19           | 47.87             | 1.923        |                                               |           |                    |           |
| 8,800.00                          | 8,712.29     | 8,800.30     | 8,711.99     | 34.33           | 34.40  | -0.20        | -127.94                | -900.32      | 92.06          | 43.74           | 48.32             | 1.905        |                                               |           |                    |           |
| 8,900.00                          | 8,812.29     | 8,900.30     | 8,811.99     | 34.65           | 34.71  | -0.20        | -127.94                | -900.32      | 92.06          | 43.30           | 48.76             | 1.888        |                                               |           |                    |           |
| 9,000.00                          | 8,912.29     | 9,000.30     | 8,911.99     | 34.96           | 35.03  | -0.20        | -127.94                | -900.32      | 92.06          | 42.85           | 49.21             | 1.871        |                                               |           |                    |           |
| 9,100.00                          | 9,012.29     | 9,100.30     | 9,011.99     | 35.28           | 35.34  | -0.20        | -127.94                | -900.32      | 92.06          | 42.40           | 49.66             | 1.854        |                                               |           |                    |           |
| 9,200.00                          | 9,112.29     | 9,200.30     | 9,111.99     | 35.59           | 35.66  | -0.20        | -127.94                | -900.32      | 92.06          | 41.95           | 50.11             | 1.837        |                                               |           |                    |           |
| 9,300.00                          | 9,212.29     | 9,300.30     | 9,211.99     | 35.91           | 35.97  | -0.20        | -127.94                | -900.32      | 92.06          | 41.50           | 50.56             | 1.821        |                                               |           |                    |           |
| 9,400.00                          | 9,312.29     | 9,400.30     | 9,311.99     | 36.23           | 36.29  | -0.20        | -127.94                | -900.32      | 92.06          | 41.05           | 51.01             | 1.805        |                                               |           |                    |           |
| 9,500.00                          | 9,412.29     | 9,500.30     | 9,411.99     | 36.55           | 36.61  | -0.20        | -127.94                | -900.32      | 92.06          | 40.59           | 51.47             | 1.789        |                                               |           |                    |           |
| 9,512.14                          | 9,424.43     | 9,512.44     | 9,424.13     | 36.59           | 36.65  | -0.20        | -127.94                | -900.32      | 92.06          | 40.54           | 51.52             | 1.787        |                                               |           |                    |           |
| 9,600.00                          | 9,512.29     | 9,598.64     | 9,510.34     | 36.87           | 36.92  | -0.20        | -127.85                | -900.33      | 92.17          | 40.28           | 51.88             | 1.776 ES, SF |                                               |           |                    |           |
| 9,700.00                          | 9,612.29     | 9,683.90     | 9,595.16     | 37.19           | 37.19  | -0.23        | -119.99                | -900.40      | 101.42         | 50.16           | 51.26             | 1.978        |                                               |           |                    |           |
| 9,800.00                          | 9,712.29     | 9,765.13     | 9,674.03     | 37.51           | 37.42  | -0.29        | -100.89                | -900.59      | 125.02         | 75.22           | 49.80             | 2.510        |                                               |           |                    |           |
| 9,900.00                          | 9,812.29     | 9,839.65     | 9,743.37     | 37.83           | 37.60  | -0.34        | -73.71                 | -900.86      | 161.59         | 113.57          | 48.02             | 3.365        |                                               |           |                    |           |
| 10,000.00                         | 9,912.29     | 9,900.00     | 9,796.55     | 38.15           | 37.74  | -0.38        | -45.25                 | -901.15      | 209.44         | 163.99          | 45.44             | 4.609        |                                               |           |                    |           |
| 10,100.00                         | 10,012.29    | 9,964.25     | 9,849.55     | 38.47           | 37.86  | -0.41        | -9.00                  | -901.51      | 266.29         | 221.97          | 44.32             | 6.009        |                                               |           |                    |           |
| 10,200.00                         | 10,112.29    | 10,014.55    | 9,888.01     | 38.80           | 37.94  | -0.43        | 23.40                  | -901.83      | 330.77         | 288.15          | 42.62             | 7.761        |                                               |           |                    |           |
| 10,300.00                         | 10,212.29    | 10,050.00    | 9,913.34     | 39.12           | 37.99  | -0.44        | 48.19                  | -902.07      | 401.40         | 360.83          | 40.57             | 9.894        |                                               |           |                    |           |
| 10,400.00                         | 10,312.29    | 10,100.00    | 9,946.35     | 39.45           | 38.05  | -0.46        | 85.72                  | -902.45      | 476.62         | 436.55          | 40.07             | 11.895       |                                               |           |                    |           |
| 10,500.00                         | 10,412.29    | 10,127.34    | 9,962.98     | 39.77           | 38.08  | -0.47        | 107.42                 | -902.66      | 555.71         | 517.05          | 38.67             | 14.371       |                                               |           |                    |           |
| 10,600.00                         | 10,512.29    | 10,150.00    | 9,975.97     | 40.10           | 38.11  | -0.47        | 125.98                 | -902.85      | 637.99         | 600.48          | 37.51             | 17.009       |                                               |           |                    |           |
| 10,700.00                         | 10,612.29    | 10,179.53    | 9,991.77     | 40.42           | 38.13  | -0.48        | 150.92                 | -903.10      | 722.68         | 685.73          | 36.95             | 19.557       |                                               |           |                    |           |
| 10,800.00                         | 10,712.29    | 10,200.00    | 10,001.96    | 40.75           | 38.15  | -0.48        | 168.67                 | -903.27      | 809.46         | 773.17          | 36.29             | 22.304       |                                               |           |                    |           |
| 10,900.00                         | 10,812.29    | 10,219.55    | 10,011.09    | 41.08           | 38.17  | -0.49        | 185.95                 | -903.44      | 897.91         | 862.11          | 35.80             | 25.078       |                                               |           |                    |           |
| 11,000.00                         | 10,912.29    | 10,250.00    | 10,024.13    | 41.41           | 38.19  | -0.49        | 213.47                 | -903.72      | 988.03         | 952.28          | 35.75             | 27.638       |                                               |           |                    |           |
| 11,100.00                         | 11,012.29    | 10,250.00    | 10,024.13    | 41.73           | 38.19  | -0.49        | 213.47                 | -903.72      | 1,078.78       | 1,043.72        | 35.06             | 30.771       |                                               |           |                    |           |
| 11,200.00                         | 11,112.29    | 10,250.00    | 10,024.13    | 42.06           | 38.19  | -0.49        | 213.47                 | -903.72      | 1,171.04       | 1,136.49        | 34.56             | 33.888       |                                               |           |                    |           |
| 11,300.00                         | 11,212.29    | 10,276.06    | 10,034.12    | 42.39           | 38.21  | -0.50        | 237.53                 | -903.96      | 1,263.62       | 1,228.95        | 34.67             | 36.451       |                                               |           |                    |           |
| 11,400.00                         | 11,312.29    | 10,300.00    | 10,042.32    | 42.72           | 38.23  | -0.50        | 260.03                 | -904.18      | 1,357.39       | 1,322.62        | 34.77             | 39.042       |                                               |           |                    |           |
| 11,500.00                         | 11,412.29    | 10,300.00    | 10,042.32    | 43.05           | 38.23  | -0.50        | 260.03                 | -904.18      | 1,451.36       | 1,416.82        | 34.54             | 42.025       |                                               |           |                    |           |
| 11,600.00                         | 11,512.29    | 10,300.00    | 10,042.32    | 43.38           | 38.23  | -0.50        | 260.03                 | -904.18      | 1,546.09       | 1,511.70        | 34.39             | 44.961       |                                               |           |                    |           |
| 11,700.00                         | 11,612.29    | 10,300.00    | 10,042.32    | 43.71           | 38.23  | -0.50        | 260.03                 | -904.18      | 1,641.44       | 1,607.13        | 34.31             | 47.847       |                                               |           |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   | Warning            |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 11,800.00                         | 11,712.29             | 10,321.01             | 10,048.74             | 44.05            | 38.25         | -0.50                 | 280.03                              | -904.38      | 1,736.80               | 1,702.28                | 34.52                     | 50.311            |                    |           |
| 11,906.75                         | 11,819.04             | 10,328.32             | 10,050.79             | 44.40            | 38.26         | -0.50                 | 287.04                              | -904.45      | 1,839.22               | 1,804.62                | 34.61                     | 53.148            |                    |           |
| 11,950.00                         | 11,862.25             | 10,350.00             | 10,056.38             | 44.54            | 38.28         | 0.05                  | 307.99                              | -904.66      | 1,880.74               | 1,845.91                | 34.83                     | 54.002            |                    |           |
| 12,000.00                         | 11,911.88             | 10,350.00             | 10,056.38             | 44.70            | 38.28         | 0.04                  | 307.99                              | -904.66      | 1,926.82               | 1,892.03                | 34.79                     | 55.385            |                    |           |
| 12,050.00                         | 11,960.80             | 10,350.00             | 10,056.38             | 44.85            | 38.28         | 0.03                  | 307.99                              | -904.66      | 1,971.29               | 1,936.56                | 34.73                     | 56.756            |                    |           |
| 12,100.00                         | 12,008.65             | 10,350.00             | 10,056.38             | 45.00            | 38.28         | 0.03                  | 307.99                              | -904.66      | 2,013.94               | 1,979.28                | 34.66                     | 58.110            |                    |           |
| 12,150.00                         | 12,055.05             | 10,350.00             | 10,056.38             | 45.13            | 38.28         | 0.03                  | 307.99                              | -904.66      | 2,054.55               | 2,019.98                | 34.57                     | 59.432            |                    |           |
| 12,200.00                         | 12,099.66             | 10,350.00             | 10,056.38             | 45.25            | 38.28         | 0.02                  | 307.99                              | -904.66      | 2,092.94               | 2,058.47                | 34.47                     | 60.713            |                    |           |
| 12,250.00                         | 12,142.12             | 10,350.00             | 10,056.38             | 45.35            | 38.28         | 0.02                  | 307.99                              | -904.66      | 2,128.96               | 2,094.59                | 34.37                     | 61.939            |                    |           |
| 12,300.00                         | 12,182.14             | 10,375.47             | 10,061.92             | 45.45            | 38.30         | 0.02                  | 332.85                              | -904.90      | 2,161.74               | 2,127.29                | 34.44                     | 62.764            |                    |           |
| 12,350.00                         | 12,219.38             | 10,400.00             | 10,066.20             | 45.53            | 38.33         | 0.02                  | 357.00                              | -905.14      | 2,192.32               | 2,157.83                | 34.49                     | 63.569            |                    |           |
| 12,400.00                         | 12,253.58             | 10,400.00             | 10,066.20             | 45.60            | 38.33         | 0.02                  | 357.00                              | -905.14      | 2,219.42               | 2,185.06                | 34.36                     | 64.589            |                    |           |
| 12,450.00                         | 12,284.48             | 10,400.00             | 10,066.20             | 45.65            | 38.33         | 0.02                  | 357.00                              | -905.14      | 2,243.61               | 2,209.37                | 34.25                     | 65.513            |                    |           |
| 12,500.00                         | 12,311.83             | 10,400.00             | 10,066.20             | 45.70            | 38.33         | 0.02                  | 357.00                              | -905.14      | 2,264.80               | 2,230.66                | 34.14                     | 66.333            |                    |           |
| 12,550.00                         | 12,335.43             | 10,400.00             | 10,066.20             | 45.74            | 38.33         | 0.01                  | 357.00                              | -905.14      | 2,282.91               | 2,248.85                | 34.06                     | 67.026            |                    |           |
| 12,600.00                         | 12,355.10             | 10,429.48             | 10,069.98             | 45.77            | 38.37         | 0.01                  | 386.23                              | -905.44      | 2,296.94               | 2,262.83                | 34.11                     | 67.347            |                    |           |
| 12,650.00                         | 12,370.69             | 10,450.00             | 10,071.72             | 45.81            | 38.40         | 0.01                  | 406.67                              | -905.64      | 2,308.12               | 2,274.00                | 34.12                     | 67.654            |                    |           |
| 12,700.00                         | 12,382.08             | 10,450.00             | 10,071.72             | 45.84            | 38.40         | 0.01                  | 406.67                              | -905.64      | 2,315.59               | 2,281.53                | 34.07                     | 67.972            |                    |           |
| 12,750.00                         | 12,389.19             | 10,450.00             | 10,071.72             | 45.89            | 38.40         | 0.01                  | 406.67                              | -905.64      | 2,319.80               | 2,285.76                | 34.05                     | 68.138            |                    |           |
| 12,800.00                         | 12,391.96             | 10,468.78             | 10,072.66             | 45.94            | 38.43         | 0.01                  | 425.42                              | -905.82      | 2,320.35               | 2,286.26                | 34.09                     | 68.064            |                    |           |
| 12,806.75                         | 12,392.00             | 10,470.11             | 10,072.71             | 45.95            | 38.43         | 0.01                  | 426.76                              | -905.84      | 2,320.17               | 2,286.07                | 34.09                     | 68.054            |                    |           |
| 12,900.00                         | 12,392.00             | 10,489.54             | 10,073.00             | 46.10            | 38.46         | 0.01                  | 446.18                              | -906.03      | 2,318.70               | 2,284.49                | 34.21                     | 67.783            |                    |           |
| 13,000.00                         | 12,392.00             | 10,589.54             | 10,073.00             | 46.33            | 38.67         | 0.01                  | 546.18                              | -907.03      | 2,318.70               | 2,284.23                | 34.47                     | 67.275            |                    |           |
| 13,100.00                         | 12,392.00             | 10,689.54             | 10,073.00             | 46.63            | 38.98         | 0.01                  | 646.17                              | -908.02      | 2,318.70               | 2,283.94                | 34.76                     | 66.712            |                    |           |
| 13,200.00                         | 12,392.00             | 10,789.54             | 10,073.00             | 47.00            | 39.36         | 0.01                  | 746.17                              | -909.01      | 2,318.70               | 2,283.62                | 35.08                     | 66.097            |                    |           |
| 13,300.00                         | 12,392.00             | 10,889.54             | 10,073.00             | 47.44            | 39.83         | 0.01                  | 846.16                              | -910.01      | 2,318.70               | 2,283.26                | 35.44                     | 65.434            |                    |           |
| 13,400.00                         | 12,392.00             | 10,989.54             | 10,073.00             | 47.95            | 40.38         | 0.01                  | 946.16                              | -911.00      | 2,318.70               | 2,282.88                | 35.82                     | 64.728            |                    |           |
| 13,500.00                         | 12,392.00             | 11,089.54             | 10,073.00             | 48.51            | 41.00         | 0.01                  | 1,046.15                            | -912.00      | 2,318.70               | 2,282.46                | 36.24                     | 63.984            |                    |           |
| 13,600.00                         | 12,392.00             | 11,189.54             | 10,073.00             | 49.13            | 41.67         | 0.01                  | 1,146.15                            | -912.99      | 2,318.70               | 2,282.02                | 36.68                     | 63.208            |                    |           |
| 13,700.00                         | 12,392.00             | 11,289.54             | 10,073.00             | 49.79            | 42.41         | 0.01                  | 1,246.14                            | -913.98      | 2,318.70               | 2,281.54                | 37.16                     | 62.403            |                    |           |
| 13,800.00                         | 12,392.00             | 11,389.54             | 10,073.00             | 50.51            | 43.20         | 0.01                  | 1,346.14                            | -914.98      | 2,318.70               | 2,281.04                | 37.66                     | 61.575            |                    |           |
| 13,900.00                         | 12,392.00             | 11,489.54             | 10,073.00             | 51.27            | 44.04         | 0.01                  | 1,446.13                            | -915.97      | 2,318.70               | 2,280.52                | 38.18                     | 60.727            |                    |           |
| 14,000.00                         | 12,392.00             | 11,589.54             | 10,073.00             | 52.07            | 44.93         | 0.01                  | 1,546.13                            | -916.97      | 2,318.70               | 2,279.97                | 38.73                     | 59.865            |                    |           |
| 14,100.00                         | 12,392.00             | 11,689.54             | 10,073.00             | 52.91            | 45.86         | 0.01                  | 1,646.12                            | -917.96      | 2,318.70               | 2,279.39                | 39.31                     | 58.991            |                    |           |
| 14,200.00                         | 12,392.00             | 11,789.54             | 10,073.00             | 53.79            | 46.83         | 0.01                  | 1,746.12                            | -918.95      | 2,318.70               | 2,278.80                | 39.90                     | 58.109            |                    |           |
| 14,300.00                         | 12,392.00             | 11,889.54             | 10,073.00             | 54.70            | 47.84         | 0.01                  | 1,846.11                            | -919.95      | 2,318.70               | 2,278.18                | 40.52                     | 57.222            |                    |           |
| 14,400.00                         | 12,392.00             | 11,989.54             | 10,073.00             | 55.65            | 48.89         | 0.01                  | 1,946.11                            | -920.94      | 2,318.70               | 2,277.54                | 41.16                     | 56.334            |                    |           |
| 14,500.00                         | 12,392.00             | 12,089.54             | 10,073.00             | 56.64            | 49.97         | 0.01                  | 2,046.10                            | -921.94      | 2,318.70               | 2,276.88                | 41.82                     | 55.447            |                    |           |
| 14,600.00                         | 12,392.00             | 12,189.54             | 10,073.00             | 57.65            | 51.07         | 0.01                  | 2,146.10                            | -922.93      | 2,318.70               | 2,276.20                | 42.50                     | 54.563            |                    |           |
| 14,700.00                         | 12,392.00             | 12,289.54             | 10,073.00             | 58.69            | 52.21         | 0.01                  | 2,246.09                            | -923.92      | 2,318.70               | 2,275.51                | 43.19                     | 53.685            |                    |           |
| 14,800.00                         | 12,392.00             | 12,389.54             | 10,073.00             | 59.76            | 53.38         | 0.01                  | 2,346.09                            | -924.92      | 2,318.70               | 2,274.80                | 43.90                     | 52.814            |                    |           |
| 14,900.00                         | 12,392.00             | 12,489.54             | 10,073.00             | 60.86            | 54.57         | 0.01                  | 2,446.08                            | -925.91      | 2,318.70               | 2,274.07                | 44.63                     | 51.952            |                    |           |
| 15,000.00                         | 12,392.00             | 12,589.54             | 10,073.00             | 61.98            | 55.78         | 0.01                  | 2,546.08                            | -926.91      | 2,318.70               | 2,273.32                | 45.38                     | 51.100            |                    |           |
| 15,100.00                         | 12,392.00             | 12,689.54             | 10,073.00             | 63.12            | 57.01         | 0.01                  | 2,646.07                            | -927.90      | 2,318.70               | 2,272.57                | 46.13                     | 50.259            |                    |           |
| 15,200.00                         | 12,392.00             | 12,789.54             | 10,073.00             | 64.29            | 58.27         | 0.01                  | 2,746.07                            | -928.89      | 2,318.70               | 2,271.79                | 46.91                     | 49.431            |                    |           |
| 15,300.00                         | 12,392.00             | 12,889.54             | 10,073.00             | 65.47            | 59.54         | 0.01                  | 2,846.06                            | -929.89      | 2,318.70               | 2,271.01                | 47.69                     | 48.617            |                    |           |
| 15,400.00                         | 12,392.00             | 12,989.54             | 10,073.00             | 66.68            | 60.84         | 0.01                  | 2,946.06                            | -930.88      | 2,318.70               | 2,270.21                | 48.49                     | 47.816            |                    |           |
| 15,500.00                         | 12,392.00             | 13,089.54             | 10,073.00             | 67.90            | 62.15         | 0.01                  | 3,046.05                            | -931.88      | 2,318.70               | 2,269.40                | 49.30                     | 47.030            |                    |           |
| 15,600.00                         | 12,392.00             | 13,189.54             | 10,073.00             | 69.15            | 63.47         | 0.01                  | 3,146.05                            | -932.87      | 2,318.70               | 2,268.57                | 50.13                     | 46.258            |                    |           |
| 15,700.00                         | 12,392.00             | 13,289.54             | 10,073.00             | 70.41            | 64.81         | 0.01                  | 3,246.04                            | -933.86      | 2,318.70               | 2,267.74                | 50.96                     | 45.502            |                    |           |
| 15,800.00                         | 12,392.00             | 13,389.54             | 10,073.00             | 71.68            | 66.17         | 0.01                  | 3,346.04                            | -934.86      | 2,318.70               | 2,266.90                | 51.80                     | 44.761            |                    |           |
| 15,900.00                         | 12,392.00             | 13,489.54             | 10,073.00             | 72.97            | 67.54         | 0.01                  | 3,446.03                            | -935.85      | 2,318.70               | 2,266.04                | 52.66                     | 44.035            |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   | Warning            |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 16,000.00                         | 12,392.00             | 13,589.54             | 10,073.00             | 74.28            | 68.92         | 0.01                  | 3,546.03                            | -936.85      | 2,318.70               | 2,265.18                | 53.52                     | 43.325            |                    |           |
| 16,100.00                         | 12,392.00             | 13,689.54             | 10,073.00             | 75.60            | 70.31         | 0.01                  | 3,646.02                            | -937.84      | 2,318.70               | 2,264.31                | 54.39                     | 42.631            |                    |           |
| 16,200.00                         | 12,392.00             | 13,789.54             | 10,073.00             | 76.93            | 71.71         | 0.01                  | 3,746.02                            | -938.83      | 2,318.70               | 2,263.43                | 55.27                     | 41.952            |                    |           |
| 16,300.00                         | 12,392.00             | 13,889.54             | 10,073.00             | 78.27            | 73.12         | 0.01                  | 3,846.01                            | -939.83      | 2,318.70               | 2,262.54                | 56.16                     | 41.288            |                    |           |
| 16,400.00                         | 12,392.00             | 13,989.54             | 10,073.00             | 79.63            | 74.55         | 0.01                  | 3,946.01                            | -940.82      | 2,318.70               | 2,261.64                | 57.06                     | 40.640            |                    |           |
| 16,500.00                         | 12,392.00             | 14,089.54             | 10,073.00             | 80.99            | 75.98         | 0.01                  | 4,046.00                            | -941.82      | 2,318.70               | 2,260.74                | 57.96                     | 40.006            |                    |           |
| 16,600.00                         | 12,392.00             | 14,189.54             | 10,073.00             | 82.37            | 77.42         | 0.01                  | 4,146.00                            | -942.81      | 2,318.70               | 2,259.83                | 58.87                     | 39.387            |                    |           |
| 16,700.00                         | 12,392.00             | 14,289.54             | 10,073.00             | 83.75            | 78.87         | 0.01                  | 4,246.00                            | -943.80      | 2,318.70               | 2,258.91                | 59.79                     | 38.783            |                    |           |
| 16,800.00                         | 12,392.00             | 14,389.54             | 10,073.00             | 85.15            | 80.33         | 0.01                  | 4,345.99                            | -944.80      | 2,318.70               | 2,257.99                | 60.71                     | 38.192            |                    |           |
| 16,900.00                         | 12,392.00             | 14,489.54             | 10,073.00             | 86.56            | 81.79         | 0.01                  | 4,445.99                            | -945.79      | 2,318.70               | 2,257.06                | 61.64                     | 37.616            |                    |           |
| 17,000.00                         | 12,392.00             | 14,589.54             | 10,073.00             | 87.97            | 83.27         | 0.01                  | 4,545.98                            | -946.79      | 2,318.70               | 2,256.12                | 62.58                     | 37.054            |                    |           |
| 17,100.00                         | 12,392.00             | 14,689.54             | 10,073.00             | 89.39            | 84.74         | 0.01                  | 4,645.98                            | -947.78      | 2,318.70               | 2,255.18                | 63.52                     | 36.504            |                    |           |
| 17,200.00                         | 12,392.00             | 14,789.54             | 10,073.00             | 90.82            | 86.23         | 0.01                  | 4,745.97                            | -948.77      | 2,318.70               | 2,254.23                | 64.47                     | 35.968            |                    |           |
| 17,300.00                         | 12,392.00             | 14,889.54             | 10,073.00             | 92.26            | 87.72         | 0.01                  | 4,845.97                            | -949.77      | 2,318.70               | 2,253.28                | 65.42                     | 35.445            |                    |           |
| 17,400.00                         | 12,392.00             | 14,989.54             | 10,073.00             | 93.70            | 89.21         | 0.01                  | 4,945.96                            | -950.76      | 2,318.70               | 2,252.33                | 66.37                     | 34.934            |                    |           |
| 17,500.00                         | 12,392.00             | 15,089.54             | 10,073.00             | 95.15            | 90.72         | 0.01                  | 5,045.96                            | -951.76      | 2,318.70               | 2,251.36                | 67.34                     | 34.435            |                    |           |
| 17,600.00                         | 12,392.00             | 15,189.54             | 10,073.00             | 96.61            | 92.22         | 0.01                  | 5,145.95                            | -952.75      | 2,318.70               | 2,250.40                | 68.30                     | 33.948            |                    |           |
| 17,700.00                         | 12,392.00             | 15,289.54             | 10,073.00             | 98.07            | 93.74         | 0.01                  | 5,245.95                            | -953.74      | 2,318.70               | 2,249.43                | 69.27                     | 33.472            |                    |           |
| 17,800.00                         | 12,392.00             | 15,389.54             | 10,073.00             | 99.54            | 95.25         | 0.01                  | 5,345.94                            | -954.74      | 2,318.70               | 2,248.45                | 70.25                     | 33.008            |                    |           |
| 17,900.00                         | 12,392.00             | 15,489.54             | 10,073.00             | 101.02           | 96.77         | 0.01                  | 5,445.94                            | -955.73      | 2,318.70               | 2,247.47                | 71.23                     | 32.554            |                    |           |
| 18,000.00                         | 12,392.00             | 15,589.54             | 10,073.00             | 102.50           | 98.30         | 0.01                  | 5,545.93                            | -956.73      | 2,318.70               | 2,246.49                | 72.21                     | 32.112            |                    |           |
| 18,100.00                         | 12,392.00             | 15,689.54             | 10,073.00             | 103.98           | 99.83         | 0.01                  | 5,645.93                            | -957.72      | 2,318.70               | 2,245.51                | 73.19                     | 31.679            |                    |           |
| 18,200.00                         | 12,392.00             | 15,789.54             | 10,073.00             | 105.47           | 101.36        | 0.01                  | 5,745.92                            | -958.71      | 2,318.70               | 2,244.52                | 74.18                     | 31.256            |                    |           |
| 18,300.00                         | 12,392.00             | 15,889.54             | 10,073.00             | 106.97           | 102.90        | 0.01                  | 5,845.92                            | -959.71      | 2,318.70               | 2,243.52                | 75.18                     | 30.844            |                    |           |
| 18,400.00                         | 12,392.00             | 15,989.54             | 10,073.00             | 108.47           | 104.44        | 0.01                  | 5,945.91                            | -960.70      | 2,318.70               | 2,242.53                | 76.17                     | 30.440            |                    |           |
| 18,500.00                         | 12,392.00             | 16,089.54             | 10,073.00             | 109.97           | 105.98        | 0.01                  | 6,045.91                            | -961.70      | 2,318.70               | 2,241.53                | 77.17                     | 30.046            |                    |           |
| 18,600.00                         | 12,392.00             | 16,189.54             | 10,073.00             | 111.48           | 107.53        | 0.01                  | 6,145.90                            | -962.69      | 2,318.70               | 2,240.53                | 78.17                     | 29.661            |                    |           |
| 18,700.00                         | 12,392.00             | 16,289.54             | 10,073.00             | 112.99           | 109.08        | 0.01                  | 6,245.90                            | -963.68      | 2,318.70               | 2,239.52                | 79.18                     | 29.285            |                    |           |
| 18,800.00                         | 12,392.00             | 16,389.54             | 10,073.00             | 114.51           | 110.63        | 0.01                  | 6,345.89                            | -964.68      | 2,318.70               | 2,238.51                | 80.19                     | 28.917            |                    |           |
| 18,900.00                         | 12,392.00             | 16,489.54             | 10,073.00             | 116.03           | 112.18        | 0.01                  | 6,445.89                            | -965.67      | 2,318.70               | 2,237.50                | 81.20                     | 28.557            |                    |           |
| 19,000.00                         | 12,392.00             | 16,589.54             | 10,073.00             | 117.55           | 113.74        | 0.01                  | 6,545.88                            | -966.67      | 2,318.70               | 2,236.49                | 82.21                     | 28.205            |                    |           |
| 19,100.00                         | 12,392.00             | 16,689.54             | 10,073.00             | 119.08           | 115.30        | 0.00                  | 6,645.88                            | -967.66      | 2,318.70               | 2,235.48                | 83.23                     | 27.861            |                    |           |
| 19,200.00                         | 12,392.00             | 16,789.54             | 10,073.00             | 120.61           | 116.87        | 0.00                  | 6,745.87                            | -968.65      | 2,318.70               | 2,234.46                | 84.24                     | 27.524            |                    |           |
| 19,300.00                         | 12,392.00             | 16,889.54             | 10,073.00             | 122.14           | 118.43        | 0.00                  | 6,845.87                            | -969.65      | 2,318.70               | 2,233.44                | 85.26                     | 27.195            |                    |           |
| 19,400.00                         | 12,392.00             | 16,989.54             | 10,073.00             | 123.68           | 120.00        | 0.00                  | 6,945.86                            | -970.64      | 2,318.70               | 2,232.41                | 86.29                     | 26.872            |                    |           |
| 19,500.00                         | 12,392.00             | 17,089.54             | 10,073.00             | 125.22           | 121.57        | 0.00                  | 7,045.86                            | -971.64      | 2,318.70               | 2,231.39                | 87.31                     | 26.557            |                    |           |
| 19,600.00                         | 12,392.00             | 17,189.54             | 10,073.00             | 126.76           | 123.14        | 0.00                  | 7,145.85                            | -972.63      | 2,318.70               | 2,230.36                | 88.34                     | 26.248            |                    |           |
| 19,700.00                         | 12,392.00             | 17,289.54             | 10,073.00             | 128.31           | 124.72        | 0.00                  | 7,245.85                            | -973.62      | 2,318.70               | 2,229.33                | 89.37                     | 25.946            |                    |           |
| 19,800.00                         | 12,392.00             | 17,389.54             | 10,073.00             | 129.85           | 126.30        | 0.00                  | 7,345.84                            | -974.62      | 2,318.70               | 2,228.30                | 90.40                     | 25.651            |                    |           |
| 19,900.00                         | 12,392.00             | 17,489.54             | 10,073.00             | 131.40           | 127.87        | 0.00                  | 7,445.84                            | -975.61      | 2,318.70               | 2,227.27                | 91.43                     | 25.361            |                    |           |
| 20,000.00                         | 12,392.00             | 17,589.54             | 10,073.00             | 132.96           | 129.45        | 0.00                  | 7,545.83                            | -976.61      | 2,318.70               | 2,226.24                | 92.46                     | 25.077            |                    |           |
| 20,100.00                         | 12,392.00             | 17,689.54             | 10,073.00             | 134.51           | 131.04        | 0.00                  | 7,645.83                            | -977.60      | 2,318.70               | 2,225.20                | 93.50                     | 24.799            |                    |           |
| 20,200.00                         | 12,392.00             | 17,789.54             | 10,073.00             | 136.07           | 132.62        | 0.00                  | 7,745.82                            | -978.59      | 2,318.70               | 2,224.16                | 94.54                     | 24.527            |                    |           |
| 20,300.00                         | 12,392.00             | 17,889.54             | 10,073.00             | 137.63           | 134.21        | 0.00                  | 7,845.82                            | -979.59      | 2,318.70               | 2,223.13                | 95.57                     | 24.261            |                    |           |
| 20,400.00                         | 12,392.00             | 17,989.54             | 10,073.00             | 139.19           | 135.79        | 0.00                  | 7,945.81                            | -980.58      | 2,318.70               | 2,222.08                | 96.62                     | 23.999            |                    |           |
| 20,500.00                         | 12,392.00             | 18,089.54             | 10,073.00             | 140.75           | 137.38        | 0.00                  | 8,045.81                            | -981.58      | 2,318.70               | 2,221.04                | 97.66                     | 23.743            |                    |           |
| 20,600.00                         | 12,392.00             | 18,189.54             | 10,073.00             | 142.32           | 138.97        | 0.00                  | 8,145.80                            | -982.57      | 2,318.70               | 2,220.00                | 98.70                     | 23.492            |                    |           |
| 20,700.00                         | 12,392.00             | 18,289.54             | 10,073.00             | 143.89           | 140.56        | 0.00                  | 8,245.80                            | -983.56      | 2,318.70               | 2,218.95                | 99.75                     | 23.246            |                    |           |
| 20,800.00                         | 12,392.00             | 18,389.54             | 10,073.00             | 145.46           | 142.16        | 0.00                  | 8,345.79                            | -984.56      | 2,318.70               | 2,217.91                | 100.79                    | 23.004            |                    |           |
| 20,900.00                         | 12,392.00             | 18,489.54             | 10,073.00             | 147.03           | 143.75        | 0.00                  | 8,445.79                            | -985.55      | 2,318.70               | 2,216.86                | 101.84                    | 22.768            |                    |           |
| 21,000.00                         | 12,392.00             | 18,589.54             | 10,073.00             | 148.60           | 145.35        | 0.00                  | 8,545.78                            | -986.55      | 2,318.70               | 2,215.81                | 102.89                    | 22.536            |                    |           |
| 21,100.00                         | 12,392.00             | 18,689.54             | 10,073.00             | 150.18           | 146.94        | 0.00                  | 8,645.78                            | -987.54      | 2,318.70               | 2,214.76                | 103.94                    | 22.308            |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

|                                               |                              |                              |                              |                         |                      |                              |                                            |                     |                               |                                |                                  |                           |                |
|-----------------------------------------------|------------------------------|------------------------------|------------------------------|-------------------------|----------------------|------------------------------|--------------------------------------------|---------------------|-------------------------------|--------------------------------|----------------------------------|---------------------------|----------------|
| <b>Offset Design</b>                          |                              |                              |                              |                         |                      |                              |                                            |                     |                               |                                |                                  | <b>Offset Site Error:</b> | 0.00 usft      |
| FMM Fed Com - FMM Fed Com 301H - OH - Plan #1 |                              |                              |                              |                         |                      |                              |                                            |                     |                               |                                |                                  | <b>Offset Well Error:</b> | 0.00 usft      |
| Survey Program: 0-OWSG (Rev2) MWD             |                              |                              |                              |                         |                      |                              |                                            |                     |                               |                                |                                  |                           |                |
| <b>Reference</b>                              |                              | <b>Offset</b>                |                              | <b>Semi Major Axis</b>  |                      | <b>Distance</b>              |                                            |                     |                               |                                |                                  |                           |                |
| <b>Measured Depth (usft)</b>                  | <b>Vertical Depth (usft)</b> | <b>Measured Depth (usft)</b> | <b>Vertical Depth (usft)</b> | <b>Reference (usft)</b> | <b>Offset (usft)</b> | <b>Highside Toolface (°)</b> | <b>Offset Wellbore Centre +N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Between Centres (usft)</b> | <b>Between Ellipses (usft)</b> | <b>Minimum Separation (usft)</b> | <b>Separation Factor</b>  | <b>Warning</b> |
| 21,200.00                                     | 12,392.00                    | 18,789.54                    | 10,073.00                    | 151.75                  | 148.54               | 0.00                         | 8,745.77                                   | -988.53             | 2,318.70                      | 2,213.71                       | 104.99                           | 22.084                    |                |
| 21,300.00                                     | 12,392.00                    | 18,889.54                    | 10,073.00                    | 153.33                  | 150.14               | 0.00                         | 8,845.77                                   | -989.53             | 2,318.70                      | 2,212.65                       | 106.05                           | 21.865                    |                |
| 21,400.00                                     | 12,392.00                    | 18,989.54                    | 10,073.00                    | 154.91                  | 151.74               | 0.00                         | 8,945.76                                   | -990.52             | 2,318.70                      | 2,211.60                       | 107.10                           | 21.650                    |                |
| 21,500.00                                     | 12,392.00                    | 19,089.54                    | 10,073.00                    | 156.49                  | 153.34               | 0.00                         | 9,045.76                                   | -991.52             | 2,318.70                      | 2,210.54                       | 108.16                           | 21.439                    |                |
| 21,600.00                                     | 12,392.00                    | 19,189.54                    | 10,073.00                    | 158.07                  | 154.94               | 0.00                         | 9,145.75                                   | -992.51             | 2,318.70                      | 2,209.49                       | 109.21                           | 21.231                    |                |
| 21,700.00                                     | 12,392.00                    | 19,289.54                    | 10,073.00                    | 159.66                  | 156.55               | 0.00                         | 9,245.75                                   | -993.50             | 2,318.70                      | 2,208.43                       | 110.27                           | 21.028                    |                |
| 21,800.00                                     | 12,392.00                    | 19,389.54                    | 10,073.00                    | 161.24                  | 158.15               | 0.00                         | 9,345.74                                   | -994.50             | 2,318.70                      | 2,207.37                       | 111.33                           | 20.828                    |                |
| 21,900.00                                     | 12,392.00                    | 19,489.54                    | 10,073.00                    | 162.83                  | 159.76               | 0.00                         | 9,445.74                                   | -995.49             | 2,318.70                      | 2,206.31                       | 112.39                           | 20.631                    |                |
| 22,000.00                                     | 12,392.00                    | 19,589.54                    | 10,073.00                    | 164.42                  | 161.36               | 0.00                         | 9,545.73                                   | -996.49             | 2,318.70                      | 2,205.25                       | 113.45                           | 20.439                    |                |
| 22,100.00                                     | 12,392.00                    | 19,689.54                    | 10,073.00                    | 166.01                  | 162.97               | 0.00                         | 9,645.73                                   | -997.48             | 2,318.70                      | 2,204.19                       | 114.51                           | 20.249                    |                |
| 22,200.00                                     | 12,392.00                    | 19,789.54                    | 10,073.00                    | 167.60                  | 164.58               | 0.00                         | 9,745.72                                   | -998.47             | 2,318.70                      | 2,203.13                       | 115.57                           | 20.063                    |                |
| 22,300.00                                     | 12,392.00                    | 19,889.54                    | 10,073.00                    | 169.19                  | 166.19               | 0.00                         | 9,845.72                                   | -999.47             | 2,318.70                      | 2,202.07                       | 116.63                           | 19.880                    |                |
| 22,400.00                                     | 12,392.00                    | 19,989.54                    | 10,073.00                    | 170.78                  | 167.80               | 0.00                         | 9,945.71                                   | -1,000.46           | 2,318.70                      | 2,201.00                       | 117.70                           | 19.701                    |                |
| 22,500.00                                     | 12,392.00                    | 20,089.54                    | 10,073.00                    | 172.37                  | 169.41               | 0.00                         | 10,045.71                                  | -1,001.46           | 2,318.70                      | 2,199.94                       | 118.76                           | 19.524                    |                |
| 22,564.40                                     | 12,392.00                    | 20,153.94                    | 10,073.00                    | 173.40                  | 170.45               | 0.00                         | 10,110.10                                  | -1,002.10           | 2,318.70                      | 2,199.25                       | 119.45                           | 19.412                    |                |
| 22,595.91                                     | 12,392.00                    | 20,185.45                    | 10,073.00                    | 173.90                  | 170.96               | 0.00                         | 10,141.61                                  | -1,002.41           | 2,318.70                      | 2,198.92                       | 119.78                           | 19.357                    |                |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | FMM Fed Com - FMM Fed Com 302H - OH - Plan #1 |           | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|-----------------------------------------------|-----------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error:                            | 0.00 usft |                    |           |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                                               | Warning   |                    |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                                               |           |                    |           |
| 1,843.00                          | 1,843.00              | 1,844.40              | 1,844.40              | 6.37             | 6.38          | 39.29                 | 75.53                               | 61.81        | 97.59                  | 88.58                   | 9.02                      | 10.823            |                                               |           |                    |           |
| 1,900.00                          | 1,900.00              | 1,901.40              | 1,901.40              | 6.58             | 6.58          | 39.29                 | 75.53                               | 61.81        | 97.59                  | 88.29                   | 9.31                      | 10.487            |                                               |           |                    |           |
| 1,916.19                          | 1,916.19              | 1,917.59              | 1,917.59              | 6.64             | 6.64          | 39.29                 | 75.53                               | 61.81        | 97.59                  | 88.21                   | 9.39                      | 10.395            | CC                                            |           |                    |           |
| 2,000.00                          | 2,000.00              | 2,001.39              | 2,001.39              | 6.94             | 6.94          | 39.29                 | 75.53                               | 61.81        | 97.59                  | 87.78                   | 9.81                      | 9.945             | ES                                            |           |                    |           |
| 2,100.00                          | 2,099.99              | 2,100.85              | 2,100.84              | 7.28             | 7.28          | 144.23                | 74.90                               | 62.98        | 98.91                  | 88.61                   | 10.30                     | 9.602             |                                               |           |                    |           |
| 2,200.00                          | 2,199.91              | 2,200.00              | 2,199.91              | 7.62             | 7.62          | 147.58                | 73.04                               | 66.41        | 103.11                 | 92.33                   | 10.77                     | 9.570             | SF                                            |           |                    |           |
| 2,300.00                          | 2,299.69              | 2,298.36              | 2,298.06              | 7.97             | 7.95          | 152.53                | 69.99                               | 72.05        | 110.80                 | 99.55                   | 11.25                     | 9.852             |                                               |           |                    |           |
| 2,400.00                          | 2,399.27              | 2,395.72              | 2,395.01              | 8.31             | 8.28          | 158.28                | 65.78                               | 79.82        | 122.75                 | 111.03                  | 11.72                     | 10.478            |                                               |           |                    |           |
| 2,500.00                          | 2,498.57              | 2,492.02              | 2,490.67              | 8.66             | 8.62          | 164.12                | 60.49                               | 89.61        | 139.54                 | 127.36                  | 12.18                     | 11.458            |                                               |           |                    |           |
| 2,600.00                          | 2,597.54              | 2,588.89              | 2,586.79              | 9.02             | 8.96          | 169.16                | 54.75                               | 100.20       | 160.55                 | 147.90                  | 12.65                     | 12.693            |                                               |           |                    |           |
| 2,700.00                          | 2,696.09              | 2,685.12              | 2,682.27              | 9.39             | 9.31          | 173.13                | 49.06                               | 110.73       | 185.04                 | 171.92                  | 13.12                     | 14.104            |                                               |           |                    |           |
| 2,762.60                          | 2,757.54              | 2,745.00              | 2,741.68              | 9.63             | 9.52          | 175.16                | 45.52                               | 117.28       | 202.01                 | 188.59                  | 13.41                     | 15.058            |                                               |           |                    |           |
| 2,800.00                          | 2,794.20              | 2,780.69              | 2,777.10              | 9.77             | 9.65          | 176.23                | 43.41                               | 121.18       | 212.54                 | 198.95                  | 13.59                     | 15.638            |                                               |           |                    |           |
| 2,900.00                          | 2,892.21              | 2,876.12              | 2,871.78              | 10.17            | 10.00         | 178.65                | 37.76                               | 131.61       | 240.99                 | 226.93                  | 14.06                     | 17.136            |                                               |           |                    |           |
| 3,000.00                          | 2,990.23              | 2,971.54              | 2,966.46              | 10.56            | 10.35         | -179.44               | 32.11                               | 142.05       | 269.76                 | 255.22                  | 14.54                     | 18.555            |                                               |           |                    |           |
| 3,100.00                          | 3,088.24              | 3,066.97              | 3,061.15              | 10.97            | 10.71         | -177.90               | 26.47                               | 152.49       | 298.74                 | 283.73                  | 15.02                     | 19.893            |                                               |           |                    |           |
| 3,200.00                          | 3,186.26              | 3,162.39              | 3,155.83              | 11.38            | 11.07         | -176.63               | 20.82                               | 162.92       | 327.90                 | 312.40                  | 15.50                     | 21.156            |                                               |           |                    |           |
| 3,300.00                          | 3,284.27              | 3,257.82              | 3,250.52              | 11.80            | 11.43         | -175.56               | 15.17                               | 173.36       | 357.17                 | 341.19                  | 15.98                     | 22.346            |                                               |           |                    |           |
| 3,400.00                          | 3,382.28              | 3,353.24              | 3,345.20              | 12.22            | 11.79         | -174.66               | 9.53                                | 183.79       | 386.54                 | 370.07                  | 16.47                     | 23.469            |                                               |           |                    |           |
| 3,500.00                          | 3,480.30              | 3,448.67              | 3,439.89              | 12.65            | 12.15         | -173.88               | 3.88                                | 194.23       | 415.99                 | 399.03                  | 16.96                     | 24.528            |                                               |           |                    |           |
| 3,600.00                          | 3,578.31              | 3,544.09              | 3,534.57              | 13.08            | 12.52         | -173.21               | -1.76                               | 204.66       | 445.50                 | 428.05                  | 17.45                     | 25.528            |                                               |           |                    |           |
| 3,700.00                          | 3,676.32              | 3,639.51              | 3,629.25              | 13.51            | 12.89         | -172.62               | -7.41                               | 215.10       | 475.06                 | 457.11                  | 17.94                     | 26.473            |                                               |           |                    |           |
| 3,800.00                          | 3,774.34              | 3,734.94              | 3,723.94              | 13.95            | 13.25         | -172.10               | -13.06                              | 225.54       | 504.65                 | 486.21                  | 18.44                     | 27.368            |                                               |           |                    |           |
| 3,900.00                          | 3,872.35              | 3,830.36              | 3,818.62              | 14.39            | 13.62         | -171.64               | -18.70                              | 235.97       | 534.28                 | 515.35                  | 18.94                     | 28.214            |                                               |           |                    |           |
| 4,000.00                          | 3,970.37              | 3,925.79              | 3,913.31              | 14.83            | 14.00         | -171.22               | -24.35                              | 246.41       | 563.94                 | 544.51                  | 19.43                     | 29.017            |                                               |           |                    |           |
| 4,100.00                          | 4,068.38              | 4,021.21              | 4,007.99              | 15.28            | 14.37         | -170.85               | -29.99                              | 256.84       | 593.63                 | 573.69                  | 19.93                     | 29.779            |                                               |           |                    |           |
| 4,200.00                          | 4,166.39              | 4,116.64              | 4,102.68              | 15.72            | 14.74         | -170.51               | -35.64                              | 267.28       | 623.33                 | 602.90                  | 20.44                     | 30.502            |                                               |           |                    |           |
| 4,300.00                          | 4,264.41              | 4,212.06              | 4,197.36              | 16.17            | 15.12         | -170.21               | -41.29                              | 277.71       | 653.06                 | 632.12                  | 20.94                     | 31.190            |                                               |           |                    |           |
| 4,400.00                          | 4,362.42              | 4,307.49              | 4,292.04              | 16.63            | 15.49         | -169.93               | -46.93                              | 288.15       | 682.79                 | 661.35                  | 21.44                     | 31.845            |                                               |           |                    |           |
| 4,500.00                          | 4,460.43              | 4,402.91              | 4,386.73              | 17.08            | 15.87         | -169.67               | -52.58                              | 298.58       | 712.55                 | 690.60                  | 21.95                     | 32.468            |                                               |           |                    |           |
| 4,600.00                          | 4,558.45              | 4,498.34              | 4,481.41              | 17.54            | 16.24         | -169.43               | -58.23                              | 309.02       | 742.31                 | 719.86                  | 22.45                     | 33.063            |                                               |           |                    |           |
| 4,700.00                          | 4,656.46              | 4,593.76              | 4,576.10              | 17.99            | 16.62         | -169.22               | -63.87                              | 319.46       | 772.09                 | 749.13                  | 22.96                     | 33.631            |                                               |           |                    |           |
| 4,800.00                          | 4,754.47              | 4,689.19              | 4,670.78              | 18.45            | 17.00         | -169.01               | -69.52                              | 329.89       | 801.87                 | 778.41                  | 23.47                     | 34.173            |                                               |           |                    |           |
| 4,900.00                          | 4,852.49              | 4,784.61              | 4,765.47              | 18.91            | 17.38         | -168.83               | -75.16                              | 340.33       | 831.66                 | 807.69                  | 23.97                     | 34.691            |                                               |           |                    |           |
| 5,000.00                          | 4,950.50              | 4,880.04              | 4,860.15              | 19.37            | 17.76         | -168.65               | -80.81                              | 350.76       | 861.46                 | 836.98                  | 24.48                     | 35.187            |                                               |           |                    |           |
| 5,100.00                          | 5,048.52              | 4,975.46              | 4,954.83              | 19.83            | 18.14         | -168.49               | -86.46                              | 361.20       | 891.27                 | 866.28                  | 24.99                     | 35.663            |                                               |           |                    |           |
| 5,200.00                          | 5,146.53              | 5,070.89              | 5,049.52              | 20.29            | 18.52         | -168.34               | -92.10                              | 371.63       | 921.08                 | 895.58                  | 25.50                     | 36.118            |                                               |           |                    |           |
| 5,300.00                          | 5,244.54              | 5,166.31              | 5,144.20              | 20.76            | 18.90         | -168.20               | -97.75                              | 382.07       | 950.90                 | 924.89                  | 26.01                     | 36.555            |                                               |           |                    |           |
| 5,400.00                          | 5,342.56              | 5,261.74              | 5,238.89              | 21.22            | 19.28         | -168.06               | -103.39                             | 392.51       | 980.73                 | 954.20                  | 26.52                     | 36.974            |                                               |           |                    |           |
| 5,500.00                          | 5,440.57              | 5,357.16              | 5,333.57              | 21.69            | 19.66         | -167.94               | -109.04                             | 402.94       | 1,010.55               | 983.52                  | 27.04                     | 37.377            |                                               |           |                    |           |
| 5,600.00                          | 5,538.58              | 5,452.59              | 5,428.26              | 22.15            | 20.05         | -167.82               | -114.69                             | 413.38       | 1,040.39               | 1,012.84                | 27.55                     | 37.764            |                                               |           |                    |           |
| 5,700.00                          | 5,636.60              | 5,548.01              | 5,522.94              | 22.62            | 20.43         | -167.70               | -120.33                             | 423.81       | 1,070.22               | 1,042.16                | 28.06                     | 38.136            |                                               |           |                    |           |
| 5,800.00                          | 5,734.61              | 5,643.44              | 5,617.63              | 23.09            | 20.81         | -167.60               | -125.98                             | 434.25       | 1,100.06               | 1,071.49                | 28.58                     | 38.495            |                                               |           |                    |           |
| 5,900.00                          | 5,832.62              | 5,738.86              | 5,712.31              | 23.56            | 21.20         | -167.50               | -131.63                             | 444.68       | 1,129.91               | 1,100.81                | 29.09                     | 38.840            |                                               |           |                    |           |
| 6,000.00                          | 5,930.64              | 5,834.29              | 5,806.99              | 24.02            | 21.58         | -167.40               | -137.27                             | 455.12       | 1,159.75               | 1,130.15                | 29.61                     | 39.173            |                                               |           |                    |           |
| 6,100.00                          | 6,028.65              | 5,929.71              | 5,901.68              | 24.49            | 21.96         | -167.31               | -142.92                             | 465.56       | 1,189.60               | 1,159.48                | 30.12                     | 39.494            |                                               |           |                    |           |
| 6,200.00                          | 6,126.67              | 6,025.14              | 5,996.36              | 24.96            | 22.35         | -167.23               | -148.56                             | 475.99       | 1,219.45               | 1,188.81                | 30.64                     | 39.803            |                                               |           |                    |           |
| 6,300.00                          | 6,224.68              | 6,120.56              | 6,091.05              | 25.43            | 22.73         | -167.14               | -154.21                             | 486.43       | 1,249.31               | 1,218.15                | 31.15                     | 40.102            |                                               |           |                    |           |
| 6,400.00                          | 6,322.69              | 6,215.99              | 6,185.73              | 25.91            | 23.12         | -167.07               | -159.86                             | 496.86       | 1,279.16               | 1,247.49                | 31.67                     | 40.391            |                                               |           |                    |           |
| 6,500.00                          | 6,420.71              | 6,311.41              | 6,280.42              | 26.38            | 23.50         | -166.99               | -165.50                             | 507.30       | 1,309.02               | 1,276.83                | 32.19                     | 40.670            |                                               |           |                    |           |
| 6,600.00                          | 6,518.72              | 6,406.84              | 6,375.10              | 26.85            | 23.89         | -166.92               | -171.15                             | 517.73       | 1,338.88               | 1,306.18                | 32.70                     | 40.939            |                                               |           |                    |           |
| 6,669.11                          | 6,586.46              | 6,472.79              | 6,440.54              | 27.18            | 24.15         | -166.87               | -175.05                             | 524.95       | 1,359.52               | 1,326.46                | 33.06                     | 41.121            |                                               |           |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | FMM Fed Com - FMM Fed Com 302H - OH - Plan #1 |  | Offset Site Error: 0.00 usft |  |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|-----------------------------------------------|--|------------------------------|--|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: 0.00 usft                  |  |                              |  |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                                               |  |                              |  |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning                                       |  |                              |  |
| 6,700.00                          | 6,616.76              | 6,502.30              | 6,469.82              | 27.32            | 24.27         | -166.88               | -176.80                             | 528.17       | 1,368.63               | 1,335.40                | 33.22                     | 41.197            |                                               |  |                              |  |
| 6,800.00                          | 6,715.17              | 6,598.30              | 6,565.08              | 27.78            | 24.66         | -166.90               | -182.48                             | 538.67       | 1,396.51               | 1,362.78                | 33.74                     | 41.392            |                                               |  |                              |  |
| 6,900.00                          | 6,814.01              | 6,694.98              | 6,661.01              | 28.21            | 25.05         | -166.88               | -188.20                             | 549.25       | 1,421.95               | 1,387.69                | 34.26                     | 41.510            |                                               |  |                              |  |
| 7,000.00                          | 6,913.21              | 6,792.25              | 6,757.53              | 28.62            | 25.45         | -166.83               | -193.95                             | 559.88       | 1,444.92               | 1,410.15                | 34.77                     | 41.554            |                                               |  |                              |  |
| 7,100.00                          | 7,012.71              | 6,890.06              | 6,854.57              | 29.01            | 25.84         | -166.75               | -199.74                             | 570.58       | 1,465.40               | 1,430.12                | 35.29                     | 41.529            |                                               |  |                              |  |
| 7,200.00                          | 7,112.43              | 7,033.58              | 6,997.24              | 29.37            | 26.41         | -166.61               | -207.14                             | 584.25       | 1,482.06               | 1,446.04                | 36.03                     | 41.137            |                                               |  |                              |  |
| 7,300.00                          | 7,212.32              | 7,184.53              | 7,147.81              | 29.72            | 26.97         | -166.52               | -212.17                             | 593.55       | 1,492.82               | 1,456.06                | 36.76                     | 40.614            |                                               |  |                              |  |
| 7,400.00                          | 7,312.29              | 7,336.69              | 7,299.89              | 30.04            | 27.50         | -166.48               | -214.37                             | 597.62       | 1,497.57               | 1,460.13                | 37.44                     | 40.004            |                                               |  |                              |  |
| 7,431.71                          | 7,344.00              | 7,385.03              | 7,348.23              | 30.14            | 27.66         | 89.79                 | -214.47                             | 597.80       | 1,497.81               | 1,460.17                | 37.64                     | 39.795            |                                               |  |                              |  |
| 7,435.73                          | 7,348.02              | 7,391.17              | 7,354.37              | 30.15            | 27.68         | 89.79                 | -214.46                             | 597.78       | 1,497.80               | 1,460.14                | 37.66                     | 39.768            |                                               |  |                              |  |
| 7,500.00                          | 7,412.29              | 7,450.49              | 7,413.69              | 30.34            | 27.87         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,459.87                | 37.95                     | 39.469            |                                               |  |                              |  |
| 7,600.00                          | 7,512.29              | 7,550.49              | 7,513.69              | 30.64            | 28.20         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,459.40                | 38.42                     | 38.987            |                                               |  |                              |  |
| 7,700.00                          | 7,612.29              | 7,650.49              | 7,613.69              | 30.94            | 28.52         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,458.93                | 38.89                     | 38.516            |                                               |  |                              |  |
| 7,800.00                          | 7,712.29              | 7,750.49              | 7,713.69              | 31.24            | 28.84         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,458.46                | 39.36                     | 38.055            |                                               |  |                              |  |
| 7,900.00                          | 7,812.29              | 7,850.49              | 7,813.69              | 31.55            | 29.17         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,457.99                | 39.83                     | 37.605            |                                               |  |                              |  |
| 8,000.00                          | 7,912.29              | 7,950.49              | 7,913.69              | 31.85            | 29.49         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,457.51                | 40.30                     | 37.164            |                                               |  |                              |  |
| 8,100.00                          | 8,012.29              | 8,050.49              | 8,013.69              | 32.16            | 29.82         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,457.04                | 40.78                     | 36.732            |                                               |  |                              |  |
| 8,200.00                          | 8,112.29              | 8,150.49              | 8,113.69              | 32.47            | 30.15         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,456.57                | 41.25                     | 36.310            |                                               |  |                              |  |
| 8,300.00                          | 8,212.29              | 8,250.49              | 8,213.69              | 32.78            | 30.47         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,456.09                | 41.73                     | 35.897            |                                               |  |                              |  |
| 8,400.00                          | 8,312.29              | 8,350.49              | 8,313.69              | 33.08            | 30.80         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,455.61                | 42.20                     | 35.492            |                                               |  |                              |  |
| 8,500.00                          | 8,412.29              | 8,450.49              | 8,413.69              | 33.40            | 31.13         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,455.14                | 42.68                     | 35.096            |                                               |  |                              |  |
| 8,600.00                          | 8,512.29              | 8,550.49              | 8,513.69              | 33.71            | 31.46         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,454.66                | 43.16                     | 34.708            |                                               |  |                              |  |
| 8,700.00                          | 8,612.29              | 8,650.49              | 8,613.69              | 34.02            | 31.79         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,454.18                | 43.63                     | 34.327            |                                               |  |                              |  |
| 8,800.00                          | 8,712.29              | 8,750.49              | 8,713.69              | 34.33            | 32.12         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,453.70                | 44.11                     | 33.955            |                                               |  |                              |  |
| 8,900.00                          | 8,812.29              | 8,850.49              | 8,813.69              | 34.65            | 32.45         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,453.23                | 44.59                     | 33.590            |                                               |  |                              |  |
| 9,000.00                          | 8,912.29              | 8,950.49              | 8,913.69              | 34.96            | 32.79         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,452.75                | 45.07                     | 33.233            |                                               |  |                              |  |
| 9,100.00                          | 9,012.29              | 9,050.49              | 9,013.69              | 35.28            | 33.12         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,452.27                | 45.55                     | 32.882            |                                               |  |                              |  |
| 9,200.00                          | 9,112.29              | 9,150.49              | 9,113.69              | 35.59            | 33.45         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,451.78                | 46.03                     | 32.539            |                                               |  |                              |  |
| 9,300.00                          | 9,212.29              | 9,250.49              | 9,213.69              | 35.91            | 33.79         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,451.30                | 46.51                     | 32.202            |                                               |  |                              |  |
| 9,400.00                          | 9,312.29              | 9,350.49              | 9,313.69              | 36.23            | 34.12         | 89.79                 | -214.47                             | 597.81       | 1,497.82               | 1,450.82                | 46.99                     | 31.872            |                                               |  |                              |  |
| 9,500.00                          | 9,412.29              | 9,450.90              | 9,414.09              | 36.55            | 34.46         | 89.77                 | -213.88                             | 597.80       | 1,497.81               | 1,450.33                | 47.48                     | 31.548            |                                               |  |                              |  |
| 9,577.64                          | 9,489.93              | 9,528.70              | 9,491.33              | 36.79            | 34.70         | 89.43                 | -205.09                             | 597.71       | 1,497.79               | 1,449.95                | 47.84                     | 31.310            |                                               |  |                              |  |
| 9,600.00                          | 9,512.29              | 9,550.53              | 9,512.72              | 36.87            | 34.76         | 89.26                 | -200.74                             | 597.67       | 1,497.79               | 1,449.86                | 47.94                     | 31.244            |                                               |  |                              |  |
| 9,700.00                          | 9,612.29              | 9,643.05              | 9,601.01              | 37.19            | 35.01         | 88.22                 | -173.42                             | 597.40       | 1,498.17               | 1,449.82                | 48.35                     | 30.986            |                                               |  |                              |  |
| 9,800.00                          | 9,712.29              | 9,725.05              | 9,674.70              | 37.51            | 35.19         | 86.85                 | -137.61                             | 597.04       | 1,499.81               | 1,451.11                | 48.71                     | 30.792            |                                               |  |                              |  |
| 9,900.00                          | 9,812.29              | 9,800.00              | 9,736.96              | 37.83            | 35.33         | 85.26                 | -95.98                              | 596.63       | 1,503.71               | 1,454.70                | 49.01                     | 30.681            |                                               |  |                              |  |
| 10,000.00                         | 9,912.29              | 9,850.00              | 9,775.24              | 38.15            | 35.40         | 84.04                 | -63.84                              | 596.31       | 1,510.79               | 1,461.60                | 49.19                     | 30.714            |                                               |  |                              |  |
| 10,100.00                         | 10,012.29             | 9,900.00              | 9,810.58              | 38.47            | 35.46         | 82.70                 | -28.49                              | 595.95       | 1,521.78               | 1,472.48                | 49.30                     | 30.870            |                                               |  |                              |  |
| 10,200.00                         | 10,112.29             | 9,950.00              | 9,842.70              | 38.80            | 35.51         | 81.26                 | 9.81                                | 595.57       | 1,537.20               | 1,487.87                | 49.33                     | 31.160            |                                               |  |                              |  |
| 10,300.00                         | 10,212.29             | 9,981.68              | 9,861.27              | 39.12            | 35.53         | 80.31                 | 35.46                               | 595.32       | 1,557.38               | 1,508.17                | 49.21                     | 31.646            |                                               |  |                              |  |
| 10,400.00                         | 10,312.29             | 10,000.00             | 9,871.35              | 39.45            | 35.54         | 79.74                 | 50.76                               | 595.16       | 1,582.56               | 1,533.61                | 48.94                     | 32.335            |                                               |  |                              |  |
| 10,500.00                         | 10,412.29             | 10,036.96             | 9,890.19              | 39.77            | 35.55         | 78.56                 | 82.55                               | 594.85       | 1,612.50               | 1,563.81                | 48.69                     | 33.117            |                                               |  |                              |  |
| 10,600.00                         | 10,512.29             | 10,050.00             | 9,896.33              | 40.10            | 35.56         | 78.13                 | 94.05                               | 594.73       | 1,647.42               | 1,599.16                | 48.25                     | 34.141            |                                               |  |                              |  |
| 10,700.00                         | 10,612.29             | 10,077.90             | 9,908.60              | 40.42            | 35.56         | 77.22                 | 119.11                              | 594.48       | 1,686.90               | 1,639.05                | 47.85                     | 35.257            |                                               |  |                              |  |
| 10,800.00                         | 10,712.29             | 10,100.00             | 9,917.45              | 40.75            | 35.57         | 76.48                 | 139.36                              | 594.28       | 1,730.90               | 1,683.53                | 47.37                     | 36.539            |                                               |  |                              |  |
| 10,900.00                         | 10,812.29             | 10,100.00             | 9,917.45              | 41.08            | 35.57         | 76.48                 | 139.36                              | 594.28       | 1,779.12               | 1,732.37                | 46.75                     | 38.054            |                                               |  |                              |  |
| 11,000.00                         | 10,912.29             | 10,122.10             | 9,925.50              | 41.41            | 35.57         | 75.73                 | 159.93                              | 594.08       | 1,831.16               | 1,784.91                | 46.25                     | 39.591            |                                               |  |                              |  |
| 11,100.00                         | 11,012.29             | 10,150.00             | 9,934.53              | 41.73            | 35.57         | 74.78                 | 186.33                              | 593.81       | 1,887.11               | 1,841.32                | 45.79                     | 41.216            |                                               |  |                              |  |
| 11,200.00                         | 11,112.29             | 10,150.00             | 9,934.53              | 42.06            | 35.57         | 74.78                 | 186.33                              | 593.81       | 1,946.02               | 1,900.84                | 45.18                     | 43.072            |                                               |  |                              |  |
| 11,300.00                         | 11,212.29             | 10,150.00             | 9,934.53              | 42.39            | 35.57         | 74.78                 | 186.33                              | 593.81       | 2,008.19               | 1,963.59                | 44.60                     | 45.027            |                                               |  |                              |  |
| 11,400.00                         | 11,312.29             | 10,150.00             | 9,934.53              | 42.72            | 35.57         | 74.78                 | 186.33                              | 593.81       | 2,073.32               | 2,029.28                | 44.05                     | 47.069            |                                               |  |                              |  |
| 11,500.00                         | 11,412.29             | 10,169.37             | 9,940.03              | 43.05            | 35.57         | 74.12                 | 204.89                              | 593.63       | 2,140.83               | 2,097.19                | 43.63                     | 49.064            |                                               |  |                              |  |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | FMM Fed Com - FMM Fed Com 302H - OH - Plan #1 |  | Offset Site Error: 0.00 usft |  |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|-----------------------------------------------|--|------------------------------|--|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: 0.00 usft                  |  |                              |  |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                                               |  |                              |  |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning                                       |  |                              |  |
| 11,600.00                         | 11,512.29             | 10,176.35             | 9,941.86              | 43.38            | 35.57         | 73.88                 | 211.63                              | 593.56       | 2,210.81               | 2,167.62                | 43.19                     | 51.188            |                                               |  |                              |  |
| 11,700.00                         | 11,612.29             | 10,200.00             | 9,947.45              | 43.71            | 35.57         | 73.07                 | 234.61                              | 593.33       | 2,283.22               | 2,240.35                | 42.87                     | 53.264            |                                               |  |                              |  |
| 11,800.00                         | 11,712.29             | 10,200.00             | 9,947.45              | 44.05            | 35.57         | 73.07                 | 234.61                              | 593.33       | 2,357.18               | 2,314.72                | 42.47                     | 55.508            |                                               |  |                              |  |
| 11,906.75                         | 11,819.04             | 10,200.00             | 9,947.45              | 44.40            | 35.57         | 73.07                 | 234.61                              | 593.33       | 2,438.20               | 2,396.11                | 42.08                     | 57.935            |                                               |  |                              |  |
| 11,950.00                         | 11,862.25             | 10,200.00             | 9,947.45              | 44.54            | 35.57         | 68.78                 | 234.61                              | 593.33       | 2,471.26               | 2,429.32                | 41.94                     | 58.924            |                                               |  |                              |  |
| 12,000.00                         | 11,911.88             | 10,200.00             | 9,947.45              | 44.70            | 35.57         | 63.55                 | 234.61                              | 593.33       | 2,508.90               | 2,467.13                | 41.77                     | 60.061            |                                               |  |                              |  |
| 12,050.00                         | 11,960.80             | 10,200.00             | 9,947.45              | 44.85            | 35.57         | 58.79                 | 234.61                              | 593.33       | 2,545.70               | 2,504.09                | 41.61                     | 61.182            |                                               |  |                              |  |
| 12,100.00                         | 12,008.65             | 10,200.00             | 9,947.45              | 45.00            | 35.57         | 54.53                 | 234.61                              | 593.33       | 2,581.41               | 2,539.96                | 41.45                     | 62.281            |                                               |  |                              |  |
| 12,150.00                         | 12,055.05             | 10,200.00             | 9,947.45              | 45.13            | 35.57         | 50.76                 | 234.61                              | 593.33       | 2,615.80               | 2,574.51                | 41.29                     | 63.349            |                                               |  |                              |  |
| 12,200.00                         | 12,099.66             | 10,222.43             | 9,951.87              | 45.25            | 35.57         | 47.11                 | 256.60                              | 593.11       | 2,648.23               | 2,607.00                | 41.23                     | 64.233            |                                               |  |                              |  |
| 12,250.00                         | 12,142.12             | 10,229.30             | 9,953.05              | 45.35            | 35.57         | 44.21                 | 263.36                              | 593.05       | 2,679.08               | 2,637.97                | 41.11                     | 65.172            |                                               |  |                              |  |
| 12,300.00                         | 12,182.14             | 10,250.00             | 9,956.12              | 45.45            | 35.58         | 41.56                 | 283.83                              | 592.84       | 2,708.09               | 2,667.05                | 41.04                     | 65.986            |                                               |  |                              |  |
| 12,350.00                         | 12,219.38             | 10,250.00             | 9,956.12              | 45.53            | 35.58         | 39.52                 | 283.83                              | 592.84       | 2,734.64               | 2,693.73                | 40.91                     | 66.849            |                                               |  |                              |  |
| 12,400.00                         | 12,253.58             | 10,250.00             | 9,956.12              | 45.60            | 35.58         | 37.78                 | 283.83                              | 592.84       | 2,758.96               | 2,718.18                | 40.79                     | 67.644            |                                               |  |                              |  |
| 12,450.00                         | 12,284.48             | 10,250.00             | 9,956.12              | 45.65            | 35.58         | 36.31                 | 283.83                              | 592.84       | 2,780.94               | 2,740.27                | 40.68                     | 68.363            |                                               |  |                              |  |
| 12,500.00                         | 12,311.83             | 10,250.00             | 9,956.12              | 45.70            | 35.58         | 35.07                 | 283.83                              | 592.84       | 2,800.47               | 2,759.89                | 40.59                     | 68.999            |                                               |  |                              |  |
| 12,550.00                         | 12,335.43             | 10,278.53             | 9,959.13              | 45.74            | 35.61         | 33.93                 | 312.20                              | 592.56       | 2,816.71               | 2,776.12                | 40.59                     | 69.398            |                                               |  |                              |  |
| 12,600.00                         | 12,355.10             | 10,300.00             | 9,960.46              | 45.77            | 35.65         | 33.06                 | 333.63                              | 592.35       | 2,830.64               | 2,790.06                | 40.58                     | 69.759            |                                               |  |                              |  |
| 12,650.00                         | 12,370.69             | 10,300.00             | 9,960.46              | 45.81            | 35.65         | 32.46                 | 333.63                              | 592.35       | 2,841.44               | 2,800.90                | 40.54                     | 70.098            |                                               |  |                              |  |
| 12,700.00                         | 12,382.08             | 10,300.00             | 9,960.46              | 45.84            | 35.65         | 32.03                 | 333.63                              | 592.35       | 2,849.47               | 2,808.95                | 40.52                     | 70.328            |                                               |  |                              |  |
| 12,750.00                         | 12,389.19             | 10,324.84             | 9,961.00              | 45.89            | 35.71         | 31.73                 | 358.46                              | 592.10       | 2,854.54               | 2,813.98                | 40.56                     | 70.371            |                                               |  |                              |  |
| 12,800.00                         | 12,391.96             | 10,327.48             | 9,961.00              | 45.94            | 35.71         | 31.62                 | 361.10                              | 592.07       | 2,856.50               | 2,815.91                | 40.60                     | 70.365            |                                               |  |                              |  |
| 12,806.75                         | 12,392.00             | 10,334.23             | 9,961.00              | 45.95            | 35.73         | 31.62                 | 367.85                              | 592.01       | 2,856.54               | 2,815.93                | 40.61                     | 70.338            |                                               |  |                              |  |
| 12,900.00                         | 12,392.00             | 10,427.48             | 9,961.00              | 46.10            | 36.04         | 31.62                 | 461.09                              | 591.08       | 2,856.53               | 2,815.68                | 40.86                     | 69.917            |                                               |  |                              |  |
| 13,000.00                         | 12,392.00             | 10,527.48             | 9,961.00              | 46.33            | 36.44         | 31.62                 | 561.09                              | 590.08       | 2,856.53               | 2,815.36                | 41.17                     | 69.382            |                                               |  |                              |  |
| 13,100.00                         | 12,392.00             | 10,627.48             | 9,961.00              | 46.63            | 36.91         | 31.62                 | 661.08                              | 589.09       | 2,856.53               | 2,814.99                | 41.54                     | 68.765            |                                               |  |                              |  |
| 13,200.00                         | 12,392.00             | 10,727.48             | 9,961.00              | 47.00            | 37.45         | 31.62                 | 761.08                              | 588.09       | 2,856.52               | 2,814.56                | 41.96                     | 68.073            |                                               |  |                              |  |
| 13,300.00                         | 12,392.00             | 10,827.48             | 9,961.00              | 47.44            | 38.04         | 31.62                 | 861.07                              | 587.09       | 2,856.52               | 2,814.08                | 42.44                     | 67.312            |                                               |  |                              |  |
| 13,400.00                         | 12,392.00             | 10,927.48             | 9,961.00              | 47.95            | 38.69         | 31.62                 | 961.07                              | 586.10       | 2,856.51               | 2,813.55                | 42.96                     | 66.490            |                                               |  |                              |  |
| 13,500.00                         | 12,392.00             | 11,027.48             | 9,961.00              | 48.51            | 39.39         | 31.62                 | 1,061.06                            | 585.10       | 2,856.51               | 2,812.98                | 43.53                     | 65.615            |                                               |  |                              |  |
| 13,600.00                         | 12,392.00             | 11,127.48             | 9,961.00              | 49.13            | 40.15         | 31.62                 | 1,161.06                            | 584.11       | 2,856.51               | 2,812.35                | 44.15                     | 64.694            |                                               |  |                              |  |
| 13,700.00                         | 12,392.00             | 11,227.48             | 9,961.00              | 49.79            | 40.97         | 31.62                 | 1,261.05                            | 583.11       | 2,856.50               | 2,811.69                | 44.82                     | 63.738            |                                               |  |                              |  |
| 13,800.00                         | 12,392.00             | 11,327.48             | 9,961.00              | 50.51            | 41.83         | 31.62                 | 1,361.05                            | 582.12       | 2,856.50               | 2,810.98                | 45.52                     | 62.751            |                                               |  |                              |  |
| 13,900.00                         | 12,392.00             | 11,427.48             | 9,961.00              | 51.27            | 42.73         | 31.62                 | 1,461.04                            | 581.12       | 2,856.49               | 2,810.23                | 46.27                     | 61.742            |                                               |  |                              |  |
| 14,000.00                         | 12,392.00             | 11,527.48             | 9,961.00              | 52.07            | 43.68         | 31.62                 | 1,561.04                            | 580.12       | 2,856.49               | 2,809.44                | 47.05                     | 60.714            |                                               |  |                              |  |
| 14,100.00                         | 12,392.00             | 11,627.48             | 9,961.00              | 52.91            | 44.67         | 31.62                 | 1,661.03                            | 579.13       | 2,856.49               | 2,808.62                | 47.87                     | 59.674            |                                               |  |                              |  |
| 14,200.00                         | 12,392.00             | 11,727.48             | 9,961.00              | 53.79            | 45.69         | 31.62                 | 1,761.03                            | 578.13       | 2,856.48               | 2,807.76                | 48.72                     | 58.627            |                                               |  |                              |  |
| 14,300.00                         | 12,392.00             | 11,827.48             | 9,961.00              | 54.70            | 46.75         | 31.62                 | 1,861.02                            | 577.14       | 2,856.48               | 2,806.87                | 49.61                     | 57.578            |                                               |  |                              |  |
| 14,400.00                         | 12,392.00             | 11,927.48             | 9,961.00              | 55.65            | 47.85         | 31.62                 | 1,961.02                            | 576.14       | 2,856.47               | 2,805.95                | 50.53                     | 56.531            |                                               |  |                              |  |
| 14,500.00                         | 12,392.00             | 12,027.48             | 9,961.00              | 56.64            | 48.97         | 31.62                 | 2,061.01                            | 575.14       | 2,856.47               | 2,804.99                | 51.48                     | 55.489            |                                               |  |                              |  |
| 14,600.00                         | 12,392.00             | 12,127.48             | 9,961.00              | 57.65            | 50.13         | 31.62                 | 2,161.01                            | 574.15       | 2,856.47               | 2,804.01                | 52.45                     | 54.457            |                                               |  |                              |  |
| 14,700.00                         | 12,392.00             | 12,227.48             | 9,961.00              | 58.69            | 51.31         | 31.62                 | 2,261.00                            | 573.15       | 2,856.46               | 2,803.01                | 53.45                     | 53.438            |                                               |  |                              |  |
| 14,800.00                         | 12,392.00             | 12,327.48             | 9,961.00              | 59.76            | 52.51         | 31.62                 | 2,361.00                            | 572.16       | 2,856.46               | 2,801.98                | 54.48                     | 52.433            |                                               |  |                              |  |
| 14,900.00                         | 12,392.00             | 12,427.48             | 9,961.00              | 60.86            | 53.74         | 31.62                 | 2,460.99                            | 571.16       | 2,856.45               | 2,800.93                | 55.53                     | 51.443            |                                               |  |                              |  |
| 15,000.00                         | 12,392.00             | 12,527.48             | 9,961.00              | 61.98            | 55.00         | 31.62                 | 2,560.99                            | 570.17       | 2,856.45               | 2,799.85                | 56.60                     | 50.470            |                                               |  |                              |  |
| 15,100.00                         | 12,392.00             | 12,627.48             | 9,961.00              | 63.12            | 56.27         | 31.62                 | 2,660.98                            | 569.17       | 2,856.45               | 2,798.76                | 57.69                     | 49.515            |                                               |  |                              |  |
| 15,200.00                         | 12,392.00             | 12,727.48             | 9,961.00              | 64.29            | 57.56         | 31.62                 | 2,760.98                            | 568.17       | 2,856.44               | 2,797.64                | 58.80                     | 48.579            |                                               |  |                              |  |
| 15,300.00                         | 12,392.00             | 12,827.48             | 9,961.00              | 65.47            | 58.87         | 31.62                 | 2,860.97                            | 567.18       | 2,856.44               | 2,796.51                | 59.93                     | 47.664            |                                               |  |                              |  |
| 15,400.00                         | 12,392.00             | 12,927.48             | 9,961.00              | 66.68            | 60.19         | 31.62                 | 2,960.97                            | 566.18       | 2,856.44               | 2,795.36                | 61.08                     | 46.768            |                                               |  |                              |  |
| 15,500.00                         | 12,392.00             | 13,027.48             | 9,961.00              | 67.90            | 61.54         | 31.62                 | 3,060.96                            | 565.19       | 2,856.43               | 2,794.19                | 62.24                     | 45.894            |                                               |  |                              |  |
| 15,600.00                         | 12,392.00             | 13,127.48             | 9,961.00              | 69.15            | 62.89         | 31.62                 | 3,160.96                            | 564.19       | 2,856.43               | 2,793.01                | 63.42                     | 45.040            |                                               |  |                              |  |
| 15,700.00                         | 12,392.00             | 13,227.48             | 9,961.00              | 70.41            | 64.26         | 31.62                 | 3,260.95                            | 563.19       | 2,856.42               | 2,791.81                | 64.61                     | 44.207            |                                               |  |                              |  |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | FMM Fed Com - FMM Fed Com 302H - OH - Plan #1 |           | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|-----------------------------------------------|-----------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error:                            | 0.00 usft |                    |           |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                                               | Warning   |                    |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                                               |           |                    |           |
| 15,800.00                         | 12,392.00             | 13,327.48             | 9,961.00              | 71.68            | 65.65         | 31.62                 | 3,360.95                            | 562.20       | 2,856.42               | 2,790.60                | 65.82                     | 43.397            |                                               |           |                    |           |
| 15,900.00                         | 12,392.00             | 13,427.48             | 9,961.00              | 72.97            | 67.04         | 31.62                 | 3,460.94                            | 561.20       | 2,856.42               | 2,789.38                | 67.04                     | 42.609            |                                               |           |                    |           |
| 16,000.00                         | 12,392.00             | 13,527.48             | 9,961.00              | 74.28            | 68.45         | 31.62                 | 3,560.94                            | 560.21       | 2,856.41               | 2,788.14                | 68.27                     | 41.840            |                                               |           |                    |           |
| 16,100.00                         | 12,392.00             | 13,627.48             | 9,961.00              | 75.60            | 69.87         | 31.62                 | 3,660.93                            | 559.21       | 2,856.41               | 2,786.90                | 69.51                     | 41.092            |                                               |           |                    |           |
| 16,200.00                         | 12,392.00             | 13,727.48             | 9,961.00              | 76.93            | 71.29         | 31.62                 | 3,760.93                            | 558.22       | 2,856.40               | 2,785.64                | 70.77                     | 40.364            |                                               |           |                    |           |
| 16,300.00                         | 12,392.00             | 13,827.48             | 9,961.00              | 78.27            | 72.73         | 31.62                 | 3,860.92                            | 557.22       | 2,856.40               | 2,784.37                | 72.03                     | 39.654            |                                               |           |                    |           |
| 16,400.00                         | 12,392.00             | 13,927.48             | 9,961.00              | 79.63            | 74.18         | 31.62                 | 3,960.92                            | 556.22       | 2,856.40               | 2,783.09                | 73.31                     | 38.966            |                                               |           |                    |           |
| 16,500.00                         | 12,392.00             | 14,027.48             | 9,961.00              | 80.99            | 75.63         | 31.62                 | 4,060.91                            | 555.23       | 2,856.39               | 2,781.80                | 74.59                     | 38.295            |                                               |           |                    |           |
| 16,600.00                         | 12,392.00             | 14,127.48             | 9,961.00              | 82.37            | 77.09         | 31.62                 | 4,160.91                            | 554.23       | 2,856.39               | 2,780.51                | 75.88                     | 37.644            |                                               |           |                    |           |
| 16,700.00                         | 12,392.00             | 14,227.48             | 9,961.00              | 83.75            | 78.56         | 31.62                 | 4,260.90                            | 553.24       | 2,856.38               | 2,779.21                | 77.18                     | 37.011            |                                               |           |                    |           |
| 16,800.00                         | 12,392.00             | 14,327.48             | 9,961.00              | 85.15            | 80.04         | 31.62                 | 4,360.90                            | 552.24       | 2,856.38               | 2,777.89                | 78.48                     | 36.394            |                                               |           |                    |           |
| 16,900.00                         | 12,392.00             | 14,427.48             | 9,961.00              | 86.56            | 81.52         | 31.62                 | 4,460.89                            | 551.24       | 2,856.38               | 2,776.58                | 79.80                     | 35.794            |                                               |           |                    |           |
| 17,000.00                         | 12,392.00             | 14,527.48             | 9,961.00              | 87.97            | 83.01         | 31.62                 | 4,560.89                            | 550.25       | 2,856.37               | 2,775.25                | 81.12                     | 35.210            |                                               |           |                    |           |
| 17,100.00                         | 12,392.00             | 14,627.48             | 9,961.00              | 89.39            | 84.51         | 31.62                 | 4,660.88                            | 549.25       | 2,856.37               | 2,773.92                | 82.45                     | 34.643            |                                               |           |                    |           |
| 17,200.00                         | 12,392.00             | 14,727.48             | 9,961.00              | 90.82            | 86.01         | 31.62                 | 4,760.88                            | 548.26       | 2,856.36               | 2,772.58                | 83.78                     | 34.092            |                                               |           |                    |           |
| 17,300.00                         | 12,392.00             | 14,827.48             | 9,961.00              | 92.26            | 87.52         | 31.62                 | 4,860.87                            | 547.26       | 2,856.36               | 2,771.24                | 85.12                     | 33.555            |                                               |           |                    |           |
| 17,400.00                         | 12,392.00             | 14,927.48             | 9,961.00              | 93.70            | 89.03         | 31.62                 | 4,960.87                            | 546.27       | 2,856.36               | 2,769.89                | 86.47                     | 33.033            |                                               |           |                    |           |
| 17,500.00                         | 12,392.00             | 15,027.48             | 9,961.00              | 95.15            | 90.55         | 31.62                 | 5,060.86                            | 545.27       | 2,856.35               | 2,768.53                | 87.82                     | 32.525            |                                               |           |                    |           |
| 17,600.00                         | 12,392.00             | 15,127.48             | 9,961.00              | 96.61            | 92.07         | 31.62                 | 5,160.86                            | 544.27       | 2,856.35               | 2,767.17                | 89.18                     | 32.030            |                                               |           |                    |           |
| 17,700.00                         | 12,392.00             | 15,227.48             | 9,961.00              | 98.07            | 93.60         | 31.62                 | 5,260.85                            | 543.28       | 2,856.34               | 2,765.81                | 90.54                     | 31.548            |                                               |           |                    |           |
| 17,800.00                         | 12,392.00             | 15,327.48             | 9,961.00              | 99.54            | 95.13         | 31.62                 | 5,360.85                            | 542.28       | 2,856.34               | 2,764.43                | 91.91                     | 31.079            |                                               |           |                    |           |
| 17,900.00                         | 12,392.00             | 15,427.48             | 9,961.00              | 101.02           | 96.66         | 31.62                 | 5,460.84                            | 541.29       | 2,856.34               | 2,763.06                | 93.28                     | 30.622            |                                               |           |                    |           |
| 18,000.00                         | 12,392.00             | 15,527.48             | 9,961.00              | 102.50           | 98.20         | 31.62                 | 5,560.84                            | 540.29       | 2,856.33               | 2,761.68                | 94.65                     | 30.177            |                                               |           |                    |           |
| 18,100.00                         | 12,392.00             | 15,627.48             | 9,961.00              | 103.98           | 99.74         | 31.62                 | 5,660.83                            | 539.29       | 2,856.33               | 2,760.30                | 96.03                     | 29.744            |                                               |           |                    |           |
| 18,200.00                         | 12,392.00             | 15,727.48             | 9,961.00              | 105.47           | 101.29        | 31.62                 | 5,760.83                            | 538.30       | 2,856.32               | 2,758.91                | 97.41                     | 29.322            |                                               |           |                    |           |
| 18,300.00                         | 12,392.00             | 15,827.48             | 9,961.00              | 106.97           | 102.84        | 31.62                 | 5,860.82                            | 537.30       | 2,856.32               | 2,757.52                | 98.80                     | 28.911            |                                               |           |                    |           |
| 18,400.00                         | 12,392.00             | 15,927.48             | 9,961.00              | 108.47           | 104.39        | 31.62                 | 5,960.82                            | 536.31       | 2,856.32               | 2,756.13                | 100.19                    | 28.510            |                                               |           |                    |           |
| 18,500.00                         | 12,392.00             | 16,027.48             | 9,961.00              | 109.97           | 105.94        | 31.62                 | 6,060.81                            | 535.31       | 2,856.31               | 2,754.73                | 101.58                    | 28.119            |                                               |           |                    |           |
| 18,600.00                         | 12,392.00             | 16,127.48             | 9,961.00              | 111.48           | 107.50        | 31.62                 | 6,160.81                            | 534.32       | 2,856.31               | 2,753.33                | 102.97                    | 27.738            |                                               |           |                    |           |
| 18,700.00                         | 12,392.00             | 16,227.48             | 9,961.00              | 112.99           | 109.06        | 31.61                 | 6,260.80                            | 533.32       | 2,856.30               | 2,751.93                | 104.37                    | 27.366            |                                               |           |                    |           |
| 18,800.00                         | 12,392.00             | 16,327.48             | 9,961.00              | 114.51           | 110.62        | 31.61                 | 6,360.80                            | 532.32       | 2,856.30               | 2,750.53                | 105.77                    | 27.004            |                                               |           |                    |           |
| 18,900.00                         | 12,392.00             | 16,427.48             | 9,961.00              | 116.03           | 112.19        | 31.61                 | 6,460.79                            | 531.33       | 2,856.30               | 2,749.12                | 107.18                    | 26.650            |                                               |           |                    |           |
| 19,000.00                         | 12,392.00             | 16,527.48             | 9,961.00              | 117.55           | 113.76        | 31.61                 | 6,560.79                            | 530.33       | 2,856.29               | 2,747.71                | 108.58                    | 26.305            |                                               |           |                    |           |
| 19,100.00                         | 12,392.00             | 16,627.48             | 9,961.00              | 119.08           | 115.33        | 31.61                 | 6,660.78                            | 529.34       | 2,856.29               | 2,746.30                | 109.99                    | 25.968            |                                               |           |                    |           |
| 19,200.00                         | 12,392.00             | 16,727.48             | 9,961.00              | 120.61           | 116.90        | 31.61                 | 6,760.78                            | 528.34       | 2,856.29               | 2,744.88                | 111.40                    | 25.639            |                                               |           |                    |           |
| 19,300.00                         | 12,392.00             | 16,827.48             | 9,961.00              | 122.14           | 118.48        | 31.61                 | 6,860.78                            | 527.34       | 2,856.28               | 2,743.46                | 112.82                    | 25.318            |                                               |           |                    |           |
| 19,400.00                         | 12,392.00             | 16,927.48             | 9,961.00              | 123.68           | 120.05        | 31.61                 | 6,960.77                            | 526.35       | 2,856.28               | 2,742.05                | 114.23                    | 25.004            |                                               |           |                    |           |
| 19,500.00                         | 12,392.00             | 17,027.48             | 9,961.00              | 125.22           | 121.63        | 31.61                 | 7,060.77                            | 525.35       | 2,856.27               | 2,740.63                | 115.65                    | 24.698            |                                               |           |                    |           |
| 19,600.00                         | 12,392.00             | 17,127.48             | 9,961.00              | 126.76           | 123.21        | 31.61                 | 7,160.76                            | 524.36       | 2,856.27               | 2,739.20                | 117.07                    | 24.399            |                                               |           |                    |           |
| 19,700.00                         | 12,392.00             | 17,227.48             | 9,961.00              | 128.31           | 124.80        | 31.61                 | 7,260.76                            | 523.36       | 2,856.27               | 2,737.78                | 118.49                    | 24.106            |                                               |           |                    |           |
| 19,800.00                         | 12,392.00             | 17,327.48             | 9,961.00              | 129.85           | 126.38        | 31.61                 | 7,360.75                            | 522.37       | 2,856.26               | 2,736.35                | 119.91                    | 23.820            |                                               |           |                    |           |
| 19,900.00                         | 12,392.00             | 17,427.48             | 9,961.00              | 131.40           | 127.97        | 31.61                 | 7,460.75                            | 521.37       | 2,856.26               | 2,734.92                | 121.34                    | 23.540            |                                               |           |                    |           |
| 20,000.00                         | 12,392.00             | 17,527.48             | 9,961.00              | 132.96           | 129.56        | 31.61                 | 7,560.74                            | 520.37       | 2,856.25               | 2,733.49                | 122.76                    | 23.266            |                                               |           |                    |           |
| 20,100.00                         | 12,392.00             | 17,627.48             | 9,961.00              | 134.51           | 131.15        | 31.61                 | 7,660.74                            | 519.38       | 2,856.25               | 2,732.06                | 124.19                    | 22.998            |                                               |           |                    |           |
| 20,200.00                         | 12,392.00             | 17,727.48             | 9,961.00              | 136.07           | 132.74        | 31.61                 | 7,760.73                            | 518.38       | 2,856.25               | 2,730.63                | 125.62                    | 22.737            |                                               |           |                    |           |
| 20,300.00                         | 12,392.00             | 17,827.48             | 9,961.00              | 137.63           | 134.33        | 31.61                 | 7,860.73                            | 517.39       | 2,856.24               | 2,729.19                | 127.05                    | 22.481            |                                               |           |                    |           |
| 20,400.00                         | 12,392.00             | 17,927.48             | 9,961.00              | 139.19           | 135.92        | 31.61                 | 7,960.72                            | 516.39       | 2,856.24               | 2,727.76                | 128.48                    | 22.231            |                                               |           |                    |           |
| 20,500.00                         | 12,392.00             | 18,027.48             | 9,961.00              | 140.75           | 137.52        | 31.61                 | 8,060.72                            | 515.39       | 2,856.23               | 2,726.32                | 129.91                    | 21.986            |                                               |           |                    |           |
| 20,600.00                         | 12,392.00             | 18,127.48             | 9,961.00              | 142.32           | 139.12        | 31.61                 | 8,160.71                            | 514.40       | 2,856.23               | 2,724.88                | 131.35                    | 21.746            |                                               |           |                    |           |
| 20,700.00                         | 12,392.00             | 18,227.48             | 9,961.00              | 143.89           | 140.71        | 31.61                 | 8,260.71                            | 513.40       | 2,856.23               | 2,723.44                | 132.78                    | 21.511            |                                               |           |                    |           |
| 20,800.00                         | 12,392.00             | 18,327.48             | 9,961.00              | 145.46           | 142.31        | 31.61                 | 8,360.70                            | 512.41       | 2,856.22               | 2,722.00                | 134.22                    | 21.280            |                                               |           |                    |           |
| 20,900.00                         | 12,392.00             | 18,427.48             | 9,961.00              | 147.03           | 143.91        | 31.61                 | 8,460.70                            | 511.41       | 2,856.22               | 2,720.56                | 135.66                    | 21.055            |                                               |           |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

|                                               |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                           |           |
|-----------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|---------------------------|-----------|
| <b>Offset Design</b>                          |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <b>Offset Site Error:</b> | 0.00 usft |
| FMM Fed Com - FMM Fed Com 302H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <b>Offset Well Error:</b> | 0.00 usft |
| Survey Program: 0-OWSG (Rev2) MWD             |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                           |           |
| Reference                                     |                       | Offset                |                       | Semi Major Axis  |               | Distance              |                                     |              |                        |                         |                           |                           |           |
| Measured Depth (usft)                         | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor         | Warning   |
| 21,000.00                                     | 12,392.00             | 18,527.48             | 9,961.00              | 148.60           | 145.51        | 31.61                 | 8,560.69                            | 510.42       | 2,856.21               | 2,719.12                | 137.10                    | 20.834                    |           |
| 21,100.00                                     | 12,392.00             | 18,627.48             | 9,961.00              | 150.18           | 147.12        | 31.61                 | 8,660.69                            | 509.42       | 2,856.21               | 2,717.67                | 138.54                    | 20.617                    |           |
| 21,200.00                                     | 12,392.00             | 18,727.48             | 9,961.00              | 151.75           | 148.72        | 31.61                 | 8,760.68                            | 508.42       | 2,856.21               | 2,716.23                | 139.98                    | 20.405                    |           |
| 21,300.00                                     | 12,392.00             | 18,827.48             | 9,961.00              | 153.33           | 150.33        | 31.61                 | 8,860.68                            | 507.43       | 2,856.20               | 2,714.78                | 141.42                    | 20.197                    |           |
| 21,400.00                                     | 12,392.00             | 18,927.48             | 9,961.00              | 154.91           | 151.93        | 31.61                 | 8,960.67                            | 506.43       | 2,856.20               | 2,713.34                | 142.86                    | 19.993                    |           |
| 21,500.00                                     | 12,392.00             | 19,027.48             | 9,961.00              | 156.49           | 153.54        | 31.61                 | 9,060.67                            | 505.44       | 2,856.19               | 2,711.89                | 144.30                    | 19.793                    |           |
| 21,600.00                                     | 12,392.00             | 19,127.48             | 9,961.00              | 158.07           | 155.15        | 31.61                 | 9,160.66                            | 504.44       | 2,856.19               | 2,710.45                | 145.74                    | 19.597                    |           |
| 21,700.00                                     | 12,392.00             | 19,227.48             | 9,961.00              | 159.66           | 156.76        | 31.61                 | 9,260.66                            | 503.44       | 2,856.19               | 2,709.00                | 147.19                    | 19.405                    |           |
| 21,800.00                                     | 12,392.00             | 19,327.48             | 9,961.00              | 161.24           | 158.37        | 31.61                 | 9,360.65                            | 502.45       | 2,856.18               | 2,707.55                | 148.63                    | 19.217                    |           |
| 21,900.00                                     | 12,392.00             | 19,427.48             | 9,961.00              | 162.83           | 159.98        | 31.61                 | 9,460.65                            | 501.45       | 2,856.18               | 2,706.10                | 150.08                    | 19.031                    |           |
| 22,000.00                                     | 12,392.00             | 19,527.48             | 9,961.00              | 164.42           | 161.59        | 31.61                 | 9,560.64                            | 500.46       | 2,856.17               | 2,704.65                | 151.52                    | 18.850                    |           |
| 22,100.00                                     | 12,392.00             | 19,627.48             | 9,961.00              | 166.01           | 163.20        | 31.61                 | 9,660.64                            | 499.46       | 2,856.17               | 2,703.20                | 152.97                    | 18.671                    |           |
| 22,200.00                                     | 12,392.00             | 19,727.48             | 9,961.00              | 167.60           | 164.81        | 31.61                 | 9,760.63                            | 498.47       | 2,856.17               | 2,701.75                | 154.42                    | 18.496                    |           |
| 22,300.00                                     | 12,392.00             | 19,827.48             | 9,961.00              | 169.19           | 166.43        | 31.61                 | 9,860.63                            | 497.47       | 2,856.16               | 2,700.30                | 155.87                    | 18.324                    |           |
| 22,400.00                                     | 12,392.00             | 19,927.48             | 9,961.00              | 170.78           | 168.04        | 31.61                 | 9,960.62                            | 496.47       | 2,856.16               | 2,698.85                | 157.31                    | 18.156                    |           |
| 22,500.00                                     | 12,392.00             | 20,027.48             | 9,961.00              | 172.37           | 169.66        | 31.61                 | 10,060.62                           | 495.48       | 2,856.15               | 2,697.39                | 158.76                    | 17.990                    |           |
| 22,591.88                                     | 12,392.00             | 20,118.82             | 9,961.00              | 173.84           | 171.14        | 31.61                 | 10,151.95                           | 494.57       | 2,856.15               | 2,696.06                | 160.09                    | 17.841                    |           |
| 22,595.91                                     | 12,392.00             | 20,118.82             | 9,961.00              | 173.90           | 171.14        | 31.61                 | 10,151.95                           | 494.57       | 2,856.15               | 2,696.03                | 160.12                    | 17.838                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | FMM Fed Com - FMM Fed Com 802H - OH - Plan #1 |           | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|-----------------------------------------------|-----------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error:                            | 0.00 usft |                    |           |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                                               |           |                    |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning                                       |           |                    |           |
| 1,843.00                          | 1,843.00              | 1,843.30              | 1,843.30              | 6.37             | 6.37          | 89.46                 | 0.23                                | 25.06        | 25.07                  | 16.05                   | 9.01                      | 2.781             |                                               |           |                    |           |
| 1,900.00                          | 1,900.00              | 1,900.30              | 1,900.30              | 6.58             | 6.58          | 89.46                 | 0.23                                | 25.06        | 25.07                  | 15.76                   | 9.30                      | 2.694             |                                               |           |                    |           |
| 2,000.00                          | 2,000.00              | 2,000.30              | 2,000.30              | 6.94             | 6.94          | 89.46                 | 0.23                                | 25.06        | 25.07                  | 15.26                   | 9.81                      | 2.555             | CC, ES, SF                                    |           |                    |           |
| 2,100.00                          | 2,099.99              | 2,100.29              | 2,100.29              | 7.28             | 7.30          | -167.45               | 0.23                                | 25.06        | 26.34                  | 16.03                   | 10.31                     | 2.555             |                                               |           |                    |           |
| 2,200.00                          | 2,199.91              | 2,200.21              | 2,200.21              | 7.62             | 7.65          | -169.06               | 0.23                                | 25.06        | 30.19                  | 19.38                   | 10.80                     | 2.795             |                                               |           |                    |           |
| 2,300.00                          | 2,299.69              | 2,300.04              | 2,300.03              | 7.97             | 7.99          | -168.93               | -1.08                               | 25.07        | 36.55                  | 25.27                   | 11.28                     | 3.240             |                                               |           |                    |           |
| 2,400.00                          | 2,399.27              | 2,399.65              | 2,399.56              | 8.31             | 8.32          | -166.17               | -4.98                               | 25.09        | 45.42                  | 33.66                   | 11.75                     | 3.865             |                                               |           |                    |           |
| 2,500.00                          | 2,498.57              | 2,498.87              | 2,498.56              | 8.66             | 8.64          | -162.40               | -11.45                              | 25.12        | 56.98                  | 44.76                   | 12.22                     | 4.663             |                                               |           |                    |           |
| 2,600.00                          | 2,597.54              | 2,597.55              | 2,596.83              | 9.02             | 8.97          | -158.52               | -20.43                              | 25.16        | 71.45                  | 58.76                   | 12.69                     | 5.629             |                                               |           |                    |           |
| 2,700.00                          | 2,696.09              | 2,695.74              | 2,694.38              | 9.39             | 9.30          | -155.12               | -31.65                              | 25.21        | 88.90                  | 75.73                   | 13.17                     | 6.750             |                                               |           |                    |           |
| 2,762.60                          | 2,757.54              | 2,757.09              | 2,755.30              | 9.63             | 9.50          | -153.76               | -38.91                              | 25.24        | 101.16                 | 87.69                   | 13.47                     | 7.508             |                                               |           |                    |           |
| 2,800.00                          | 2,794.20              | 2,793.70              | 2,791.65              | 9.77             | 9.63          | -153.21               | -43.24                              | 25.26        | 108.77                 | 95.12                   | 13.65                     | 7.966             |                                               |           |                    |           |
| 2,900.00                          | 2,892.21              | 2,891.57              | 2,888.83              | 10.17            | 9.97          | -152.05               | -54.82                              | 25.32        | 129.16                 | 115.01                  | 14.14                     | 9.132             |                                               |           |                    |           |
| 3,000.00                          | 2,990.23              | 2,989.44              | 2,986.02              | 10.56            | 10.31         | -151.21               | -66.40                              | 25.37        | 149.58                 | 134.94                  | 14.64                     | 10.219            |                                               |           |                    |           |
| 3,100.00                          | 3,088.24              | 3,087.31              | 3,083.20              | 10.97            | 10.66         | -150.57               | -77.98                              | 25.42        | 170.02                 | 154.89                  | 15.14                     | 11.232            |                                               |           |                    |           |
| 3,200.00                          | 3,186.26              | 3,185.19              | 3,180.39              | 11.38            | 11.01         | -150.06               | -89.56                              | 25.47        | 190.48                 | 174.84                  | 15.64                     | 12.178            |                                               |           |                    |           |
| 3,300.00                          | 3,284.27              | 3,283.06              | 3,277.57              | 11.80            | 11.36         | -149.66               | -101.14                             | 25.53        | 210.96                 | 194.81                  | 16.15                     | 13.062            |                                               |           |                    |           |
| 3,400.00                          | 3,382.28              | 3,380.93              | 3,374.76              | 12.22            | 11.72         | -149.33               | -112.71                             | 25.58        | 231.44                 | 214.77                  | 16.66                     | 13.888            |                                               |           |                    |           |
| 3,500.00                          | 3,480.30              | 3,478.80              | 3,471.94              | 12.65            | 12.08         | -149.05               | -124.29                             | 25.63        | 251.93                 | 234.74                  | 17.18                     | 14.663            |                                               |           |                    |           |
| 3,600.00                          | 3,578.31              | 3,576.67              | 3,569.13              | 13.08            | 12.44         | -148.81               | -135.87                             | 25.68        | 272.42                 | 254.72                  | 17.70                     | 15.389            |                                               |           |                    |           |
| 3,700.00                          | 3,676.32              | 3,674.55              | 3,666.31              | 13.51            | 12.81         | -148.61               | -147.45                             | 25.74        | 292.91                 | 274.69                  | 18.23                     | 16.071            |                                               |           |                    |           |
| 3,800.00                          | 3,774.34              | 3,772.42              | 3,763.50              | 13.95            | 13.17         | -148.43               | -159.03                             | 25.79        | 313.41                 | 294.66                  | 18.75                     | 16.713            |                                               |           |                    |           |
| 3,900.00                          | 3,872.35              | 3,870.29              | 3,860.68              | 14.39            | 13.54         | -148.27               | -170.61                             | 25.84        | 333.91                 | 314.63                  | 19.28                     | 17.318            |                                               |           |                    |           |
| 4,000.00                          | 3,970.37              | 3,968.16              | 3,957.86              | 14.83            | 13.91         | -148.14               | -182.19                             | 25.89        | 354.42                 | 334.60                  | 19.81                     | 17.888            |                                               |           |                    |           |
| 4,100.00                          | 4,068.38              | 4,066.25              | 4,055.27              | 15.28            | 14.28         | -148.01               | -193.79                             | 25.95        | 374.92                 | 354.57                  | 20.35                     | 18.426            |                                               |           |                    |           |
| 4,200.00                          | 4,166.39              | 4,167.34              | 4,155.81              | 15.72            | 14.66         | -148.12               | -204.23                             | 25.99        | 394.97                 | 374.08                  | 20.90                     | 18.902            |                                               |           |                    |           |
| 4,300.00                          | 4,264.41              | 4,268.67              | 4,256.83              | 16.17            | 15.03         | -148.57               | -212.02                             | 26.03        | 414.24                 | 392.81                  | 21.44                     | 19.324            |                                               |           |                    |           |
| 4,400.00                          | 4,362.42              | 4,370.08              | 4,358.11              | 16.63            | 15.40         | -149.32               | -217.13                             | 26.05        | 432.78                 | 410.81                  | 21.97                     | 19.700            |                                               |           |                    |           |
| 4,500.00                          | 4,460.43              | 4,471.44              | 4,459.44              | 17.08            | 15.75         | -150.35               | -219.55                             | 26.06        | 450.67                 | 428.18                  | 22.49                     | 20.040            |                                               |           |                    |           |
| 4,600.00                          | 4,558.45              | 4,570.74              | 4,558.75              | 17.54            | 16.09         | -151.54               | -219.77                             | 26.06        | 468.15                 | 445.15                  | 22.99                     | 20.362            |                                               |           |                    |           |
| 4,700.00                          | 4,656.46              | 4,668.76              | 4,656.76              | 17.99            | 16.42         | -152.65               | -219.77                             | 26.06        | 485.75                 | 462.26                  | 23.49                     | 20.682            |                                               |           |                    |           |
| 4,800.00                          | 4,754.47              | 4,766.77              | 4,754.77              | 18.45            | 16.76         | -153.68               | -219.77                             | 26.06        | 503.52                 | 479.54                  | 23.98                     | 20.996            |                                               |           |                    |           |
| 4,900.00                          | 4,852.49              | 4,864.78              | 4,852.79              | 18.91            | 17.09         | -154.64               | -219.77                             | 26.06        | 521.43                 | 496.96                  | 24.48                     | 21.302            |                                               |           |                    |           |
| 5,000.00                          | 4,950.50              | 4,962.80              | 4,950.80              | 19.37            | 17.42         | -155.54               | -219.77                             | 26.06        | 539.49                 | 514.51                  | 24.97                     | 21.602            |                                               |           |                    |           |
| 5,100.00                          | 5,048.52              | 5,060.81              | 5,048.82              | 19.83            | 17.76         | -156.38               | -219.77                             | 26.06        | 557.66                 | 532.19                  | 25.47                     | 21.894            |                                               |           |                    |           |
| 5,200.00                          | 5,146.53              | 5,158.83              | 5,146.83              | 20.29            | 18.10         | -157.17               | -219.77                             | 26.06        | 575.94                 | 549.97                  | 25.97                     | 22.179            |                                               |           |                    |           |
| 5,300.00                          | 5,244.54              | 5,256.84              | 5,244.84              | 20.76            | 18.43         | -157.91               | -219.77                             | 26.06        | 594.32                 | 567.86                  | 26.47                     | 22.456            |                                               |           |                    |           |
| 5,400.00                          | 5,342.56              | 5,354.85              | 5,342.86              | 21.22            | 18.77         | -158.61               | -219.77                             | 26.06        | 612.79                 | 585.83                  | 26.96                     | 22.727            |                                               |           |                    |           |
| 5,500.00                          | 5,440.57              | 5,452.87              | 5,440.87              | 21.69            | 19.11         | -159.26               | -219.77                             | 26.06        | 631.35                 | 603.88                  | 27.46                     | 22.989            |                                               |           |                    |           |
| 5,600.00                          | 5,538.58              | 5,550.88              | 5,538.88              | 22.15            | 19.44         | -159.88               | -219.77                             | 26.06        | 649.98                 | 622.02                  | 27.96                     | 23.245            |                                               |           |                    |           |
| 5,700.00                          | 5,636.60              | 5,648.89              | 5,636.90              | 22.62            | 19.78         | -160.46               | -219.77                             | 26.06        | 668.68                 | 640.21                  | 28.46                     | 23.494            |                                               |           |                    |           |
| 5,800.00                          | 5,734.61              | 5,746.91              | 5,734.91              | 23.09            | 20.12         | -161.01               | -219.77                             | 26.06        | 687.44                 | 658.48                  | 28.96                     | 23.736            |                                               |           |                    |           |
| 5,900.00                          | 5,832.62              | 5,844.92              | 5,832.92              | 23.56            | 20.46         | -161.54               | -219.77                             | 26.06        | 706.26                 | 676.80                  | 29.46                     | 23.971            |                                               |           |                    |           |
| 6,000.00                          | 5,930.64              | 5,942.94              | 5,930.94              | 24.02            | 20.80         | -162.03               | -219.77                             | 26.06        | 725.13                 | 695.17                  | 29.96                     | 24.200            |                                               |           |                    |           |
| 6,100.00                          | 6,028.65              | 6,040.95              | 6,028.95              | 24.49            | 21.14         | -162.50               | -219.77                             | 26.06        | 744.06                 | 713.59                  | 30.47                     | 24.423            |                                               |           |                    |           |
| 6,200.00                          | 6,126.67              | 6,138.96              | 6,126.97              | 24.96            | 21.48         | -162.95               | -219.77                             | 26.06        | 763.03                 | 732.06                  | 30.97                     | 24.639            |                                               |           |                    |           |
| 6,300.00                          | 6,224.68              | 6,236.98              | 6,224.98              | 25.43            | 21.82         | -163.37               | -219.77                             | 26.06        | 782.04                 | 750.57                  | 31.47                     | 24.850            |                                               |           |                    |           |
| 6,400.00                          | 6,322.69              | 6,334.99              | 6,322.99              | 25.91            | 22.16         | -163.78               | -219.77                             | 26.06        | 801.10                 | 769.12                  | 31.97                     | 25.055            |                                               |           |                    |           |
| 6,500.00                          | 6,420.71              | 6,433.00              | 6,421.01              | 26.38            | 22.51         | -164.17               | -219.77                             | 26.06        | 820.19                 | 787.71                  | 32.48                     | 25.254            |                                               |           |                    |           |
| 6,600.00                          | 6,518.72              | 6,531.02              | 6,519.02              | 26.85            | 22.85         | -164.53               | -219.77                             | 26.06        | 839.31                 | 806.33                  | 32.98                     | 25.448            |                                               |           |                    |           |
| 6,669.11                          | 6,586.46              | 6,598.76              | 6,586.76              | 27.18            | 23.08         | -164.78               | -219.77                             | 26.06        | 852.55                 | 819.22                  | 33.33                     | 25.579            |                                               |           |                    |           |
| 6,700.00                          | 6,616.76              | 6,629.06              | 6,617.06              | 27.32            | 23.19         | -164.91               | -219.77                             | 26.06        | 858.35                 | 824.86                  | 33.49                     | 25.633            |                                               |           |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | FMM Fed Com - FMM Fed Com 802H - OH - Plan #1 |         | Offset Site Error: 0.00 usft |  |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|-----------------------------------------------|---------|------------------------------|--|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: 0.00 usft                  |         |                              |  |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                                               | Warning |                              |  |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                                               |         |                              |  |
|                                   |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   |                                               |         |                              |  |
| 6,800.00                          | 6,715.17              | 6,727.46              | 6,715.47              | 27.78            | 23.53         | -165.28               | -219.77                             | 26.06        | 875.52                 | 841.53                  | 33.99                     | 25.759            |                                               |         |                              |  |
| 6,900.00                          | 6,814.01              | 6,826.30              | 6,814.31              | 28.21            | 23.88         | -165.58               | -219.77                             | 26.06        | 890.22                 | 855.72                  | 34.49                     | 25.809            |                                               |         |                              |  |
| 7,000.00                          | 6,913.21              | 6,925.51              | 6,913.51              | 28.62            | 24.23         | -165.82               | -219.77                             | 26.06        | 902.41                 | 867.42                  | 34.99                     | 25.788            |                                               |         |                              |  |
| 7,100.00                          | 7,012.71              | 7,025.01              | 7,013.01              | 29.01            | 24.57         | -166.01               | -219.77                             | 26.06        | 912.09                 | 876.60                  | 35.49                     | 25.698            |                                               |         |                              |  |
| 7,200.00                          | 7,112.43              | 7,124.73              | 7,112.73              | 29.37            | 24.92         | -166.15               | -219.77                             | 26.06        | 919.24                 | 883.25                  | 35.99                     | 25.541            |                                               |         |                              |  |
| 7,300.00                          | 7,212.32              | 7,224.61              | 7,212.62              | 29.72            | 25.27         | -166.24               | -219.77                             | 26.06        | 923.86                 | 887.37                  | 36.48                     | 25.322            |                                               |         |                              |  |
| 7,400.00                          | 7,312.29              | 7,324.59              | 7,312.59              | 30.04            | 25.62         | -166.28               | -219.77                             | 26.06        | 925.94                 | 888.96                  | 36.98                     | 25.041            |                                               |         |                              |  |
| 7,431.71                          | 7,344.00              | 7,356.30              | 7,344.30              | 30.14            | 25.73         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 888.94                  | 37.13                     | 24.941            |                                               |         |                              |  |
| 7,500.00                          | 7,412.29              | 7,424.59              | 7,412.59              | 30.34            | 25.97         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 888.61                  | 37.46                     | 24.723            |                                               |         |                              |  |
| 7,600.00                          | 7,512.29              | 7,524.59              | 7,512.59              | 30.64            | 26.33         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 888.13                  | 37.94                     | 24.409            |                                               |         |                              |  |
| 7,700.00                          | 7,612.29              | 7,624.59              | 7,612.59              | 30.94            | 26.68         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 887.64                  | 38.42                     | 24.103            |                                               |         |                              |  |
| 7,800.00                          | 7,712.29              | 7,724.59              | 7,712.59              | 31.24            | 27.03         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 887.16                  | 38.90                     | 23.804            |                                               |         |                              |  |
| 7,900.00                          | 7,812.29              | 7,824.59              | 7,812.59              | 31.55            | 27.38         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 886.68                  | 39.39                     | 23.512            |                                               |         |                              |  |
| 8,000.00                          | 7,912.29              | 7,924.59              | 7,912.59              | 31.85            | 27.73         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 886.19                  | 39.87                     | 23.226            |                                               |         |                              |  |
| 8,100.00                          | 8,012.29              | 8,024.59              | 8,012.59              | 32.16            | 28.08         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 885.71                  | 40.36                     | 22.948            |                                               |         |                              |  |
| 8,200.00                          | 8,112.29              | 8,124.59              | 8,112.59              | 32.47            | 28.44         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 885.22                  | 40.84                     | 22.675            |                                               |         |                              |  |
| 8,300.00                          | 8,212.29              | 8,224.59              | 8,212.59              | 32.78            | 28.79         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 884.74                  | 41.33                     | 22.409            |                                               |         |                              |  |
| 8,400.00                          | 8,312.29              | 8,324.59              | 8,312.59              | 33.08            | 29.14         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 884.25                  | 41.81                     | 22.148            |                                               |         |                              |  |
| 8,500.00                          | 8,412.29              | 8,424.59              | 8,412.59              | 33.40            | 29.49         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 883.77                  | 42.30                     | 21.894            |                                               |         |                              |  |
| 8,600.00                          | 8,512.29              | 8,524.59              | 8,512.59              | 33.71            | 29.85         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 883.28                  | 42.79                     | 21.644            |                                               |         |                              |  |
| 8,700.00                          | 8,612.29              | 8,624.59              | 8,612.59              | 34.02            | 30.20         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 882.79                  | 43.27                     | 21.401            |                                               |         |                              |  |
| 8,800.00                          | 8,712.29              | 8,724.59              | 8,712.59              | 34.33            | 30.55         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 882.30                  | 43.76                     | 21.162            |                                               |         |                              |  |
| 8,900.00                          | 8,812.29              | 8,824.59              | 8,812.59              | 34.65            | 30.91         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 881.82                  | 44.25                     | 20.929            |                                               |         |                              |  |
| 9,000.00                          | 8,912.29              | 8,924.59              | 8,912.59              | 34.96            | 31.26         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 881.33                  | 44.74                     | 20.700            |                                               |         |                              |  |
| 9,100.00                          | 9,012.29              | 9,024.59              | 9,012.59              | 35.28            | 31.61         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 880.84                  | 45.23                     | 20.476            |                                               |         |                              |  |
| 9,200.00                          | 9,112.29              | 9,124.59              | 9,112.59              | 35.59            | 31.97         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 880.35                  | 45.72                     | 20.257            |                                               |         |                              |  |
| 9,300.00                          | 9,212.29              | 9,224.59              | 9,212.59              | 35.91            | 32.32         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 879.86                  | 46.21                     | 20.042            |                                               |         |                              |  |
| 9,400.00                          | 9,312.29              | 9,324.59              | 9,312.59              | 36.23            | 32.67         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 879.37                  | 46.70                     | 19.832            |                                               |         |                              |  |
| 9,500.00                          | 9,412.29              | 9,424.59              | 9,412.59              | 36.55            | 33.03         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 878.88                  | 47.19                     | 19.625            |                                               |         |                              |  |
| 9,600.00                          | 9,512.29              | 9,524.59              | 9,512.59              | 36.87            | 33.38         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 878.39                  | 47.68                     | 19.423            |                                               |         |                              |  |
| 9,700.00                          | 9,612.29              | 9,624.59              | 9,612.59              | 37.19            | 33.74         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 877.90                  | 48.17                     | 19.225            |                                               |         |                              |  |
| 9,800.00                          | 9,712.29              | 9,724.59              | 9,712.59              | 37.51            | 34.09         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 877.40                  | 48.66                     | 19.031            |                                               |         |                              |  |
| 9,900.00                          | 9,812.29              | 9,824.59              | 9,812.59              | 37.83            | 34.44         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 876.91                  | 49.15                     | 18.841            |                                               |         |                              |  |
| 10,000.00                         | 9,912.29              | 9,924.59              | 9,912.59              | 38.15            | 34.80         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 876.42                  | 49.64                     | 18.654            |                                               |         |                              |  |
| 10,100.00                         | 10,012.29             | 10,024.59             | 10,012.59             | 38.47            | 35.15         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 875.93                  | 50.14                     | 18.471            |                                               |         |                              |  |
| 10,200.00                         | 10,112.29             | 10,124.59             | 10,112.59             | 38.80            | 35.51         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 875.43                  | 50.63                     | 18.291            |                                               |         |                              |  |
| 10,300.00                         | 10,212.29             | 10,224.59             | 10,212.59             | 39.12            | 35.86         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 874.94                  | 51.12                     | 18.114            |                                               |         |                              |  |
| 10,400.00                         | 10,312.29             | 10,324.59             | 10,312.59             | 39.45            | 36.22         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 874.45                  | 51.62                     | 17.941            |                                               |         |                              |  |
| 10,500.00                         | 10,412.29             | 10,424.59             | 10,412.59             | 39.77            | 36.57         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 873.95                  | 52.11                     | 17.771            |                                               |         |                              |  |
| 10,600.00                         | 10,512.29             | 10,524.59             | 10,512.59             | 40.10            | 36.93         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 873.46                  | 52.60                     | 17.604            |                                               |         |                              |  |
| 10,700.00                         | 10,612.29             | 10,624.59             | 10,612.59             | 40.42            | 37.28         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 872.97                  | 53.10                     | 17.441            |                                               |         |                              |  |
| 10,800.00                         | 10,712.29             | 10,724.59             | 10,712.59             | 40.75            | 37.64         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 872.47                  | 53.59                     | 17.280            |                                               |         |                              |  |
| 10,900.00                         | 10,812.29             | 10,824.59             | 10,812.59             | 41.08            | 37.99         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 871.98                  | 54.09                     | 17.122            |                                               |         |                              |  |
| 11,000.00                         | 10,912.29             | 10,924.59             | 10,912.59             | 41.41            | 38.35         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 871.48                  | 54.58                     | 16.966            |                                               |         |                              |  |
| 11,100.00                         | 11,012.29             | 11,024.59             | 11,012.59             | 41.73            | 38.70         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 870.99                  | 55.08                     | 16.814            |                                               |         |                              |  |
| 11,200.00                         | 11,112.29             | 11,124.59             | 11,112.59             | 42.06            | 39.06         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 870.49                  | 55.57                     | 16.664            |                                               |         |                              |  |
| 11,300.00                         | 11,212.29             | 11,224.59             | 11,212.59             | 42.39            | 39.41         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 870.00                  | 56.07                     | 16.517            |                                               |         |                              |  |
| 11,400.00                         | 11,312.29             | 11,324.59             | 11,312.59             | 42.72            | 39.77         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 869.50                  | 56.56                     | 16.372            |                                               |         |                              |  |
| 11,500.00                         | 11,412.29             | 11,424.59             | 11,412.59             | 43.05            | 40.12         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 869.01                  | 57.06                     | 16.230            |                                               |         |                              |  |
| 11,600.00                         | 11,512.29             | 11,524.59             | 11,512.59             | 43.38            | 40.48         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 868.51                  | 57.56                     | 16.090            |                                               |         |                              |  |
| 11,700.00                         | 11,612.29             | 11,624.59             | 11,612.59             | 43.71            | 40.83         | 89.99                 | -219.77                             | 26.06        | 926.07                 | 868.01                  | 58.05                     | 15.952            |                                               |         |                              |  |
| 11,800.00                         | 11,712.29             | 11,724.74             | 11,712.74             | 44.05            | 41.19         | 89.98                 | -219.68                             | 26.06        | 926.06                 | 867.52                  | 58.55                     | 15.817            |                                               |         |                              |  |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design FMM Fed Com - FMM Fed Com 802H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD                           |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                                                   |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    |           |
| Measured Depth (usft)                                       | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning            |           |
| 11,891.19                                                   | 11,803.48             | 11,816.31             | 11,803.78             | 44.35            | 41.50         | 89.43                 | -210.84                             | 25.98        | 926.02                 | 867.04                  | 58.98                     | 15.699            |                    |           |
| 11,906.75                                                   | 11,819.04             | 11,831.54             | 11,818.75             | 44.40            | 41.55         | 89.26                 | -207.96                             | 25.95        | 926.03                 | 866.97                  | 59.05                     | 15.681            |                    |           |
| 11,950.00                                                   | 11,862.25             | 11,873.38             | 11,859.38             | 44.54            | 41.68         | 89.29                 | -198.02                             | 25.85        | 926.09                 | 866.85                  | 59.24                     | 15.633            |                    |           |
| 12,000.00                                                   | 11,911.88             | 11,921.02             | 11,904.61             | 44.70            | 41.83         | 88.69                 | -183.14                             | 25.70        | 926.27                 | 866.83                  | 59.44                     | 15.582            |                    |           |
| 12,050.00                                                   | 11,960.80             | 11,967.92             | 11,947.80             | 44.85            | 41.97         | 88.11                 | -164.86                             | 25.52        | 926.55                 | 866.91                  | 59.63                     | 15.537            |                    |           |
| 12,100.00                                                   | 12,008.65             | 12,014.15             | 11,988.75             | 45.00            | 42.10         | 87.54                 | -143.45                             | 25.31        | 926.91                 | 867.10                  | 59.81                     | 15.498            |                    |           |
| 12,150.00                                                   | 12,055.05             | 12,059.75             | 12,027.33             | 45.13            | 42.22         | 86.99                 | -119.16                             | 25.07        | 927.34                 | 867.37                  | 59.97                     | 15.463            |                    |           |
| 12,200.00                                                   | 12,099.66             | 12,104.77             | 12,063.41             | 45.25            | 42.34         | 86.46                 | -92.25                              | 24.80        | 927.84                 | 867.72                  | 60.12                     | 15.433            |                    |           |
| 12,250.00                                                   | 12,142.12             | 12,150.00             | 12,097.41             | 45.35            | 42.45         | 85.95                 | -62.45                              | 24.51        | 928.39                 | 868.13                  | 60.26                     | 15.406            |                    |           |
| 12,300.00                                                   | 12,182.14             | 12,193.30             | 12,127.66             | 45.45            | 42.55         | 85.49                 | -31.49                              | 24.20        | 928.97                 | 868.58                  | 60.38                     | 15.385            |                    |           |
| 12,350.00                                                   | 12,219.38             | 12,236.89             | 12,155.68             | 45.53            | 42.66         | 85.05                 | 1.90                                | 23.87        | 929.56                 | 869.06                  | 60.50                     | 15.365            |                    |           |
| 12,400.00                                                   | 12,253.58             | 12,280.10             | 12,180.86             | 45.60            | 42.76         | 84.64                 | 37.00                               | 23.52        | 930.15                 | 869.54                  | 60.61                     | 15.346            |                    |           |
| 12,450.00                                                   | 12,284.48             | 12,322.97             | 12,203.15             | 45.65            | 42.86         | 84.27                 | 73.59                               | 23.16        | 930.73                 | 870.01                  | 60.72                     | 15.329            |                    |           |
| 12,500.00                                                   | 12,311.83             | 12,365.54             | 12,222.53             | 45.70            | 42.96         | 83.94                 | 111.49                              | 22.79        | 931.28                 | 870.46                  | 60.82                     | 15.312            |                    |           |
| 12,550.00                                                   | 12,335.43             | 12,407.85             | 12,238.94             | 45.74            | 43.06         | 83.65                 | 150.47                              | 22.40        | 931.78                 | 870.86                  | 60.92                     | 15.294            |                    |           |
| 12,600.00                                                   | 12,355.10             | 12,450.00             | 12,252.39             | 45.77            | 43.15         | 83.40                 | 190.41                              | 22.01        | 932.23                 | 871.20                  | 61.03                     | 15.275            |                    |           |
| 12,650.00                                                   | 12,370.69             | 12,491.84             | 12,262.80             | 45.81            | 43.25         | 83.19                 | 230.92                              | 21.61        | 932.62                 | 871.48                  | 61.14                     | 15.254            |                    |           |
| 12,700.00                                                   | 12,382.08             | 12,533.61             | 12,270.22             | 45.84            | 43.35         | 83.03                 | 272.01                              | 21.20        | 932.92                 | 871.67                  | 61.25                     | 15.231            |                    |           |
| 12,750.00                                                   | 12,389.19             | 12,575.26             | 12,274.62             | 45.89            | 43.45         | 82.91                 | 313.42                              | 20.79        | 933.15                 | 871.77                  | 61.38                     | 15.204            |                    |           |
| 12,800.00                                                   | 12,391.96             | 12,617.22             | 12,276.00             | 45.94            | 43.56         | 82.84                 | 355.34                              | 20.38        | 933.29                 | 871.78                  | 61.51                     | 15.174            |                    |           |
| 12,806.75                                                   | 12,392.00             | 12,623.96             | 12,276.00             | 45.95            | 43.57         | 82.84                 | 362.09                              | 20.31        | 933.29                 | 871.76                  | 61.53                     | 15.168            |                    |           |
| 12,900.00                                                   | 12,392.00             | 12,717.22             | 12,276.00             | 46.10            | 43.83         | 82.84                 | 455.34                              | 19.39        | 933.29                 | 871.42                  | 61.87                     | 15.084            |                    |           |
| 13,000.00                                                   | 12,392.00             | 12,817.22             | 12,276.00             | 46.33            | 44.17         | 82.84                 | 555.33                              | 18.40        | 933.29                 | 870.97                  | 62.32                     | 14.976            |                    |           |
| 13,100.00                                                   | 12,392.00             | 12,917.22             | 12,276.00             | 46.63            | 44.56         | 82.84                 | 655.33                              | 17.41        | 933.29                 | 870.44                  | 62.85                     | 14.850            |                    |           |
| 13,200.00                                                   | 12,392.00             | 13,017.22             | 12,276.00             | 47.00            | 45.02         | 82.84                 | 755.32                              | 16.42        | 933.29                 | 869.83                  | 63.46                     | 14.707            |                    |           |
| 13,300.00                                                   | 12,392.00             | 13,117.22             | 12,276.00             | 47.44            | 45.52         | 82.84                 | 855.32                              | 15.43        | 933.29                 | 869.14                  | 64.15                     | 14.549            |                    |           |
| 13,400.00                                                   | 12,392.00             | 13,217.22             | 12,276.00             | 47.95            | 46.09         | 82.84                 | 955.31                              | 14.44        | 933.29                 | 868.38                  | 64.91                     | 14.378            |                    |           |
| 13,500.00                                                   | 12,392.00             | 13,317.22             | 12,276.00             | 48.51            | 46.70         | 82.84                 | 1,055.31                            | 13.45        | 933.28                 | 867.54                  | 65.75                     | 14.195            |                    |           |
| 13,600.00                                                   | 12,392.00             | 13,417.22             | 12,276.00             | 49.13            | 47.36         | 82.84                 | 1,155.30                            | 12.46        | 933.28                 | 866.63                  | 66.65                     | 14.002            |                    |           |
| 13,700.00                                                   | 12,392.00             | 13,517.22             | 12,276.00             | 49.79            | 48.07         | 82.84                 | 1,255.30                            | 11.47        | 933.28                 | 865.65                  | 67.63                     | 13.800            |                    |           |
| 13,800.00                                                   | 12,392.00             | 13,617.22             | 12,276.00             | 50.51            | 48.83         | 82.84                 | 1,355.29                            | 10.48        | 933.28                 | 864.61                  | 68.67                     | 13.591            |                    |           |
| 13,900.00                                                   | 12,392.00             | 13,717.22             | 12,276.00             | 51.27            | 49.63         | 82.84                 | 1,455.29                            | 9.49         | 933.28                 | 863.51                  | 69.77                     | 13.377            |                    |           |
| 14,000.00                                                   | 12,392.00             | 13,817.22             | 12,276.00             | 52.07            | 50.47         | 82.84                 | 1,555.28                            | 8.50         | 933.28                 | 862.35                  | 70.93                     | 13.158            |                    |           |
| 14,100.00                                                   | 12,392.00             | 13,917.22             | 12,276.00             | 52.91            | 51.35         | 82.84                 | 1,655.28                            | 7.51         | 933.28                 | 861.13                  | 72.15                     | 12.936            |                    |           |
| 14,200.00                                                   | 12,392.00             | 14,017.22             | 12,276.00             | 53.79            | 52.26         | 82.84                 | 1,755.27                            | 6.53         | 933.28                 | 859.86                  | 73.41                     | 12.712            |                    |           |
| 14,300.00                                                   | 12,392.00             | 14,117.22             | 12,276.00             | 54.70            | 53.22         | 82.84                 | 1,855.27                            | 5.54         | 933.28                 | 858.54                  | 74.73                     | 12.488            |                    |           |
| 14,400.00                                                   | 12,392.00             | 14,217.22             | 12,276.00             | 55.65            | 54.20         | 82.84                 | 1,955.26                            | 4.55         | 933.28                 | 857.17                  | 76.10                     | 12.264            |                    |           |
| 14,500.00                                                   | 12,392.00             | 14,317.22             | 12,276.00             | 56.64            | 55.22         | 82.84                 | 2,055.26                            | 3.56         | 933.28                 | 855.76                  | 77.51                     | 12.040            |                    |           |
| 14,600.00                                                   | 12,392.00             | 14,417.22             | 12,276.00             | 57.65            | 56.27         | 82.84                 | 2,155.25                            | 2.57         | 933.27                 | 854.30                  | 78.97                     | 11.818            |                    |           |
| 14,700.00                                                   | 12,392.00             | 14,517.22             | 12,276.00             | 58.69            | 57.35         | 82.84                 | 2,255.25                            | 1.58         | 933.27                 | 852.81                  | 80.47                     | 11.598            |                    |           |
| 14,800.00                                                   | 12,392.00             | 14,617.22             | 12,276.00             | 59.76            | 58.45         | 82.84                 | 2,355.24                            | 0.59         | 933.27                 | 851.27                  | 82.00                     | 11.381            |                    |           |
| 14,900.00                                                   | 12,392.00             | 14,717.22             | 12,276.00             | 60.86            | 59.58         | 82.84                 | 2,455.24                            | -0.40        | 933.27                 | 849.70                  | 83.57                     | 11.167            |                    |           |
| 15,000.00                                                   | 12,392.00             | 14,817.22             | 12,276.00             | 61.98            | 60.74         | 82.84                 | 2,555.23                            | -1.39        | 933.27                 | 848.09                  | 85.18                     | 10.957            |                    |           |
| 15,100.00                                                   | 12,392.00             | 14,917.22             | 12,276.00             | 63.12            | 61.91         | 82.84                 | 2,655.23                            | -2.38        | 933.27                 | 846.45                  | 86.81                     | 10.750            |                    |           |
| 15,200.00                                                   | 12,392.00             | 15,017.22             | 12,276.00             | 64.29            | 63.11         | 82.84                 | 2,755.23                            | -3.37        | 933.27                 | 844.79                  | 88.48                     | 10.547            |                    |           |
| 15,300.00                                                   | 12,392.00             | 15,117.22             | 12,276.00             | 65.47            | 64.33         | 82.84                 | 2,855.22                            | -4.36        | 933.27                 | 843.09                  | 90.18                     | 10.349            |                    |           |
| 15,400.00                                                   | 12,392.00             | 15,217.22             | 12,276.00             | 66.68            | 65.56         | 82.84                 | 2,955.22                            | -5.35        | 933.27                 | 841.36                  | 91.90                     | 10.155            |                    |           |
| 15,500.00                                                   | 12,392.00             | 15,317.22             | 12,276.00             | 67.90            | 66.82         | 82.84                 | 3,055.21                            | -6.33        | 933.27                 | 839.61                  | 93.65                     | 9.965             |                    |           |
| 15,600.00                                                   | 12,392.00             | 15,417.22             | 12,276.00             | 69.15            | 68.09         | 82.84                 | 3,155.21                            | -7.32        | 933.26                 | 837.84                  | 95.43                     | 9.780             |                    |           |
| 15,700.00                                                   | 12,392.00             | 15,517.22             | 12,276.00             | 70.41            | 69.38         | 82.84                 | 3,255.20                            | -8.31        | 933.26                 | 836.04                  | 97.22                     | 9.599             |                    |           |
| 15,800.00                                                   | 12,392.00             | 15,617.22             | 12,276.00             | 71.68            | 70.68         | 82.84                 | 3,355.20                            | -9.30        | 933.26                 | 834.22                  | 99.04                     | 9.423             |                    |           |
| 15,900.00                                                   | 12,392.00             | 15,717.22             | 12,276.00             | 72.97            | 72.00         | 82.84                 | 3,455.19                            | -10.29       | 933.26                 | 832.38                  | 100.88                    | 9.251             |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design FMM Fed Com - FMM Fed Com 802H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD                           |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                                                   |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   | Warning            |           |
| Measured Depth (usft)                                       | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 16,000.00                                                   | 12,392.00             | 15,817.22             | 12,276.00             | 74.28            | 73.33         | 82.84                 | 3,555.19                            | -11.28       | 933.26                 | 830.52                  | 102.74                    | 9.084             |                    |           |
| 16,100.00                                                   | 12,392.00             | 15,917.22             | 12,276.00             | 75.60            | 74.67         | 82.84                 | 3,655.18                            | -12.27       | 933.26                 | 828.64                  | 104.62                    | 8.921             |                    |           |
| 16,200.00                                                   | 12,392.00             | 16,017.22             | 12,276.00             | 76.93            | 76.03         | 82.84                 | 3,755.18                            | -13.26       | 933.26                 | 826.75                  | 106.51                    | 8.762             |                    |           |
| 16,300.00                                                   | 12,392.00             | 16,117.22             | 12,276.00             | 78.27            | 77.39         | 82.84                 | 3,855.17                            | -14.25       | 933.26                 | 824.84                  | 108.42                    | 8.608             |                    |           |
| 16,400.00                                                   | 12,392.00             | 16,217.22             | 12,276.00             | 79.63            | 78.77         | 82.84                 | 3,955.17                            | -15.24       | 933.26                 | 822.91                  | 110.35                    | 8.457             |                    |           |
| 16,500.00                                                   | 12,392.00             | 16,317.22             | 12,276.00             | 80.99            | 80.16         | 82.84                 | 4,055.16                            | -16.23       | 933.26                 | 820.97                  | 112.29                    | 8.311             |                    |           |
| 16,600.00                                                   | 12,392.00             | 16,417.22             | 12,276.00             | 82.37            | 81.56         | 82.84                 | 4,155.16                            | -17.22       | 933.26                 | 819.01                  | 114.24                    | 8.169             |                    |           |
| 16,700.00                                                   | 12,392.00             | 16,517.22             | 12,276.00             | 83.75            | 82.97         | 82.84                 | 4,255.15                            | -18.21       | 933.25                 | 817.04                  | 116.21                    | 8.031             |                    |           |
| 16,800.00                                                   | 12,392.00             | 16,617.22             | 12,276.00             | 85.15            | 84.38         | 82.84                 | 4,355.15                            | -19.20       | 933.25                 | 815.06                  | 118.19                    | 7.896             |                    |           |
| 16,900.00                                                   | 12,392.00             | 16,717.22             | 12,276.00             | 86.56            | 85.81         | 82.84                 | 4,455.14                            | -20.18       | 933.25                 | 813.07                  | 120.19                    | 7.765             |                    |           |
| 17,000.00                                                   | 12,392.00             | 16,817.22             | 12,276.00             | 87.97            | 87.24         | 82.84                 | 4,555.14                            | -21.17       | 933.25                 | 811.06                  | 122.19                    | 7.638             |                    |           |
| 17,100.00                                                   | 12,392.00             | 16,917.22             | 12,276.00             | 89.39            | 88.68         | 82.84                 | 4,655.13                            | -22.16       | 933.25                 | 809.04                  | 124.21                    | 7.514             |                    |           |
| 17,200.00                                                   | 12,392.00             | 17,017.22             | 12,276.00             | 90.82            | 90.13         | 82.84                 | 4,755.13                            | -23.15       | 933.25                 | 807.02                  | 126.23                    | 7.393             |                    |           |
| 17,300.00                                                   | 12,392.00             | 17,117.22             | 12,276.00             | 92.26            | 91.59         | 82.84                 | 4,855.12                            | -24.14       | 933.25                 | 804.98                  | 128.27                    | 7.276             |                    |           |
| 17,400.00                                                   | 12,392.00             | 17,217.22             | 12,276.00             | 93.70            | 93.05         | 82.84                 | 4,955.12                            | -25.13       | 933.25                 | 802.93                  | 130.31                    | 7.162             |                    |           |
| 17,500.00                                                   | 12,392.00             | 17,317.22             | 12,276.00             | 95.15            | 94.52         | 82.84                 | 5,055.11                            | -26.12       | 933.25                 | 800.88                  | 132.37                    | 7.050             |                    |           |
| 17,600.00                                                   | 12,392.00             | 17,417.22             | 12,276.00             | 96.61            | 95.99         | 82.84                 | 5,155.11                            | -27.11       | 933.25                 | 798.81                  | 134.43                    | 6.942             |                    |           |
| 17,700.00                                                   | 12,392.00             | 17,517.22             | 12,276.00             | 98.07            | 97.47         | 82.84                 | 5,255.10                            | -28.10       | 933.24                 | 796.74                  | 136.50                    | 6.837             |                    |           |
| 17,800.00                                                   | 12,392.00             | 17,617.22             | 12,276.00             | 99.54            | 98.95         | 82.84                 | 5,355.10                            | -29.09       | 933.24                 | 794.66                  | 138.58                    | 6.734             |                    |           |
| 17,900.00                                                   | 12,392.00             | 17,717.22             | 12,276.00             | 101.02           | 100.44        | 82.84                 | 5,455.09                            | -30.08       | 933.24                 | 792.58                  | 140.67                    | 6.634             |                    |           |
| 18,000.00                                                   | 12,392.00             | 17,817.22             | 12,276.00             | 102.50           | 101.94        | 82.84                 | 5,555.09                            | -31.07       | 933.24                 | 790.48                  | 142.76                    | 6.537             |                    |           |
| 18,100.00                                                   | 12,392.00             | 17,917.22             | 12,276.00             | 103.98           | 103.44        | 82.84                 | 5,655.08                            | -32.06       | 933.24                 | 788.38                  | 144.86                    | 6.442             |                    |           |
| 18,200.00                                                   | 12,392.00             | 18,017.22             | 12,276.00             | 105.47           | 104.94        | 82.84                 | 5,755.08                            | -33.04       | 933.24                 | 786.27                  | 146.97                    | 6.350             |                    |           |
| 18,300.00                                                   | 12,392.00             | 18,117.22             | 12,276.00             | 106.97           | 106.45        | 82.84                 | 5,855.07                            | -34.03       | 933.24                 | 784.16                  | 149.08                    | 6.260             |                    |           |
| 18,400.00                                                   | 12,392.00             | 18,217.22             | 12,276.00             | 108.47           | 107.97        | 82.84                 | 5,955.07                            | -35.02       | 933.24                 | 782.04                  | 151.20                    | 6.172             |                    |           |
| 18,500.00                                                   | 12,392.00             | 18,317.22             | 12,276.00             | 109.97           | 109.48        | 82.84                 | 6,055.06                            | -36.01       | 933.24                 | 779.91                  | 153.32                    | 6.087             |                    |           |
| 18,600.00                                                   | 12,392.00             | 18,417.22             | 12,276.00             | 111.48           | 111.00        | 82.84                 | 6,155.06                            | -37.00       | 933.24                 | 777.78                  | 155.45                    | 6.003             |                    |           |
| 18,700.00                                                   | 12,392.00             | 18,517.22             | 12,276.00             | 112.99           | 112.53        | 82.84                 | 6,255.05                            | -37.99       | 933.24                 | 775.65                  | 157.59                    | 5.922             |                    |           |
| 18,800.00                                                   | 12,392.00             | 18,617.22             | 12,276.00             | 114.51           | 114.06        | 82.84                 | 6,355.05                            | -38.98       | 933.23                 | 773.51                  | 159.73                    | 5.843             |                    |           |
| 18,900.00                                                   | 12,392.00             | 18,717.22             | 12,276.00             | 116.03           | 115.59        | 82.84                 | 6,455.04                            | -39.97       | 933.23                 | 771.36                  | 161.87                    | 5.765             |                    |           |
| 19,000.00                                                   | 12,392.00             | 18,817.22             | 12,276.00             | 117.55           | 117.12        | 82.84                 | 6,555.04                            | -40.96       | 933.23                 | 769.21                  | 164.02                    | 5.690             |                    |           |
| 19,100.00                                                   | 12,392.00             | 18,917.22             | 12,276.00             | 119.08           | 118.66        | 82.84                 | 6,655.03                            | -41.95       | 933.23                 | 767.05                  | 166.18                    | 5.616             |                    |           |
| 19,200.00                                                   | 12,392.00             | 19,017.22             | 12,276.00             | 120.61           | 120.20        | 82.84                 | 6,755.03                            | -42.94       | 933.23                 | 764.89                  | 168.34                    | 5.544             |                    |           |
| 19,300.00                                                   | 12,392.00             | 19,117.22             | 12,276.00             | 122.14           | 121.75        | 82.84                 | 6,855.02                            | -43.93       | 933.23                 | 762.73                  | 170.50                    | 5.474             |                    |           |
| 19,400.00                                                   | 12,392.00             | 19,217.22             | 12,276.00             | 123.68           | 123.30        | 82.84                 | 6,955.02                            | -44.92       | 933.23                 | 760.56                  | 172.66                    | 5.405             |                    |           |
| 19,500.00                                                   | 12,392.00             | 19,317.22             | 12,276.00             | 125.22           | 124.85        | 82.84                 | 7,055.01                            | -45.91       | 933.23                 | 758.39                  | 174.83                    | 5.338             |                    |           |
| 19,600.00                                                   | 12,392.00             | 19,417.22             | 12,276.00             | 126.76           | 126.40        | 82.84                 | 7,155.01                            | -46.89       | 933.23                 | 756.22                  | 177.01                    | 5.272             |                    |           |
| 19,700.00                                                   | 12,392.00             | 19,517.22             | 12,276.00             | 128.31           | 127.95        | 82.84                 | 7,255.00                            | -47.88       | 933.23                 | 754.04                  | 179.19                    | 5.208             |                    |           |
| 19,800.00                                                   | 12,392.00             | 19,617.22             | 12,276.00             | 129.85           | 129.51        | 82.84                 | 7,355.00                            | -48.87       | 933.22                 | 751.86                  | 181.37                    | 5.146             |                    |           |
| 19,900.00                                                   | 12,392.00             | 19,717.22             | 12,276.00             | 131.40           | 131.07        | 82.84                 | 7,455.00                            | -49.86       | 933.22                 | 749.67                  | 183.55                    | 5.084             |                    |           |
| 20,000.00                                                   | 12,392.00             | 19,817.22             | 12,276.00             | 132.96           | 132.63        | 82.84                 | 7,554.99                            | -50.85       | 933.22                 | 747.49                  | 185.74                    | 5.024             |                    |           |
| 20,100.00                                                   | 12,392.00             | 19,917.22             | 12,276.00             | 134.51           | 134.19        | 82.84                 | 7,654.99                            | -51.84       | 933.22                 | 745.29                  | 187.93                    | 4.966             |                    |           |
| 20,200.00                                                   | 12,392.00             | 20,017.22             | 12,276.00             | 136.07           | 135.76        | 82.84                 | 7,754.98                            | -52.83       | 933.22                 | 743.10                  | 190.12                    | 4.909             |                    |           |
| 20,300.00                                                   | 12,392.00             | 20,117.22             | 12,276.00             | 137.63           | 137.33        | 82.84                 | 7,854.98                            | -53.82       | 933.22                 | 740.90                  | 192.32                    | 4.853             |                    |           |
| 20,400.00                                                   | 12,392.00             | 20,217.22             | 12,276.00             | 139.19           | 138.90        | 82.84                 | 7,954.97                            | -54.81       | 933.22                 | 738.70                  | 194.52                    | 4.798             |                    |           |
| 20,500.00                                                   | 12,392.00             | 20,317.22             | 12,276.00             | 140.75           | 140.47        | 82.84                 | 8,054.97                            | -55.80       | 933.22                 | 736.50                  | 196.72                    | 4.744             |                    |           |
| 20,600.00                                                   | 12,392.00             | 20,417.22             | 12,276.00             | 142.32           | 142.04        | 82.84                 | 8,154.96                            | -56.79       | 933.22                 | 734.30                  | 198.92                    | 4.691             |                    |           |
| 20,700.00                                                   | 12,392.00             | 20,517.22             | 12,276.00             | 143.89           | 143.62        | 82.84                 | 8,254.96                            | -57.78       | 933.22                 | 732.09                  | 201.13                    | 4.640             |                    |           |
| 20,800.00                                                   | 12,392.00             | 20,617.22             | 12,276.00             | 145.46           | 145.20        | 82.84                 | 8,354.95                            | -58.77       | 933.22                 | 729.88                  | 203.34                    | 4.590             |                    |           |
| 20,900.00                                                   | 12,392.00             | 20,717.22             | 12,276.00             | 147.03           | 146.78        | 82.84                 | 8,454.95                            | -59.76       | 933.21                 | 727.67                  | 205.55                    | 4.540             |                    |           |
| 21,000.00                                                   | 12,392.00             | 20,817.22             | 12,276.00             | 148.60           | 148.36        | 82.84                 | 8,554.94                            | -60.74       | 933.21                 | 725.45                  | 207.76                    | 4.492             |                    |           |
| 21,100.00                                                   | 12,392.00             | 20,917.22             | 12,276.00             | 150.18           | 149.94        | 82.84                 | 8,654.94                            | -61.73       | 933.21                 | 723.24                  | 209.97                    | 4.444             |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| <b>Offset Design</b> FMM Fed Com - FMM Fed Com 802H - OH - Plan #1 |                             |                             |                             |                     |                  |                             |                        |                 |                              |                               |                                 | <b>Offset Site Error:</b> | 0.00 usft |
|--------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|---------------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD                                  |                             |                             |                             |                     |                  |                             |                        |                 |                              |                               |                                 | <b>Offset Well Error:</b> | 0.00 usft |
| Reference                                                          |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Offset Wellbore Centre |                 | Distance                     |                               |                                 |                           | Warning   |
| Measured<br>Depth<br>(usft)                                        | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | +N/-S<br>(usft)        | +E/-W<br>(usft) | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) | Minimum<br>Separation<br>(usft) | Separation<br>Factor      |           |
| 21,200.00                                                          | 12,392.00                   | 21,017.22                   | 12,276.00                   | 151.75              | 151.52           | 82.84                       | 8,754.93               | -62.72          | 933.21                       | 721.02                        | 212.19                          | 4.398                     |           |
| 21,300.00                                                          | 12,392.00                   | 21,117.22                   | 12,276.00                   | 153.33              | 153.11           | 82.84                       | 8,854.93               | -63.71          | 933.21                       | 718.80                        | 214.41                          | 4.352                     |           |
| 21,400.00                                                          | 12,392.00                   | 21,217.22                   | 12,276.00                   | 154.91              | 154.69           | 82.84                       | 8,954.92               | -64.70          | 933.21                       | 716.58                        | 216.63                          | 4.308                     |           |
| 21,500.00                                                          | 12,392.00                   | 21,317.22                   | 12,276.00                   | 156.49              | 156.28           | 82.84                       | 9,054.92               | -65.69          | 933.21                       | 714.35                        | 218.85                          | 4.264                     |           |
| 21,600.00                                                          | 12,392.00                   | 21,417.22                   | 12,276.00                   | 158.07              | 157.87           | 82.84                       | 9,154.91               | -66.68          | 933.21                       | 712.13                        | 221.08                          | 4.221                     |           |
| 21,700.00                                                          | 12,392.00                   | 21,517.22                   | 12,276.00                   | 159.66              | 159.46           | 82.84                       | 9,254.91               | -67.67          | 933.21                       | 709.90                        | 223.31                          | 4.179                     |           |
| 21,800.00                                                          | 12,392.00                   | 21,617.22                   | 12,276.00                   | 161.24              | 161.05           | 82.84                       | 9,354.90               | -68.66          | 933.21                       | 707.67                        | 225.53                          | 4.138                     |           |
| 21,900.00                                                          | 12,392.00                   | 21,717.22                   | 12,276.00                   | 162.83              | 162.65           | 82.84                       | 9,454.90               | -69.65          | 933.20                       | 705.44                        | 227.76                          | 4.097                     |           |
| 22,000.00                                                          | 12,392.00                   | 21,817.22                   | 12,276.00                   | 164.42              | 164.24           | 82.84                       | 9,554.89               | -70.64          | 933.20                       | 703.21                        | 230.00                          | 4.057                     |           |
| 22,100.00                                                          | 12,392.00                   | 21,917.22                   | 12,276.00                   | 166.01              | 165.83           | 82.84                       | 9,654.89               | -71.63          | 933.20                       | 700.97                        | 232.23                          | 4.018                     |           |
| 22,200.00                                                          | 12,392.00                   | 22,017.22                   | 12,276.00                   | 167.60              | 167.43           | 82.84                       | 9,754.88               | -72.62          | 933.20                       | 698.74                        | 234.46                          | 3.980                     |           |
| 22,300.00                                                          | 12,392.00                   | 22,117.22                   | 12,276.00                   | 169.19              | 169.03           | 82.84                       | 9,854.88               | -73.60          | 933.20                       | 696.50                        | 236.70                          | 3.943                     |           |
| 22,400.00                                                          | 12,392.00                   | 22,217.22                   | 12,276.00                   | 170.78              | 170.63           | 82.84                       | 9,954.87               | -74.59          | 933.20                       | 694.26                        | 238.94                          | 3.906                     |           |
| 22,500.00                                                          | 12,392.00                   | 22,317.22                   | 12,276.00                   | 172.37              | 172.23           | 82.84                       | 10,054.87              | -75.58          | 933.20                       | 692.02                        | 241.18                          | 3.869                     |           |
| 22,591.81                                                          | 12,392.00                   | 22,409.03                   | 12,276.00                   | 173.84              | 173.70           | 82.84                       | 10,146.68              | -76.49          | 933.20                       | 689.97                        | 243.23                          | 3.837                     |           |
| 22,595.91                                                          | 12,392.00                   | 22,410.08                   | 12,276.00                   | 173.90              | 173.71           | 82.84                       | 10,147.73              | -76.50          | 933.20                       | 689.95                        | 243.26                          | 3.836                     |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design FMM Fed Com - FMM Fed Com 803H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD                           |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                                                   |                       | Offset                |                       | Semi Major Axis  |               | Distance              |                                     |              |                        |                         |                           |                   |                    | Warning   |
| Measured Depth (usft)                                       | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 1,843.00                                                    | 1,843.00              | 1,843.90              | 1,843.90              | 6.37             | 6.38          | 89.46                 | 0.47                                | 50.13        | 50.13                  | 41.12                   | 9.02                      | 5.560             |                    |           |
| 1,900.00                                                    | 1,900.00              | 1,900.90              | 1,900.90              | 6.58             | 6.58          | 89.46                 | 0.47                                | 50.13        | 50.13                  | 40.83                   | 9.30                      | 5.388             |                    |           |
| 1,916.36                                                    | 1,916.36              | 1,917.26              | 1,917.26              | 6.64             | 6.64          | 89.46                 | 0.47                                | 50.13        | 50.13                  | 40.74                   | 9.39                      | 5.340 CC          |                    |           |
| 2,000.00                                                    | 2,000.00              | 2,000.89              | 2,000.89              | 6.94             | 6.94          | 89.46                 | 0.47                                | 50.13        | 50.13                  | 40.32                   | 9.81                      | 5.109 ES, SF      |                    |           |
| 2,100.00                                                    | 2,099.99              | 2,100.00              | 2,099.99              | 7.28             | 7.28          | -166.78               | 0.17                                | 51.40        | 52.69                  | 42.39                   | 10.30                     | 5.115             |                    |           |
| 2,200.00                                                    | 2,199.91              | 2,197.86              | 2,197.78              | 7.62             | 7.62          | -166.73               | -0.70                               | 55.12        | 60.28                  | 49.52                   | 10.76                     | 5.602             |                    |           |
| 2,300.00                                                    | 2,299.69              | 2,295.41              | 2,295.12              | 7.97             | 7.95          | -166.67               | -2.13                               | 61.25        | 72.89                  | 61.68                   | 11.22                     | 6.498             |                    |           |
| 2,400.00                                                    | 2,399.27              | 2,391.85              | 2,391.17              | 8.31             | 8.28          | -166.60               | -4.10                               | 69.68        | 90.46                  | 78.79                   | 11.67                     | 7.753             |                    |           |
| 2,500.00                                                    | 2,498.57              | 2,486.84              | 2,485.53              | 8.66             | 8.62          | -166.54               | -6.59                               | 80.30        | 112.91                 | 100.80                  | 12.11                     | 9.324             |                    |           |
| 2,600.00                                                    | 2,597.54              | 2,580.06              | 2,577.84              | 9.02             | 8.95          | -166.46               | -9.54                               | 92.93        | 140.15                 | 127.61                  | 12.54                     | 11.176            |                    |           |
| 2,700.00                                                    | 2,696.09              | 2,671.22              | 2,667.77              | 9.39             | 9.29          | -166.38               | -12.93                              | 107.41       | 172.05                 | 159.09                  | 12.96                     | 13.276            |                    |           |
| 2,762.60                                                    | 2,757.54              | 2,727.11              | 2,722.72              | 9.63             | 9.50          | -166.33               | -15.25                              | 117.31       | 194.34                 | 181.13                  | 13.22                     | 14.705            |                    |           |
| 2,800.00                                                    | 2,794.20              | 2,760.11              | 2,755.10              | 9.77             | 9.62          | -166.34               | -16.70                              | 123.53       | 208.34                 | 194.97                  | 13.37                     | 15.585            |                    |           |
| 2,900.00                                                    | 2,892.21              | 2,852.43              | 2,845.58              | 10.17            | 9.98          | -166.33               | -20.88                              | 141.39       | 246.22                 | 232.40                  | 13.83                     | 17.807            |                    |           |
| 3,000.00                                                    | 2,990.23              | 2,944.98              | 2,936.28              | 10.56            | 10.35         | -166.32               | -25.07                              | 159.30       | 284.11                 | 269.82                  | 14.29                     | 19.876            |                    |           |
| 3,100.00                                                    | 3,088.24              | 3,037.52              | 3,026.98              | 10.97            | 10.72         | -166.32               | -29.26                              | 177.21       | 322.00                 | 307.24                  | 14.76                     | 21.810            |                    |           |
| 3,200.00                                                    | 3,186.26              | 3,130.06              | 3,117.68              | 11.38            | 11.10         | -166.31               | -33.45                              | 195.12       | 359.89                 | 344.66                  | 15.24                     | 23.620            |                    |           |
| 3,300.00                                                    | 3,284.27              | 3,222.61              | 3,208.38              | 11.80            | 11.48         | -166.31               | -37.64                              | 213.03       | 397.78                 | 382.07                  | 15.71                     | 25.317            |                    |           |
| 3,400.00                                                    | 3,382.28              | 3,315.15              | 3,299.07              | 12.22            | 11.86         | -166.30               | -41.82                              | 230.93       | 435.67                 | 419.48                  | 16.19                     | 26.910            |                    |           |
| 3,500.00                                                    | 3,480.30              | 3,407.69              | 3,389.77              | 12.65            | 12.26         | -166.30               | -46.01                              | 248.84       | 473.56                 | 456.89                  | 16.67                     | 28.408            |                    |           |
| 3,600.00                                                    | 3,578.31              | 3,500.24              | 3,480.47              | 13.08            | 12.65         | -166.30               | -50.20                              | 266.75       | 511.45                 | 494.30                  | 17.15                     | 29.818            |                    |           |
| 3,700.00                                                    | 3,676.32              | 3,592.78              | 3,571.17              | 13.51            | 13.05         | -166.30               | -54.39                              | 284.66       | 549.34                 | 531.71                  | 17.64                     | 31.148            |                    |           |
| 3,800.00                                                    | 3,774.34              | 3,685.33              | 3,661.86              | 13.95            | 13.45         | -166.30               | -58.58                              | 302.57       | 587.23                 | 569.11                  | 18.12                     | 32.403            |                    |           |
| 3,900.00                                                    | 3,872.35              | 3,777.87              | 3,752.56              | 14.39            | 13.85         | -166.29               | -62.77                              | 320.48       | 625.12                 | 606.51                  | 18.61                     | 33.589            |                    |           |
| 4,000.00                                                    | 3,970.37              | 3,870.41              | 3,843.26              | 14.83            | 14.26         | -166.29               | -66.96                              | 338.38       | 663.01                 | 643.91                  | 19.10                     | 34.712            |                    |           |
| 4,100.00                                                    | 4,068.38              | 3,962.96              | 3,933.96              | 15.28            | 14.67         | -166.29               | -71.15                              | 356.29       | 700.90                 | 681.31                  | 19.59                     | 35.776            |                    |           |
| 4,200.00                                                    | 4,166.39              | 4,055.50              | 4,024.66              | 15.72            | 15.08         | -166.29               | -75.34                              | 374.20       | 738.79                 | 718.71                  | 20.08                     | 36.785            |                    |           |
| 4,300.00                                                    | 4,264.41              | 4,148.04              | 4,115.35              | 16.17            | 15.50         | -166.29               | -79.53                              | 392.11       | 776.68                 | 756.11                  | 20.58                     | 37.744            |                    |           |
| 4,400.00                                                    | 4,362.42              | 4,240.59              | 4,206.05              | 16.63            | 15.91         | -166.29               | -83.72                              | 410.02       | 814.57                 | 793.50                  | 21.07                     | 38.656            |                    |           |
| 4,500.00                                                    | 4,460.43              | 4,333.13              | 4,296.75              | 17.08            | 16.33         | -166.29               | -87.91                              | 427.92       | 852.46                 | 830.90                  | 21.57                     | 39.523            |                    |           |
| 4,600.00                                                    | 4,558.45              | 4,425.68              | 4,387.45              | 17.54            | 16.75         | -166.29               | -92.10                              | 445.83       | 890.35                 | 868.29                  | 22.07                     | 40.350            |                    |           |
| 4,700.00                                                    | 4,656.46              | 4,518.22              | 4,478.14              | 17.99            | 17.17         | -166.29               | -96.28                              | 463.74       | 928.24                 | 905.68                  | 22.56                     | 41.138            |                    |           |
| 4,800.00                                                    | 4,754.47              | 4,610.76              | 4,568.84              | 18.45            | 17.59         | -166.29               | -100.47                             | 481.65       | 966.13                 | 943.07                  | 23.06                     | 41.891            |                    |           |
| 4,900.00                                                    | 4,852.49              | 4,703.31              | 4,659.54              | 18.91            | 18.01         | -166.29               | -104.66                             | 499.56       | 1,004.02               | 980.46                  | 23.56                     | 42.610            |                    |           |
| 5,000.00                                                    | 4,950.50              | 4,795.85              | 4,750.24              | 19.37            | 18.43         | -166.28               | -108.85                             | 517.47       | 1,041.91               | 1,017.85                | 24.06                     | 43.297            |                    |           |
| 5,100.00                                                    | 5,048.52              | 4,888.39              | 4,840.94              | 19.83            | 18.86         | -166.28               | -113.04                             | 535.37       | 1,079.80               | 1,055.24                | 24.57                     | 43.955            |                    |           |
| 5,200.00                                                    | 5,146.53              | 4,980.94              | 4,931.63              | 20.29            | 19.29         | -166.28               | -117.23                             | 553.28       | 1,117.69               | 1,092.63                | 25.07                     | 44.586            |                    |           |
| 5,300.00                                                    | 5,244.54              | 5,073.48              | 5,022.33              | 20.76            | 19.71         | -166.28               | -121.42                             | 571.19       | 1,155.58               | 1,130.01                | 25.57                     | 45.190            |                    |           |
| 5,400.00                                                    | 5,342.56              | 5,166.03              | 5,113.03              | 21.22            | 20.14         | -166.28               | -125.61                             | 589.10       | 1,193.47               | 1,167.40                | 26.08                     | 45.770            |                    |           |
| 5,500.00                                                    | 5,440.57              | 5,258.57              | 5,203.73              | 21.69            | 20.57         | -166.28               | -129.80                             | 607.01       | 1,231.37               | 1,204.78                | 26.58                     | 46.326            |                    |           |
| 5,600.00                                                    | 5,538.58              | 5,351.11              | 5,294.42              | 22.15            | 21.00         | -166.28               | -133.99                             | 624.92       | 1,269.26               | 1,242.17                | 27.09                     | 46.861            |                    |           |
| 5,700.00                                                    | 5,636.60              | 5,443.66              | 5,385.12              | 22.62            | 21.43         | -166.28               | -138.18                             | 642.82       | 1,307.15               | 1,279.55                | 27.59                     | 47.375            |                    |           |
| 5,800.00                                                    | 5,734.61              | 5,536.20              | 5,475.82              | 23.09            | 21.86         | -166.28               | -142.37                             | 660.73       | 1,345.04               | 1,316.94                | 28.10                     | 47.870            |                    |           |
| 5,900.00                                                    | 5,832.62              | 5,628.74              | 5,566.52              | 23.56            | 22.29         | -166.28               | -146.55                             | 678.64       | 1,382.93               | 1,354.32                | 28.60                     | 48.346            |                    |           |
| 6,000.00                                                    | 5,930.64              | 5,721.29              | 5,657.22              | 24.02            | 22.72         | -166.28               | -150.74                             | 696.55       | 1,420.82               | 1,391.70                | 29.11                     | 48.805            |                    |           |
| 6,100.00                                                    | 6,028.65              | 5,813.83              | 5,747.91              | 24.49            | 23.16         | -166.28               | -154.93                             | 714.46       | 1,458.71               | 1,429.09                | 29.62                     | 49.247            |                    |           |
| 6,200.00                                                    | 6,126.67              | 5,906.38              | 5,838.61              | 24.96            | 23.59         | -166.28               | -159.12                             | 732.37       | 1,496.60               | 1,466.47                | 30.13                     | 49.673            |                    |           |
| 6,300.00                                                    | 6,224.68              | 5,998.92              | 5,929.31              | 25.43            | 24.02         | -166.28               | -163.31                             | 750.27       | 1,534.49               | 1,503.85                | 30.64                     | 50.085            |                    |           |
| 6,400.00                                                    | 6,322.69              | 6,091.46              | 6,020.01              | 25.91            | 24.46         | -166.28               | -167.50                             | 768.18       | 1,572.38               | 1,541.23                | 31.15                     | 50.482            |                    |           |
| 6,500.00                                                    | 6,420.71              | 6,184.01              | 6,110.70              | 26.38            | 24.89         | -166.28               | -171.69                             | 786.09       | 1,610.27               | 1,578.61                | 31.66                     | 50.866            |                    |           |
| 6,600.00                                                    | 6,518.72              | 6,276.55              | 6,201.40              | 26.85            | 25.33         | -166.28               | -175.88                             | 804.00       | 1,648.16               | 1,615.99                | 32.17                     | 51.237            |                    |           |
| 6,669.11                                                    | 6,586.46              | 6,340.51              | 6,264.09              | 27.18            | 25.63         | -166.28               | -178.77                             | 816.38       | 1,674.34               | 1,641.82                | 32.52                     | 51.486            |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | FMM Fed Com - FMM Fed Com 803H - OH - Plan #1 |           | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|-----------------------------------------------|-----------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error:                            | 0.00 usft |                    |           |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                                               |           |                    |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning                                       |           |                    |           |
| 6,700.00                          | 6,616.76              | 6,369.14              | 6,292.14              | 27.32            | 25.76         | -166.32               | -180.07                             | 821.92       | 1,685.93               | 1,653.25                | 32.68                     | 51.592            |                                               |           |                    |           |
| 6,800.00                          | 6,715.17              | 6,462.44              | 6,383.58              | 27.78            | 26.20         | -166.44               | -184.29                             | 839.97       | 1,721.91               | 1,688.72                | 33.19                     | 51.881            |                                               |           |                    |           |
| 6,900.00                          | 6,814.01              | 6,556.62              | 6,475.88              | 28.21            | 26.65         | -166.53               | -188.56                             | 858.20       | 1,755.50               | 1,721.80                | 33.70                     | 52.090            |                                               |           |                    |           |
| 7,000.00                          | 6,913.21              | 6,651.61              | 6,568.98              | 28.62            | 27.10         | -166.58               | -192.86                             | 876.58       | 1,786.69               | 1,752.47                | 34.21                     | 52.222            |                                               |           |                    |           |
| 7,100.00                          | 7,012.71              | 6,823.46              | 6,738.06              | 29.01            | 27.88         | -166.57               | -199.84                             | 906.43       | 1,813.58               | 1,778.44                | 35.14                     | 51.607            |                                               |           |                    |           |
| 7,200.00                          | 7,112.43              | 7,006.33              | 6,919.30              | 29.37            | 28.64         | -166.56               | -205.36                             | 930.04       | 1,833.56               | 1,797.50                | 36.05                     | 50.860            |                                               |           |                    |           |
| 7,300.00                          | 7,212.32              | 7,192.90              | 7,105.18              | 29.72            | 29.34         | -166.56               | -208.95                             | 945.39       | 1,846.38               | 1,809.49                | 36.89                     | 50.051            |                                               |           |                    |           |
| 7,400.00                          | 7,312.29              | 7,381.59              | 7,293.73              | 30.04            | 29.97         | -166.56               | -210.48                             | 951.91       | 1,851.91               | 1,814.26                | 37.65                     | 49.188            |                                               |           |                    |           |
| 7,431.71                          | 7,344.00              | 7,432.76              | 7,344.90              | 30.14            | 30.12         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,814.31                | 37.85                     | 48.936            |                                               |           |                    |           |
| 7,500.00                          | 7,412.29              | 7,501.05              | 7,413.19              | 30.34            | 30.33         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,813.99                | 38.17                     | 48.527            |                                               |           |                    |           |
| 7,600.00                          | 7,512.29              | 7,601.05              | 7,513.19              | 30.64            | 30.63         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,813.52                | 38.63                     | 47.941            |                                               |           |                    |           |
| 7,700.00                          | 7,612.29              | 7,701.05              | 7,613.19              | 30.94            | 30.93         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,813.05                | 39.10                     | 47.367            |                                               |           |                    |           |
| 7,800.00                          | 7,712.29              | 7,801.05              | 7,713.19              | 31.24            | 31.23         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,812.58                | 39.57                     | 46.805            |                                               |           |                    |           |
| 7,900.00                          | 7,812.29              | 7,901.05              | 7,813.19              | 31.55            | 31.54         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,812.11                | 40.04                     | 46.256            |                                               |           |                    |           |
| 8,000.00                          | 7,912.29              | 8,001.05              | 7,913.19              | 31.85            | 31.84         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,811.64                | 40.51                     | 45.718            |                                               |           |                    |           |
| 8,100.00                          | 8,012.29              | 8,101.05              | 8,013.19              | 32.16            | 32.15         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,811.17                | 40.98                     | 45.192            |                                               |           |                    |           |
| 8,200.00                          | 8,112.29              | 8,201.05              | 8,113.19              | 32.47            | 32.46         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,810.70                | 41.46                     | 44.677            |                                               |           |                    |           |
| 8,300.00                          | 8,212.29              | 8,301.05              | 8,213.19              | 32.78            | 32.77         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,810.22                | 41.93                     | 44.173            |                                               |           |                    |           |
| 8,400.00                          | 8,312.29              | 8,401.05              | 8,313.19              | 33.08            | 33.08         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,809.75                | 42.40                     | 43.679            |                                               |           |                    |           |
| 8,500.00                          | 8,412.29              | 8,501.05              | 8,413.19              | 33.40            | 33.39         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,809.28                | 42.88                     | 43.195            |                                               |           |                    |           |
| 8,600.00                          | 8,512.29              | 8,601.05              | 8,513.19              | 33.71            | 33.70         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,808.80                | 43.35                     | 42.721            |                                               |           |                    |           |
| 8,700.00                          | 8,612.29              | 8,701.05              | 8,613.19              | 34.02            | 34.01         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,808.32                | 43.83                     | 42.257            |                                               |           |                    |           |
| 8,800.00                          | 8,712.29              | 8,801.05              | 8,713.19              | 34.33            | 34.33         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,807.85                | 44.31                     | 41.802            |                                               |           |                    |           |
| 8,900.00                          | 8,812.29              | 8,901.05              | 8,813.19              | 34.65            | 34.64         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,807.37                | 44.79                     | 41.356            |                                               |           |                    |           |
| 9,000.00                          | 8,912.29              | 9,001.05              | 8,913.19              | 34.96            | 34.96         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,806.89                | 45.26                     | 40.919            |                                               |           |                    |           |
| 9,100.00                          | 9,012.29              | 9,101.05              | 9,013.19              | 35.28            | 35.27         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,806.41                | 45.74                     | 40.491            |                                               |           |                    |           |
| 9,200.00                          | 9,112.29              | 9,201.05              | 9,113.19              | 35.59            | 35.59         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,805.93                | 46.22                     | 40.071            |                                               |           |                    |           |
| 9,300.00                          | 9,212.29              | 9,301.05              | 9,213.19              | 35.91            | 35.91         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,805.45                | 46.70                     | 39.659            |                                               |           |                    |           |
| 9,400.00                          | 9,312.29              | 9,401.05              | 9,313.19              | 36.23            | 36.23         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,804.97                | 47.18                     | 39.255            |                                               |           |                    |           |
| 9,500.00                          | 9,412.29              | 9,501.05              | 9,413.19              | 36.55            | 36.54         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,804.49                | 47.66                     | 38.859            |                                               |           |                    |           |
| 9,600.00                          | 9,512.29              | 9,601.05              | 9,513.19              | 36.87            | 36.86         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,804.01                | 48.15                     | 38.470            |                                               |           |                    |           |
| 9,700.00                          | 9,612.29              | 9,701.05              | 9,613.19              | 37.19            | 37.19         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,803.53                | 48.63                     | 38.088            |                                               |           |                    |           |
| 9,800.00                          | 9,712.29              | 9,801.05              | 9,713.19              | 37.51            | 37.51         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,803.04                | 49.11                     | 37.714            |                                               |           |                    |           |
| 9,900.00                          | 9,812.29              | 9,901.05              | 9,813.19              | 37.83            | 37.83         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,802.56                | 49.59                     | 37.346            |                                               |           |                    |           |
| 10,000.00                         | 9,912.29              | 10,001.05             | 9,913.19              | 38.15            | 38.15         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,802.08                | 50.08                     | 36.986            |                                               |           |                    |           |
| 10,100.00                         | 10,012.29             | 10,101.05             | 10,013.19             | 38.47            | 38.47         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,801.59                | 50.56                     | 36.632            |                                               |           |                    |           |
| 10,200.00                         | 10,112.29             | 10,201.05             | 10,113.19             | 38.80            | 38.80         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,801.11                | 51.05                     | 36.284            |                                               |           |                    |           |
| 10,300.00                         | 10,212.29             | 10,301.05             | 10,213.19             | 39.12            | 39.12         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,800.62                | 51.53                     | 35.942            |                                               |           |                    |           |
| 10,400.00                         | 10,312.29             | 10,401.05             | 10,313.19             | 39.45            | 39.45         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,800.14                | 52.02                     | 35.607            |                                               |           |                    |           |
| 10,500.00                         | 10,412.29             | 10,501.05             | 10,413.19             | 39.77            | 39.77         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,799.65                | 52.50                     | 35.277            |                                               |           |                    |           |
| 10,600.00                         | 10,512.29             | 10,601.05             | 10,513.19             | 40.10            | 40.10         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,799.17                | 52.99                     | 34.954            |                                               |           |                    |           |
| 10,700.00                         | 10,612.29             | 10,701.05             | 10,613.19             | 40.42            | 40.43         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,798.68                | 53.48                     | 34.636            |                                               |           |                    |           |
| 10,800.00                         | 10,712.29             | 10,801.05             | 10,713.19             | 40.75            | 40.75         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,798.19                | 53.96                     | 34.323            |                                               |           |                    |           |
| 10,900.00                         | 10,812.29             | 10,901.05             | 10,813.19             | 41.08            | 41.08         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,797.70                | 54.45                     | 34.016            |                                               |           |                    |           |
| 11,000.00                         | 10,912.29             | 11,001.05             | 10,913.19             | 41.41            | 41.41         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,797.22                | 54.94                     | 33.714            |                                               |           |                    |           |
| 11,100.00                         | 11,012.29             | 11,101.05             | 11,013.19             | 41.73            | 41.74         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,796.73                | 55.43                     | 33.417            |                                               |           |                    |           |
| 11,200.00                         | 11,112.29             | 11,201.05             | 11,113.19             | 42.06            | 42.07         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,796.24                | 55.91                     | 33.125            |                                               |           |                    |           |
| 11,300.00                         | 11,212.29             | 11,301.05             | 11,213.19             | 42.39            | 42.40         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,795.75                | 56.40                     | 32.838            |                                               |           |                    |           |
| 11,400.00                         | 11,312.29             | 11,401.05             | 11,313.19             | 42.72            | 42.73         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,795.26                | 56.89                     | 32.556            |                                               |           |                    |           |
| 11,500.00                         | 11,412.29             | 11,501.05             | 11,413.19             | 43.05            | 43.06         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,794.77                | 57.38                     | 32.278            |                                               |           |                    |           |
| 11,600.00                         | 11,512.29             | 11,601.05             | 11,513.19             | 43.38            | 43.39         | 89.71                 | -210.53                             | 952.13       | 1,852.15               | 1,794.28                | 57.87                     | 32.005            |                                               |           |                    |           |
| 11,700.00                         | 11,612.29             | 11,701.71             | 11,613.78             | 43.71            | 43.72         | 89.64                 | -208.28                             | 952.11       | 1,852.14               | 1,793.78                | 58.36                     | 31.737            |                                               |           |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design FMM Fed Com - FMM Fed Com 803H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD                           |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                                                   |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    |           |
| Measured Depth (usft)                                       | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning            |           |
| 11,750.37                                                   | 11,662.66             | 11,751.95             | 11,663.56             | 43.88            | 43.88         | 89.43                 | -201.64                             | 952.04       | 1,852.13               | 1,793.53                | 58.60                     | 31.606            |                    |           |
| 11,800.00                                                   | 11,712.29             | 11,800.00             | 11,710.46             | 44.05            | 44.02         | 89.11                 | -191.24                             | 951.94       | 1,852.16               | 1,793.34                | 58.83                     | 31.484            |                    |           |
| 11,906.75                                                   | 11,819.04             | 11,895.76             | 11,800.52             | 44.40            | 44.28         | 88.11                 | -159.00                             | 951.62       | 1,852.73               | 1,793.44                | 59.29                     | 31.251            |                    |           |
| 11,950.00                                                   | 11,862.25             | 11,931.74             | 11,832.77             | 44.54            | 44.36         | 88.17                 | -143.07                             | 951.46       | 1,853.26               | 1,793.80                | 59.46                     | 31.170            |                    |           |
| 12,000.00                                                   | 11,911.88             | 11,972.38             | 11,867.92             | 44.70            | 44.45         | 87.60                 | -122.69                             | 951.26       | 1,854.05               | 1,794.41                | 59.64                     | 31.086            |                    |           |
| 12,050.00                                                   | 11,960.80             | 12,012.12             | 11,900.81             | 44.85            | 44.53         | 87.03                 | -100.39                             | 951.04       | 1,855.01               | 1,795.19                | 59.82                     | 31.011            |                    |           |
| 12,100.00                                                   | 12,008.65             | 12,050.00             | 11,930.64             | 45.00            | 44.60         | 86.50                 | -77.07                              | 950.81       | 1,856.11               | 1,796.13                | 59.98                     | 30.947            |                    |           |
| 12,150.00                                                   | 12,055.05             | 12,089.34             | 11,959.93             | 45.13            | 44.66         | 85.96                 | -50.81                              | 950.55       | 1,857.31               | 1,797.18                | 60.13                     | 30.889            |                    |           |
| 12,200.00                                                   | 12,099.66             | 12,127.00             | 11,986.21             | 45.25            | 44.71         | 85.46                 | -23.86                              | 950.28       | 1,858.59               | 1,798.32                | 60.27                     | 30.840            |                    |           |
| 12,250.00                                                   | 12,142.12             | 12,164.12             | 12,010.33             | 45.35            | 44.76         | 84.98                 | 4.35                                | 950.00       | 1,859.91               | 1,799.52                | 60.39                     | 30.797            |                    |           |
| 12,300.00                                                   | 12,182.14             | 12,200.00             | 12,031.86             | 45.45            | 44.80         | 84.54                 | 33.04                               | 949.72       | 1,861.25               | 1,800.74                | 60.51                     | 30.760            |                    |           |
| 12,350.00                                                   | 12,219.38             | 12,237.01             | 12,052.15             | 45.53            | 44.83         | 84.12                 | 64.00                               | 949.41       | 1,862.57               | 1,801.95                | 60.62                     | 30.724            |                    |           |
| 12,400.00                                                   | 12,253.58             | 12,272.90             | 12,069.87             | 45.60            | 44.85         | 83.73                 | 95.20                               | 949.10       | 1,863.85               | 1,803.12                | 60.73                     | 30.691            |                    |           |
| 12,450.00                                                   | 12,284.48             | 12,308.49             | 12,085.48             | 45.65            | 44.87         | 83.38                 | 127.17                              | 948.78       | 1,865.06               | 1,804.22                | 60.83                     | 30.659            |                    |           |
| 12,500.00                                                   | 12,311.83             | 12,350.00             | 12,101.14             | 45.70            | 44.90         | 83.04                 | 165.60                              | 948.40       | 1,866.18               | 1,805.23                | 60.95                     | 30.619            |                    |           |
| 12,550.00                                                   | 12,335.43             | 12,378.91             | 12,110.38             | 45.74            | 44.91         | 82.80                 | 192.99                              | 948.13       | 1,867.17               | 1,806.13                | 61.04                     | 30.591            |                    |           |
| 12,600.00                                                   | 12,355.10             | 12,413.83             | 12,119.68             | 45.77            | 44.93         | 82.57                 | 226.64                              | 947.80       | 1,868.03               | 1,806.89                | 61.14                     | 30.552            |                    |           |
| 12,650.00                                                   | 12,370.69             | 12,450.00             | 12,127.14             | 45.81            | 44.95         | 82.38                 | 262.03                              | 947.45       | 1,868.74               | 1,807.48                | 61.25                     | 30.508            |                    |           |
| 12,700.00                                                   | 12,382.08             | 12,483.26             | 12,132.01             | 45.84            | 44.97         | 82.25                 | 294.92                              | 947.12       | 1,869.28               | 1,807.92                | 61.37                     | 30.461            |                    |           |
| 12,750.00                                                   | 12,389.19             | 12,517.84             | 12,135.04             | 45.89            | 45.00         | 82.15                 | 329.36                              | 946.78       | 1,869.65               | 1,808.17                | 61.49                     | 30.406            |                    |           |
| 12,800.00                                                   | 12,391.96             | 12,553.04             | 12,136.00             | 45.94            | 45.04         | 82.10                 | 364.54                              | 946.43       | 1,869.84               | 1,808.22                | 61.62                     | 30.345            |                    |           |
| 12,806.75                                                   | 12,392.00             | 12,559.79             | 12,136.00             | 45.95            | 45.04         | 82.10                 | 371.29                              | 946.36       | 1,869.85               | 1,808.21                | 61.64                     | 30.334            |                    |           |
| 12,900.00                                                   | 12,392.00             | 12,653.04             | 12,136.00             | 46.10            | 45.18         | 82.10                 | 464.53                              | 945.44       | 1,869.85               | 1,807.86                | 61.99                     | 30.164            |                    |           |
| 13,000.00                                                   | 12,392.00             | 12,753.04             | 12,136.00             | 46.33            | 45.40         | 82.10                 | 564.53                              | 944.45       | 1,869.84               | 1,807.40                | 62.44                     | 29.946            |                    |           |
| 13,100.00                                                   | 12,392.00             | 12,853.04             | 12,136.00             | 46.63            | 45.71         | 82.10                 | 664.52                              | 943.46       | 1,869.84               | 1,806.87                | 62.97                     | 29.693            |                    |           |
| 13,200.00                                                   | 12,392.00             | 12,953.04             | 12,136.00             | 47.00            | 46.09         | 82.10                 | 764.52                              | 942.47       | 1,869.84               | 1,806.25                | 63.58                     | 29.407            |                    |           |
| 13,300.00                                                   | 12,392.00             | 13,053.04             | 12,136.00             | 47.44            | 46.55         | 82.10                 | 864.51                              | 941.48       | 1,869.84               | 1,805.56                | 64.27                     | 29.091            |                    |           |
| 13,400.00                                                   | 12,392.00             | 13,153.04             | 12,136.00             | 47.95            | 47.07         | 82.10                 | 964.51                              | 940.48       | 1,869.83               | 1,804.79                | 65.04                     | 28.749            |                    |           |
| 13,500.00                                                   | 12,392.00             | 13,253.04             | 12,136.00             | 48.51            | 47.65         | 82.10                 | 1,064.50                            | 939.49       | 1,869.83               | 1,803.95                | 65.88                     | 28.383            |                    |           |
| 13,600.00                                                   | 12,392.00             | 13,353.04             | 12,136.00             | 49.13            | 48.28         | 82.10                 | 1,164.50                            | 938.50       | 1,869.83               | 1,803.04                | 66.79                     | 27.997            |                    |           |
| 13,700.00                                                   | 12,392.00             | 13,453.04             | 12,136.00             | 49.79            | 48.97         | 82.10                 | 1,264.49                            | 937.51       | 1,869.82               | 1,802.06                | 67.76                     | 27.593            |                    |           |
| 13,800.00                                                   | 12,392.00             | 13,553.04             | 12,136.00             | 50.51            | 49.70         | 82.10                 | 1,364.49                            | 936.52       | 1,869.82               | 1,801.02                | 68.80                     | 27.176            |                    |           |
| 13,900.00                                                   | 12,392.00             | 13,653.04             | 12,136.00             | 51.27            | 50.48         | 82.10                 | 1,464.48                            | 935.53       | 1,869.82               | 1,799.91                | 69.91                     | 26.748            |                    |           |
| 14,000.00                                                   | 12,392.00             | 13,753.04             | 12,136.00             | 52.07            | 51.30         | 82.10                 | 1,564.48                            | 934.54       | 1,869.82               | 1,798.75                | 71.07                     | 26.311            |                    |           |
| 14,100.00                                                   | 12,392.00             | 13,853.04             | 12,136.00             | 52.91            | 52.16         | 82.10                 | 1,664.47                            | 933.55       | 1,869.81               | 1,797.53                | 72.28                     | 25.868            |                    |           |
| 14,200.00                                                   | 12,392.00             | 13,953.04             | 12,136.00             | 53.79            | 53.06         | 82.10                 | 1,764.47                            | 932.56       | 1,869.81               | 1,796.26                | 73.55                     | 25.422            |                    |           |
| 14,300.00                                                   | 12,392.00             | 14,053.04             | 12,136.00             | 54.70            | 54.00         | 82.10                 | 1,864.46                            | 931.56       | 1,869.81               | 1,794.94                | 74.87                     | 24.974            |                    |           |
| 14,400.00                                                   | 12,392.00             | 14,153.04             | 12,136.00             | 55.65            | 54.96         | 82.10                 | 1,964.46                            | 930.57       | 1,869.81               | 1,793.57                | 76.24                     | 24.526            |                    |           |
| 14,500.00                                                   | 12,392.00             | 14,253.04             | 12,136.00             | 56.64            | 55.96         | 82.10                 | 2,064.45                            | 929.58       | 1,869.80               | 1,792.15                | 77.65                     | 24.080            |                    |           |
| 14,600.00                                                   | 12,392.00             | 14,353.04             | 12,136.00             | 57.65            | 57.00         | 82.10                 | 2,164.45                            | 928.59       | 1,869.80               | 1,790.70                | 79.10                     | 23.637            |                    |           |
| 14,700.00                                                   | 12,392.00             | 14,453.04             | 12,136.00             | 58.69            | 58.05         | 82.10                 | 2,264.44                            | 927.60       | 1,869.80               | 1,789.20                | 80.60                     | 23.198            |                    |           |
| 14,800.00                                                   | 12,392.00             | 14,553.04             | 12,136.00             | 59.76            | 59.14         | 82.10                 | 2,364.44                            | 926.61       | 1,869.79               | 1,787.66                | 82.13                     | 22.765            |                    |           |
| 14,900.00                                                   | 12,392.00             | 14,653.04             | 12,136.00             | 60.86            | 60.25         | 82.10                 | 2,464.43                            | 925.62       | 1,869.79               | 1,786.09                | 83.70                     | 22.338            |                    |           |
| 15,000.00                                                   | 12,392.00             | 14,753.04             | 12,136.00             | 61.98            | 61.39         | 82.10                 | 2,564.43                            | 924.63       | 1,869.79               | 1,784.48                | 85.31                     | 21.918            |                    |           |
| 15,100.00                                                   | 12,392.00             | 14,853.04             | 12,136.00             | 63.12            | 62.55         | 82.10                 | 2,664.42                            | 923.64       | 1,869.79               | 1,782.84                | 86.94                     | 21.506            |                    |           |
| 15,200.00                                                   | 12,392.00             | 14,953.04             | 12,136.00             | 64.29            | 63.73         | 82.10                 | 2,764.42                            | 922.64       | 1,869.78               | 1,781.17                | 88.61                     | 21.101            |                    |           |
| 15,300.00                                                   | 12,392.00             | 15,053.04             | 12,136.00             | 65.47            | 64.93         | 82.10                 | 2,864.41                            | 921.65       | 1,869.78               | 1,779.47                | 90.31                     | 20.705            |                    |           |
| 15,400.00                                                   | 12,392.00             | 15,153.04             | 12,136.00             | 66.68            | 66.15         | 82.10                 | 2,964.41                            | 920.66       | 1,869.78               | 1,777.75                | 92.03                     | 20.317            |                    |           |
| 15,500.00                                                   | 12,392.00             | 15,253.04             | 12,136.00             | 67.90            | 67.39         | 82.10                 | 3,064.40                            | 919.67       | 1,869.78               | 1,776.00                | 93.78                     | 19.938            |                    |           |
| 15,600.00                                                   | 12,392.00             | 15,353.04             | 12,136.00             | 69.15            | 68.65         | 82.10                 | 3,164.40                            | 918.68       | 1,869.77               | 1,774.22                | 95.55                     | 19.568            |                    |           |
| 15,700.00                                                   | 12,392.00             | 15,453.04             | 12,136.00             | 70.41            | 69.92         | 82.10                 | 3,264.40                            | 917.69       | 1,869.77               | 1,772.42                | 97.35                     | 19.207            |                    |           |
| 15,800.00                                                   | 12,392.00             | 15,553.04             | 12,136.00             | 71.68            | 71.21         | 82.10                 | 3,364.39                            | 916.70       | 1,869.77               | 1,770.60                | 99.16                     | 18.855            |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               | Distance              |                                     |              |                        |                         |                           |                   | Warning            |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 15,900.00                         | 12,392.00             | 15,653.04             | 12,136.00             | 72.97            | 72.51         | 82.10                 | 3,464.39                            | 915.71       | 1,869.76               | 1,768.76                | 101.00                    | 18.512            |                    |           |
| 16,000.00                         | 12,392.00             | 15,753.04             | 12,136.00             | 74.28            | 73.83         | 82.10                 | 3,564.38                            | 914.72       | 1,869.76               | 1,766.90                | 102.86                    | 18.178            |                    |           |
| 16,100.00                         | 12,392.00             | 15,853.04             | 12,136.00             | 75.60            | 75.16         | 82.10                 | 3,664.38                            | 913.73       | 1,869.76               | 1,765.02                | 104.74                    | 17.852            |                    |           |
| 16,200.00                         | 12,392.00             | 15,953.04             | 12,136.00             | 76.93            | 76.50         | 82.10                 | 3,764.37                            | 912.73       | 1,869.76               | 1,763.13                | 106.63                    | 17.535            |                    |           |
| 16,300.00                         | 12,392.00             | 16,053.04             | 12,136.00             | 78.27            | 77.85         | 82.10                 | 3,864.37                            | 911.74       | 1,869.75               | 1,761.21                | 108.54                    | 17.227            |                    |           |
| 16,400.00                         | 12,392.00             | 16,153.04             | 12,136.00             | 79.63            | 79.22         | 82.10                 | 3,964.36                            | 910.75       | 1,869.75               | 1,759.29                | 110.46                    | 16.926            |                    |           |
| 16,500.00                         | 12,392.00             | 16,253.04             | 12,136.00             | 80.99            | 80.60         | 82.10                 | 4,064.36                            | 909.76       | 1,869.75               | 1,757.34                | 112.40                    | 16.634            |                    |           |
| 16,600.00                         | 12,392.00             | 16,353.04             | 12,136.00             | 82.37            | 81.98         | 82.10                 | 4,164.35                            | 908.77       | 1,869.75               | 1,755.39                | 114.36                    | 16.350            |                    |           |
| 16,700.00                         | 12,392.00             | 16,453.04             | 12,136.00             | 83.75            | 83.38         | 82.10                 | 4,264.35                            | 907.78       | 1,869.74               | 1,753.42                | 116.33                    | 16.073            |                    |           |
| 16,800.00                         | 12,392.00             | 16,553.04             | 12,136.00             | 85.15            | 84.78         | 82.10                 | 4,364.34                            | 906.79       | 1,869.74               | 1,751.43                | 118.31                    | 15.804            |                    |           |
| 16,900.00                         | 12,392.00             | 16,653.04             | 12,136.00             | 86.56            | 86.20         | 82.10                 | 4,464.34                            | 905.80       | 1,869.74               | 1,749.44                | 120.30                    | 15.542            |                    |           |
| 17,000.00                         | 12,392.00             | 16,753.04             | 12,136.00             | 87.97            | 87.62         | 82.10                 | 4,564.33                            | 904.81       | 1,869.73               | 1,747.43                | 122.30                    | 15.288            |                    |           |
| 17,100.00                         | 12,392.00             | 16,853.04             | 12,136.00             | 89.39            | 89.05         | 82.10                 | 4,664.33                            | 903.81       | 1,869.73               | 1,745.41                | 124.32                    | 15.040            |                    |           |
| 17,200.00                         | 12,392.00             | 16,953.04             | 12,136.00             | 90.82            | 90.49         | 82.10                 | 4,764.32                            | 902.82       | 1,869.73               | 1,743.39                | 126.34                    | 14.799            |                    |           |
| 17,300.00                         | 12,392.00             | 17,053.04             | 12,136.00             | 92.26            | 91.93         | 82.10                 | 4,864.32                            | 901.83       | 1,869.73               | 1,741.35                | 128.38                    | 14.564            |                    |           |
| 17,400.00                         | 12,392.00             | 17,153.04             | 12,136.00             | 93.70            | 93.39         | 82.10                 | 4,964.31                            | 900.84       | 1,869.72               | 1,739.30                | 130.42                    | 14.336            |                    |           |
| 17,500.00                         | 12,392.00             | 17,253.04             | 12,136.00             | 95.15            | 94.84         | 82.10                 | 5,064.31                            | 899.85       | 1,869.72               | 1,737.25                | 132.47                    | 14.114            |                    |           |
| 17,600.00                         | 12,392.00             | 17,353.04             | 12,136.00             | 96.61            | 96.31         | 82.10                 | 5,164.30                            | 898.86       | 1,869.72               | 1,735.18                | 134.54                    | 13.898            |                    |           |
| 17,700.00                         | 12,392.00             | 17,453.04             | 12,136.00             | 98.07            | 97.78         | 82.10                 | 5,264.30                            | 897.87       | 1,869.72               | 1,733.11                | 136.61                    | 13.687            |                    |           |
| 17,800.00                         | 12,392.00             | 17,553.04             | 12,136.00             | 99.54            | 99.26         | 82.10                 | 5,364.29                            | 896.88       | 1,869.71               | 1,731.03                | 138.68                    | 13.482            |                    |           |
| 17,900.00                         | 12,392.00             | 17,653.04             | 12,136.00             | 101.02           | 100.74        | 82.10                 | 5,464.29                            | 895.89       | 1,869.71               | 1,728.94                | 140.77                    | 13.282            |                    |           |
| 18,000.00                         | 12,392.00             | 17,753.04             | 12,136.00             | 102.50           | 102.22        | 82.10                 | 5,564.28                            | 894.89       | 1,869.71               | 1,726.85                | 142.86                    | 13.088            |                    |           |
| 18,100.00                         | 12,392.00             | 17,853.04             | 12,136.00             | 103.98           | 103.72        | 82.10                 | 5,664.28                            | 893.90       | 1,869.70               | 1,724.74                | 144.96                    | 12.898            |                    |           |
| 18,200.00                         | 12,392.00             | 17,953.04             | 12,136.00             | 105.47           | 105.21        | 82.10                 | 5,764.27                            | 892.91       | 1,869.70               | 1,722.64                | 147.07                    | 12.713            |                    |           |
| 18,300.00                         | 12,392.00             | 18,053.04             | 12,136.00             | 106.97           | 106.72        | 82.10                 | 5,864.27                            | 891.92       | 1,869.70               | 1,720.52                | 149.18                    | 12.533            |                    |           |
| 18,400.00                         | 12,392.00             | 18,153.04             | 12,136.00             | 108.47           | 108.22        | 82.10                 | 5,964.26                            | 890.93       | 1,869.70               | 1,718.40                | 151.30                    | 12.358            |                    |           |
| 18,500.00                         | 12,392.00             | 18,253.04             | 12,136.00             | 109.97           | 109.73        | 82.10                 | 6,064.26                            | 889.94       | 1,869.69               | 1,716.27                | 153.42                    | 12.187            |                    |           |
| 18,600.00                         | 12,392.00             | 18,353.04             | 12,136.00             | 111.48           | 111.24        | 82.10                 | 6,164.25                            | 888.95       | 1,869.69               | 1,714.14                | 155.55                    | 12.020            |                    |           |
| 18,700.00                         | 12,392.00             | 18,453.04             | 12,136.00             | 112.99           | 112.76        | 82.10                 | 6,264.25                            | 887.96       | 1,869.69               | 1,712.00                | 157.68                    | 11.857            |                    |           |
| 18,800.00                         | 12,392.00             | 18,553.04             | 12,136.00             | 114.51           | 114.28        | 82.10                 | 6,364.24                            | 886.97       | 1,869.69               | 1,709.86                | 159.82                    | 11.698            |                    |           |
| 18,900.00                         | 12,392.00             | 18,653.04             | 12,136.00             | 116.03           | 115.81        | 82.10                 | 6,464.24                            | 885.98       | 1,869.69               | 1,707.71                | 161.97                    | 11.544            |                    |           |
| 19,000.00                         | 12,392.00             | 18,753.04             | 12,136.00             | 117.55           | 117.34        | 82.10                 | 6,564.23                            | 884.98       | 1,869.68               | 1,705.56                | 164.12                    | 11.392            |                    |           |
| 19,100.00                         | 12,392.00             | 18,853.04             | 12,136.00             | 119.08           | 118.87        | 82.10                 | 6,664.23                            | 883.99       | 1,869.68               | 1,703.41                | 166.27                    | 11.245            |                    |           |
| 19,200.00                         | 12,392.00             | 18,953.04             | 12,136.00             | 120.61           | 120.41        | 82.10                 | 6,764.22                            | 883.00       | 1,869.67               | 1,701.25                | 168.43                    | 11.101            |                    |           |
| 19,300.00                         | 12,392.00             | 19,053.04             | 12,136.00             | 122.14           | 121.94        | 82.10                 | 6,864.22                            | 882.01       | 1,869.67               | 1,699.08                | 170.59                    | 10.960            |                    |           |
| 19,400.00                         | 12,392.00             | 19,153.04             | 12,136.00             | 123.68           | 123.48        | 82.10                 | 6,964.21                            | 881.02       | 1,869.67               | 1,696.91                | 172.76                    | 10.823            |                    |           |
| 19,500.00                         | 12,392.00             | 19,253.04             | 12,136.00             | 125.22           | 125.03        | 82.10                 | 7,064.21                            | 880.03       | 1,869.67               | 1,694.74                | 174.93                    | 10.688            |                    |           |
| 19,600.00                         | 12,392.00             | 19,353.04             | 12,136.00             | 126.76           | 126.58        | 82.10                 | 7,164.20                            | 879.04       | 1,869.66               | 1,692.56                | 177.10                    | 10.557            |                    |           |
| 19,700.00                         | 12,392.00             | 19,453.04             | 12,136.00             | 128.31           | 128.12        | 82.10                 | 7,264.20                            | 878.05       | 1,869.66               | 1,690.38                | 179.28                    | 10.429            |                    |           |
| 19,800.00                         | 12,392.00             | 19,553.04             | 12,136.00             | 129.85           | 129.68        | 82.10                 | 7,364.19                            | 877.06       | 1,869.66               | 1,688.20                | 181.46                    | 10.304            |                    |           |
| 19,900.00                         | 12,392.00             | 19,653.04             | 12,136.00             | 131.40           | 131.23        | 82.10                 | 7,464.19                            | 876.06       | 1,869.65               | 1,686.01                | 183.64                    | 10.181            |                    |           |
| 20,000.00                         | 12,392.00             | 19,753.04             | 12,136.00             | 132.96           | 132.79        | 82.10                 | 7,564.18                            | 875.07       | 1,869.65               | 1,683.82                | 185.83                    | 10.061            |                    |           |
| 20,100.00                         | 12,392.00             | 19,853.04             | 12,136.00             | 134.51           | 134.35        | 82.10                 | 7,664.18                            | 874.08       | 1,869.65               | 1,681.63                | 188.02                    | 9.944             |                    |           |
| 20,200.00                         | 12,392.00             | 19,953.04             | 12,136.00             | 136.07           | 135.91        | 82.10                 | 7,764.17                            | 873.09       | 1,869.65               | 1,679.43                | 190.21                    | 9.829             |                    |           |
| 20,300.00                         | 12,392.00             | 20,053.04             | 12,136.00             | 137.63           | 137.47        | 82.10                 | 7,864.17                            | 872.10       | 1,869.64               | 1,677.24                | 192.41                    | 9.717             |                    |           |
| 20,400.00                         | 12,392.00             | 20,153.04             | 12,136.00             | 139.19           | 139.04        | 82.10                 | 7,964.16                            | 871.11       | 1,869.64               | 1,675.03                | 194.61                    | 9.607             |                    |           |
| 20,500.00                         | 12,392.00             | 20,253.04             | 12,136.00             | 140.75           | 140.60        | 82.10                 | 8,064.16                            | 870.12       | 1,869.64               | 1,672.83                | 196.81                    | 9.500             |                    |           |
| 20,600.00                         | 12,392.00             | 20,353.04             | 12,136.00             | 142.32           | 142.17        | 82.10                 | 8,164.15                            | 869.13       | 1,869.64               | 1,670.62                | 199.01                    | 9.395             |                    |           |
| 20,700.00                         | 12,392.00             | 20,453.04             | 12,136.00             | 143.89           | 143.74        | 82.10                 | 8,264.15                            | 868.14       | 1,869.63               | 1,668.42                | 201.22                    | 9.292             |                    |           |
| 20,800.00                         | 12,392.00             | 20,553.04             | 12,136.00             | 145.46           | 145.32        | 82.10                 | 8,364.14                            | 867.14       | 1,869.63               | 1,666.20                | 203.43                    | 9.191             |                    |           |
| 20,900.00                         | 12,392.00             | 20,653.04             | 12,136.00             | 147.03           | 146.89        | 82.10                 | 8,464.14                            | 866.15       | 1,869.63               | 1,663.99                | 205.64                    | 9.092             |                    |           |
| 21,000.00                         | 12,392.00             | 20,753.04             | 12,136.00             | 148.60           | 148.47        | 82.10                 | 8,564.13                            | 865.16       | 1,869.62               | 1,661.77                | 207.85                    | 8.995             |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| <b>Offset Design</b> FMM Fed Com - FMM Fed Com 803H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <b>Offset Site Error:</b> | 0.00 usft |
|--------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|---------------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD                                  |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <b>Offset Well Error:</b> | 0.00 usft |
| Reference                                                          |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                           | Warning   |
| Measured Depth (usft)                                              | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor         |           |
| 21,100.00                                                          | 12,392.00             | 20,853.04             | 12,136.00             | 150.18           | 150.05        | 82.10                 | 8,664.13                            | 864.17       | 1,869.62               | 1,659.56                | 210.07                    | 8.900                     |           |
| 21,200.00                                                          | 12,392.00             | 20,953.04             | 12,136.00             | 151.75           | 151.63        | 82.10                 | 8,764.13                            | 863.18       | 1,869.62               | 1,657.33                | 212.28                    | 8.807                     |           |
| 21,300.00                                                          | 12,392.00             | 21,053.04             | 12,136.00             | 153.33           | 153.21        | 82.10                 | 8,864.12                            | 862.19       | 1,869.62               | 1,655.11                | 214.50                    | 8.716                     |           |
| 21,400.00                                                          | 12,392.00             | 21,153.04             | 12,136.00             | 154.91           | 154.79        | 82.10                 | 8,964.12                            | 861.20       | 1,869.61               | 1,652.89                | 216.73                    | 8.627                     |           |
| 21,500.00                                                          | 12,392.00             | 21,253.04             | 12,136.00             | 156.49           | 156.37        | 82.10                 | 9,064.11                            | 860.21       | 1,869.61               | 1,650.66                | 218.95                    | 8.539                     |           |
| 21,600.00                                                          | 12,392.00             | 21,353.04             | 12,136.00             | 158.07           | 157.96        | 82.10                 | 9,164.11                            | 859.22       | 1,869.61               | 1,648.43                | 221.18                    | 8.453                     |           |
| 21,700.00                                                          | 12,392.00             | 21,453.04             | 12,136.00             | 159.66           | 159.54        | 82.10                 | 9,264.10                            | 858.23       | 1,869.61               | 1,646.20                | 223.40                    | 8.369                     |           |
| 21,800.00                                                          | 12,392.00             | 21,553.04             | 12,136.00             | 161.24           | 161.13        | 82.10                 | 9,364.10                            | 857.23       | 1,869.60               | 1,643.97                | 225.63                    | 8.286                     |           |
| 21,900.00                                                          | 12,392.00             | 21,653.04             | 12,136.00             | 162.83           | 162.72        | 82.10                 | 9,464.09                            | 856.24       | 1,869.60               | 1,641.74                | 227.86                    | 8.205                     |           |
| 22,000.00                                                          | 12,392.00             | 21,753.04             | 12,136.00             | 164.42           | 164.31        | 82.10                 | 9,564.09                            | 855.25       | 1,869.60               | 1,639.50                | 230.10                    | 8.125                     |           |
| 22,100.00                                                          | 12,392.00             | 21,853.04             | 12,136.00             | 166.01           | 165.90        | 82.10                 | 9,664.08                            | 854.26       | 1,869.59               | 1,637.26                | 232.33                    | 8.047                     |           |
| 22,200.00                                                          | 12,392.00             | 21,953.04             | 12,136.00             | 167.60           | 167.50        | 82.10                 | 9,764.08                            | 853.27       | 1,869.59               | 1,635.02                | 234.57                    | 7.970                     |           |
| 22,300.00                                                          | 12,392.00             | 22,053.04             | 12,136.00             | 169.19           | 169.09        | 82.10                 | 9,864.07                            | 852.28       | 1,869.59               | 1,632.78                | 236.80                    | 7.895                     |           |
| 22,400.00                                                          | 12,392.00             | 22,153.04             | 12,136.00             | 170.78           | 170.69        | 82.10                 | 9,964.07                            | 851.29       | 1,869.59               | 1,630.54                | 239.04                    | 7.821                     |           |
| 22,500.00                                                          | 12,392.00             | 22,253.04             | 12,136.00             | 172.37           | 172.28        | 82.10                 | 10,064.06                           | 850.30       | 1,869.58               | 1,628.30                | 241.28                    | 7.748                     |           |
| 22,590.89                                                          | 12,392.00             | 22,343.71             | 12,136.00             | 173.82           | 173.75        | 82.10                 | 10,154.73                           | 849.40       | 1,869.58               | 1,626.26                | 243.32                    | 7.684                     |           |
| 22,595.91                                                          | 12,392.00             | 22,343.71             | 12,136.00             | 173.90           | 173.75        | 82.10                 | 10,154.73                           | 849.40       | 1,869.59               | 1,626.21                | 243.37                    | 7.682                     |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: |  | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|--|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: |  | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    |  |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning            |  |           |
| 1,843.00                          | 1,843.00              | 1,888.20              | 1,888.20              | 6.37             | 6.54          | 98.54                 | -504.10                             | 3,355.32     | 3,392.98               | 3,383.85                | 9.13                      | 371.672           |                    |  |           |
| 1,900.00                          | 1,900.00              | 1,945.20              | 1,945.20              | 6.58             | 6.74          | 98.54                 | -504.10                             | 3,355.32     | 3,392.98               | 3,383.56                | 9.42                      | 360.269           |                    |  |           |
| 2,000.00                          | 2,000.00              | 2,045.20              | 2,045.20              | 6.94             | 7.10          | 98.54                 | -504.10                             | 3,355.32     | 3,392.98               | 3,383.06                | 9.92                      | 341.868           | CC, ES             |  |           |
| 2,100.00                          | 2,099.99              | 2,145.19              | 2,145.19              | 7.28             | 7.46          | -157.72               | -504.10                             | 3,355.32     | 3,394.19               | 3,383.77                | 10.42                     | 325.617           |                    |  |           |
| 2,200.00                          | 2,199.91              | 2,245.11              | 2,245.11              | 7.62             | 7.82          | -157.73               | -504.10                             | 3,355.32     | 3,397.83               | 3,386.91                | 10.92                     | 311.267           |                    |  |           |
| 2,300.00                          | 2,299.69              | 2,344.89              | 2,344.89              | 7.97             | 8.17          | -157.73               | -504.10                             | 3,355.32     | 3,403.88               | 3,392.47                | 11.41                     | 298.343           |                    |  |           |
| 2,400.00                          | 2,399.27              | 2,444.47              | 2,444.47              | 8.31             | 8.53          | -157.74               | -504.10                             | 3,355.32     | 3,412.35               | 3,400.45                | 11.90                     | 286.679           |                    |  |           |
| 2,500.00                          | 2,498.57              | 2,543.77              | 2,543.77              | 8.66             | 8.89          | -157.75               | -504.10                             | 3,355.32     | 3,423.24               | 3,410.84                | 12.40                     | 276.128           |                    |  |           |
| 2,600.00                          | 2,597.54              | 2,642.74              | 2,642.74              | 9.02             | 9.24          | -157.77               | -504.10                             | 3,355.32     | 3,436.54               | 3,423.65                | 12.89                     | 266.566           |                    |  |           |
| 2,700.00                          | 2,696.09              | 2,741.29              | 2,741.29              | 9.39             | 9.59          | -157.79               | -504.10                             | 3,355.32     | 3,452.25               | 3,438.87                | 13.39                     | 257.884           |                    |  |           |
| 2,762.60                          | 2,757.54              | 2,802.74              | 2,802.74              | 9.63             | 9.81          | -157.80               | -504.10                             | 3,355.32     | 3,463.31               | 3,449.61                | 13.70                     | 252.849           |                    |  |           |
| 2,800.00                          | 2,794.20              | 2,839.40              | 2,839.40              | 9.77             | 9.95          | -157.84               | -504.10                             | 3,355.32     | 3,470.20               | 3,456.31                | 13.88                     | 249.969           |                    |  |           |
| 2,900.00                          | 2,892.21              | 2,937.41              | 2,937.41              | 10.17            | 10.30         | -157.96               | -504.10                             | 3,355.32     | 3,488.62               | 3,474.25                | 14.38                     | 242.631           |                    |  |           |
| 3,000.00                          | 2,990.23              | 3,035.43              | 3,035.43              | 10.56            | 10.65         | -158.09               | -504.10                             | 3,355.32     | 3,507.07               | 3,492.19                | 14.88                     | 235.747           |                    |  |           |
| 3,100.00                          | 3,088.24              | 3,133.44              | 3,133.44              | 10.97            | 11.00         | -158.21               | -504.10                             | 3,355.32     | 3,525.52               | 3,510.15                | 15.38                     | 229.280           |                    |  |           |
| 3,200.00                          | 3,186.26              | 3,231.46              | 3,231.46              | 11.38            | 11.35         | -158.32               | -504.10                             | 3,355.32     | 3,544.00               | 3,528.12                | 15.88                     | 223.197           |                    |  |           |
| 3,300.00                          | 3,284.27              | 3,329.47              | 3,329.47              | 11.80            | 11.70         | -158.44               | -504.10                             | 3,355.32     | 3,562.48               | 3,546.10                | 16.38                     | 217.466           |                    |  |           |
| 3,400.00                          | 3,382.28              | 3,427.48              | 3,427.48              | 12.22            | 12.05         | -158.56               | -504.10                             | 3,355.32     | 3,580.98               | 3,564.10                | 16.89                     | 212.059           |                    |  |           |
| 3,500.00                          | 3,480.30              | 3,525.50              | 3,525.50              | 12.65            | 12.40         | -158.67               | -504.10                             | 3,355.32     | 3,599.50               | 3,582.11                | 17.39                     | 206.952           |                    |  |           |
| 3,600.00                          | 3,578.31              | 3,623.51              | 3,623.51              | 13.08            | 12.76         | -158.79               | -504.10                             | 3,355.32     | 3,618.03               | 3,600.13                | 17.90                     | 202.121           |                    |  |           |
| 3,700.00                          | 3,676.32              | 3,721.52              | 3,721.52              | 13.51            | 13.11         | -158.90               | -504.10                             | 3,355.32     | 3,636.57               | 3,618.16                | 18.41                     | 197.546           |                    |  |           |
| 3,800.00                          | 3,774.34              | 3,819.54              | 3,819.54              | 13.95            | 13.46         | -159.01               | -504.10                             | 3,355.32     | 3,655.13               | 3,636.21                | 18.92                     | 193.208           |                    |  |           |
| 3,900.00                          | 3,872.35              | 3,917.55              | 3,917.55              | 14.39            | 13.81         | -159.12               | -504.10                             | 3,355.32     | 3,673.70               | 3,654.27                | 19.43                     | 189.089           |                    |  |           |
| 4,000.00                          | 3,970.37              | 4,015.57              | 4,015.57              | 14.83            | 14.16         | -159.23               | -504.10                             | 3,355.32     | 3,692.28               | 3,672.34                | 19.94                     | 185.175           |                    |  |           |
| 4,100.00                          | 4,068.38              | 4,113.58              | 4,113.58              | 15.28            | 14.51         | -159.34               | -504.10                             | 3,355.32     | 3,710.88               | 3,690.43                | 20.45                     | 181.450           |                    |  |           |
| 4,200.00                          | 4,166.39              | 4,211.59              | 4,211.59              | 15.72            | 14.86         | -159.45               | -504.10                             | 3,355.32     | 3,729.49               | 3,708.52                | 20.96                     | 177.903           |                    |  |           |
| 4,300.00                          | 4,264.41              | 4,309.61              | 4,309.61              | 16.17            | 15.22         | -159.55               | -504.10                             | 3,355.32     | 3,748.11               | 3,726.63                | 21.48                     | 174.520           |                    |  |           |
| 4,400.00                          | 4,362.42              | 4,407.62              | 4,407.62              | 16.63            | 15.57         | -159.66               | -504.10                             | 3,355.32     | 3,766.74               | 3,744.75                | 21.99                     | 171.291           |                    |  |           |
| 4,500.00                          | 4,460.43              | 4,505.63              | 4,505.63              | 17.08            | 15.92         | -159.76               | -504.10                             | 3,355.32     | 3,785.39               | 3,762.88                | 22.50                     | 168.207           |                    |  |           |
| 4,600.00                          | 4,558.45              | 4,603.65              | 4,603.65              | 17.54            | 16.27         | -159.87               | -504.10                             | 3,355.32     | 3,804.05               | 3,781.03                | 23.02                     | 165.257           |                    |  |           |
| 4,700.00                          | 4,656.46              | 4,701.66              | 4,701.66              | 17.99            | 16.62         | -159.97               | -504.10                             | 3,355.32     | 3,822.72               | 3,799.18                | 23.53                     | 162.435           |                    |  |           |
| 4,800.00                          | 4,754.47              | 4,799.67              | 4,799.67              | 18.45            | 16.97         | -160.07               | -504.10                             | 3,355.32     | 3,841.40               | 3,817.35                | 24.05                     | 159.731           |                    |  |           |
| 4,900.00                          | 4,852.49              | 4,897.69              | 4,897.69              | 18.91            | 17.32         | -160.17               | -504.10                             | 3,355.32     | 3,860.09               | 3,835.53                | 24.56                     | 157.138           |                    |  |           |
| 5,000.00                          | 4,950.50              | 4,995.70              | 4,995.70              | 19.37            | 17.68         | -160.27               | -504.10                             | 3,355.32     | 3,878.79               | 3,853.71                | 25.08                     | 154.651           |                    |  |           |
| 5,100.00                          | 5,048.52              | 5,093.72              | 5,093.72              | 19.83            | 18.03         | -160.37               | -504.10                             | 3,355.32     | 3,897.51               | 3,871.91                | 25.60                     | 152.262           |                    |  |           |
| 5,200.00                          | 5,146.53              | 5,191.73              | 5,191.73              | 20.29            | 18.38         | -160.46               | -504.10                             | 3,355.32     | 3,916.24               | 3,890.12                | 26.11                     | 149.967           |                    |  |           |
| 5,300.00                          | 5,244.54              | 5,289.74              | 5,289.74              | 20.76            | 18.73         | -160.56               | -504.10                             | 3,355.32     | 3,934.97               | 3,908.34                | 26.63                     | 147.760           |                    |  |           |
| 5,400.00                          | 5,342.56              | 5,387.76              | 5,387.76              | 21.22            | 19.08         | -160.66               | -504.10                             | 3,355.32     | 3,953.72               | 3,926.57                | 27.15                     | 145.636           |                    |  |           |
| 5,500.00                          | 5,440.57              | 5,485.77              | 5,485.77              | 21.69            | 19.43         | -160.75               | -504.10                             | 3,355.32     | 3,972.48               | 3,944.82                | 27.67                     | 143.591           |                    |  |           |
| 5,600.00                          | 5,538.58              | 5,576.02              | 5,576.02              | 22.15            | 19.74         | -160.83               | -504.86                             | 3,355.33     | 3,991.33               | 3,963.18                | 28.15                     | 141.784           |                    |  |           |
| 5,700.00                          | 5,636.60              | 5,665.05              | 5,665.05              | 22.62            | 20.03         | -160.87               | -507.67                             | 3,355.36     | 4,010.41               | 3,981.78                | 28.62                     | 140.109           |                    |  |           |
| 5,800.00                          | 5,734.61              | 5,754.10              | 5,753.91              | 23.09            | 20.32         | -160.88               | -512.55                             | 3,355.40     | 4,029.71               | 4,000.61                | 29.09                     | 138.506           |                    |  |           |
| 5,900.00                          | 5,832.62              | 5,844.05              | 5,843.58              | 23.56            | 20.61         | -160.87               | -519.57                             | 3,355.47     | 4,049.23               | 4,019.66                | 29.57                     | 136.946           |                    |  |           |
| 6,000.00                          | 5,930.64              | 5,942.08              | 5,941.24              | 24.02            | 20.93         | -160.84               | -528.12                             | 3,355.55     | 4,068.84               | 4,038.77                | 30.07                     | 135.332           |                    |  |           |
| 6,100.00                          | 6,028.65              | 6,040.12              | 6,038.91              | 24.49            | 21.25         | -160.80               | -536.66                             | 3,355.63     | 4,088.45               | 4,057.88                | 30.56                     | 133.764           |                    |  |           |
| 6,200.00                          | 6,126.67              | 6,138.15              | 6,136.57              | 24.96            | 21.57         | -160.77               | -545.21                             | 3,355.71     | 4,108.06               | 4,076.99                | 31.07                     | 132.239           |                    |  |           |
| 6,300.00                          | 6,224.68              | 6,236.19              | 6,234.23              | 25.43            | 21.89         | -160.74               | -553.76                             | 3,355.79     | 4,127.67               | 4,096.10                | 31.57                     | 130.756           |                    |  |           |
| 6,400.00                          | 6,322.69              | 6,334.22              | 6,331.89              | 25.91            | 22.22         | -160.72               | -562.30                             | 3,355.87     | 4,147.28               | 4,115.21                | 32.07                     | 129.314           |                    |  |           |
| 6,500.00                          | 6,420.71              | 6,432.26              | 6,429.55              | 26.38            | 22.54         | -160.69               | -570.85                             | 3,355.94     | 4,166.90               | 4,134.32                | 32.58                     | 127.910           |                    |  |           |
| 6,600.00                          | 6,518.72              | 6,530.29              | 6,527.22              | 26.85            | 22.87         | -160.66               | -579.39                             | 3,356.02     | 4,186.51               | 4,153.43                | 33.08                     | 126.544           |                    |  |           |
| 6,669.11                          | 6,586.46              | 6,598.05              | 6,594.71              | 27.18            | 23.10         | -160.64               | -585.30                             | 3,356.08     | 4,200.07               | 4,166.63                | 33.43                     | 125.621           |                    |  |           |
| 6,700.00                          | 6,616.76              | 6,628.35              | 6,624.90              | 27.32            | 23.20         | -160.66               | -587.94                             | 3,356.10     | 4,206.01               | 4,172.42                | 33.59                     | 125.212           |                    |  |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   | Warning            |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 6,800.00                          | 6,715.17              | 6,726.74              | 6,722.91              | 27.78            | 23.53         | -160.71               | -596.52                             | 3,356.18     | 4,223.67               | 4,189.57                | 34.10                     | 123.868           |                    |           |
| 6,900.00                          | 6,814.01              | 6,825.50              | 6,821.30              | 28.21            | 23.87         | -160.74               | -605.13                             | 3,356.26     | 4,238.88               | 4,204.28                | 34.60                     | 122.498           |                    |           |
| 7,000.00                          | 6,913.21              | 6,924.58              | 6,920.00              | 28.62            | 24.21         | -160.74               | -613.77                             | 3,356.34     | 4,251.66               | 4,216.55                | 35.11                     | 121.106           |                    |           |
| 7,100.00                          | 7,012.71              | 7,023.90              | 7,018.94              | 29.01            | 24.55         | -160.72               | -622.42                             | 3,356.42     | 4,261.99               | 4,226.38                | 35.61                     | 119.694           |                    |           |
| 7,200.00                          | 7,112.43              | 7,123.39              | 7,118.06              | 29.37            | 24.89         | -160.67               | -631.10                             | 3,356.50     | 4,269.86               | 4,233.76                | 36.11                     | 118.262           |                    |           |
| 7,300.00                          | 7,212.32              | 7,222.99              | 7,217.27              | 29.72            | 25.23         | -160.60               | -639.78                             | 3,356.59     | 4,275.28               | 4,238.68                | 36.60                     | 116.814           |                    |           |
| 7,400.00                          | 7,312.29              | 7,322.62              | 7,316.53              | 30.04            | 25.58         | -160.51               | -648.47                             | 3,356.67     | 4,278.25               | 4,241.16                | 37.09                     | 115.351           |                    |           |
| 7,431.71                          | 7,344.00              | 7,354.21              | 7,348.00              | 30.14            | 25.69         | 95.78                 | -651.22                             | 3,356.69     | 4,278.68               | 4,241.43                | 37.24                     | 114.888           |                    |           |
| 7,500.00                          | 7,412.29              | 7,422.25              | 7,415.77              | 30.34            | 25.92         | 95.86                 | -657.15                             | 3,356.75     | 4,279.34               | 4,241.77                | 37.57                     | 113.906           |                    |           |
| 7,600.00                          | 7,512.29              | 7,523.50              | 7,516.65              | 30.64            | 26.28         | 95.98                 | -665.96                             | 3,356.83     | 4,280.32               | 4,242.27                | 38.05                     | 112.482           |                    |           |
| 7,700.00                          | 7,612.29              | 7,637.97              | 7,630.84              | 30.94            | 26.67         | 96.09                 | -673.84                             | 3,356.90     | 4,281.11               | 4,242.53                | 38.58                     | 110.981           |                    |           |
| 7,800.00                          | 7,712.29              | 7,752.82              | 7,745.59              | 31.24            | 27.07         | 96.14                 | -678.31                             | 3,356.94     | 4,281.56               | 4,242.47                | 39.09                     | 109.519           |                    |           |
| 7,900.00                          | 7,812.29              | 7,864.72              | 7,857.49              | 31.55            | 27.46         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,242.07                | 39.61                     | 108.107           |                    |           |
| 8,000.00                          | 7,912.29              | 7,964.72              | 7,957.49              | 31.85            | 27.81         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,241.58                | 40.09                     | 106.805           |                    |           |
| 8,100.00                          | 8,012.29              | 8,064.72              | 8,057.49              | 32.16            | 28.16         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,241.10                | 40.57                     | 105.533           |                    |           |
| 8,200.00                          | 8,112.29              | 8,164.72              | 8,157.49              | 32.47            | 28.52         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,240.62                | 41.06                     | 104.288           |                    |           |
| 8,300.00                          | 8,212.29              | 8,264.72              | 8,257.49              | 32.78            | 28.87         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,240.13                | 41.54                     | 103.072           |                    |           |
| 8,400.00                          | 8,312.29              | 8,364.72              | 8,357.49              | 33.08            | 29.22         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,239.65                | 42.03                     | 101.882           |                    |           |
| 8,500.00                          | 8,412.29              | 8,464.72              | 8,457.49              | 33.40            | 29.58         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,239.16                | 42.51                     | 100.719           |                    |           |
| 8,600.00                          | 8,512.29              | 8,564.72              | 8,557.49              | 33.71            | 29.93         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,238.67                | 43.00                     | 99.580            |                    |           |
| 8,700.00                          | 8,612.29              | 8,664.72              | 8,657.49              | 34.02            | 30.28         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,238.19                | 43.48                     | 98.466            |                    |           |
| 8,800.00                          | 8,712.29              | 8,764.72              | 8,757.49              | 34.33            | 30.64         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,237.70                | 43.97                     | 97.375            |                    |           |
| 8,900.00                          | 8,812.29              | 8,864.72              | 8,857.49              | 34.65            | 30.99         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,237.21                | 44.46                     | 96.308            |                    |           |
| 9,000.00                          | 8,912.29              | 8,964.72              | 8,957.49              | 34.96            | 31.35         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,236.72                | 44.95                     | 95.262            |                    |           |
| 9,100.00                          | 9,012.29              | 9,064.72              | 9,057.49              | 35.28            | 31.70         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,236.24                | 45.43                     | 94.238            |                    |           |
| 9,200.00                          | 9,112.29              | 9,164.72              | 9,157.49              | 35.59            | 32.06         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,235.75                | 45.92                     | 93.236            |                    |           |
| 9,300.00                          | 9,212.29              | 9,264.72              | 9,257.49              | 35.91            | 32.41         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,235.26                | 46.41                     | 92.253            |                    |           |
| 9,400.00                          | 9,312.29              | 9,364.72              | 9,357.49              | 36.23            | 32.76         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,234.77                | 46.90                     | 91.290            |                    |           |
| 9,500.00                          | 9,412.29              | 9,464.72              | 9,457.49              | 36.55            | 33.12         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,234.28                | 47.39                     | 90.347            |                    |           |
| 9,600.00                          | 9,512.29              | 9,564.72              | 9,557.49              | 36.87            | 33.47         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,233.79                | 47.88                     | 89.422            |                    |           |
| 9,700.00                          | 9,612.29              | 9,664.72              | 9,657.49              | 37.19            | 33.83         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,233.30                | 48.37                     | 88.515            |                    |           |
| 9,800.00                          | 9,712.29              | 9,764.72              | 9,757.49              | 37.51            | 34.18         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,232.81                | 48.86                     | 87.626            |                    |           |
| 9,900.00                          | 9,812.29              | 9,864.72              | 9,857.49              | 37.83            | 34.54         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,232.32                | 49.35                     | 86.754            |                    |           |
| 10,000.00                         | 9,912.29              | 9,964.72              | 9,957.49              | 38.15            | 34.89         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,231.83                | 49.85                     | 85.898            |                    |           |
| 10,100.00                         | 10,012.29             | 10,064.72             | 10,057.49             | 38.47            | 35.25         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,231.33                | 50.34                     | 85.059            |                    |           |
| 10,200.00                         | 10,112.29             | 10,164.72             | 10,157.49             | 38.80            | 35.60         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,230.84                | 50.83                     | 84.235            |                    |           |
| 10,300.00                         | 10,212.29             | 10,264.72             | 10,257.49             | 39.12            | 35.96         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,230.35                | 51.32                     | 83.427            |                    |           |
| 10,400.00                         | 10,312.29             | 10,364.72             | 10,357.49             | 39.45            | 36.31         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,229.86                | 51.81                     | 82.634            |                    |           |
| 10,500.00                         | 10,412.29             | 10,464.72             | 10,457.49             | 39.77            | 36.67         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,229.36                | 52.31                     | 81.855            |                    |           |
| 10,600.00                         | 10,512.29             | 10,564.72             | 10,557.49             | 40.10            | 37.03         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,228.87                | 52.80                     | 81.091            |                    |           |
| 10,700.00                         | 10,612.29             | 10,664.72             | 10,657.49             | 40.42            | 37.38         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,228.38                | 53.29                     | 80.340            |                    |           |
| 10,800.00                         | 10,712.29             | 10,764.72             | 10,757.49             | 40.75            | 37.74         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,227.88                | 53.79                     | 79.602            |                    |           |
| 10,900.00                         | 10,812.29             | 10,864.72             | 10,857.49             | 41.08            | 38.09         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,227.39                | 54.28                     | 78.878            |                    |           |
| 11,000.00                         | 10,912.29             | 10,964.72             | 10,957.49             | 41.41            | 38.45         | 96.16                 | -679.40                             | 3,356.95     | 4,281.67               | 4,226.89                | 54.78                     | 78.166            |                    |           |
| 11,100.00                         | 11,012.29             | 11,434.57             | 11,380.53             | 41.73            | 39.88         | 93.86                 | -507.37                             | 3,355.32     | 4,277.23               | 4,221.23                | 56.00                     | 76.381            |                    |           |
| 11,200.00                         | 11,112.29             | 11,638.51             | 11,494.69             | 42.06            | 40.40         | 91.61                 | -339.88                             | 3,353.74     | 4,268.76               | 4,212.20                | 56.57                     | 75.464            |                    |           |
| 11,300.00                         | 11,212.29             | 11,735.29             | 11,526.87             | 42.39            | 40.65         | 90.39                 | -248.76                             | 3,352.87     | 4,261.49               | 4,204.51                | 56.98                     | 74.783            |                    |           |
| 11,400.00                         | 11,312.29             | 11,771.56             | 11,534.76             | 42.72            | 40.75         | 89.91                 | -213.36                             | 3,352.54     | 4,256.24               | 4,198.94                | 57.30                     | 74.285            |                    |           |
| 11,500.00                         | 11,412.29             | 11,793.34             | 11,538.41             | 43.05            | 40.81         | 89.62                 | -191.90                             | 3,352.33     | 4,253.20               | 4,195.63                | 57.56                     | 73.885            |                    |           |
| 11,582.62                         | 11,494.91             | 11,805.66             | 11,540.12             | 43.33            | 40.84         | 89.46                 | -179.70                             | 3,352.22     | 4,252.41               | 4,194.65                | 57.76                     | 73.618            |                    |           |
| 11,600.00                         | 11,512.29             | 11,807.81             | 11,540.39             | 43.38            | 40.85         | 89.43                 | -177.56                             | 3,352.20     | 4,252.44               | 4,194.64                | 57.80                     | 73.569            |                    |           |
| 11,700.00                         | 11,612.29             | 11,818.12             | 11,541.58             | 43.71            | 40.88         | 89.29                 | -167.32                             | 3,352.10     | 4,254.01               | 4,195.99                | 58.01                     | 73.328            |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning            |           |
| 11,800.00                         | 11,712.29             | 11,825.84             | 11,542.34             | 44.05            | 40.90         | 89.19                 | -159.65                             | 3,352.03     | 4,257.90               | 4,199.70                | 58.20                     | 73.159            |                    |           |
| 11,906.75                         | 11,819.04             | 11,832.18             | 11,542.90             | 44.40            | 40.92         | 89.10                 | -153.33                             | 3,351.97     | 4,264.61               | 4,206.24                | 58.38                     | 73.055            |                    |           |
| 11,950.00                         | 11,862.25             | 11,835.33             | 11,543.15             | 44.54            | 40.92         | 89.28                 | -150.19                             | 3,351.94     | 4,268.08               | 4,209.64                | 58.44                     | 73.034            |                    |           |
| 12,000.00                         | 11,911.88             | 11,850.00             | 11,544.08             | 44.70            | 40.96         | 88.64                 | -135.55                             | 3,351.80     | 4,272.58               | 4,214.05                | 58.53                     | 73.002            |                    |           |
| 12,050.00                         | 11,960.80             | 11,850.00             | 11,544.08             | 44.85            | 40.96         | 88.14                 | -135.55                             | 3,351.80     | 4,277.51               | 4,218.93                | 58.58                     | 73.021            |                    |           |
| 12,100.00                         | 12,008.65             | 11,850.00             | 11,544.08             | 45.00            | 40.96         | 87.60                 | -135.55                             | 3,351.80     | 4,282.88               | 4,224.26                | 58.62                     | 73.057            |                    |           |
| 12,150.00                         | 12,055.05             | 11,867.74             | 11,544.71             | 45.13            | 41.02         | 86.81                 | -117.82                             | 3,351.63     | 4,288.58               | 4,229.88                | 58.69                     | 73.066            |                    |           |
| 12,200.00                         | 12,099.66             | 11,879.18             | 11,544.82             | 45.25            | 41.05         | 86.07                 | -106.38                             | 3,351.52     | 4,294.56               | 4,235.82                | 58.75                     | 73.104            |                    |           |
| 12,250.00                         | 12,142.12             | 11,894.89             | 11,544.60             | 45.35            | 41.09         | 85.27                 | -90.67                              | 3,351.37     | 4,300.76               | 4,241.96                | 58.80                     | 73.142            |                    |           |
| 12,300.00                         | 12,182.14             | 11,916.76             | 11,544.00             | 45.45            | 41.16         | 84.40                 | -68.81                              | 3,351.17     | 4,307.06               | 4,248.19                | 58.87                     | 73.167            |                    |           |
| 12,350.00                         | 12,219.38             | 11,949.05             | 11,543.11             | 45.53            | 41.27         | 83.44                 | -36.54                              | 3,350.86     | 4,313.29               | 4,254.34                | 58.95                     | 73.164            |                    |           |
| 12,400.00                         | 12,253.58             | 11,984.55             | 11,542.13             | 45.60            | 41.39         | 82.51                 | -1.06                               | 3,350.53     | 4,319.33               | 4,260.29                | 59.05                     | 73.151            |                    |           |
| 12,450.00                         | 12,284.48             | 12,022.97             | 11,541.07             | 45.65            | 41.53         | 81.61                 | 37.35                               | 3,350.16     | 4,325.06               | 4,265.91                | 59.16                     | 73.111            |                    |           |
| 12,500.00                         | 12,311.83             | 12,064.04             | 11,539.94             | 45.70            | 41.70         | 80.78                 | 78.40                               | 3,349.77     | 4,330.37               | 4,271.08                | 59.28                     | 73.044            |                    |           |
| 12,550.00                         | 12,335.43             | 12,107.44             | 11,538.74             | 45.74            | 41.88         | 80.02                 | 121.78                              | 3,349.36     | 4,335.14               | 4,275.71                | 59.43                     | 72.951            |                    |           |
| 12,600.00                         | 12,355.10             | 12,152.83             | 11,537.49             | 45.77            | 42.08         | 79.37                 | 167.15                              | 3,348.93     | 4,339.27               | 4,279.68                | 59.59                     | 72.815            |                    |           |
| 12,650.00                         | 12,370.69             | 12,199.87             | 11,536.19             | 45.81            | 42.30         | 78.83                 | 214.17                              | 3,348.49     | 4,342.68               | 4,282.91                | 59.77                     | 72.652            |                    |           |
| 12,700.00                         | 12,382.08             | 12,248.20             | 11,534.86             | 45.84            | 42.55         | 78.41                 | 262.49                              | 3,348.03     | 4,345.30               | 4,285.31                | 59.99                     | 72.438            |                    |           |
| 12,750.00                         | 12,389.19             | 12,297.47             | 11,533.50             | 45.89            | 42.80         | 78.13                 | 311.73                              | 3,347.56     | 4,347.07               | 4,286.85                | 60.21                     | 72.196            |                    |           |
| 12,800.00                         | 12,391.96             | 12,347.28             | 11,532.13             | 45.94            | 43.09         | 77.99                 | 361.52                              | 3,347.09     | 4,347.95               | 4,287.48                | 60.47                     | 71.904            |                    |           |
| 12,806.75                         | 12,392.00             | 12,354.02             | 11,531.94             | 45.95            | 43.13         | 77.98                 | 368.26                              | 3,347.02     | 4,348.00               | 4,287.49                | 60.50                     | 71.863            |                    |           |
| 12,900.00                         | 12,392.00             | 12,447.24             | 11,529.37             | 46.10            | 43.69         | 77.95                 | 461.44                              | 3,346.14     | 4,348.57               | 4,287.53                | 61.04                     | 71.246            |                    |           |
| 13,000.00                         | 12,392.00             | 12,547.20             | 11,526.61             | 46.33            | 44.34         | 77.91                 | 561.36                              | 3,345.19     | 4,349.19               | 4,287.50                | 61.68                     | 70.507            |                    |           |
| 13,100.00                         | 12,392.00             | 12,647.16             | 11,523.86             | 46.63            | 45.04         | 77.88                 | 661.28                              | 3,344.25     | 4,349.80               | 4,287.40                | 62.41                     | 69.698            |                    |           |
| 13,200.00                         | 12,392.00             | 12,747.12             | 11,521.10             | 47.00            | 45.80         | 77.84                 | 761.20                              | 3,343.30     | 4,350.42               | 4,287.21                | 63.21                     | 68.826            |                    |           |
| 13,300.00                         | 12,392.00             | 12,847.09             | 11,518.35             | 47.44            | 46.60         | 77.81                 | 861.12                              | 3,342.35     | 4,351.05               | 4,286.96                | 64.08                     | 67.899            |                    |           |
| 13,400.00                         | 12,392.00             | 12,947.05             | 11,515.59             | 47.95            | 47.44         | 77.77                 | 961.04                              | 3,341.41     | 4,351.67               | 4,286.65                | 65.02                     | 66.926            |                    |           |
| 13,500.00                         | 12,392.00             | 13,047.01             | 11,512.83             | 48.51            | 48.33         | 77.74                 | 1,060.96                            | 3,340.46     | 4,352.29               | 4,286.27                | 66.03                     | 65.915            |                    |           |
| 13,600.00                         | 12,392.00             | 13,146.97             | 11,510.08             | 49.13            | 49.25         | 77.70                 | 1,160.88                            | 3,339.51     | 4,352.92               | 4,285.82                | 67.10                     | 64.874            |                    |           |
| 13,700.00                         | 12,392.00             | 13,246.93             | 11,507.32             | 49.79            | 50.21         | 77.67                 | 1,260.79                            | 3,338.57     | 4,353.55               | 4,285.32                | 68.23                     | 63.810            |                    |           |
| 13,800.00                         | 12,392.00             | 13,346.90             | 11,504.56             | 50.51            | 51.21         | 77.63                 | 1,360.71                            | 3,337.62     | 4,354.18               | 4,284.76                | 69.41                     | 62.728            |                    |           |
| 13,900.00                         | 12,392.00             | 13,446.86             | 11,501.81             | 51.27            | 52.24         | 77.60                 | 1,460.63                            | 3,336.67     | 4,354.81               | 4,284.16                | 70.65                     | 61.636            |                    |           |
| 14,000.00                         | 12,392.00             | 13,546.82             | 11,499.05             | 52.07            | 53.30         | 77.56                 | 1,560.55                            | 3,335.73     | 4,355.44               | 4,283.50                | 71.94                     | 60.539            |                    |           |
| 14,100.00                         | 12,392.00             | 13,646.78             | 11,496.30             | 52.91            | 54.39         | 77.53                 | 1,660.47                            | 3,334.78     | 4,356.08               | 4,282.79                | 73.28                     | 59.441            |                    |           |
| 14,200.00                         | 12,392.00             | 13,746.74             | 11,493.54             | 53.79            | 55.51         | 77.49                 | 1,760.39                            | 3,333.83     | 4,356.71               | 4,282.04                | 74.67                     | 58.347            |                    |           |
| 14,300.00                         | 12,392.00             | 13,846.71             | 11,490.78             | 54.70            | 56.66         | 77.46                 | 1,860.31                            | 3,332.88     | 4,357.35               | 4,281.25                | 76.10                     | 57.260            |                    |           |
| 14,400.00                         | 12,392.00             | 13,946.67             | 11,488.03             | 55.65            | 57.83         | 77.42                 | 1,960.23                            | 3,331.94     | 4,357.99               | 4,280.42                | 77.57                     | 56.184            |                    |           |
| 14,500.00                         | 12,392.00             | 14,046.63             | 11,485.27             | 56.64            | 59.02         | 77.38                 | 2,060.15                            | 3,330.99     | 4,358.63               | 4,279.56                | 79.07                     | 55.120            |                    |           |
| 14,600.00                         | 12,392.00             | 14,146.59             | 11,482.51             | 57.65            | 60.23         | 77.35                 | 2,160.07                            | 3,330.04     | 4,359.27               | 4,278.66                | 80.62                     | 54.073            |                    |           |
| 14,700.00                         | 12,392.00             | 14,246.55             | 11,479.76             | 58.69            | 61.47         | 77.31                 | 2,259.99                            | 3,329.10     | 4,359.92               | 4,277.72                | 82.20                     | 53.043            |                    |           |
| 14,800.00                         | 12,392.00             | 14,346.52             | 11,477.00             | 59.76            | 62.72         | 77.28                 | 2,359.91                            | 3,328.15     | 4,360.57               | 4,276.76                | 83.81                     | 52.031            |                    |           |
| 14,900.00                         | 12,392.00             | 14,446.48             | 11,474.25             | 60.86            | 64.00         | 77.24                 | 2,459.83                            | 3,327.20     | 4,361.21               | 4,275.77                | 85.45                     | 51.040            |                    |           |
| 15,000.00                         | 12,392.00             | 14,546.44             | 11,471.49             | 61.98            | 65.28         | 77.21                 | 2,559.75                            | 3,326.26     | 4,361.86               | 4,274.75                | 87.12                     | 50.069            |                    |           |
| 15,100.00                         | 12,392.00             | 14,646.40             | 11,468.73             | 63.12            | 66.59         | 77.17                 | 2,659.67                            | 3,325.31     | 4,362.51               | 4,273.70                | 88.81                     | 49.121            |                    |           |
| 15,200.00                         | 12,392.00             | 14,746.36             | 11,465.98             | 64.29            | 67.91         | 77.14                 | 2,759.59                            | 3,324.36     | 4,363.17               | 4,272.63                | 90.53                     | 48.194            |                    |           |
| 15,300.00                         | 12,392.00             | 14,846.33             | 11,463.22             | 65.47            | 69.24         | 77.10                 | 2,859.51                            | 3,323.41     | 4,363.82               | 4,271.54                | 92.28                     | 47.290            |                    |           |
| 15,400.00                         | 12,392.00             | 14,946.29             | 11,460.46             | 66.68            | 70.59         | 77.07                 | 2,959.43                            | 3,322.47     | 4,364.48               | 4,270.43                | 94.05                     | 46.408            |                    |           |
| 15,500.00                         | 12,392.00             | 15,046.25             | 11,457.71             | 67.90            | 71.95         | 77.03                 | 3,059.35                            | 3,321.52     | 4,365.13               | 4,269.30                | 95.84                     | 45.548            |                    |           |
| 15,600.00                         | 12,392.00             | 15,146.21             | 11,454.95             | 69.15            | 73.32         | 77.00                 | 3,159.26                            | 3,320.57     | 4,365.79               | 4,268.15                | 97.64                     | 44.711            |                    |           |
| 15,700.00                         | 12,392.00             | 15,246.17             | 11,452.19             | 70.41            | 74.71         | 76.96                 | 3,259.18                            | 3,319.63     | 4,366.46               | 4,266.98                | 99.47                     | 43.896            |                    |           |
| 15,800.00                         | 12,392.00             | 15,346.14             | 11,449.44             | 71.68            | 76.10         | 76.93                 | 3,359.10                            | 3,318.68     | 4,367.12               | 4,265.80                | 101.32                    | 43.103            |                    |           |
| 15,900.00                         | 12,392.00             | 15,446.10             | 11,446.68             | 72.97            | 77.51         | 76.89                 | 3,459.02                            | 3,317.73     | 4,367.78               | 4,264.60                | 103.18                    | 42.331            |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   | Warning            |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 16,000.00                         | 12,392.00             | 15,546.06             | 11,443.93             | 74.28            | 78.92         | 76.86                 | 3,558.94                            | 3,316.79     | 4,368.45               | 4,263.39                | 105.06                    | 41.581            |                    |           |
| 16,100.00                         | 12,392.00             | 15,646.02             | 11,441.17             | 75.60            | 80.35         | 76.82                 | 3,658.86                            | 3,315.84     | 4,369.12               | 4,262.16                | 106.95                    | 40.851            |                    |           |
| 16,200.00                         | 12,392.00             | 15,745.98             | 11,438.41             | 76.93            | 81.78         | 76.79                 | 3,758.78                            | 3,314.89     | 4,369.78               | 4,260.92                | 108.86                    | 40.141            |                    |           |
| 16,300.00                         | 12,392.00             | 15,845.95             | 11,435.66             | 78.27            | 83.22         | 76.75                 | 3,858.70                            | 3,313.94     | 4,370.46               | 4,259.67                | 110.78                    | 39.451            |                    |           |
| 16,400.00                         | 12,392.00             | 15,945.91             | 11,432.90             | 79.63            | 84.66         | 76.72                 | 3,958.62                            | 3,313.00     | 4,371.13               | 4,258.41                | 112.72                    | 38.780            |                    |           |
| 16,500.00                         | 12,392.00             | 16,045.87             | 11,430.14             | 80.99            | 86.12         | 76.68                 | 4,058.54                            | 3,312.05     | 4,371.80               | 4,257.14                | 114.66                    | 38.128            |                    |           |
| 16,600.00                         | 12,392.00             | 16,145.83             | 11,427.39             | 82.37            | 87.58         | 76.65                 | 4,158.46                            | 3,311.10     | 4,372.48               | 4,255.86                | 116.62                    | 37.494            |                    |           |
| 16,700.00                         | 12,392.00             | 16,245.79             | 11,424.63             | 83.75            | 89.05         | 76.61                 | 4,258.38                            | 3,310.16     | 4,373.16               | 4,254.57                | 118.59                    | 36.877            |                    |           |
| 16,800.00                         | 12,392.00             | 16,345.76             | 11,421.88             | 85.15            | 90.53         | 76.58                 | 4,358.30                            | 3,309.21     | 4,373.83               | 4,253.27                | 120.57                    | 36.278            |                    |           |
| 16,900.00                         | 12,392.00             | 16,445.72             | 11,419.12             | 86.56            | 92.01         | 76.54                 | 4,458.22                            | 3,308.26     | 4,374.51               | 4,251.96                | 122.55                    | 35.695            |                    |           |
| 17,000.00                         | 12,392.00             | 16,545.68             | 11,416.36             | 87.97            | 93.49         | 76.51                 | 4,558.14                            | 3,307.32     | 4,375.20               | 4,250.65                | 124.55                    | 35.128            |                    |           |
| 17,100.00                         | 12,392.00             | 16,645.64             | 11,413.61             | 89.39            | 94.99         | 76.47                 | 4,658.06                            | 3,306.37     | 4,375.88               | 4,249.33                | 126.56                    | 34.577            |                    |           |
| 17,200.00                         | 12,392.00             | 16,745.60             | 11,410.85             | 90.82            | 96.48         | 76.44                 | 4,757.98                            | 3,305.42     | 4,376.57               | 4,248.00                | 128.57                    | 34.041            |                    |           |
| 17,300.00                         | 12,392.00             | 16,845.57             | 11,408.09             | 92.26            | 97.99         | 76.40                 | 4,857.90                            | 3,304.48     | 4,377.25               | 4,246.66                | 130.59                    | 33.519            |                    |           |
| 17,400.00                         | 12,392.00             | 16,945.53             | 11,405.34             | 93.70            | 99.49         | 76.37                 | 4,957.82                            | 3,303.53     | 4,377.94               | 4,245.32                | 132.62                    | 33.012            |                    |           |
| 17,500.00                         | 12,392.00             | 17,045.49             | 11,402.58             | 95.15            | 101.00        | 76.33                 | 5,057.73                            | 3,302.58     | 4,378.63               | 4,243.98                | 134.65                    | 32.518            |                    |           |
| 17,600.00                         | 12,392.00             | 17,145.45             | 11,399.83             | 96.61            | 102.52        | 76.30                 | 5,157.65                            | 3,301.63     | 4,379.33               | 4,242.63                | 136.70                    | 32.037            |                    |           |
| 17,700.00                         | 12,392.00             | 17,245.41             | 11,397.07             | 98.07            | 104.04        | 76.26                 | 5,257.57                            | 3,300.69     | 4,380.02               | 4,241.27                | 138.75                    | 31.569            |                    |           |
| 17,800.00                         | 12,392.00             | 17,345.38             | 11,394.31             | 99.54            | 105.57        | 76.23                 | 5,357.49                            | 3,299.74     | 4,380.71               | 4,239.91                | 140.80                    | 31.113            |                    |           |
| 17,900.00                         | 12,392.00             | 17,445.34             | 11,391.56             | 101.02           | 107.09        | 76.19                 | 5,457.41                            | 3,298.79     | 4,381.41               | 4,238.55                | 142.86                    | 30.669            |                    |           |
| 18,000.00                         | 12,392.00             | 17,545.30             | 11,388.80             | 102.50           | 108.62        | 76.16                 | 5,557.33                            | 3,297.85     | 4,382.11               | 4,237.18                | 144.93                    | 30.236            |                    |           |
| 18,100.00                         | 12,392.00             | 17,645.26             | 11,386.04             | 103.98           | 110.16        | 76.12                 | 5,657.25                            | 3,296.90     | 4,382.81               | 4,235.81                | 147.00                    | 29.815            |                    |           |
| 18,200.00                         | 12,392.00             | 17,745.22             | 11,383.29             | 105.47           | 111.70        | 76.09                 | 5,757.17                            | 3,295.95     | 4,383.51               | 4,234.43                | 149.08                    | 29.404            |                    |           |
| 18,300.00                         | 12,392.00             | 17,845.19             | 11,380.53             | 106.97           | 113.24        | 76.05                 | 5,857.09                            | 3,295.01     | 4,384.21               | 4,233.05                | 151.16                    | 29.004            |                    |           |
| 18,400.00                         | 12,392.00             | 17,945.15             | 11,377.78             | 108.47           | 114.78        | 76.02                 | 5,957.01                            | 3,294.06     | 4,384.92               | 4,231.67                | 153.25                    | 28.613            |                    |           |
| 18,500.00                         | 12,392.00             | 18,045.11             | 11,375.02             | 109.97           | 116.33        | 75.98                 | 6,056.93                            | 3,293.11     | 4,385.63               | 4,230.29                | 155.34                    | 28.233            |                    |           |
| 18,600.00                         | 12,392.00             | 18,145.07             | 11,372.26             | 111.48           | 117.88        | 75.95                 | 6,156.85                            | 3,292.16     | 4,386.34               | 4,228.90                | 157.43                    | 27.861            |                    |           |
| 18,700.00                         | 12,392.00             | 18,245.03             | 11,369.51             | 112.99           | 119.43        | 75.91                 | 6,256.77                            | 3,291.22     | 4,387.04               | 4,227.51                | 159.53                    | 27.499            |                    |           |
| 18,800.00                         | 12,392.00             | 18,345.00             | 11,366.75             | 114.51           | 120.99        | 75.88                 | 6,356.69                            | 3,290.27     | 4,387.76               | 4,226.12                | 161.64                    | 27.146            |                    |           |
| 18,900.00                         | 12,392.00             | 18,444.96             | 11,363.99             | 116.03           | 122.55        | 75.84                 | 6,456.61                            | 3,289.32     | 4,388.47               | 4,224.73                | 163.74                    | 26.801            |                    |           |
| 19,000.00                         | 12,392.00             | 18,544.92             | 11,361.24             | 117.55           | 124.11        | 75.81                 | 6,556.53                            | 3,288.38     | 4,389.18               | 4,223.33                | 165.85                    | 26.464            |                    |           |
| 19,100.00                         | 12,392.00             | 18,644.88             | 11,358.48             | 119.08           | 125.67        | 75.77                 | 6,656.45                            | 3,287.43     | 4,389.90               | 4,221.94                | 167.96                    | 26.136            |                    |           |
| 19,200.00                         | 12,392.00             | 18,744.84             | 11,355.73             | 120.61           | 127.24        | 75.74                 | 6,756.37                            | 3,286.48     | 4,390.62               | 4,220.54                | 170.08                    | 25.815            |                    |           |
| 19,300.00                         | 12,392.00             | 18,844.81             | 11,352.97             | 122.14           | 128.81        | 75.71                 | 6,856.29                            | 3,285.54     | 4,391.34               | 4,219.14                | 172.20                    | 25.502            |                    |           |
| 19,400.00                         | 12,392.00             | 18,944.77             | 11,350.21             | 123.68           | 130.37        | 75.67                 | 6,956.21                            | 3,284.59     | 4,392.06               | 4,217.74                | 174.32                    | 25.196            |                    |           |
| 19,500.00                         | 12,392.00             | 19,044.73             | 11,347.46             | 125.22           | 131.95        | 75.64                 | 7,056.12                            | 3,283.64     | 4,392.78               | 4,216.34                | 176.44                    | 24.896            |                    |           |
| 19,600.00                         | 12,392.00             | 19,144.69             | 11,344.70             | 126.76           | 133.52        | 75.60                 | 7,156.04                            | 3,282.69     | 4,393.51               | 4,214.94                | 178.57                    | 24.604            |                    |           |
| 19,700.00                         | 12,392.00             | 19,244.65             | 11,341.94             | 128.31           | 135.10        | 75.57                 | 7,255.96                            | 3,281.75     | 4,394.23               | 4,213.54                | 180.70                    | 24.318            |                    |           |
| 19,800.00                         | 12,392.00             | 19,344.62             | 11,339.19             | 129.85           | 136.67        | 75.53                 | 7,355.88                            | 3,280.80     | 4,394.96               | 4,212.13                | 182.83                    | 24.039            |                    |           |
| 19,900.00                         | 12,392.00             | 19,444.58             | 11,336.43             | 131.40           | 138.25        | 75.50                 | 7,455.80                            | 3,279.85     | 4,395.69               | 4,210.73                | 184.96                    | 23.765            |                    |           |
| 20,000.00                         | 12,392.00             | 19,544.54             | 11,333.68             | 132.96           | 139.83        | 75.46                 | 7,555.72                            | 3,278.91     | 4,396.42               | 4,209.32                | 187.10                    | 23.498            |                    |           |
| 20,100.00                         | 12,392.00             | 19,644.50             | 11,330.92             | 134.51           | 141.41        | 75.43                 | 7,655.64                            | 3,277.96     | 4,397.15               | 4,207.91                | 189.24                    | 23.236            |                    |           |
| 20,200.00                         | 12,392.00             | 19,744.46             | 11,328.16             | 136.07           | 143.00        | 75.39                 | 7,755.56                            | 3,277.01     | 4,397.89               | 4,206.51                | 191.38                    | 22.980            |                    |           |
| 20,300.00                         | 12,392.00             | 19,844.42             | 11,325.41             | 137.63           | 144.58        | 75.36                 | 7,855.48                            | 3,276.07     | 4,398.62               | 4,205.10                | 193.52                    | 22.729            |                    |           |
| 20,400.00                         | 12,392.00             | 19,944.39             | 11,322.65             | 139.19           | 146.17        | 75.32                 | 7,955.40                            | 3,275.12     | 4,399.36               | 4,203.69                | 195.67                    | 22.484            |                    |           |
| 20,500.00                         | 12,392.00             | 20,044.35             | 11,319.89             | 140.75           | 147.76        | 75.29                 | 8,055.32                            | 3,274.17     | 4,400.10               | 4,202.28                | 197.82                    | 22.243            |                    |           |
| 20,600.00                         | 12,392.00             | 20,144.31             | 11,317.14             | 142.32           | 149.35        | 75.25                 | 8,155.24                            | 3,273.23     | 4,400.84               | 4,200.88                | 199.96                    | 22.008            |                    |           |
| 20,700.00                         | 12,392.00             | 20,244.27             | 11,314.38             | 143.89           | 150.94        | 75.22                 | 8,255.16                            | 3,272.28     | 4,401.58               | 4,199.47                | 202.11                    | 21.778            |                    |           |
| 20,800.00                         | 12,392.00             | 20,344.23             | 11,311.63             | 145.46           | 152.53        | 75.19                 | 8,355.08                            | 3,271.33     | 4,402.33               | 4,198.06                | 204.26                    | 21.552            |                    |           |
| 20,900.00                         | 12,392.00             | 20,444.20             | 11,308.87             | 147.03           | 154.12        | 75.15                 | 8,455.00                            | 3,270.38     | 4,403.07               | 4,196.66                | 206.41                    | 21.331            |                    |           |
| 21,000.00                         | 12,392.00             | 20,544.16             | 11,306.11             | 148.60           | 155.72        | 75.12                 | 8,554.92                            | 3,269.44     | 4,403.82               | 4,195.25                | 208.57                    | 21.115            |                    |           |
| 21,100.00                         | 12,392.00             | 20,644.12             | 11,303.36             | 150.18           | 157.31        | 75.08                 | 8,654.84                            | 3,268.49     | 4,404.57               | 4,193.85                | 210.72                    | 20.902            |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| <b>Offset Design</b> KC7 Fed Com/El Paso Fed Com - El Paso Fed Com 604H - OH - Plan #1 |                             |                             |                             |                     |                  |                             |                        |                 |                              |                               |                                 | <b>Offset Site Error:</b> | 0.00 usft |
|----------------------------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|---------------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD                                                      |                             |                             |                             |                     |                  |                             |                        |                 |                              |                               |                                 | <b>Offset Well Error:</b> | 0.00 usft |
| Reference                                                                              |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Offset Wellbore Centre |                 | Distance                     |                               | Minimum<br>Separation<br>(usft) | Separation<br>Factor      | Warning   |
| Measured<br>Depth<br>(usft)                                                            | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | +N/-S<br>(usft)        | +E/-W<br>(usft) | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) |                                 |                           |           |
| 21,200.00                                                                              | 12,392.00                   | 20,744.08                   | 11,300.60                   | 151.75              | 158.91           | 75.05                       | 8,754.76               | 3,267.54        | 4,405.32                     | 4,192.44                      | 212.88                          | 20.694                    |           |
| 21,300.00                                                                              | 12,392.00                   | 20,844.04                   | 11,297.84                   | 153.33              | 160.51           | 75.01                       | 8,854.68               | 3,266.60        | 4,406.07                     | 4,191.04                      | 215.03                          | 20.490                    |           |
| 21,400.00                                                                              | 12,392.00                   | 20,944.01                   | 11,295.09                   | 154.91              | 162.11           | 74.98                       | 8,954.59               | 3,265.65        | 4,406.82                     | 4,189.63                      | 217.19                          | 20.290                    |           |
| 21,500.00                                                                              | 12,392.00                   | 21,043.97                   | 11,292.33                   | 156.49              | 163.71           | 74.94                       | 9,054.51               | 3,264.70        | 4,407.58                     | 4,188.23                      | 219.35                          | 20.094                    |           |
| 21,600.00                                                                              | 12,392.00                   | 21,143.93                   | 11,289.58                   | 158.07              | 165.31           | 74.91                       | 9,154.43               | 3,263.76        | 4,408.33                     | 4,186.83                      | 221.51                          | 19.902                    |           |
| 21,700.00                                                                              | 12,392.00                   | 21,243.89                   | 11,286.82                   | 159.66              | 166.91           | 74.88                       | 9,254.35               | 3,262.81        | 4,409.09                     | 4,185.42                      | 223.67                          | 19.713                    |           |
| 21,800.00                                                                              | 12,392.00                   | 21,343.85                   | 11,284.06                   | 161.24              | 168.52           | 74.84                       | 9,354.27               | 3,261.86        | 4,409.85                     | 4,184.02                      | 225.83                          | 19.527                    |           |
| 21,900.00                                                                              | 12,392.00                   | 21,443.82                   | 11,281.31                   | 162.83              | 170.12           | 74.81                       | 9,454.19               | 3,260.91        | 4,410.61                     | 4,182.62                      | 227.99                          | 19.345                    |           |
| 22,000.00                                                                              | 12,392.00                   | 21,543.78                   | 11,278.55                   | 164.42              | 171.72           | 74.77                       | 9,554.11               | 3,259.97        | 4,411.37                     | 4,181.22                      | 230.16                          | 19.167                    |           |
| 22,100.00                                                                              | 12,392.00                   | 21,643.74                   | 11,275.79                   | 166.01              | 173.33           | 74.74                       | 9,654.03               | 3,259.02        | 4,412.14                     | 4,179.82                      | 232.32                          | 18.992                    |           |
| 22,200.00                                                                              | 12,392.00                   | 21,743.70                   | 11,273.04                   | 167.60              | 174.94           | 74.70                       | 9,753.95               | 3,258.07        | 4,412.91                     | 4,178.42                      | 234.48                          | 18.820                    |           |
| 22,300.00                                                                              | 12,392.00                   | 21,843.66                   | 11,270.28                   | 169.19              | 176.55           | 74.67                       | 9,853.87               | 3,257.13        | 4,413.67                     | 4,177.02                      | 236.65                          | 18.651                    |           |
| 22,400.00                                                                              | 12,392.00                   | 21,943.63                   | 11,267.53                   | 170.78              | 178.15           | 74.63                       | 9,953.79               | 3,256.18        | 4,414.44                     | 4,175.63                      | 238.81                          | 18.485                    |           |
| 22,500.00                                                                              | 12,392.00                   | 22,043.59                   | 11,264.77                   | 172.37              | 179.76           | 74.60                       | 10,053.71              | 3,255.23        | 4,415.21                     | 4,174.23                      | 240.98                          | 18.322                    |           |
| 22,595.91                                                                              | 12,392.00                   | 22,139.46                   | 11,262.13                   | 173.90              | 181.31           | 74.57                       | 10,149.54              | 3,254.32        | 4,415.95                     | 4,172.90                      | 243.06                          | 18.168 SF                 |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   | Warning            |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 1,843.00                          | 1,843.00              | 1,888.60              | 1,888.60              | 6.37             | 6.54          | 98.64                 | -504.39                             | 3,320.32     | 3,358.42               | 3,349.29                | 9.13                      | 367.845           |                    |           |
| 1,900.00                          | 1,900.00              | 1,945.60              | 1,945.60              | 6.58             | 6.74          | 98.64                 | -504.39                             | 3,320.32     | 3,358.42               | 3,349.00                | 9.42                      | 356.560           |                    |           |
| 2,000.00                          | 2,000.00              | 2,045.60              | 2,045.60              | 6.94             | 7.10          | 98.64                 | -504.39                             | 3,320.32     | 3,358.42               | 3,348.49                | 9.93                      | 338.351           | CC, ES             |           |
| 2,100.00                          | 2,099.99              | 2,145.59              | 2,145.59              | 7.28             | 7.46          | -157.63               | -504.39                             | 3,320.32     | 3,359.63               | 3,349.20                | 10.42                     | 322.270           |                    |           |
| 2,200.00                          | 2,199.91              | 2,245.51              | 2,245.51              | 7.62             | 7.82          | -157.63               | -504.39                             | 3,320.32     | 3,363.26               | 3,352.34                | 10.92                     | 308.071           |                    |           |
| 2,300.00                          | 2,299.69              | 2,345.29              | 2,345.29              | 7.97             | 8.17          | -157.64               | -504.39                             | 3,320.32     | 3,369.31               | 3,357.90                | 11.41                     | 295.287           |                    |           |
| 2,400.00                          | 2,399.27              | 2,444.87              | 2,444.87              | 8.31             | 8.53          | -157.65               | -504.39                             | 3,320.32     | 3,377.78               | 3,365.87                | 11.90                     | 283.749           |                    |           |
| 2,500.00                          | 2,498.57              | 2,544.17              | 2,544.17              | 8.66             | 8.89          | -157.66               | -504.39                             | 3,320.32     | 3,388.66               | 3,376.26                | 12.40                     | 273.316           |                    |           |
| 2,600.00                          | 2,597.54              | 2,643.14              | 2,643.14              | 9.02             | 9.24          | -157.68               | -504.39                             | 3,320.32     | 3,401.95               | 3,389.06                | 12.89                     | 263.861           |                    |           |
| 2,700.00                          | 2,696.09              | 2,741.69              | 2,741.69              | 9.39             | 9.60          | -157.70               | -504.39                             | 3,320.32     | 3,417.65               | 3,404.26                | 13.39                     | 255.279           |                    |           |
| 2,762.60                          | 2,757.54              | 2,803.14              | 2,803.14              | 9.63             | 9.82          | -157.71               | -504.39                             | 3,320.32     | 3,428.70               | 3,415.00                | 13.70                     | 250.302           |                    |           |
| 2,800.00                          | 2,794.20              | 2,839.80              | 2,839.80              | 9.77             | 9.95          | -157.75               | -504.39                             | 3,320.32     | 3,435.58               | 3,421.70                | 13.88                     | 247.456           |                    |           |
| 2,900.00                          | 2,892.21              | 2,937.81              | 2,937.81              | 10.17            | 10.30         | -157.88               | -504.39                             | 3,320.32     | 3,454.00               | 3,439.62                | 14.38                     | 240.204           |                    |           |
| 3,000.00                          | 2,990.23              | 3,035.83              | 3,035.83              | 10.56            | 10.65         | -158.00               | -504.39                             | 3,320.32     | 3,472.43               | 3,457.55                | 14.88                     | 233.400           |                    |           |
| 3,100.00                          | 3,088.24              | 3,133.84              | 3,133.84              | 10.97            | 11.00         | -158.12               | -504.39                             | 3,320.32     | 3,490.88               | 3,475.50                | 15.38                     | 227.009           |                    |           |
| 3,200.00                          | 3,186.26              | 3,231.86              | 3,231.86              | 11.38            | 11.35         | -158.24               | -504.39                             | 3,320.32     | 3,509.34               | 3,493.46                | 15.88                     | 220.997           |                    |           |
| 3,300.00                          | 3,284.27              | 3,329.87              | 3,329.87              | 11.80            | 11.70         | -158.36               | -504.39                             | 3,320.32     | 3,527.82               | 3,511.43                | 16.38                     | 215.333           |                    |           |
| 3,400.00                          | 3,382.28              | 3,427.88              | 3,427.88              | 12.22            | 12.05         | -158.48               | -504.39                             | 3,320.32     | 3,546.31               | 3,529.42                | 16.89                     | 209.990           |                    |           |
| 3,500.00                          | 3,480.30              | 3,536.17              | 3,536.17              | 12.65            | 12.44         | -158.61               | -504.55                             | 3,320.25     | 3,564.78               | 3,547.36                | 17.42                     | 204.672           |                    |           |
| 3,600.00                          | 3,578.31              | 3,673.75              | 3,673.69              | 13.08            | 12.89         | -158.71               | -507.97                             | 3,318.65     | 3,582.47               | 3,564.47                | 18.00                     | 198.989           |                    |           |
| 3,700.00                          | 3,676.32              | 3,812.12              | 3,811.78              | 13.51            | 13.35         | -158.74               | -515.94                             | 3,314.94     | 3,599.08               | 3,580.50                | 18.59                     | 193.645           |                    |           |
| 3,800.00                          | 3,774.34              | 4,115.22              | 4,113.84              | 13.95            | 14.37         | -158.79               | -531.96                             | 3,297.00     | 3,612.70               | 3,593.14                | 19.56                     | 184.701           |                    |           |
| 3,900.00                          | 3,872.35              | 4,208.79              | 4,207.05              | 14.39            | 14.69         | -158.85               | -534.28                             | 3,289.19     | 3,623.32               | 3,603.27                | 20.05                     | 180.699           |                    |           |
| 4,000.00                          | 3,970.37              | 4,308.15              | 4,306.04              | 14.83            | 15.04         | -158.91               | -536.74                             | 3,280.88     | 3,633.95               | 3,613.39                | 20.56                     | 176.760           |                    |           |
| 4,100.00                          | 4,068.38              | 4,407.52              | 4,405.03              | 15.28            | 15.39         | -158.96               | -539.20                             | 3,272.57     | 3,644.58               | 3,623.51                | 21.07                     | 172.999           |                    |           |
| 4,200.00                          | 4,166.39              | 4,506.89              | 4,504.02              | 15.72            | 15.74         | -159.02               | -541.66                             | 3,264.26     | 3,655.21               | 3,633.63                | 21.58                     | 169.402           |                    |           |
| 4,300.00                          | 4,264.41              | 4,606.26              | 4,603.01              | 16.17            | 16.09         | -159.08               | -544.12                             | 3,255.96     | 3,665.85               | 3,643.76                | 22.09                     | 165.962           |                    |           |
| 4,400.00                          | 4,362.42              | 4,705.62              | 4,702.00              | 16.63            | 16.44         | -159.13               | -546.58                             | 3,247.65     | 3,676.49               | 3,653.89                | 22.60                     | 162.668           |                    |           |
| 4,500.00                          | 4,460.43              | 4,804.99              | 4,800.99              | 17.08            | 16.79         | -159.19               | -549.03                             | 3,239.34     | 3,687.13               | 3,664.01                | 23.12                     | 159.512           |                    |           |
| 4,600.00                          | 4,558.45              | 4,904.36              | 4,899.98              | 17.54            | 17.15         | -159.25               | -551.49                             | 3,231.04     | 3,697.78               | 3,674.15                | 23.63                     | 156.486           |                    |           |
| 4,700.00                          | 4,656.46              | 5,003.73              | 4,998.96              | 17.99            | 17.51         | -159.30               | -553.95                             | 3,222.73     | 3,708.43               | 3,684.28                | 24.15                     | 153.583           |                    |           |
| 4,800.00                          | 4,754.47              | 5,103.09              | 5,097.95              | 18.45            | 17.87         | -159.36               | -556.41                             | 3,214.42     | 3,719.08               | 3,694.42                | 24.66                     | 150.795           |                    |           |
| 4,900.00                          | 4,852.49              | 5,202.46              | 5,196.94              | 18.91            | 18.22         | -159.41               | -558.87                             | 3,206.12     | 3,729.74               | 3,704.56                | 25.18                     | 148.117           |                    |           |
| 5,000.00                          | 4,950.50              | 5,301.83              | 5,295.93              | 19.37            | 18.58         | -159.46               | -561.33                             | 3,197.81     | 3,740.40               | 3,714.70                | 25.70                     | 145.542           |                    |           |
| 5,100.00                          | 5,048.52              | 5,401.20              | 5,394.92              | 19.83            | 18.94         | -159.52               | -563.78                             | 3,189.50     | 3,751.06               | 3,724.84                | 26.22                     | 143.065           |                    |           |
| 5,200.00                          | 5,146.53              | 5,500.56              | 5,493.91              | 20.29            | 19.31         | -159.57               | -566.24                             | 3,181.20     | 3,761.73               | 3,734.99                | 26.74                     | 140.681           |                    |           |
| 5,300.00                          | 5,244.54              | 5,599.93              | 5,592.90              | 20.76            | 19.67         | -159.63               | -568.70                             | 3,172.89     | 3,772.40               | 3,745.14                | 27.26                     | 138.384           |                    |           |
| 5,400.00                          | 5,342.56              | 5,699.30              | 5,691.89              | 21.22            | 20.03         | -159.68               | -571.16                             | 3,164.58     | 3,783.07               | 3,755.29                | 27.78                     | 136.170           |                    |           |
| 5,500.00                          | 5,440.57              | 5,798.67              | 5,790.88              | 21.69            | 20.40         | -159.73               | -573.62                             | 3,156.28     | 3,793.75               | 3,765.44                | 28.30                     | 134.035           |                    |           |
| 5,600.00                          | 5,538.58              | 5,898.03              | 5,889.87              | 22.15            | 20.76         | -159.78               | -576.08                             | 3,147.97     | 3,804.43               | 3,775.60                | 28.83                     | 131.975           |                    |           |
| 5,700.00                          | 5,636.60              | 5,997.40              | 5,988.86              | 22.62            | 21.13         | -159.84               | -578.54                             | 3,139.66     | 3,815.11               | 3,785.76                | 29.35                     | 129.986           |                    |           |
| 5,800.00                          | 5,734.61              | 6,096.77              | 6,087.84              | 23.09            | 21.49         | -159.89               | -580.99                             | 3,131.35     | 3,825.80               | 3,795.92                | 29.87                     | 128.065           |                    |           |
| 5,900.00                          | 5,832.62              | 6,196.14              | 6,186.83              | 23.56            | 21.86         | -159.94               | -583.45                             | 3,123.05     | 3,836.49               | 3,806.09                | 30.40                     | 126.208           |                    |           |
| 6,000.00                          | 5,930.64              | 6,295.50              | 6,285.82              | 24.02            | 22.22         | -159.99               | -585.91                             | 3,114.74     | 3,847.18               | 3,816.26                | 30.92                     | 124.413           |                    |           |
| 6,100.00                          | 6,028.65              | 6,394.87              | 6,384.81              | 24.49            | 22.59         | -160.04               | -588.37                             | 3,106.43     | 3,857.88               | 3,826.43                | 31.45                     | 122.675           |                    |           |
| 6,200.00                          | 6,126.67              | 6,494.24              | 6,483.80              | 24.96            | 22.96         | -160.09               | -590.83                             | 3,098.13     | 3,868.57               | 3,836.60                | 31.97                     | 120.994           |                    |           |
| 6,300.00                          | 6,224.68              | 6,593.61              | 6,582.79              | 25.43            | 23.33         | -160.14               | -593.29                             | 3,089.82     | 3,879.27               | 3,846.78                | 32.50                     | 119.366           |                    |           |
| 6,400.00                          | 6,322.69              | 6,692.97              | 6,681.78              | 25.91            | 23.70         | -160.20               | -595.74                             | 3,081.51     | 3,889.98               | 3,856.95                | 33.03                     | 117.788           |                    |           |
| 6,500.00                          | 6,420.71              | 6,792.34              | 6,780.77              | 26.38            | 24.07         | -160.25               | -598.20                             | 3,073.21     | 3,900.69               | 3,867.13                | 33.55                     | 116.259           |                    |           |
| 6,600.00                          | 6,518.72              | 6,891.71              | 6,879.76              | 26.85            | 24.44         | -160.29               | -600.66                             | 3,064.90     | 3,911.40               | 3,877.32                | 34.08                     | 114.776           |                    |           |
| 6,669.11                          | 6,586.46              | 6,960.38              | 6,948.17              | 27.18            | 24.69         | -160.33               | -602.36                             | 3,059.16     | 3,918.80               | 3,884.36                | 34.44                     | 113.777           |                    |           |
| 6,700.00                          | 6,616.76              | 6,991.09              | 6,978.76              | 27.32            | 24.81         | -160.36               | -603.12                             | 3,056.59     | 3,921.99               | 3,887.39                | 34.61                     | 113.335           |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning            |           |
| 6,800.00                          | 6,715.17              | 7,090.67              | 7,077.96              | 27.78            | 25.18         | -160.44               | -605.58                             | 3,048.27     | 3,930.72               | 3,895.59                | 35.13                     | 111.891           |                    |           |
| 6,900.00                          | 6,814.01              | 7,190.45              | 7,177.37              | 28.21            | 25.55         | -160.50               | -608.05                             | 3,039.93     | 3,937.00               | 3,901.34                | 35.65                     | 110.430           |                    |           |
| 7,000.00                          | 6,913.21              | 7,290.38              | 7,276.91              | 28.62            | 25.92         | -160.53               | -610.53                             | 3,031.57     | 3,940.80               | 3,904.63                | 36.17                     | 108.954           |                    |           |
| 7,100.00                          | 7,012.71              | 7,390.36              | 7,376.51              | 29.01            | 26.30         | -160.54               | -613.00                             | 3,023.21     | 3,942.14               | 3,905.46                | 36.68                     | 107.465           |                    |           |
| 7,200.00                          | 7,112.43              | 7,490.35              | 7,476.12              | 29.37            | 26.67         | -160.52               | -615.47                             | 3,014.86     | 3,941.02               | 3,903.82                | 37.19                     | 105.964           |                    |           |
| 7,300.00                          | 7,212.32              | 7,590.27              | 7,575.66              | 29.72            | 27.05         | -160.48               | -617.94                             | 3,006.50     | 3,937.42               | 3,899.72                | 37.70                     | 104.451           |                    |           |
| 7,400.00                          | 7,312.29              | 7,690.05              | 7,675.06              | 30.04            | 27.42         | -160.41               | -620.41                             | 2,998.16     | 3,931.36               | 3,893.17                | 38.20                     | 102.929           |                    |           |
| 7,431.71                          | 7,344.00              | 7,721.65              | 7,706.54              | 30.14            | 27.54         | 95.88                 | -621.20                             | 2,995.52     | 3,928.93               | 3,890.58                | 38.35                     | 102.447           |                    |           |
| 7,500.00                          | 7,412.29              | 7,789.68              | 7,774.31              | 30.34            | 27.79         | 95.91                 | -622.88                             | 2,989.83     | 3,923.42               | 3,884.74                | 38.68                     | 101.425           |                    |           |
| 7,600.00                          | 7,512.29              | 7,889.30              | 7,873.55              | 30.64            | 28.17         | 95.96                 | -625.34                             | 2,981.50     | 3,915.36               | 3,876.19                | 39.17                     | 99.958            |                    |           |
| 7,700.00                          | 7,612.29              | 7,988.92              | 7,972.79              | 30.94            | 28.54         | 96.01                 | -627.81                             | 2,973.18     | 3,907.30               | 3,867.64                | 39.66                     | 98.526            |                    |           |
| 7,800.00                          | 7,712.29              | 8,088.54              | 8,072.03              | 31.24            | 28.92         | 96.06                 | -630.27                             | 2,964.85     | 3,899.24               | 3,859.09                | 40.15                     | 97.128            |                    |           |
| 7,900.00                          | 7,812.29              | 8,188.16              | 8,171.27              | 31.55            | 29.29         | 96.11                 | -632.74                             | 2,956.52     | 3,891.18               | 3,850.55                | 40.63                     | 95.761            |                    |           |
| 8,000.00                          | 7,912.29              | 8,287.77              | 8,270.51              | 31.85            | 29.67         | 96.16                 | -635.20                             | 2,948.19     | 3,883.13               | 3,842.01                | 41.12                     | 94.426            |                    |           |
| 8,100.00                          | 8,012.29              | 8,387.39              | 8,369.75              | 32.16            | 30.04         | 96.21                 | -637.67                             | 2,939.86     | 3,875.08               | 3,833.47                | 41.61                     | 93.121            |                    |           |
| 8,200.00                          | 8,112.29              | 8,487.01              | 8,468.99              | 32.47            | 30.42         | 96.26                 | -640.13                             | 2,931.54     | 3,867.04               | 3,824.93                | 42.10                     | 91.844            |                    |           |
| 8,300.00                          | 8,212.29              | 8,586.63              | 8,568.23              | 32.78            | 30.79         | 96.31                 | -642.60                             | 2,923.21     | 3,858.99               | 3,816.40                | 42.60                     | 90.597            |                    |           |
| 8,400.00                          | 8,312.29              | 8,686.25              | 8,667.47              | 33.08            | 31.17         | 96.36                 | -645.06                             | 2,914.88     | 3,850.95               | 3,807.87                | 43.09                     | 89.376            |                    |           |
| 8,500.00                          | 8,412.29              | 8,785.87              | 8,766.71              | 33.40            | 31.55         | 96.41                 | -647.53                             | 2,906.55     | 3,842.91               | 3,799.34                | 43.58                     | 88.183            |                    |           |
| 8,600.00                          | 8,512.29              | 8,885.49              | 8,865.95              | 33.71            | 31.92         | 96.46                 | -649.99                             | 2,898.23     | 3,834.88               | 3,790.81                | 44.07                     | 87.015            |                    |           |
| 8,700.00                          | 8,612.29              | 8,985.11              | 8,965.19              | 34.02            | 32.30         | 96.51                 | -652.46                             | 2,889.90     | 3,826.85               | 3,782.28                | 44.56                     | 85.872            |                    |           |
| 8,800.00                          | 8,712.29              | 9,084.73              | 9,064.43              | 34.33            | 32.68         | 96.56                 | -654.92                             | 2,881.57     | 3,818.82               | 3,773.76                | 45.06                     | 84.753            |                    |           |
| 8,900.00                          | 8,812.29              | 9,184.35              | 9,163.67              | 34.65            | 33.05         | 96.61                 | -657.38                             | 2,873.24     | 3,810.79               | 3,765.24                | 45.55                     | 83.657            |                    |           |
| 9,000.00                          | 8,912.29              | 9,283.97              | 9,262.91              | 34.96            | 33.43         | 96.66                 | -659.85                             | 2,864.91     | 3,802.77               | 3,756.73                | 46.05                     | 82.585            |                    |           |
| 9,100.00                          | 9,012.29              | 9,383.59              | 9,362.15              | 35.28            | 33.81         | 96.72                 | -662.31                             | 2,856.59     | 3,794.75               | 3,748.21                | 46.54                     | 81.534            |                    |           |
| 9,200.00                          | 9,112.29              | 9,483.21              | 9,461.39              | 35.59            | 34.18         | 96.77                 | -664.78                             | 2,848.26     | 3,786.74               | 3,739.70                | 47.04                     | 80.505            |                    |           |
| 9,300.00                          | 9,212.29              | 9,582.82              | 9,560.63              | 35.91            | 34.56         | 96.82                 | -667.24                             | 2,839.93     | 3,778.72               | 3,731.19                | 47.53                     | 79.497            |                    |           |
| 9,400.00                          | 9,312.29              | 9,682.44              | 9,659.87              | 36.23            | 34.94         | 96.87                 | -669.71                             | 2,831.60     | 3,770.71               | 3,722.68                | 48.03                     | 78.509            |                    |           |
| 9,500.00                          | 9,412.29              | 9,782.06              | 9,759.11              | 36.55            | 35.32         | 96.92                 | -672.17                             | 2,823.27     | 3,762.71               | 3,714.18                | 48.53                     | 77.540            |                    |           |
| 9,600.00                          | 9,512.29              | 9,881.68              | 9,858.35              | 36.87            | 35.69         | 96.98                 | -674.64                             | 2,814.95     | 3,754.70               | 3,705.68                | 49.02                     | 76.591            |                    |           |
| 9,700.00                          | 9,612.29              | 9,981.30              | 9,957.59              | 37.19            | 36.07         | 97.03                 | -677.10                             | 2,806.62     | 3,746.70               | 3,697.18                | 49.52                     | 75.660            |                    |           |
| 9,800.00                          | 9,712.29              | 10,080.92             | 10,056.83             | 37.51            | 36.45         | 97.08                 | -679.57                             | 2,798.29     | 3,738.70               | 3,688.69                | 50.02                     | 74.748            |                    |           |
| 9,900.00                          | 9,812.29              | 10,152.52             | 10,128.17             | 37.83            | 36.72         | 97.12                 | -681.30                             | 2,792.43     | 3,730.93               | 3,680.49                | 50.44                     | 73.962            |                    |           |
| 10,000.00                         | 9,912.29              | 10,200.00             | 10,175.52             | 38.15            | 36.90         | 97.14                 | -682.28                             | 2,789.11     | 3,724.33               | 3,673.52                | 50.80                     | 73.309            |                    |           |
| 10,100.00                         | 10,012.29             | 10,257.91             | 10,233.33             | 38.47            | 37.11         | 97.16                 | -683.25                             | 2,785.83     | 3,718.97               | 3,667.79                | 51.18                     | 72.658            |                    |           |
| 10,200.00                         | 10,112.29             | 10,300.00             | 10,275.37             | 38.80            | 37.27         | 97.18                 | -683.80                             | 2,783.98     | 3,714.92               | 3,663.40                | 51.52                     | 72.112            |                    |           |
| 10,300.00                         | 10,212.29             | 10,363.60             | 10,338.94             | 39.12            | 37.49         | 97.19                 | -684.38                             | 2,782.01     | 3,712.07               | 3,660.17                | 51.90                     | 71.521            |                    |           |
| 10,400.00                         | 10,312.29             | 10,416.51             | 10,391.84             | 39.45            | 37.68         | 97.19                 | -684.64                             | 2,781.16     | 3,710.52               | 3,658.27                | 52.25                     | 71.013            |                    |           |
| 10,500.00                         | 10,412.29             | 10,482.56             | 10,457.89             | 39.77            | 37.90         | 97.20                 | -684.69                             | 2,780.97     | 3,710.19               | 3,657.56                | 52.63                     | 70.491            |                    |           |
| 10,600.00                         | 10,512.29             | 10,582.56             | 10,557.89             | 40.10            | 38.24         | 97.20                 | -684.69                             | 2,780.97     | 3,710.19               | 3,657.07                | 53.12                     | 69.849            |                    |           |
| 10,700.00                         | 10,612.29             | 10,682.56             | 10,657.89             | 40.42            | 38.58         | 97.20                 | -684.69                             | 2,780.97     | 3,710.19               | 3,656.59                | 53.60                     | 69.217            |                    |           |
| 10,800.00                         | 10,712.29             | 10,782.56             | 10,757.89             | 40.75            | 38.92         | 97.20                 | -684.69                             | 2,780.97     | 3,710.19               | 3,656.10                | 54.09                     | 68.596            |                    |           |
| 10,900.00                         | 10,812.29             | 10,882.56             | 10,857.89             | 41.08            | 39.26         | 97.20                 | -684.69                             | 2,780.97     | 3,710.19               | 3,655.62                | 54.57                     | 67.986            |                    |           |
| 11,000.00                         | 10,912.29             | 10,982.56             | 10,957.89             | 41.41            | 39.60         | 97.20                 | -684.69                             | 2,780.97     | 3,710.19               | 3,655.13                | 55.06                     | 67.386            |                    |           |
| 11,100.00                         | 11,012.29             | 11,082.56             | 11,057.89             | 41.73            | 39.94         | 97.20                 | -684.69                             | 2,780.97     | 3,710.19               | 3,654.64                | 55.55                     | 66.796            |                    |           |
| 11,200.00                         | 11,112.29             | 11,182.56             | 11,157.89             | 42.06            | 40.28         | 97.20                 | -684.69                             | 2,780.97     | 3,710.19               | 3,654.16                | 56.03                     | 66.216            |                    |           |
| 11,300.00                         | 11,212.29             | 11,282.56             | 11,257.89             | 42.39            | 40.62         | 97.20                 | -684.69                             | 2,780.97     | 3,710.19               | 3,653.67                | 56.52                     | 65.645            |                    |           |
| 11,400.00                         | 11,312.29             | 11,785.33             | 11,704.41             | 42.72            | 41.91         | 94.21                 | -490.58                             | 2,779.14     | 3,705.31               | 3,647.55                | 57.76                     | 64.146            |                    |           |
| 11,500.00                         | 11,412.29             | 11,980.94             | 11,806.44             | 43.05            | 42.12         | 91.63                 | -324.80                             | 2,777.57     | 3,695.53               | 3,637.24                | 58.29                     | 63.397            |                    |           |
| 11,600.00                         | 11,512.29             | 12,053.93             | 11,829.20             | 43.38            | 42.21         | 90.55                 | -255.51                             | 2,776.91     | 3,687.08               | 3,628.42                | 58.66                     | 62.853            |                    |           |
| 11,700.00                         | 11,612.29             | 12,090.79             | 11,837.30             | 43.71            | 42.28         | 89.99                 | -219.56                             | 2,776.57     | 3,680.94               | 3,621.99                | 58.96                     | 62.435            |                    |           |
| 11,800.00                         | 11,712.29             | 12,112.85             | 11,841.03             | 44.05            | 42.33         | 89.65                 | -197.82                             | 2,776.36     | 3,677.37               | 3,618.17                | 59.20                     | 62.115            |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |         |                           | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------|---------------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |         |                           | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         | Warning |                           |                    |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) |         | Minimum Separation (usft) | Separation Factor  |           |
| 11,884.91                         | 11,797.20             | 12,125.60             | 11,842.80             | 44.33            | 42.36         | 89.46                 | -185.19                             | 2,776.24     | 3,676.41               | 3,617.03                | 59.38   | 61.912                    |                    |           |
| 11,906.75                         | 11,819.04             | 12,128.30             | 11,843.14             | 44.40            | 42.36         | 89.42                 | -182.52                             | 2,776.22     | 3,676.47               | 3,617.05                | 59.42   | 61.870                    |                    |           |
| 11,950.00                         | 11,862.25             | 12,134.55             | 11,843.88             | 44.54            | 42.38         | 89.84                 | -176.31                             | 2,776.16     | 3,676.97               | 3,617.47                | 59.50   | 61.796                    |                    |           |
| 12,000.00                         | 11,911.88             | 12,144.15             | 11,844.88             | 44.70            | 42.40         | 89.57                 | -166.76                             | 2,776.07     | 3,678.15               | 3,618.56                | 59.59   | 61.727                    |                    |           |
| 12,050.00                         | 11,960.80             | 12,155.78             | 11,845.88             | 44.85            | 42.43         | 89.22                 | -155.18                             | 2,775.96     | 3,679.94               | 3,620.27                | 59.67   | 61.674                    |                    |           |
| 12,100.00                         | 12,008.65             | 12,169.03             | 11,846.73             | 45.00            | 42.47         | 88.79                 | -141.96                             | 2,775.83     | 3,682.29               | 3,622.55                | 59.74   | 61.638                    |                    |           |
| 12,150.00                         | 12,055.05             | 12,183.59             | 11,847.31             | 45.13            | 42.50         | 88.30                 | -127.41                             | 2,775.70     | 3,685.15               | 3,625.35                | 59.81   | 61.619                    |                    |           |
| 12,200.00                         | 12,099.66             | 12,200.00             | 11,847.53             | 45.25            | 42.55         | 87.74                 | -111.00                             | 2,775.54     | 3,688.48               | 3,628.61                | 59.87   | 61.613                    |                    |           |
| 12,250.00                         | 12,142.12             | 12,215.80             | 11,847.29             | 45.35            | 42.60         | 87.16                 | -95.21                              | 2,775.39     | 3,692.19               | 3,632.27                | 59.92   | 61.621                    |                    |           |
| 12,300.00                         | 12,182.14             | 12,244.59             | 11,846.46             | 45.45            | 42.69         | 86.39                 | -66.43                              | 2,775.12     | 3,696.20               | 3,636.20                | 59.99   | 61.609                    |                    |           |
| 12,350.00                         | 12,219.38             | 12,276.84             | 11,845.53             | 45.53            | 42.79         | 85.59                 | -34.19                              | 2,774.81     | 3,700.35               | 3,640.27                | 60.07   | 61.596                    |                    |           |
| 12,400.00                         | 12,253.58             | 12,312.29             | 11,844.51             | 45.60            | 42.92         | 84.79                 | 1.24                                | 2,774.48     | 3,704.52               | 3,644.36                | 60.16   | 61.573                    |                    |           |
| 12,450.00                         | 12,284.48             | 12,350.68             | 11,843.41             | 45.65            | 43.07         | 84.00                 | 39.62                               | 2,774.12     | 3,708.61               | 3,648.33                | 60.27   | 61.532                    |                    |           |
| 12,500.00                         | 12,311.83             | 12,391.72             | 11,842.23             | 45.70            | 43.23         | 83.26                 | 80.63                               | 2,773.73     | 3,712.48               | 3,652.09                | 60.39   | 61.479                    |                    |           |
| 12,550.00                         | 12,335.43             | 12,435.08             | 11,840.98             | 45.74            | 43.42         | 82.57                 | 123.98                              | 2,773.32     | 3,716.03               | 3,655.50                | 60.53   | 61.396                    |                    |           |
| 12,600.00                         | 12,355.10             | 12,480.45             | 11,839.68             | 45.77            | 43.62         | 81.97                 | 169.32                              | 2,772.89     | 3,719.16               | 3,658.48                | 60.68   | 61.291                    |                    |           |
| 12,650.00                         | 12,370.69             | 12,527.47             | 11,838.33             | 45.81            | 43.84         | 81.47                 | 216.32                              | 2,772.44     | 3,721.77               | 3,660.91                | 60.86   | 61.153                    |                    |           |
| 12,700.00                         | 12,382.08             | 12,575.79             | 11,836.94             | 45.84            | 44.09         | 81.08                 | 264.62                              | 2,771.99     | 3,723.80               | 3,662.74                | 61.06   | 60.984                    |                    |           |
| 12,750.00                         | 12,389.19             | 12,625.04             | 11,835.52             | 45.89            | 44.35         | 80.82                 | 313.85                              | 2,771.52     | 3,725.18               | 3,663.89                | 61.29   | 60.783                    |                    |           |
| 12,800.00                         | 12,391.96             | 12,674.85             | 11,834.09             | 45.94            | 44.62         | 80.68                 | 363.63                              | 2,771.05     | 3,725.88               | 3,664.35                | 61.54   | 60.548                    |                    |           |
| 12,806.75                         | 12,392.00             | 12,681.59             | 11,833.89             | 45.95            | 44.66         | 80.68                 | 370.37                              | 2,770.98     | 3,725.92               | 3,664.35                | 61.57   | 60.515                    |                    |           |
| 12,900.00                         | 12,392.00             | 12,774.81             | 11,831.21             | 46.10            | 45.22         | 80.63                 | 463.54                              | 2,770.10     | 3,726.40               | 3,664.30                | 62.10   | 60.009                    |                    |           |
| 13,000.00                         | 12,392.00             | 12,874.76             | 11,828.34             | 46.33            | 45.86         | 80.59                 | 563.46                              | 2,769.16     | 3,726.91               | 3,664.17                | 62.74   | 59.403                    |                    |           |
| 13,100.00                         | 12,392.00             | 12,974.72             | 11,825.46             | 46.63            | 46.56         | 80.55                 | 663.37                              | 2,768.21     | 3,727.42               | 3,663.96                | 63.46   | 58.738                    |                    |           |
| 13,200.00                         | 12,392.00             | 13,074.68             | 11,822.59             | 47.00            | 47.30         | 80.50                 | 763.28                              | 2,767.26     | 3,727.93               | 3,663.68                | 64.25   | 58.020                    |                    |           |
| 13,300.00                         | 12,392.00             | 13,174.64             | 11,819.72             | 47.44            | 48.08         | 80.46                 | 863.20                              | 2,766.32     | 3,728.45               | 3,663.33                | 65.12   | 57.257                    |                    |           |
| 13,400.00                         | 12,392.00             | 13,274.60             | 11,816.84             | 47.95            | 48.91         | 80.42                 | 963.11                              | 2,765.37     | 3,728.97               | 3,662.91                | 66.05   | 56.454                    |                    |           |
| 13,500.00                         | 12,392.00             | 13,374.56             | 11,813.97             | 48.51            | 49.78         | 80.37                 | 1,063.02                            | 2,764.43     | 3,729.49               | 3,662.44                | 67.05   | 55.620                    |                    |           |
| 13,600.00                         | 12,392.00             | 13,474.52             | 11,811.09             | 49.13            | 50.68         | 80.33                 | 1,162.93                            | 2,763.48     | 3,730.01               | 3,661.89                | 68.12   | 54.759                    |                    |           |
| 13,700.00                         | 12,392.00             | 13,574.47             | 11,808.22             | 49.79            | 51.63         | 80.29                 | 1,262.85                            | 2,762.53     | 3,730.54               | 3,661.30                | 69.24   | 53.878                    |                    |           |
| 13,800.00                         | 12,392.00             | 13,674.43             | 11,805.34             | 50.51            | 52.60         | 80.24                 | 1,362.76                            | 2,761.59     | 3,731.06               | 3,660.64                | 70.42   | 52.982                    |                    |           |
| 13,900.00                         | 12,392.00             | 13,774.39             | 11,802.47             | 51.27            | 53.62         | 80.20                 | 1,462.67                            | 2,760.64     | 3,731.59               | 3,659.94                | 71.66   | 52.076                    |                    |           |
| 14,000.00                         | 12,392.00             | 13,874.35             | 11,799.59             | 52.07            | 54.66         | 80.16                 | 1,562.59                            | 2,759.69     | 3,732.12               | 3,659.18                | 72.94   | 51.164                    |                    |           |
| 14,100.00                         | 12,392.00             | 13,974.31             | 11,796.72             | 52.91            | 55.73         | 80.11                 | 1,662.50                            | 2,758.75     | 3,732.66               | 3,658.38                | 74.28   | 50.252                    |                    |           |
| 14,200.00                         | 12,392.00             | 14,074.27             | 11,793.85             | 53.79            | 56.83         | 80.07                 | 1,762.41                            | 2,757.80     | 3,733.19               | 3,657.53                | 75.66   | 49.341                    |                    |           |
| 14,300.00                         | 12,392.00             | 14,174.23             | 11,790.97             | 54.70            | 57.95         | 80.03                 | 1,862.32                            | 2,756.86     | 3,733.73               | 3,656.65                | 77.09   | 48.436                    |                    |           |
| 14,400.00                         | 12,392.00             | 14,274.18             | 11,788.10             | 55.65            | 59.10         | 79.98                 | 1,962.24                            | 2,755.91     | 3,734.27               | 3,655.72                | 78.55   | 47.539                    |                    |           |
| 14,500.00                         | 12,392.00             | 14,374.14             | 11,785.22             | 56.64            | 60.27         | 79.94                 | 2,062.15                            | 2,754.96     | 3,734.81               | 3,654.76                | 80.06   | 46.652                    |                    |           |
| 14,600.00                         | 12,392.00             | 14,474.10             | 11,782.35             | 57.65            | 61.47         | 79.90                 | 2,162.06                            | 2,754.02     | 3,735.36               | 3,653.76                | 81.60   | 45.778                    |                    |           |
| 14,700.00                         | 12,392.00             | 14,574.06             | 11,779.47             | 58.69            | 62.68         | 79.85                 | 2,261.98                            | 2,753.07     | 3,735.91               | 3,652.73                | 83.17   | 44.917                    |                    |           |
| 14,800.00                         | 12,392.00             | 14,674.02             | 11,776.60             | 59.76            | 63.91         | 79.81                 | 2,361.89                            | 2,752.13     | 3,736.45               | 3,651.67                | 84.78   | 44.071                    |                    |           |
| 14,900.00                         | 12,392.00             | 14,773.98             | 11,773.72             | 60.86            | 65.17         | 79.77                 | 2,461.80                            | 2,751.18     | 3,737.01               | 3,650.58                | 86.42   | 43.242                    |                    |           |
| 15,000.00                         | 12,392.00             | 14,873.94             | 11,770.85             | 61.98            | 66.44         | 79.72                 | 2,561.71                            | 2,750.23     | 3,737.56               | 3,649.47                | 88.09   | 42.429                    |                    |           |
| 15,100.00                         | 12,392.00             | 14,973.90             | 11,767.97             | 63.12            | 67.72         | 79.68                 | 2,661.63                            | 2,749.29     | 3,738.11               | 3,648.33                | 89.79   | 41.634                    |                    |           |
| 15,200.00                         | 12,392.00             | 15,073.85             | 11,765.10             | 64.29            | 69.03         | 79.64                 | 2,761.54                            | 2,748.34     | 3,738.67               | 3,647.16                | 91.51   | 40.857                    |                    |           |
| 15,300.00                         | 12,392.00             | 15,173.81             | 11,762.23             | 65.47            | 70.34         | 79.59                 | 2,861.45                            | 2,747.40     | 3,739.23               | 3,645.98                | 93.25   | 40.098                    |                    |           |
| 15,400.00                         | 12,392.00             | 15,273.77             | 11,759.35             | 66.68            | 71.67         | 79.55                 | 2,961.37                            | 2,746.45     | 3,739.79               | 3,644.77                | 95.02   | 39.357                    |                    |           |
| 15,500.00                         | 12,392.00             | 15,373.73             | 11,756.48             | 67.90            | 73.02         | 79.51                 | 3,061.28                            | 2,745.50     | 3,740.36               | 3,643.54                | 96.81   | 38.635                    |                    |           |
| 15,600.00                         | 12,392.00             | 15,473.69             | 11,753.60             | 69.15            | 74.37         | 79.46                 | 3,161.19                            | 2,744.56     | 3,740.92               | 3,642.30                | 98.62   | 37.931                    |                    |           |
| 15,700.00                         | 12,392.00             | 15,573.65             | 11,750.73             | 70.41            | 75.74         | 79.42                 | 3,261.10                            | 2,743.61     | 3,741.49               | 3,641.03                | 100.45  | 37.245                    |                    |           |
| 15,800.00                         | 12,392.00             | 15,673.61             | 11,747.85             | 71.68            | 77.12         | 79.38                 | 3,361.02                            | 2,742.67     | 3,742.06               | 3,639.75                | 102.30  | 36.578                    |                    |           |
| 15,900.00                         | 12,392.00             | 15,773.56             | 11,744.98             | 72.97            | 78.51         | 79.34                 | 3,460.93                            | 2,741.72     | 3,742.63               | 3,638.46                | 104.17  | 35.928                    |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   | Warning            |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 16,000.00                         | 12,392.00             | 15,873.52             | 11,742.10             | 74.28            | 79.91         | 79.29                 | 3,560.84                            | 2,740.77     | 3,743.21               | 3,637.15                | 106.05                    | 35.296            |                    |           |
| 16,100.00                         | 12,392.00             | 15,973.48             | 11,739.23             | 75.60            | 81.32         | 79.25                 | 3,660.76                            | 2,739.83     | 3,743.78               | 3,635.83                | 107.95                    | 34.681            |                    |           |
| 16,200.00                         | 12,392.00             | 16,073.44             | 11,736.36             | 76.93            | 82.74         | 79.21                 | 3,760.67                            | 2,738.88     | 3,744.36               | 3,634.50                | 109.86                    | 34.083            |                    |           |
| 16,300.00                         | 12,392.00             | 16,173.40             | 11,733.48             | 78.27            | 84.16         | 79.16                 | 3,860.58                            | 2,737.94     | 3,744.94               | 3,633.16                | 111.78                    | 33.501            |                    |           |
| 16,400.00                         | 12,392.00             | 16,273.36             | 11,730.61             | 79.63            | 85.60         | 79.12                 | 3,960.49                            | 2,736.99     | 3,745.52               | 3,631.80                | 113.72                    | 32.936            |                    |           |
| 16,500.00                         | 12,392.00             | 16,373.32             | 11,727.73             | 80.99            | 87.04         | 79.08                 | 4,060.41                            | 2,736.04     | 3,746.11               | 3,630.44                | 115.67                    | 32.386            |                    |           |
| 16,600.00                         | 12,392.00             | 16,473.27             | 11,724.86             | 82.37            | 88.49         | 79.03                 | 4,160.32                            | 2,735.10     | 3,746.69               | 3,629.06                | 117.63                    | 31.850            |                    |           |
| 16,700.00                         | 12,392.00             | 16,573.23             | 11,721.98             | 83.75            | 89.94         | 78.99                 | 4,260.23                            | 2,734.15     | 3,747.28               | 3,627.68                | 119.61                    | 31.330            |                    |           |
| 16,800.00                         | 12,392.00             | 16,673.19             | 11,719.11             | 85.15            | 91.41         | 78.95                 | 4,360.14                            | 2,733.21     | 3,747.88               | 3,626.28                | 121.59                    | 30.824            |                    |           |
| 16,900.00                         | 12,392.00             | 16,773.15             | 11,716.23             | 86.56            | 92.88         | 78.90                 | 4,460.06                            | 2,732.26     | 3,748.47               | 3,624.88                | 123.58                    | 30.331            |                    |           |
| 17,000.00                         | 12,392.00             | 16,873.11             | 11,713.36             | 87.97            | 94.35         | 78.86                 | 4,559.97                            | 2,731.31     | 3,749.06               | 3,623.48                | 125.59                    | 29.852            |                    |           |
| 17,100.00                         | 12,392.00             | 16,973.07             | 11,710.48             | 89.39            | 95.83         | 78.82                 | 4,659.88                            | 2,730.37     | 3,749.66               | 3,622.06                | 127.60                    | 29.386            |                    |           |
| 17,200.00                         | 12,392.00             | 17,073.03             | 11,707.61             | 90.82            | 97.32         | 78.78                 | 4,759.80                            | 2,729.42     | 3,750.26               | 3,620.64                | 129.62                    | 28.933            |                    |           |
| 17,300.00                         | 12,392.00             | 17,172.99             | 11,704.74             | 92.26            | 98.81         | 78.73                 | 4,859.71                            | 2,728.48     | 3,750.86               | 3,619.22                | 131.65                    | 28.492            |                    |           |
| 17,400.00                         | 12,392.00             | 17,272.94             | 11,701.86             | 93.70            | 100.31        | 78.69                 | 4,959.62                            | 2,727.53     | 3,751.47               | 3,617.78                | 133.68                    | 28.062            |                    |           |
| 17,500.00                         | 12,392.00             | 17,372.90             | 11,698.99             | 95.15            | 101.81        | 78.65                 | 5,059.53                            | 2,726.58     | 3,752.07               | 3,616.35                | 135.73                    | 27.644            |                    |           |
| 17,600.00                         | 12,392.00             | 17,472.86             | 11,696.11             | 96.61            | 103.31        | 78.60                 | 5,159.45                            | 2,725.64     | 3,752.68               | 3,614.90                | 137.78                    | 27.237            |                    |           |
| 17,700.00                         | 12,392.00             | 17,572.82             | 11,693.24             | 98.07            | 104.83        | 78.56                 | 5,259.36                            | 2,724.69     | 3,753.29               | 3,613.46                | 139.83                    | 26.841            |                    |           |
| 17,800.00                         | 12,392.00             | 17,672.78             | 11,690.36             | 99.54            | 106.34        | 78.52                 | 5,359.27                            | 2,723.74     | 3,753.90               | 3,612.01                | 141.90                    | 26.455            |                    |           |
| 17,900.00                         | 12,392.00             | 17,772.74             | 11,687.49             | 101.02           | 107.86        | 78.48                 | 5,459.19                            | 2,722.80     | 3,754.52               | 3,610.55                | 143.97                    | 26.079            |                    |           |
| 18,000.00                         | 12,392.00             | 17,872.70             | 11,684.61             | 102.50           | 109.38        | 78.43                 | 5,559.10                            | 2,721.85     | 3,755.13               | 3,609.09                | 146.04                    | 25.713            |                    |           |
| 18,100.00                         | 12,392.00             | 17,972.65             | 11,681.74             | 103.98           | 110.91        | 78.39                 | 5,659.01                            | 2,720.91     | 3,755.75               | 3,607.63                | 148.12                    | 25.356            |                    |           |
| 18,200.00                         | 12,392.00             | 18,072.61             | 11,678.87             | 105.47           | 112.44        | 78.35                 | 5,758.92                            | 2,719.96     | 3,756.37               | 3,606.17                | 150.21                    | 25.008            |                    |           |
| 18,300.00                         | 12,392.00             | 18,172.57             | 11,675.99             | 106.97           | 113.97        | 78.30                 | 5,858.84                            | 2,719.01     | 3,757.00               | 3,604.70                | 152.30                    | 24.669            |                    |           |
| 18,400.00                         | 12,392.00             | 18,272.53             | 11,673.12             | 108.47           | 115.51        | 78.26                 | 5,958.75                            | 2,718.07     | 3,757.62               | 3,603.23                | 154.39                    | 24.338            |                    |           |
| 18,500.00                         | 12,392.00             | 18,372.49             | 11,670.24             | 109.97           | 117.05        | 78.22                 | 6,058.66                            | 2,717.12     | 3,758.25               | 3,601.76                | 156.49                    | 24.016            |                    |           |
| 18,600.00                         | 12,392.00             | 18,472.45             | 11,667.37             | 111.48           | 118.59        | 78.18                 | 6,158.58                            | 2,716.18     | 3,758.88               | 3,600.28                | 158.60                    | 23.701            |                    |           |
| 18,700.00                         | 12,392.00             | 18,572.41             | 11,664.49             | 112.99           | 120.13        | 78.13                 | 6,258.49                            | 2,715.23     | 3,759.51               | 3,598.80                | 160.70                    | 23.394            |                    |           |
| 18,800.00                         | 12,392.00             | 18,672.36             | 11,661.62             | 114.51           | 121.68        | 78.09                 | 6,358.40                            | 2,714.28     | 3,760.14               | 3,597.33                | 162.82                    | 23.094            |                    |           |
| 18,900.00                         | 12,392.00             | 18,772.32             | 11,658.74             | 116.03           | 123.23        | 78.05                 | 6,458.31                            | 2,713.34     | 3,760.78               | 3,595.84                | 164.93                    | 22.802            |                    |           |
| 19,000.00                         | 12,392.00             | 18,872.28             | 11,655.87             | 117.55           | 124.79        | 78.00                 | 6,558.23                            | 2,712.39     | 3,761.41               | 3,594.36                | 167.05                    | 22.517            |                    |           |
| 19,100.00                         | 12,392.00             | 18,972.24             | 11,653.00             | 119.08           | 126.34        | 77.96                 | 6,658.14                            | 2,711.45     | 3,762.05               | 3,592.88                | 169.17                    | 22.238            |                    |           |
| 19,200.00                         | 12,392.00             | 19,072.20             | 11,650.12             | 120.61           | 127.90        | 77.92                 | 6,758.05                            | 2,710.50     | 3,762.69               | 3,591.40                | 171.30                    | 21.966            |                    |           |
| 19,300.00                         | 12,392.00             | 19,172.16             | 11,647.25             | 122.14           | 129.46        | 77.88                 | 6,857.97                            | 2,709.55     | 3,763.34               | 3,589.91                | 173.42                    | 21.700            |                    |           |
| 19,400.00                         | 12,392.00             | 19,272.12             | 11,644.37             | 123.68           | 131.03        | 77.83                 | 6,957.88                            | 2,708.61     | 3,763.98               | 3,588.43                | 175.56                    | 21.440            |                    |           |
| 19,500.00                         | 12,392.00             | 19,372.08             | 11,641.50             | 125.22           | 132.59        | 77.79                 | 7,057.79                            | 2,707.66     | 3,764.63               | 3,586.94                | 177.69                    | 21.187            |                    |           |
| 19,600.00                         | 12,392.00             | 19,472.03             | 11,638.62             | 126.76           | 134.16        | 77.75                 | 7,157.70                            | 2,706.72     | 3,765.28               | 3,585.46                | 179.83                    | 20.939            |                    |           |
| 19,700.00                         | 12,392.00             | 19,571.99             | 11,635.75             | 128.31           | 135.73        | 77.71                 | 7,257.62                            | 2,705.77     | 3,765.93               | 3,583.97                | 181.96                    | 20.696            |                    |           |
| 19,800.00                         | 12,392.00             | 19,671.95             | 11,632.87             | 129.85           | 137.30        | 77.66                 | 7,357.53                            | 2,704.82     | 3,766.59               | 3,582.48                | 184.10                    | 20.459            |                    |           |
| 19,900.00                         | 12,392.00             | 19,771.91             | 11,630.00             | 131.40           | 138.87        | 77.62                 | 7,457.44                            | 2,703.88     | 3,767.24               | 3,581.00                | 186.25                    | 20.227            |                    |           |
| 20,000.00                         | 12,392.00             | 19,871.87             | 11,627.12             | 132.96           | 140.45        | 77.58                 | 7,557.35                            | 2,702.93     | 3,767.90               | 3,579.51                | 188.39                    | 20.000            |                    |           |
| 20,100.00                         | 12,392.00             | 19,971.83             | 11,624.25             | 134.51           | 142.02        | 77.54                 | 7,657.27                            | 2,701.99     | 3,768.56               | 3,578.02                | 190.54                    | 19.778            |                    |           |
| 20,200.00                         | 12,392.00             | 20,071.79             | 11,621.38             | 136.07           | 143.60        | 77.49                 | 7,757.18                            | 2,701.04     | 3,769.23               | 3,576.54                | 192.69                    | 19.561            |                    |           |
| 20,300.00                         | 12,392.00             | 20,171.74             | 11,618.50             | 137.63           | 145.18        | 77.45                 | 7,857.09                            | 2,700.09     | 3,769.89               | 3,575.05                | 194.84                    | 19.349            |                    |           |
| 20,400.00                         | 12,392.00             | 20,271.70             | 11,615.63             | 139.19           | 146.76        | 77.41                 | 7,957.01                            | 2,699.15     | 3,770.56               | 3,573.57                | 196.99                    | 19.141            |                    |           |
| 20,500.00                         | 12,392.00             | 20,371.66             | 11,612.75             | 140.75           | 148.35        | 77.37                 | 8,056.92                            | 2,698.20     | 3,771.23               | 3,572.08                | 199.15                    | 18.937            |                    |           |
| 20,600.00                         | 12,392.00             | 20,471.62             | 11,609.88             | 142.32           | 149.93        | 77.32                 | 8,156.83                            | 2,697.26     | 3,771.90               | 3,570.59                | 201.30                    | 18.737            |                    |           |
| 20,700.00                         | 12,392.00             | 20,571.58             | 11,607.00             | 143.89           | 151.52        | 77.28                 | 8,256.74                            | 2,696.31     | 3,772.57               | 3,569.11                | 203.46                    | 18.542            |                    |           |
| 20,800.00                         | 12,392.00             | 20,671.54             | 11,604.13             | 145.46           | 153.10        | 77.24                 | 8,356.66                            | 2,695.36     | 3,773.24               | 3,567.62                | 205.62                    | 18.351            |                    |           |
| 20,900.00                         | 12,392.00             | 20,771.50             | 11,601.25             | 147.03           | 154.69        | 77.20                 | 8,456.57                            | 2,694.42     | 3,773.92               | 3,566.14                | 207.78                    | 18.163            |                    |           |
| 21,000.00                         | 12,392.00             | 20,871.45             | 11,598.38             | 148.60           | 156.28        | 77.15                 | 8,556.48                            | 2,693.47     | 3,774.60               | 3,564.66                | 209.94                    | 17.979            |                    |           |
| 21,100.00                         | 12,392.00             | 20,971.41             | 11,595.51             | 150.18           | 157.87        | 77.11                 | 8,656.40                            | 2,692.53     | 3,775.28               | 3,563.17                | 212.11                    | 17.799            |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| <b>Offset Design</b> KC7 Fed Com/El Paso Fed Com - El Paso Fed Com 705H - OH - Plan #3 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <b>Offset Site Error:</b> | 0.00 usft |
|----------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|---------------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD                                                      |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <b>Offset Well Error:</b> | 0.00 usft |
| Reference                                                                              |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                           | Warning   |
| Measured Depth (usft)                                                                  | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor         |           |
| 21,200.00                                                                              | 12,392.00             | 21,071.37             | 11,592.63             | 151.75           | 159.47        | 77.07                 | 8,756.31                            | 2,691.58     | 3,775.96               | 3,561.69                | 214.27                    | 17.622                    |           |
| 21,300.00                                                                              | 12,392.00             | 21,171.33             | 11,589.76             | 153.33           | 161.06        | 77.03                 | 8,856.22                            | 2,690.63     | 3,776.65               | 3,560.21                | 216.44                    | 17.449                    |           |
| 21,400.00                                                                              | 12,392.00             | 21,271.29             | 11,586.88             | 154.91           | 162.66        | 76.98                 | 8,956.13                            | 2,689.69     | 3,777.34               | 3,558.73                | 218.60                    | 17.279                    |           |
| 21,500.00                                                                              | 12,392.00             | 21,371.25             | 11,584.01             | 156.49           | 164.25        | 76.94                 | 9,056.05                            | 2,688.74     | 3,778.03               | 3,557.25                | 220.77                    | 17.113                    |           |
| 21,600.00                                                                              | 12,392.00             | 21,471.21             | 11,581.13             | 158.07           | 165.85        | 76.90                 | 9,155.96                            | 2,687.79     | 3,778.72               | 3,555.78                | 222.94                    | 16.949                    |           |
| 21,700.00                                                                              | 12,392.00             | 21,571.17             | 11,578.26             | 159.66           | 167.45        | 76.86                 | 9,255.87                            | 2,686.85     | 3,779.41               | 3,554.30                | 225.11                    | 16.789                    |           |
| 21,800.00                                                                              | 12,392.00             | 21,671.12             | 11,575.38             | 161.24           | 169.05        | 76.81                 | 9,355.79                            | 2,685.90     | 3,780.11               | 3,552.82                | 227.28                    | 16.632                    |           |
| 21,900.00                                                                              | 12,392.00             | 21,771.08             | 11,572.51             | 162.83           | 170.65        | 76.77                 | 9,455.70                            | 2,684.96     | 3,780.80               | 3,551.35                | 229.46                    | 16.477                    |           |
| 22,000.00                                                                              | 12,392.00             | 21,871.04             | 11,569.63             | 164.42           | 172.25        | 76.73                 | 9,555.61                            | 2,684.01     | 3,781.50               | 3,549.88                | 231.63                    | 16.326                    |           |
| 22,100.00                                                                              | 12,392.00             | 21,971.00             | 11,566.76             | 166.01           | 173.85        | 76.69                 | 9,655.52                            | 2,683.06     | 3,782.21               | 3,548.40                | 233.80                    | 16.177                    |           |
| 22,200.00                                                                              | 12,392.00             | 22,070.96             | 11,563.89             | 167.60           | 175.45        | 76.65                 | 9,755.44                            | 2,682.12     | 3,782.91               | 3,546.93                | 235.98                    | 16.031                    |           |
| 22,300.00                                                                              | 12,392.00             | 22,170.92             | 11,561.01             | 169.19           | 177.06        | 76.60                 | 9,855.35                            | 2,681.17     | 3,783.61               | 3,545.46                | 238.15                    | 15.887                    |           |
| 22,400.00                                                                              | 12,392.00             | 22,270.88             | 11,558.14             | 170.78           | 178.66        | 76.56                 | 9,955.26                            | 2,680.23     | 3,784.32               | 3,544.00                | 240.33                    | 15.747                    |           |
| 22,500.00                                                                              | 12,392.00             | 22,370.83             | 11,555.26             | 172.37           | 180.27        | 76.52                 | 10,055.18                           | 2,679.28     | 3,785.03               | 3,542.53                | 242.50                    | 15.608                    |           |
| 22,595.91                                                                              | 12,392.00             | 22,466.71             | 11,552.51             | 173.90           | 181.81        | 76.48                 | 10,151.00                           | 2,678.37     | 3,785.72               | 3,541.13                | 244.59                    | 15.478 SF                 |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   | Warning            |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 1,843.00                          | 1,843.00              | 1,888.00              | 1,888.00              | 6.37             | 6.53          | 98.45                 | -503.80                             | 3,390.31     | 3,427.54               | 3,418.41                | 9.13                      | 375.479           |                    |           |
| 1,900.00                          | 1,900.00              | 1,945.00              | 1,945.00              | 6.58             | 6.74          | 98.45                 | -503.80                             | 3,390.31     | 3,427.54               | 3,418.12                | 9.42                      | 363.959           |                    |           |
| 2,000.00                          | 2,000.00              | 2,045.00              | 2,045.00              | 6.94             | 7.10          | 98.45                 | -503.80                             | 3,390.31     | 3,427.54               | 3,417.62                | 9.92                      | 345.368           | CC, ES             |           |
| 2,100.00                          | 2,099.99              | 2,144.99              | 2,144.99              | 7.28             | 7.46          | -157.81               | -503.80                             | 3,390.31     | 3,428.75               | 3,418.33                | 10.42                     | 328.949           |                    |           |
| 2,200.00                          | 2,199.91              | 2,244.91              | 2,244.91              | 7.62             | 7.81          | -157.82               | -503.80                             | 3,390.31     | 3,432.39               | 3,421.47                | 10.92                     | 314.448           |                    |           |
| 2,300.00                          | 2,299.69              | 2,344.69              | 2,344.69              | 7.97             | 8.17          | -157.82               | -503.80                             | 3,390.31     | 3,438.45               | 3,427.04                | 11.41                     | 301.387           |                    |           |
| 2,400.00                          | 2,399.27              | 2,444.27              | 2,444.27              | 8.31             | 8.53          | -157.83               | -503.80                             | 3,390.31     | 3,446.93               | 3,435.02                | 11.90                     | 289.596           |                    |           |
| 2,500.00                          | 2,498.57              | 2,543.57              | 2,543.57              | 8.66             | 8.88          | -157.84               | -503.80                             | 3,390.31     | 3,457.82               | 3,445.43                | 12.40                     | 278.929           |                    |           |
| 2,600.00                          | 2,597.54              | 2,642.54              | 2,642.54              | 9.02             | 9.24          | -157.86               | -503.80                             | 3,390.31     | 3,471.13               | 3,458.24                | 12.89                     | 269.260           |                    |           |
| 2,700.00                          | 2,696.09              | 2,741.09              | 2,741.09              | 9.39             | 9.59          | -157.87               | -503.80                             | 3,390.31     | 3,486.85               | 3,473.46                | 13.39                     | 260.479           |                    |           |
| 2,762.60                          | 2,757.54              | 2,802.54              | 2,802.54              | 9.63             | 9.81          | -157.88               | -503.80                             | 3,390.31     | 3,497.91               | 3,484.22                | 13.70                     | 255.386           |                    |           |
| 2,800.00                          | 2,794.20              | 2,839.20              | 2,839.20              | 9.77             | 9.94          | -157.93               | -503.80                             | 3,390.31     | 3,504.81               | 3,490.92                | 13.88                     | 252.473           |                    |           |
| 2,900.00                          | 2,892.21              | 2,937.21              | 2,937.21              | 10.17            | 10.30         | -158.05               | -503.80                             | 3,390.31     | 3,523.24               | 3,508.87                | 14.38                     | 245.049           |                    |           |
| 3,000.00                          | 2,990.23              | 3,035.23              | 3,035.23              | 10.56            | 10.65         | -158.17               | -503.80                             | 3,390.31     | 3,541.70               | 3,526.82                | 14.88                     | 238.085           |                    |           |
| 3,100.00                          | 3,088.24              | 3,133.24              | 3,133.24              | 10.97            | 11.00         | -158.29               | -503.80                             | 3,390.31     | 3,560.16               | 3,544.79                | 15.38                     | 231.543           |                    |           |
| 3,200.00                          | 3,186.26              | 3,231.26              | 3,231.26              | 11.38            | 11.35         | -158.40               | -503.80                             | 3,390.31     | 3,578.65               | 3,562.77                | 15.88                     | 225.389           |                    |           |
| 3,300.00                          | 3,284.27              | 3,329.27              | 3,329.27              | 11.80            | 11.70         | -158.52               | -503.80                             | 3,390.31     | 3,597.14               | 3,580.76                | 16.38                     | 219.592           |                    |           |
| 3,400.00                          | 3,382.28              | 3,427.28              | 3,427.28              | 12.22            | 12.05         | -158.63               | -503.80                             | 3,390.31     | 3,615.65               | 3,598.77                | 16.89                     | 214.123           |                    |           |
| 3,500.00                          | 3,480.30              | 3,525.30              | 3,525.30              | 12.65            | 12.40         | -158.75               | -503.80                             | 3,390.31     | 3,634.18               | 3,616.79                | 17.39                     | 208.956           |                    |           |
| 3,600.00                          | 3,578.31              | 3,623.31              | 3,623.31              | 13.08            | 12.76         | -158.86               | -503.80                             | 3,390.31     | 3,652.72               | 3,634.82                | 17.90                     | 204.069           |                    |           |
| 3,700.00                          | 3,676.32              | 3,721.32              | 3,721.32              | 13.51            | 13.11         | -158.97               | -503.80                             | 3,390.31     | 3,671.27               | 3,652.86                | 18.41                     | 199.441           |                    |           |
| 3,800.00                          | 3,774.34              | 3,819.34              | 3,819.34              | 13.95            | 13.46         | -159.08               | -503.80                             | 3,390.31     | 3,689.83               | 3,670.92                | 18.92                     | 195.052           |                    |           |
| 3,900.00                          | 3,872.35              | 3,917.35              | 3,917.35              | 14.39            | 13.81         | -159.19               | -503.80                             | 3,390.31     | 3,708.41               | 3,688.99                | 19.43                     | 190.886           |                    |           |
| 4,000.00                          | 3,970.37              | 4,015.37              | 4,015.37              | 14.83            | 14.16         | -159.30               | -503.80                             | 3,390.31     | 3,727.00               | 3,707.07                | 19.94                     | 186.926           |                    |           |
| 4,100.00                          | 4,068.38              | 4,113.38              | 4,113.38              | 15.28            | 14.51         | -159.41               | -503.80                             | 3,390.31     | 3,745.61               | 3,725.16                | 20.45                     | 183.158           |                    |           |
| 4,200.00                          | 4,166.39              | 4,211.39              | 4,211.39              | 15.72            | 14.86         | -159.51               | -503.80                             | 3,390.31     | 3,764.23               | 3,743.26                | 20.96                     | 179.569           |                    |           |
| 4,300.00                          | 4,264.41              | 4,309.41              | 4,309.41              | 16.17            | 15.21         | -159.62               | -503.80                             | 3,390.31     | 3,782.85               | 3,761.38                | 21.48                     | 176.147           |                    |           |
| 4,400.00                          | 4,362.42              | 4,407.42              | 4,407.42              | 16.63            | 15.57         | -159.72               | -503.80                             | 3,390.31     | 3,801.50               | 3,779.51                | 21.99                     | 172.881           |                    |           |
| 4,500.00                          | 4,460.43              | 4,505.43              | 4,505.43              | 17.08            | 15.92         | -159.82               | -503.80                             | 3,390.31     | 3,820.15               | 3,797.65                | 22.50                     | 169.760           |                    |           |
| 4,600.00                          | 4,558.45              | 4,603.45              | 4,603.45              | 17.54            | 16.27         | -159.93               | -503.80                             | 3,390.31     | 3,838.81               | 3,815.80                | 23.02                     | 166.777           |                    |           |
| 4,700.00                          | 4,656.46              | 4,701.46              | 4,701.46              | 17.99            | 16.62         | -160.03               | -503.80                             | 3,390.31     | 3,857.49               | 3,833.96                | 23.53                     | 163.921           |                    |           |
| 4,800.00                          | 4,754.47              | 4,799.47              | 4,799.47              | 18.45            | 16.97         | -160.13               | -503.80                             | 3,390.31     | 3,876.18               | 3,852.13                | 24.05                     | 161.185           |                    |           |
| 4,900.00                          | 4,852.49              | 4,897.49              | 4,897.49              | 18.91            | 17.32         | -160.23               | -503.80                             | 3,390.31     | 3,894.88               | 3,870.31                | 24.56                     | 158.563           |                    |           |
| 5,000.00                          | 4,950.50              | 4,995.50              | 4,995.50              | 19.37            | 17.67         | -160.32               | -503.80                             | 3,390.31     | 3,913.59               | 3,888.51                | 25.08                     | 156.046           |                    |           |
| 5,100.00                          | 5,048.52              | 5,093.52              | 5,093.52              | 19.83            | 18.03         | -160.42               | -503.80                             | 3,390.31     | 3,932.31               | 3,906.71                | 25.60                     | 153.630           |                    |           |
| 5,200.00                          | 5,146.53              | 5,191.53              | 5,191.53              | 20.29            | 18.38         | -160.52               | -503.80                             | 3,390.31     | 3,951.04               | 3,924.93                | 26.11                     | 151.308           |                    |           |
| 5,300.00                          | 5,244.54              | 5,289.54              | 5,289.54              | 20.76            | 18.73         | -160.61               | -503.80                             | 3,390.31     | 3,969.79               | 3,943.16                | 26.63                     | 149.075           |                    |           |
| 5,400.00                          | 5,342.56              | 5,387.56              | 5,387.56              | 21.22            | 19.08         | -160.71               | -503.80                             | 3,390.31     | 3,988.54               | 3,961.39                | 27.15                     | 146.926           |                    |           |
| 5,500.00                          | 5,440.57              | 5,485.57              | 5,485.57              | 21.69            | 19.43         | -160.80               | -503.80                             | 3,390.31     | 4,007.30               | 3,979.64                | 27.66                     | 144.857           |                    |           |
| 5,600.00                          | 5,538.58              | 5,543.27              | 5,543.27              | 22.15            | 19.63         | -160.85               | -503.94                             | 3,390.52     | 4,026.50               | 3,998.43                | 28.06                     | 143.488           |                    |           |
| 5,700.00                          | 5,636.60              | 5,600.00              | 5,599.99              | 22.62            | 19.83         | -160.90               | -504.51                             | 3,391.41     | 4,046.84               | 4,018.39                | 28.45                     | 142.231           |                    |           |
| 5,800.00                          | 5,734.61              | 5,644.16              | 5,644.13              | 23.09            | 19.97         | -160.93               | -505.28                             | 3,392.60     | 4,068.31               | 4,039.51                | 28.80                     | 141.259           |                    |           |
| 5,900.00                          | 5,832.62              | 5,700.00              | 5,699.91              | 23.56            | 20.16         | -160.97               | -506.65                             | 3,394.71     | 4,090.94               | 4,061.76                | 29.18                     | 140.206           |                    |           |
| 6,000.00                          | 5,930.64              | 5,744.11              | 5,743.95              | 24.02            | 20.31         | -160.99               | -508.04                             | 3,396.86     | 4,114.67               | 4,085.15                | 29.52                     | 139.392           |                    |           |
| 6,100.00                          | 6,028.65              | 5,800.00              | 5,799.69              | 24.49            | 20.49         | -161.01               | -510.20                             | 3,400.20     | 4,139.54               | 4,109.65                | 29.89                     | 138.487           |                    |           |
| 6,200.00                          | 6,126.67              | 5,852.02              | 5,851.53              | 24.96            | 20.67         | -161.03               | -512.59                             | 3,403.88     | 4,165.47               | 4,135.22                | 30.25                     | 137.705           |                    |           |
| 6,300.00                          | 6,224.68              | 5,948.48              | 5,947.62              | 25.43            | 20.99         | -161.07               | -517.16                             | 3,410.95     | 4,191.78               | 4,161.03                | 30.74                     | 136.340           |                    |           |
| 6,400.00                          | 6,322.69              | 6,044.93              | 6,043.70              | 25.91            | 21.32         | -161.10               | -521.73                             | 3,418.01     | 4,218.08               | 4,186.84                | 31.24                     | 135.015           |                    |           |
| 6,500.00                          | 6,420.71              | 6,141.38              | 6,139.79              | 26.38            | 21.64         | -161.13               | -526.30                             | 3,425.07     | 4,244.39               | 4,212.65                | 31.74                     | 133.727           |                    |           |
| 6,600.00                          | 6,518.72              | 6,237.83              | 6,235.87              | 26.85            | 21.97         | -161.16               | -530.87                             | 3,432.14     | 4,270.70               | 4,238.46                | 32.24                     | 132.475           |                    |           |
| 6,669.11                          | 6,586.46              | 6,304.50              | 6,302.28              | 27.18            | 22.20         | -161.18               | -534.03                             | 3,437.02     | 4,288.88               | 4,256.30                | 32.58                     | 131.630           |                    |           |
| 6,700.00                          | 6,616.76              | 6,334.32              | 6,331.99              | 27.32            | 22.30         | -161.23               | -535.45                             | 3,439.20     | 4,296.89               | 4,264.15                | 32.74                     | 131.255           |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |              |              |              |                 |        |              |                        |              |                |                 |                   |            | Offset Site Error: |  | 0.00 usft |
|-----------------------------------|--------------|--------------|--------------|-----------------|--------|--------------|------------------------|--------------|----------------|-----------------|-------------------|------------|--------------------|--|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |              |              |              |                 |        |              |                        |              |                |                 |                   |            | Offset Well Error: |  | 0.00 usft |
| Reference                         |              | Offset       |              | Semi Major Axis |        |              | Distance               |              |                |                 |                   |            | Warning            |  |           |
| Measured Depth                    | Vertical     | Measured     | Vertical     | Reference       | Offset | Highside     | Offset Wellbore Centre |              | Between        | Between         | Minimum           | Separation |                    |  |           |
| Depth (usft)                      | Depth (usft) | Depth (usft) | Depth (usft) | (usft)          | (usft) | Toolface (°) | +N/-S (usft)           | +E/-W (usft) | Centres (usft) | Ellipses (usft) | Separation (usft) | Factor     |                    |  |           |
| 6,800.00                          | 6,715.17     | 6,431.29     | 6,428.59     | 27.78           | 22.63  | -161.37      | -540.05                | 3,446.30     | 4,321.26       | 4,288.02        | 33.24             | 130.019    |                    |  |           |
| 6,900.00                          | 6,814.01     | 6,528.84     | 6,525.77     | 28.21           | 22.97  | -161.49      | -544.67                | 3,453.45     | 4,343.21       | 4,309.48        | 33.73             | 128.753    |                    |  |           |
| 7,000.00                          | 6,913.21     | 6,626.92     | 6,623.47     | 28.62           | 23.31  | -161.58      | -549.32                | 3,460.63     | 4,362.74       | 4,328.51        | 34.23             | 127.458    |                    |  |           |
| 7,100.00                          | 7,012.71     | 6,725.44     | 6,721.61     | 29.01           | 23.65  | -161.65      | -553.99                | 3,467.84     | 4,379.83       | 4,345.11        | 34.72             | 126.138    |                    |  |           |
| 7,200.00                          | 7,112.43     | 6,824.34     | 6,820.14     | 29.37           | 23.99  | -161.69      | -558.68                | 3,475.08     | 4,394.46       | 4,359.25        | 35.21             | 124.793    |                    |  |           |
| 7,300.00                          | 7,212.32     | 6,923.56     | 6,918.98     | 29.72           | 24.34  | -161.72      | -563.38                | 3,482.35     | 4,406.63       | 4,370.93        | 35.70             | 123.427    |                    |  |           |
| 7,400.00                          | 7,312.29     | 7,023.03     | 7,018.07     | 30.04           | 24.69  | -161.72      | -568.09                | 3,489.63     | 4,416.34       | 4,380.15        | 36.19             | 122.041    |                    |  |           |
| 7,431.71                          | 7,344.00     | 7,054.61     | 7,049.53     | 30.14           | 24.80  | 94.55        | -569.59                | 3,491.95     | 4,418.90       | 4,382.56        | 36.34             | 121.602    |                    |  |           |
| 7,500.00                          | 7,412.29     | 7,122.64     | 7,117.30     | 30.34           | 25.04  | 94.59        | -572.82                | 3,496.93     | 4,424.14       | 4,387.48        | 36.66             | 120.671    |                    |  |           |
| 7,600.00                          | 7,512.29     | 7,222.26     | 7,216.54     | 30.64           | 25.39  | 94.64        | -577.54                | 3,504.22     | 4,431.83       | 4,394.69        | 37.14             | 119.333    |                    |  |           |
| 7,700.00                          | 7,612.29     | 7,321.87     | 7,315.78     | 30.94           | 25.74  | 94.69        | -582.26                | 3,511.52     | 4,439.52       | 4,401.91        | 37.61             | 118.026    |                    |  |           |
| 7,800.00                          | 7,712.29     | 7,421.49     | 7,415.02     | 31.24           | 26.09  | 94.75        | -586.98                | 3,518.81     | 4,447.22       | 4,409.12        | 38.09             | 116.750    |                    |  |           |
| 7,900.00                          | 7,812.29     | 7,521.11     | 7,514.26     | 31.55           | 26.44  | 94.80        | -591.71                | 3,526.11     | 4,454.91       | 4,416.34        | 38.57             | 115.502    |                    |  |           |
| 8,000.00                          | 7,912.29     | 7,620.73     | 7,613.49     | 31.85           | 26.80  | 94.85        | -596.43                | 3,533.40     | 4,462.62       | 4,423.57        | 39.05             | 114.282    |                    |  |           |
| 8,100.00                          | 8,012.29     | 7,720.35     | 7,712.73     | 32.16           | 27.15  | 94.91        | -601.15                | 3,540.70     | 4,470.32       | 4,430.79        | 39.53             | 113.089    |                    |  |           |
| 8,200.00                          | 8,112.29     | 7,819.97     | 7,811.97     | 32.47           | 27.51  | 94.96        | -605.87                | 3,547.99     | 4,478.03       | 4,438.02        | 40.01             | 111.923    |                    |  |           |
| 8,300.00                          | 8,212.29     | 7,919.59     | 7,911.21     | 32.78           | 27.87  | 95.01        | -610.59                | 3,555.29     | 4,485.74       | 4,445.25        | 40.49             | 110.782    |                    |  |           |
| 8,400.00                          | 8,312.29     | 8,019.21     | 8,010.45     | 33.08           | 28.22  | 95.06        | -615.32                | 3,562.58     | 4,493.46       | 4,452.49        | 40.97             | 109.666    |                    |  |           |
| 8,500.00                          | 8,412.29     | 8,118.82     | 8,109.69     | 33.40           | 28.58  | 95.11        | -620.04                | 3,569.87     | 4,501.18       | 4,459.72        | 41.46             | 108.574    |                    |  |           |
| 8,600.00                          | 8,512.29     | 8,218.44     | 8,208.93     | 33.71           | 28.94  | 95.17        | -624.76                | 3,577.17     | 4,508.91       | 4,466.97        | 41.94             | 107.506    |                    |  |           |
| 8,700.00                          | 8,612.29     | 8,318.06     | 8,308.17     | 34.02           | 29.30  | 95.22        | -629.48                | 3,584.46     | 4,516.63       | 4,474.21        | 42.43             | 106.460    |                    |  |           |
| 8,800.00                          | 8,712.29     | 8,417.68     | 8,407.41     | 34.33           | 29.66  | 95.27        | -634.21                | 3,591.76     | 4,524.37       | 4,481.45        | 42.91             | 105.437    |                    |  |           |
| 8,900.00                          | 8,812.29     | 8,517.30     | 8,506.65     | 34.65           | 30.02  | 95.32        | -638.93                | 3,599.05     | 4,532.10       | 4,488.70        | 43.40             | 104.434    |                    |  |           |
| 9,000.00                          | 8,912.29     | 8,616.92     | 8,605.89     | 34.96           | 30.38  | 95.37        | -643.65                | 3,606.35     | 4,539.84       | 4,495.96        | 43.88             | 103.453    |                    |  |           |
| 9,100.00                          | 9,012.29     | 8,716.54     | 8,705.12     | 35.28           | 30.74  | 95.42        | -648.37                | 3,613.64     | 4,547.58       | 4,503.21        | 44.37             | 102.492    |                    |  |           |
| 9,200.00                          | 9,112.29     | 8,816.16     | 8,804.36     | 35.59           | 31.11  | 95.47        | -653.09                | 3,620.94     | 4,555.33       | 4,510.47        | 44.86             | 101.550    |                    |  |           |
| 9,300.00                          | 9,212.29     | 8,915.77     | 8,903.60     | 35.91           | 31.47  | 95.52        | -657.82                | 3,628.23     | 4,563.08       | 4,517.73        | 45.35             | 100.628    |                    |  |           |
| 9,400.00                          | 9,312.29     | 9,015.39     | 9,002.84     | 36.23           | 31.83  | 95.57        | -662.54                | 3,635.53     | 4,570.83       | 4,524.99        | 45.83             | 99.724     |                    |  |           |
| 9,500.00                          | 9,412.29     | 9,115.01     | 9,102.08     | 36.55           | 32.20  | 95.62        | -667.26                | 3,642.82     | 4,578.59       | 4,532.26        | 46.32             | 98.838     |                    |  |           |
| 9,600.00                          | 9,512.29     | 9,214.63     | 9,201.10     | 36.87           | 33.81  | 95.72        | -676.40                | 3,656.94     | 4,579.74       | 4,531.85        | 47.89             | 95.634     |                    |  |           |
| 9,700.00                          | 9,612.29     | 9,314.25     | 9,300.32     | 37.19           | 34.16  | 95.72        | -676.40                | 3,656.94     | 4,579.74       | 4,531.37        | 48.38             | 94.668     |                    |  |           |
| 9,800.00                          | 9,712.29     | 9,413.87     | 9,400.00     | 37.51           | 34.51  | 95.72        | -676.40                | 3,656.94     | 4,579.74       | 4,530.88        | 48.87             | 93.721     |                    |  |           |
| 9,900.00                          | 9,812.29     | 9,513.49     | 9,500.00     | 37.83           | 34.86  | 95.72        | -676.40                | 3,656.94     | 4,579.74       | 4,530.39        | 49.35             | 92.792     |                    |  |           |
| 10,000.00                         | 9,912.29     | 9,613.11     | 9,600.00     | 38.15           | 35.21  | 95.72        | -676.40                | 3,656.94     | 4,579.74       | 4,529.90        | 49.84             | 91.881     |                    |  |           |
| 10,100.00                         | 10,012.29    | 10,070.75    | 10,057.29    | 38.47           | 35.56  | 95.72        | -676.40                | 3,656.94     | 4,579.74       | 4,529.41        | 50.33             | 90.987     |                    |  |           |
| 10,200.00                         | 10,112.29    | 10,170.75    | 10,157.29    | 38.80           | 35.91  | 95.72        | -676.40                | 3,656.94     | 4,579.74       | 4,528.92        | 50.82             | 90.109     |                    |  |           |
| 10,300.00                         | 10,212.29    | 10,270.75    | 10,257.29    | 39.12           | 36.26  | 95.72        | -676.40                | 3,656.94     | 4,579.74       | 4,528.43        | 51.31             | 89.248     |                    |  |           |
| 10,400.00                         | 10,312.29    | 10,370.75    | 10,357.29    | 39.45           | 36.62  | 95.72        | -676.40                | 3,656.94     | 4,579.74       | 4,527.94        | 51.81             | 88.402     |                    |  |           |
| 10,500.00                         | 10,412.29    | 10,470.75    | 10,457.29    | 39.77           | 36.97  | 95.72        | -676.40                | 3,656.94     | 4,579.74       | 4,527.45        | 52.30             | 87.572     |                    |  |           |
| 10,600.00                         | 10,512.29    | 10,570.75    | 10,557.29    | 40.10           | 37.32  | 95.72        | -676.40                | 3,656.94     | 4,579.74       | 4,526.95        | 52.79             | 86.757     |                    |  |           |
| 10,700.00                         | 10,612.29    | 10,670.75    | 10,657.29    | 40.42           | 37.67  | 95.72        | -676.40                | 3,656.94     | 4,579.74       | 4,526.46        | 53.28             | 85.956     |                    |  |           |
| 10,800.00                         | 10,712.29    | 10,770.75    | 10,757.29    | 40.75           | 38.02  | 95.72        | -676.40                | 3,656.94     | 4,579.74       | 4,525.97        | 53.77             | 85.169     |                    |  |           |
| 10,900.00                         | 10,812.29    | 10,870.75    | 10,857.29    | 41.08           | 38.37  | 95.72        | -676.40                | 3,656.94     | 4,579.74       | 4,525.48        | 54.26             | 84.397     |                    |  |           |
| 11,000.00                         | 10,912.29    | 10,970.75    | 10,957.29    | 41.41           | 38.72  | 95.72        | -676.40                | 3,656.94     | 4,579.74       | 4,524.99        | 54.76             | 83.638     |                    |  |           |
| 11,100.00                         | 11,012.29    | 11,070.75    | 11,057.29    | 41.73           | 39.07  | 95.72        | -676.40                | 3,656.94     | 4,579.74       | 4,524.49        | 55.25             | 82.892     |                    |  |           |
| 11,200.00                         | 11,112.29    | 11,146.44    | 11,116.32    | 42.06           | 40.25  | 94.62        | -588.35                | 3,656.11     | 4,578.31       | 4,521.97        | 56.34             | 81.265     |                    |  |           |
| 11,300.00                         | 11,212.29    | 11,758.04    | 11,623.19    | 42.39           | 40.82  | 91.77        | -360.48                | 3,653.95     | 4,570.78       | 4,513.71        | 57.07             | 80.086     |                    |  |           |
| 11,400.00                         | 11,312.29    | 11,858.61    | 11,660.20    | 42.72           | 41.08  | 90.59        | -267.11                | 3,653.06     | 4,563.37       | 4,505.87        | 57.50             | 79.365     |                    |  |           |
| 11,500.00                         | 11,412.29    | 11,904.90    | 11,671.62    | 43.05           | 41.20  | 90.03        | -222.26                | 3,652.64     | 4,557.68       | 4,499.85        | 57.84             | 78.805     |                    |  |           |
| 11,600.00                         | 11,512.29    | 11,931.18    | 11,676.48    | 43.38           | 41.28  | 89.70        | -196.43                | 3,652.39     | 4,554.01       | 4,495.89        | 58.13             | 78.347     |                    |  |           |
| 11,700.00                         | 11,612.29    | 11,948.06    | 11,678.97    | 43.71           | 41.32  | 89.49        | -179.75                | 3,652.23     | 4,552.46       | 4,494.08        | 58.39             | 77.972     |                    |  |           |
| 11,722.06                         | 11,634.35    | 11,950.99    | 11,679.35    | 43.79           | 41.33  | 89.46        | -176.84                | 3,652.21     | 4,552.41       | 4,493.97        | 58.44             | 77.899     |                    |  |           |



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |         |                           | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------|---------------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |         |                           | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         | Warning |                           |                    |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) |         | Minimum Separation (usft) | Separation Factor  |           |
| 11,800.00                         | 11,712.29             | 11,959.79             | 11,680.41             | 44.05            | 41.36         | 89.35                 | -168.11                             | 3,652.12     | 4,553.07               | 4,494.45                | 58.62   | 77.670                    |                    |           |
| 11,906.75                         | 11,819.04             | 11,968.91             | 11,681.37             | 44.40            | 41.38         | 89.23                 | -159.04                             | 3,652.04     | 4,556.11               | 4,497.26                | 58.85   | 77.423                    |                    |           |
| 11,950.00                         | 11,862.25             | 11,973.08             | 11,681.76             | 44.54            | 41.39         | 89.55                 | -154.89                             | 3,652.00     | 4,558.04               | 4,499.11                | 58.93   | 77.343                    |                    |           |
| 12,000.00                         | 11,911.88             | 11,980.08             | 11,682.34             | 44.70            | 41.41         | 89.20                 | -147.91                             | 3,651.93     | 4,560.74               | 4,501.71                | 59.03   | 77.263                    |                    |           |
| 12,050.00                         | 11,960.80             | 11,989.03             | 11,682.97             | 44.85            | 41.44         | 88.77                 | -138.98                             | 3,651.85     | 4,563.90               | 4,504.78                | 59.12   | 77.197                    |                    |           |
| 12,100.00                         | 12,008.65             | 12,000.00             | 11,683.54             | 45.00            | 41.47         | 88.28                 | -128.03                             | 3,651.74     | 4,567.47               | 4,508.27                | 59.21   | 77.144                    |                    |           |
| 12,150.00                         | 12,055.05             | 12,011.53             | 11,683.92             | 45.13            | 41.50         | 87.76                 | -116.50                             | 3,651.64     | 4,571.42               | 4,512.13                | 59.29   | 77.104                    |                    |           |
| 12,200.00                         | 12,099.66             | 12,024.59             | 11,684.07             | 45.25            | 41.54         | 87.18                 | -103.44                             | 3,651.51     | 4,575.68               | 4,516.31                | 59.37   | 77.075                    |                    |           |
| 12,250.00                         | 12,142.12             | 12,039.76             | 11,683.87             | 45.35            | 41.58         | 86.57                 | -88.28                              | 3,651.37     | 4,580.20               | 4,520.76                | 59.44   | 77.054                    |                    |           |
| 12,300.00                         | 12,182.14             | 12,066.52             | 11,683.16             | 45.45            | 41.67         | 85.83                 | -61.53                              | 3,651.11     | 4,584.87               | 4,525.33                | 59.54   | 77.008                    |                    |           |
| 12,350.00                         | 12,219.38             | 12,098.85             | 11,682.30             | 45.53            | 41.77         | 85.05                 | -29.21                              | 3,650.81     | 4,589.57               | 4,529.92                | 59.64   | 76.953                    |                    |           |
| 12,400.00                         | 12,253.58             | 12,134.38             | 11,681.36             | 45.60            | 41.90         | 84.28                 | 6.31                                | 3,650.47     | 4,594.17               | 4,534.41                | 59.76   | 76.874                    |                    |           |
| 12,450.00                         | 12,284.48             | 12,172.84             | 11,680.34             | 45.65            | 42.04         | 83.53                 | 44.75                               | 3,650.11     | 4,598.59               | 4,538.70                | 59.89   | 76.784                    |                    |           |
| 12,500.00                         | 12,311.83             | 12,213.94             | 11,679.25             | 45.70            | 42.20         | 82.83                 | 85.83                               | 3,649.72     | 4,602.71               | 4,542.68                | 60.03   | 76.671                    |                    |           |
| 12,550.00                         | 12,335.43             | 12,257.36             | 11,678.10             | 45.74            | 42.39         | 82.19                 | 129.23                              | 3,649.31     | 4,606.44               | 4,546.24                | 60.19   | 76.526                    |                    |           |
| 12,600.00                         | 12,355.10             | 12,302.77             | 11,676.89             | 45.77            | 42.58         | 81.64                 | 174.63                              | 3,648.87     | 4,609.69               | 4,549.32                | 60.37   | 76.359                    |                    |           |
| 12,650.00                         | 12,370.69             | 12,349.83             | 11,675.64             | 45.81            | 42.81         | 81.18                 | 221.67                              | 3,648.43     | 4,612.38               | 4,551.81                | 60.57   | 76.148                    |                    |           |
| 12,700.00                         | 12,382.08             | 12,398.18             | 11,674.36             | 45.84            | 43.05         | 80.82                 | 270.00                              | 3,647.97     | 4,614.45               | 4,553.66                | 60.79   | 75.914                    |                    |           |
| 12,750.00                         | 12,389.19             | 12,447.45             | 11,673.06             | 45.89            | 43.31         | 80.58                 | 319.25                              | 3,647.50     | 4,615.85               | 4,554.82                | 61.03   | 75.635                    |                    |           |
| 12,800.00                         | 12,391.96             | 12,497.27             | 11,671.73             | 45.94            | 43.58         | 80.46                 | 369.05                              | 3,647.03     | 4,616.55               | 4,555.26                | 61.28   | 75.333                    |                    |           |
| 12,806.75                         | 12,392.00             | 12,504.01             | 11,671.56             | 45.95            | 43.62         | 80.46                 | 375.79                              | 3,646.97     | 4,616.59               | 4,555.27                | 61.32   | 75.289                    |                    |           |
| 12,900.00                         | 12,392.00             | 12,597.23             | 11,669.08             | 46.10            | 44.18         | 80.43                 | 468.97                              | 3,646.08     | 4,617.03               | 4,555.18                | 61.86   | 74.639                    |                    |           |
| 13,000.00                         | 12,392.00             | 12,697.20             | 11,666.43             | 46.33            | 44.82         | 80.39                 | 568.90                              | 3,645.14     | 4,617.51               | 4,555.00                | 62.51   | 73.863                    |                    |           |
| 13,100.00                         | 12,392.00             | 12,797.16             | 11,663.78             | 46.63            | 45.52         | 80.36                 | 668.82                              | 3,644.19     | 4,618.00               | 4,554.75                | 63.25   | 73.013                    |                    |           |
| 13,200.00                         | 12,392.00             | 12,897.13             | 11,661.13             | 47.00            | 46.26         | 80.33                 | 768.75                              | 3,643.24     | 4,618.48               | 4,554.43                | 64.06   | 72.099                    |                    |           |
| 13,300.00                         | 12,392.00             | 12,997.09             | 11,658.48             | 47.44            | 47.05         | 80.30                 | 868.67                              | 3,642.29     | 4,618.97               | 4,554.03                | 64.94   | 71.129                    |                    |           |
| 13,400.00                         | 12,392.00             | 13,097.06             | 11,655.83             | 47.95            | 47.89         | 80.26                 | 968.60                              | 3,641.35     | 4,619.46               | 4,553.57                | 65.89   | 70.112                    |                    |           |
| 13,500.00                         | 12,392.00             | 13,197.02             | 11,653.18             | 48.51            | 48.76         | 80.23                 | 1,068.52                            | 3,640.40     | 4,619.94               | 4,553.04                | 66.90   | 69.055                    |                    |           |
| 13,600.00                         | 12,392.00             | 13,296.99             | 11,650.53             | 49.13            | 49.68         | 80.20                 | 1,168.45                            | 3,639.45     | 4,620.44               | 4,552.45                | 67.98   | 67.966                    |                    |           |
| 13,700.00                         | 12,392.00             | 13,396.95             | 11,647.88             | 49.79            | 50.63         | 80.17                 | 1,268.37                            | 3,638.50     | 4,620.93               | 4,551.81                | 69.12   | 66.855                    |                    |           |
| 13,800.00                         | 12,392.00             | 13,496.92             | 11,645.23             | 50.51            | 51.62         | 80.13                 | 1,368.30                            | 3,637.56     | 4,621.42               | 4,551.11                | 70.31   | 65.726                    |                    |           |
| 13,900.00                         | 12,392.00             | 13,596.88             | 11,642.58             | 51.27            | 52.64         | 80.10                 | 1,468.22                            | 3,636.61     | 4,621.92               | 4,550.35                | 71.56   | 64.586                    |                    |           |
| 14,000.00                         | 12,392.00             | 13,696.84             | 11,639.92             | 52.07            | 53.69         | 80.07                 | 1,568.15                            | 3,635.66     | 4,622.41               | 4,549.55                | 72.86   | 63.440                    |                    |           |
| 14,100.00                         | 12,392.00             | 13,796.81             | 11,637.27             | 52.91            | 54.77         | 80.04                 | 1,668.08                            | 3,634.71     | 4,622.91               | 4,548.70                | 74.21   | 62.294                    |                    |           |
| 14,200.00                         | 12,392.00             | 13,896.77             | 11,634.62             | 53.79            | 55.88         | 80.01                 | 1,768.00                            | 3,633.77     | 4,623.41               | 4,547.80                | 75.61   | 61.151                    |                    |           |
| 14,300.00                         | 12,392.00             | 13,996.74             | 11,631.97             | 54.70            | 57.02         | 79.97                 | 1,867.93                            | 3,632.82     | 4,623.91               | 4,546.86                | 77.05   | 60.015                    |                    |           |
| 14,400.00                         | 12,392.00             | 14,096.70             | 11,629.32             | 55.65            | 58.18         | 79.94                 | 1,967.85                            | 3,631.87     | 4,624.41               | 4,545.89                | 78.53   | 58.891                    |                    |           |
| 14,500.00                         | 12,392.00             | 14,196.67             | 11,626.67             | 56.64            | 59.36         | 79.91                 | 2,067.78                            | 3,630.92     | 4,624.91               | 4,544.87                | 80.04   | 57.780                    |                    |           |
| 14,600.00                         | 12,392.00             | 14,296.63             | 11,624.02             | 57.65            | 60.57         | 79.88                 | 2,167.70                            | 3,629.98     | 4,625.42               | 4,543.82                | 81.60   | 56.685                    |                    |           |
| 14,700.00                         | 12,392.00             | 14,396.60             | 11,621.37             | 58.69            | 61.80         | 79.84                 | 2,267.63                            | 3,629.03     | 4,625.93               | 4,542.74                | 83.19   | 55.609                    |                    |           |
| 14,800.00                         | 12,392.00             | 14,496.56             | 11,618.72             | 59.76            | 63.04         | 79.81                 | 2,367.55                            | 3,628.08     | 4,626.43               | 4,541.63                | 84.81   | 54.552                    |                    |           |
| 14,900.00                         | 12,392.00             | 14,596.53             | 11,616.07             | 60.86            | 64.31         | 79.78                 | 2,467.48                            | 3,627.13     | 4,626.94               | 4,540.48                | 86.46   | 53.515                    |                    |           |
| 15,000.00                         | 12,392.00             | 14,696.49             | 11,613.42             | 61.98            | 65.59         | 79.75                 | 2,567.40                            | 3,626.19     | 4,627.45               | 4,539.31                | 88.14   | 52.501                    |                    |           |
| 15,100.00                         | 12,392.00             | 14,796.46             | 11,610.77             | 63.12            | 66.88         | 79.72                 | 2,667.33                            | 3,625.24     | 4,627.97               | 4,538.12                | 89.85   | 51.509                    |                    |           |
| 15,200.00                         | 12,392.00             | 14,896.42             | 11,608.12             | 64.29            | 68.20         | 79.68                 | 2,767.25                            | 3,624.29     | 4,628.48               | 4,536.90                | 91.58   | 50.539                    |                    |           |
| 15,300.00                         | 12,392.00             | 14,996.39             | 11,605.46             | 65.47            | 69.52         | 79.65                 | 2,867.18                            | 3,623.34     | 4,629.00               | 4,535.66                | 93.34   | 49.593                    |                    |           |
| 15,400.00                         | 12,392.00             | 15,096.35             | 11,602.81             | 66.68            | 70.86         | 79.62                 | 2,967.10                            | 3,622.40     | 4,629.51               | 4,534.39                | 95.12   | 48.670                    |                    |           |
| 15,500.00                         | 12,392.00             | 15,196.32             | 11,600.16             | 67.90            | 72.22         | 79.59                 | 3,067.03                            | 3,621.45     | 4,630.03               | 4,533.11                | 96.92   | 47.771                    |                    |           |
| 15,600.00                         | 12,392.00             | 15,296.28             | 11,597.51             | 69.15            | 73.58         | 79.55                 | 3,166.95                            | 3,620.50     | 4,630.55               | 4,531.81                | 98.74   | 46.894                    |                    |           |
| 15,700.00                         | 12,392.00             | 15,396.25             | 11,594.86             | 70.41            | 74.96         | 79.52                 | 3,266.88                            | 3,619.55     | 4,631.07               | 4,530.49                | 100.59  | 46.041                    |                    |           |
| 15,800.00                         | 12,392.00             | 15,496.21             | 11,592.21             | 71.68            | 76.35         | 79.49                 | 3,366.80                            | 3,618.61     | 4,631.59               | 4,529.15                | 102.45  | 45.210                    |                    |           |
| 15,900.00                         | 12,392.00             | 15,596.18             | 11,589.56             | 72.97            | 77.75         | 79.46                 | 3,466.73                            | 3,617.66     | 4,632.12               | 4,527.80                | 104.32  | 44.402                    |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   | Warning            |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 16,000.00                         | 12,392.00             | 15,696.14             | 11,586.91             | 74.28            | 79.16         | 79.43                 | 3,566.65                            | 3,616.71     | 4,632.64               | 4,526.43                | 106.22                    | 43.616            |                    |           |
| 16,100.00                         | 12,392.00             | 15,796.11             | 11,584.26             | 75.60            | 80.57         | 79.39                 | 3,666.58                            | 3,615.76     | 4,633.17               | 4,525.05                | 108.12                    | 42.851            |                    |           |
| 16,200.00                         | 12,392.00             | 15,896.07             | 11,581.61             | 76.93            | 82.00         | 79.36                 | 3,766.50                            | 3,614.82     | 4,633.70               | 4,523.65                | 110.05                    | 42.107            |                    |           |
| 16,300.00                         | 12,392.00             | 15,996.04             | 11,578.96             | 78.27            | 83.43         | 79.33                 | 3,866.43                            | 3,613.87     | 4,634.23               | 4,522.25                | 111.98                    | 41.383            |                    |           |
| 16,400.00                         | 12,392.00             | 16,096.00             | 11,576.31             | 79.63            | 84.88         | 79.30                 | 3,966.35                            | 3,612.92     | 4,634.76               | 4,520.83                | 113.93                    | 40.680            |                    |           |
| 16,500.00                         | 12,392.00             | 16,195.97             | 11,573.65             | 80.99            | 86.33         | 79.27                 | 4,066.28                            | 3,611.97     | 4,635.29               | 4,519.40                | 115.89                    | 39.996            |                    |           |
| 16,600.00                         | 12,392.00             | 16,295.93             | 11,571.00             | 82.37            | 87.78         | 79.23                 | 4,166.20                            | 3,611.03     | 4,635.83               | 4,517.96                | 117.87                    | 39.331            |                    |           |
| 16,700.00                         | 12,392.00             | 16,395.90             | 11,568.35             | 83.75            | 89.25         | 79.20                 | 4,266.13                            | 3,610.08     | 4,636.36               | 4,516.51                | 119.85                    | 38.684            |                    |           |
| 16,800.00                         | 12,392.00             | 16,495.86             | 11,565.70             | 85.15            | 90.72         | 79.17                 | 4,366.06                            | 3,609.13     | 4,636.90               | 4,515.05                | 121.85                    | 38.055            |                    |           |
| 16,900.00                         | 12,392.00             | 16,595.82             | 11,563.05             | 86.56            | 92.20         | 79.14                 | 4,465.98                            | 3,608.18     | 4,637.44               | 4,513.59                | 123.85                    | 37.443            |                    |           |
| 17,000.00                         | 12,392.00             | 16,695.79             | 11,560.40             | 87.97            | 93.68         | 79.11                 | 4,565.91                            | 3,607.24     | 4,637.98               | 4,512.11                | 125.87                    | 36.848            |                    |           |
| 17,100.00                         | 12,392.00             | 16,795.75             | 11,557.75             | 89.39            | 95.17         | 79.07                 | 4,665.83                            | 3,606.29     | 4,638.52               | 4,510.63                | 127.89                    | 36.270            |                    |           |
| 17,200.00                         | 12,392.00             | 16,895.72             | 11,555.10             | 90.82            | 96.66         | 79.04                 | 4,765.76                            | 3,605.34     | 4,639.06               | 4,509.14                | 129.92                    | 35.706            |                    |           |
| 17,300.00                         | 12,392.00             | 16,995.68             | 11,552.45             | 92.26            | 98.16         | 79.01                 | 4,865.68                            | 3,604.39     | 4,639.61               | 4,507.65                | 131.96                    | 35.158            |                    |           |
| 17,400.00                         | 12,392.00             | 17,095.65             | 11,549.80             | 93.70            | 99.66         | 78.98                 | 4,965.61                            | 3,603.45     | 4,640.15               | 4,506.14                | 134.01                    | 34.625            |                    |           |
| 17,500.00                         | 12,392.00             | 17,195.61             | 11,547.15             | 95.15            | 101.17        | 78.94                 | 5,065.53                            | 3,602.50     | 4,640.70               | 4,504.64                | 136.07                    | 34.106            |                    |           |
| 17,600.00                         | 12,392.00             | 17,295.58             | 11,544.50             | 96.61            | 102.68        | 78.91                 | 5,165.46                            | 3,601.55     | 4,641.25               | 4,503.12                | 138.13                    | 33.601            |                    |           |
| 17,700.00                         | 12,392.00             | 17,395.54             | 11,541.84             | 98.07            | 104.20        | 78.88                 | 5,265.38                            | 3,600.60     | 4,641.80               | 4,501.60                | 140.20                    | 33.109            |                    |           |
| 17,800.00                         | 12,392.00             | 17,495.51             | 11,539.19             | 99.54            | 105.72        | 78.85                 | 5,365.31                            | 3,599.66     | 4,642.35               | 4,500.08                | 142.27                    | 32.630            |                    |           |
| 17,900.00                         | 12,392.00             | 17,595.47             | 11,536.54             | 101.02           | 107.24        | 78.82                 | 5,465.23                            | 3,598.71     | 4,642.91               | 4,498.55                | 144.35                    | 32.163            |                    |           |
| 18,000.00                         | 12,392.00             | 17,695.44             | 11,533.89             | 102.50           | 108.77        | 78.78                 | 5,565.16                            | 3,597.76     | 4,643.46               | 4,497.02                | 146.44                    | 31.709            |                    |           |
| 18,100.00                         | 12,392.00             | 17,795.40             | 11,531.24             | 103.98           | 110.30        | 78.75                 | 5,665.08                            | 3,596.82     | 4,644.02               | 4,495.48                | 148.53                    | 31.266            |                    |           |
| 18,200.00                         | 12,392.00             | 17,895.37             | 11,528.59             | 105.47           | 111.84        | 78.72                 | 5,765.01                            | 3,595.87     | 4,644.57               | 4,493.94                | 150.63                    | 30.834            |                    |           |
| 18,300.00                         | 12,392.00             | 17,995.33             | 11,525.94             | 106.97           | 113.38        | 78.69                 | 5,864.93                            | 3,594.92     | 4,645.13               | 4,492.40                | 152.74                    | 30.413            |                    |           |
| 18,400.00                         | 12,392.00             | 18,095.30             | 11,523.29             | 108.47           | 114.92        | 78.66                 | 5,964.86                            | 3,593.97     | 4,645.69               | 4,490.85                | 154.84                    | 30.002            |                    |           |
| 18,500.00                         | 12,392.00             | 18,195.26             | 11,520.64             | 109.97           | 116.46        | 78.63                 | 6,064.78                            | 3,593.03     | 4,646.26               | 4,489.30                | 156.96                    | 29.602            |                    |           |
| 18,600.00                         | 12,392.00             | 18,295.23             | 11,517.99             | 111.48           | 118.01        | 78.59                 | 6,164.71                            | 3,592.08     | 4,646.82               | 4,487.75                | 159.07                    | 29.212            |                    |           |
| 18,700.00                         | 12,392.00             | 18,395.19             | 11,515.34             | 112.99           | 119.56        | 78.56                 | 6,264.63                            | 3,591.13     | 4,647.38               | 4,486.19                | 161.19                    | 28.831            |                    |           |
| 18,800.00                         | 12,392.00             | 18,495.16             | 11,512.69             | 114.51           | 121.11        | 78.53                 | 6,364.56                            | 3,590.18     | 4,647.95               | 4,484.63                | 163.32                    | 28.459            |                    |           |
| 18,900.00                         | 12,392.00             | 18,595.12             | 11,510.03             | 116.03           | 122.67        | 78.50                 | 6,464.48                            | 3,589.24     | 4,648.52               | 4,483.07                | 165.45                    | 28.096            |                    |           |
| 19,000.00                         | 12,392.00             | 18,695.09             | 11,507.38             | 117.55           | 124.23        | 78.47                 | 6,564.41                            | 3,588.29     | 4,649.09               | 4,481.51                | 167.58                    | 27.742            |                    |           |
| 19,100.00                         | 12,392.00             | 18,795.05             | 11,504.73             | 119.08           | 125.79        | 78.43                 | 6,664.33                            | 3,587.34     | 4,649.66               | 4,479.94                | 169.72                    | 27.397            |                    |           |
| 19,200.00                         | 12,392.00             | 18,895.02             | 11,502.08             | 120.61           | 127.35        | 78.40                 | 6,764.26                            | 3,586.39     | 4,650.23               | 4,478.38                | 171.85                    | 27.059            |                    |           |
| 19,300.00                         | 12,392.00             | 18,994.98             | 11,499.43             | 122.14           | 128.92        | 78.37                 | 6,864.18                            | 3,585.45     | 4,650.80               | 4,476.81                | 173.99                    | 26.730            |                    |           |
| 19,400.00                         | 12,392.00             | 19,094.95             | 11,496.78             | 123.68           | 130.48        | 78.34                 | 6,964.11                            | 3,584.50     | 4,651.38               | 4,475.24                | 176.14                    | 26.407            |                    |           |
| 19,500.00                         | 12,392.00             | 19,194.91             | 11,494.13             | 125.22           | 132.05        | 78.31                 | 7,064.04                            | 3,583.55     | 4,651.95               | 4,473.67                | 178.29                    | 26.093            |                    |           |
| 19,600.00                         | 12,392.00             | 19,294.88             | 11,491.48             | 126.76           | 133.62        | 78.27                 | 7,163.96                            | 3,582.60     | 4,652.53               | 4,472.09                | 180.44                    | 25.785            |                    |           |
| 19,700.00                         | 12,392.00             | 19,394.84             | 11,488.83             | 128.31           | 135.20        | 78.24                 | 7,263.89                            | 3,581.66     | 4,653.11               | 4,470.52                | 182.59                    | 25.484            |                    |           |
| 19,800.00                         | 12,392.00             | 19,494.80             | 11,486.18             | 129.85           | 136.77        | 78.21                 | 7,363.81                            | 3,580.71     | 4,653.69               | 4,468.94                | 184.75                    | 25.190            |                    |           |
| 19,900.00                         | 12,392.00             | 19,594.77             | 11,483.53             | 131.40           | 138.35        | 78.18                 | 7,463.74                            | 3,579.76     | 4,654.27               | 4,467.37                | 186.90                    | 24.902            |                    |           |
| 20,000.00                         | 12,392.00             | 19,694.73             | 11,480.88             | 132.96           | 139.93        | 78.15                 | 7,563.66                            | 3,578.81     | 4,654.86               | 4,465.79                | 189.07                    | 24.620            |                    |           |
| 20,100.00                         | 12,392.00             | 19,794.70             | 11,478.23             | 134.51           | 141.51        | 78.11                 | 7,663.59                            | 3,577.87     | 4,655.44               | 4,464.21                | 191.23                    | 24.345            |                    |           |
| 20,200.00                         | 12,392.00             | 19,894.66             | 11,475.57             | 136.07           | 143.09        | 78.08                 | 7,763.51                            | 3,576.92     | 4,656.03               | 4,462.63                | 193.39                    | 24.075            |                    |           |
| 20,300.00                         | 12,392.00             | 19,994.63             | 11,472.92             | 137.63           | 144.67        | 78.05                 | 7,863.44                            | 3,575.97     | 4,656.61               | 4,461.05                | 195.56                    | 23.811            |                    |           |
| 20,400.00                         | 12,392.00             | 20,094.59             | 11,470.27             | 139.19           | 146.26        | 78.02                 | 7,963.36                            | 3,575.02     | 4,657.20               | 4,459.47                | 197.73                    | 23.553            |                    |           |
| 20,500.00                         | 12,392.00             | 20,194.56             | 11,467.62             | 140.75           | 147.84        | 77.99                 | 8,063.29                            | 3,574.08     | 4,657.79               | 4,457.89                | 199.90                    | 23.300            |                    |           |
| 20,600.00                         | 12,392.00             | 20,294.52             | 11,464.97             | 142.32           | 149.43        | 77.96                 | 8,163.21                            | 3,573.13     | 4,658.39               | 4,456.31                | 202.08                    | 23.053            |                    |           |
| 20,700.00                         | 12,392.00             | 20,394.49             | 11,462.32             | 143.89           | 151.02        | 77.92                 | 8,263.14                            | 3,572.18     | 4,658.98               | 4,454.73                | 204.25                    | 22.810            |                    |           |
| 20,800.00                         | 12,392.00             | 20,494.45             | 11,459.67             | 145.46           | 152.61        | 77.89                 | 8,363.06                            | 3,571.23     | 4,659.58               | 4,453.15                | 206.43                    | 22.572            |                    |           |
| 20,900.00                         | 12,392.00             | 20,594.42             | 11,457.02             | 147.03           | 154.20        | 77.86                 | 8,462.99                            | 3,570.29     | 4,660.17               | 4,451.56                | 208.61                    | 22.339            |                    |           |
| 21,000.00                         | 12,392.00             | 20,694.38             | 11,454.37             | 148.60           | 155.80        | 77.83                 | 8,562.91                            | 3,569.34     | 4,660.77               | 4,449.98                | 210.79                    | 22.111            |                    |           |
| 21,100.00                         | 12,392.00             | 20,794.35             | 11,451.72             | 150.18           | 157.39        | 77.80                 | 8,662.84                            | 3,568.39     | 4,661.37               | 4,448.40                | 212.97                    | 21.888            |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| <b>Offset Design</b> KC7 Fed Com/El Paso Fed Com - El Paso Fed Com 706H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <b>Offset Site Error:</b> | 0.00 usft |
|----------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|---------------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD                                                      |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <b>Offset Well Error:</b> | 0.00 usft |
| Reference                                                                              |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                           | Warning   |
| Measured Depth (usft)                                                                  | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor         |           |
| 21,200.00                                                                              | 12,392.00             | 20,894.31             | 11,449.07             | 151.75           | 158.99        | 77.77                 | 8,762.76                            | 3,567.44     | 4,661.97               | 4,446.82                | 215.15                    | 21.668                    |           |
| 21,300.00                                                                              | 12,392.00             | 20,994.28             | 11,446.42             | 153.33           | 160.58        | 77.73                 | 8,862.69                            | 3,566.50     | 4,662.57               | 4,445.24                | 217.33                    | 21.453                    |           |
| 21,400.00                                                                              | 12,392.00             | 21,094.24             | 11,443.76             | 154.91           | 162.18        | 77.70                 | 8,962.61                            | 3,565.55     | 4,663.18               | 4,443.66                | 219.52                    | 21.243                    |           |
| 21,500.00                                                                              | 12,392.00             | 21,194.21             | 11,441.11             | 156.49           | 163.78        | 77.67                 | 9,062.54                            | 3,564.60     | 4,663.78               | 4,442.08                | 221.70                    | 21.036                    |           |
| 21,600.00                                                                              | 12,392.00             | 21,294.17             | 11,438.46             | 158.07           | 165.38        | 77.64                 | 9,162.46                            | 3,563.65     | 4,664.39               | 4,440.50                | 223.89                    | 20.833                    |           |
| 21,700.00                                                                              | 12,392.00             | 21,394.14             | 11,435.81             | 159.66           | 166.98        | 77.61                 | 9,262.39                            | 3,562.71     | 4,664.99               | 4,438.92                | 226.08                    | 20.634                    |           |
| 21,800.00                                                                              | 12,392.00             | 21,494.10             | 11,433.16             | 161.24           | 168.58        | 77.58                 | 9,362.31                            | 3,561.76     | 4,665.60               | 4,437.34                | 228.27                    | 20.439                    |           |
| 21,900.00                                                                              | 12,392.00             | 21,594.07             | 11,430.51             | 162.83           | 170.18        | 77.54                 | 9,462.24                            | 3,560.81     | 4,666.21               | 4,435.76                | 230.46                    | 20.247                    |           |
| 22,000.00                                                                              | 12,392.00             | 21,694.03             | 11,427.86             | 164.42           | 171.79        | 77.51                 | 9,562.16                            | 3,559.86     | 4,666.83               | 4,434.18                | 232.65                    | 20.059                    |           |
| 22,100.00                                                                              | 12,392.00             | 21,794.00             | 11,425.21             | 166.01           | 173.39        | 77.48                 | 9,662.09                            | 3,558.92     | 4,667.44               | 4,432.60                | 234.84                    | 19.875                    |           |
| 22,200.00                                                                              | 12,392.00             | 21,893.96             | 11,422.56             | 167.60           | 175.00        | 77.45                 | 9,762.02                            | 3,557.97     | 4,668.05               | 4,431.02                | 237.04                    | 19.693                    |           |
| 22,300.00                                                                              | 12,392.00             | 21,993.93             | 11,419.91             | 169.19           | 176.60        | 77.42                 | 9,861.94                            | 3,557.02     | 4,668.67               | 4,429.44                | 239.23                    | 19.515                    |           |
| 22,400.00                                                                              | 12,392.00             | 22,093.89             | 11,417.26             | 170.78           | 178.21        | 77.39                 | 9,961.87                            | 3,556.07     | 4,669.29               | 4,427.86                | 241.43                    | 19.340                    |           |
| 22,500.00                                                                              | 12,392.00             | 22,193.86             | 11,414.61             | 172.37           | 179.82        | 77.35                 | 10,061.79                           | 3,555.13     | 4,669.91               | 4,426.28                | 243.63                    | 19.168                    |           |
| 22,595.91                                                                              | 12,392.00             | 22,289.73             | 11,412.06             | 173.90           | 181.36        | 77.32                 | 10,157.63                           | 3,554.22     | 4,670.50               | 4,424.77                | 245.73                    | 19.007 SF                 |           |

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



## Total Directional Services

## Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   | Warning            |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 1,843.00                          | 1,843.00              | 1,888.30              | 1,888.30              | 6.37             | 6.54          | 98.73                 | -504.69                             | 3,285.33     | 3,323.87               | 3,314.74                | 9.13                      | 364.092           |                    |           |
| 1,900.00                          | 1,900.00              | 1,945.30              | 1,945.30              | 6.58             | 6.74          | 98.73                 | -504.69                             | 3,285.33     | 3,323.87               | 3,314.46                | 9.42                      | 352.922           |                    |           |
| 2,000.00                          | 2,000.00              | 2,045.30              | 2,045.30              | 6.94             | 7.10          | 98.73                 | -504.69                             | 3,285.33     | 3,323.87               | 3,313.95                | 9.93                      | 334.897           |                    |           |
| 2,100.00                          | 2,099.99              | 2,145.29              | 2,145.29              | 7.28             | 7.46          | -157.53               | -504.69                             | 3,285.33     | 3,325.08               | 3,314.66                | 10.42                     | 318.980           |                    |           |
| 2,200.00                          | 2,199.91              | 2,245.21              | 2,245.21              | 7.62             | 7.82          | -157.54               | -504.69                             | 3,285.33     | 3,328.71               | 3,317.79                | 10.92                     | 304.929           |                    |           |
| 2,300.00                          | 2,299.69              | 2,344.99              | 2,344.99              | 7.97             | 8.17          | -157.55               | -504.69                             | 3,285.33     | 3,334.76               | 3,323.35                | 11.41                     | 292.278           |                    |           |
| 2,400.00                          | 2,399.27              | 2,444.57              | 2,444.57              | 8.31             | 8.53          | -157.56               | -504.69                             | 3,285.33     | 3,343.22               | 3,331.32                | 11.90                     | 280.864           |                    |           |
| 2,500.00                          | 2,498.57              | 2,543.87              | 2,543.87              | 8.66             | 8.89          | -157.57               | -504.69                             | 3,285.33     | 3,354.09               | 3,341.70                | 12.40                     | 270.544           |                    |           |
| 2,600.00                          | 2,597.54              | 2,642.84              | 2,642.84              | 9.02             | 9.24          | -157.59               | -504.69                             | 3,285.33     | 3,367.38               | 3,354.49                | 12.89                     | 261.195           |                    |           |
| 2,700.00                          | 2,696.09              | 2,741.39              | 2,741.39              | 9.39             | 9.59          | -157.61               | -504.69                             | 3,285.33     | 3,383.07               | 3,369.68                | 13.39                     | 252.709           |                    |           |
| 2,762.60                          | 2,757.54              | 2,802.84              | 2,802.84              | 9.63             | 9.81          | -157.62               | -504.69                             | 3,285.33     | 3,394.11               | 3,380.41                | 13.70                     | 247.790           |                    |           |
| 2,800.00                          | 2,794.20              | 2,839.50              | 2,839.50              | 9.77             | 9.95          | -157.67               | -504.69                             | 3,285.33     | 3,400.99               | 3,387.11                | 13.88                     | 244.977           |                    |           |
| 2,900.00                          | 2,892.21              | 2,937.51              | 2,937.51              | 10.17            | 10.30         | -157.79               | -504.69                             | 3,285.33     | 3,419.39               | 3,405.02                | 14.38                     | 237.808           |                    |           |
| 3,000.00                          | 2,990.23              | 3,035.53              | 3,035.53              | 10.56            | 10.65         | -157.92               | -504.69                             | 3,285.33     | 3,437.82               | 3,422.94                | 14.88                     | 231.083           |                    |           |
| 3,100.00                          | 3,088.24              | 3,133.54              | 3,133.54              | 10.97            | 11.00         | -158.04               | -504.69                             | 3,285.33     | 3,456.25               | 3,440.87                | 15.38                     | 224.766           |                    |           |
| 3,200.00                          | 3,186.26              | 3,231.56              | 3,231.56              | 11.38            | 11.35         | -158.16               | -504.69                             | 3,285.33     | 3,474.70               | 3,458.82                | 15.88                     | 218.823           |                    |           |
| 3,300.00                          | 3,284.27              | 3,329.57              | 3,329.57              | 11.80            | 11.70         | -158.28               | -504.69                             | 3,285.33     | 3,493.17               | 3,476.79                | 16.38                     | 213.225           |                    |           |
| 3,400.00                          | 3,382.28              | 3,427.58              | 3,427.58              | 12.22            | 12.05         | -158.40               | -504.69                             | 3,285.33     | 3,511.65               | 3,494.76                | 16.89                     | 207.943           |                    |           |
| 3,500.00                          | 3,480.30              | 3,709.98              | 3,709.88              | 12.65            | 13.03         | -158.71               | -505.77                             | 3,279.67     | 3,529.48               | 3,511.63                | 17.85                     | 197.768           |                    |           |
| 3,600.00                          | 3,578.31              | 4,123.25              | 4,120.55              | 13.08            | 14.47         | -158.97               | -514.11                             | 3,235.90     | 3,535.94               | 3,516.90                | 19.04                     | 185.697           |                    |           |
| 3,700.00                          | 3,676.32              | 4,223.11              | 4,219.32              | 13.51            | 14.82         | -159.01               | -516.88                             | 3,221.40     | 3,540.47               | 3,520.92                | 19.55                     | 181.136           |                    |           |
| 3,800.00                          | 3,774.34              | 4,322.98              | 4,318.09              | 13.95            | 15.18         | -159.05               | -519.64                             | 3,206.89     | 3,545.00               | 3,524.94                | 20.05                     | 176.783           |                    |           |
| 3,900.00                          | 3,872.35              | 4,422.84              | 4,416.85              | 14.39            | 15.55         | -159.09               | -522.41                             | 3,192.39     | 3,549.53               | 3,528.97                | 20.56                     | 172.626           |                    |           |
| 4,000.00                          | 3,970.37              | 4,522.71              | 4,515.62              | 14.83            | 15.92         | -159.13               | -525.17                             | 3,177.88     | 3,554.06               | 3,532.99                | 21.07                     | 168.653           |                    |           |
| 4,100.00                          | 4,068.38              | 4,622.57              | 4,614.39              | 15.28            | 16.29         | -159.17               | -527.94                             | 3,163.38     | 3,558.60               | 3,537.01                | 21.59                     | 164.853           |                    |           |
| 4,200.00                          | 4,166.39              | 4,722.44              | 4,713.15              | 15.72            | 16.66         | -159.21               | -530.70                             | 3,148.87     | 3,563.14               | 3,541.04                | 22.10                     | 161.217           |                    |           |
| 4,300.00                          | 4,264.41              | 4,822.30              | 4,811.92              | 16.17            | 17.04         | -159.25               | -533.47                             | 3,134.37     | 3,567.68               | 3,545.06                | 22.62                     | 157.735           |                    |           |
| 4,400.00                          | 4,362.42              | 4,922.17              | 4,910.69              | 16.63            | 17.42         | -159.29               | -536.23                             | 3,119.87     | 3,572.22               | 3,549.08                | 23.14                     | 154.398           |                    |           |
| 4,500.00                          | 4,460.43              | 5,022.03              | 5,009.46              | 17.08            | 17.80         | -159.33               | -539.00                             | 3,105.36     | 3,576.76               | 3,553.11                | 23.66                     | 151.199           |                    |           |
| 4,600.00                          | 4,558.45              | 5,121.90              | 5,108.22              | 17.54            | 18.18         | -159.38               | -541.76                             | 3,090.86     | 3,581.31               | 3,557.13                | 24.18                     | 148.129           |                    |           |
| 4,700.00                          | 4,656.46              | 5,221.76              | 5,206.99              | 17.99            | 18.57         | -159.42               | -544.52                             | 3,076.35     | 3,585.85               | 3,561.15                | 24.70                     | 145.181           |                    |           |
| 4,800.00                          | 4,754.47              | 5,321.63              | 5,305.76              | 18.45            | 18.95         | -159.46               | -547.29                             | 3,061.85     | 3,590.40               | 3,565.18                | 25.22                     | 142.349           |                    |           |
| 4,900.00                          | 4,852.49              | 5,421.49              | 5,404.53              | 18.91            | 19.34         | -159.50               | -550.05                             | 3,047.34     | 3,594.95               | 3,569.21                | 25.75                     | 139.626           |                    |           |
| 5,000.00                          | 4,950.50              | 5,521.36              | 5,503.29              | 19.37            | 19.73         | -159.54               | -552.82                             | 3,032.84     | 3,599.50               | 3,573.23                | 26.27                     | 137.006           |                    |           |
| 5,100.00                          | 5,048.52              | 5,621.22              | 5,602.06              | 19.83            | 20.13         | -159.58               | -555.58                             | 3,018.33     | 3,604.06               | 3,577.26                | 26.80                     | 134.485           |                    |           |
| 5,200.00                          | 5,146.53              | 5,721.09              | 5,700.83              | 20.29            | 20.52         | -159.62               | -558.35                             | 3,003.83     | 3,608.61               | 3,581.29                | 27.33                     | 132.056           |                    |           |
| 5,300.00                          | 5,244.54              | 5,820.95              | 5,799.59              | 20.76            | 20.92         | -159.66               | -561.11                             | 2,989.33     | 3,613.17               | 3,585.32                | 27.85                     | 129.716           |                    |           |
| 5,400.00                          | 5,342.56              | 5,920.82              | 5,898.36              | 21.22            | 21.31         | -159.69               | -563.88                             | 2,974.82     | 3,617.73               | 3,589.35                | 28.38                     | 127.459           |                    |           |
| 5,500.00                          | 5,440.57              | 6,020.68              | 5,997.13              | 21.69            | 21.71         | -159.73               | -566.64                             | 2,960.32     | 3,622.29               | 3,593.38                | 28.91                     | 125.282           |                    |           |
| 5,600.00                          | 5,538.58              | 6,120.55              | 6,095.90              | 22.15            | 22.11         | -159.77               | -569.41                             | 2,945.81     | 3,626.85               | 3,597.41                | 29.44                     | 123.181           |                    |           |
| 5,700.00                          | 5,636.60              | 6,220.41              | 6,194.66              | 22.62            | 22.51         | -159.81               | -572.17                             | 2,931.31     | 3,631.42               | 3,601.44                | 29.97                     | 121.151           |                    |           |
| 5,800.00                          | 5,734.61              | 6,320.28              | 6,293.43              | 23.09            | 22.91         | -159.85               | -574.93                             | 2,916.80     | 3,635.98               | 3,605.48                | 30.51                     | 119.189           |                    |           |
| 5,900.00                          | 5,832.62              | 6,420.14              | 6,392.20              | 23.56            | 23.31         | -159.89               | -577.70                             | 2,902.30     | 3,640.55               | 3,609.51                | 31.04                     | 117.293           |                    |           |
| 6,000.00                          | 5,930.64              | 6,520.01              | 6,490.96              | 24.02            | 23.72         | -159.93               | -580.46                             | 2,887.79     | 3,645.12               | 3,613.55                | 31.57                     | 115.459           |                    |           |
| 6,100.00                          | 6,028.65              | 6,619.87              | 6,589.73              | 24.49            | 24.12         | -159.97               | -583.23                             | 2,873.29     | 3,649.69               | 3,617.59                | 32.10                     | 113.683           |                    |           |
| 6,200.00                          | 6,126.67              | 6,719.74              | 6,688.50              | 24.96            | 24.53         | -160.01               | -585.99                             | 2,858.79     | 3,654.26               | 3,621.63                | 32.64                     | 111.965           |                    |           |
| 6,300.00                          | 6,224.68              | 6,819.60              | 6,787.27              | 25.43            | 24.93         | -160.05               | -588.76                             | 2,844.28     | 3,658.84               | 3,625.67                | 33.17                     | 110.300           |                    |           |
| 6,400.00                          | 6,322.69              | 6,919.47              | 6,886.03              | 25.91            | 25.34         | -160.09               | -591.52                             | 2,829.78     | 3,663.42               | 3,629.71                | 33.71                     | 108.686           |                    |           |
| 6,500.00                          | 6,420.71              | 7,019.33              | 6,984.80              | 26.38            | 25.75         | -160.12               | -594.29                             | 2,815.27     | 3,667.99               | 3,633.75                | 34.24                     | 107.122           |                    |           |
| 6,600.00                          | 6,518.72              | 7,119.19              | 7,083.57              | 26.85            | 26.16         | -160.16               | -597.05                             | 2,800.77     | 3,672.57               | 3,637.80                | 34.78                     | 105.605           |                    |           |
| 6,669.11                          | 6,586.46              | 7,188.21              | 7,151.83              | 27.18            | 26.44         | -160.19               | -598.96                             | 2,790.74     | 3,675.74               | 3,640.59                | 35.15                     | 104.583           |                    |           |
| 6,700.00                          | 6,616.76              | 7,219.07              | 7,182.34              | 27.32            | 26.57         | -160.21               | -599.82                             | 2,786.26     | 3,677.04               | 3,641.72                | 35.31                     | 104.130           |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning            |           |
| 6,800.00                          | 6,715.17              | 7,319.01              | 7,281.19              | 27.78            | 26.98         | -160.25               | -602.58                             | 2,771.75     | 3,679.63               | 3,643.78                | 35.85                     | 102.654           |                    |           |
| 6,900.00                          | 6,814.01              | 7,419.01              | 7,380.09              | 28.21            | 27.39         | -160.26               | -605.35                             | 2,757.22     | 3,679.75               | 3,643.38                | 36.37                     | 101.163           |                    |           |
| 7,000.00                          | 6,913.21              | 7,518.98              | 7,478.96              | 28.62            | 27.80         | -160.25               | -608.12                             | 2,742.70     | 3,677.42               | 3,640.52                | 36.90                     | 99.660            |                    |           |
| 7,100.00                          | 7,012.71              | 7,618.86              | 7,577.74              | 29.01            | 28.21         | -160.21               | -610.88                             | 2,728.20     | 3,672.62               | 3,635.20                | 37.42                     | 98.145            |                    |           |
| 7,200.00                          | 7,112.43              | 7,718.57              | 7,676.36              | 29.37            | 28.62         | -160.14               | -613.64                             | 2,713.71     | 3,665.36               | 3,627.43                | 37.94                     | 96.620            |                    |           |
| 7,300.00                          | 7,212.32              | 7,818.06              | 7,774.75              | 29.72            | 29.04         | -160.05               | -616.40                             | 2,699.26     | 3,655.66               | 3,617.21                | 38.45                     | 95.086            |                    |           |
| 7,400.00                          | 7,312.29              | 7,917.25              | 7,872.85              | 30.04            | 29.45         | -159.93               | -619.14                             | 2,684.86     | 3,643.50               | 3,604.55                | 38.95                     | 93.542            |                    |           |
| 7,431.71                          | 7,344.00              | 7,948.63              | 7,903.89              | 30.14            | 29.58         | 96.38                 | -620.01                             | 2,680.30     | 3,639.14               | 3,600.03                | 39.11                     | 93.053            |                    |           |
| 7,500.00                          | 7,412.29              | 8,016.17              | 7,970.69              | 30.34            | 29.86         | 96.42                 | -621.88                             | 2,670.49     | 3,629.49               | 3,590.04                | 39.44                     | 92.017            |                    |           |
| 7,600.00                          | 7,512.29              | 8,115.07              | 8,068.50              | 30.64            | 30.27         | 96.49                 | -624.62                             | 2,656.13     | 3,615.35               | 3,575.42                | 39.94                     | 90.529            |                    |           |
| 7,700.00                          | 7,612.29              | 8,213.97              | 8,166.31              | 30.94            | 30.68         | 96.56                 | -627.36                             | 2,641.76     | 3,601.22               | 3,560.79                | 40.43                     | 89.075            |                    |           |
| 7,800.00                          | 7,712.29              | 8,312.87              | 8,264.13              | 31.24            | 31.09         | 96.63                 | -630.10                             | 2,627.40     | 3,587.10               | 3,546.18                | 40.92                     | 87.656            |                    |           |
| 7,900.00                          | 7,812.29              | 8,411.78              | 8,361.94              | 31.55            | 31.50         | 96.70                 | -632.83                             | 2,613.03     | 3,572.98               | 3,531.56                | 41.42                     | 86.268            |                    |           |
| 8,000.00                          | 7,912.29              | 8,510.68              | 8,459.76              | 31.85            | 31.91         | 96.77                 | -635.57                             | 2,598.67     | 3,558.87               | 3,516.96                | 41.91                     | 84.912            |                    |           |
| 8,100.00                          | 8,012.29              | 8,609.58              | 8,557.57              | 32.16            | 32.33         | 96.85                 | -638.31                             | 2,584.30     | 3,544.76               | 3,502.35                | 42.41                     | 83.587            |                    |           |
| 8,200.00                          | 8,112.29              | 8,708.48              | 8,655.38              | 32.47            | 32.74         | 96.92                 | -641.05                             | 2,569.94     | 3,530.66               | 3,487.75                | 42.90                     | 82.291            |                    |           |
| 8,300.00                          | 8,212.29              | 8,807.38              | 8,753.20              | 32.78            | 33.15         | 96.99                 | -643.79                             | 2,555.57     | 3,516.56               | 3,473.16                | 43.40                     | 81.024            |                    |           |
| 8,400.00                          | 8,312.29              | 8,906.28              | 8,851.01              | 33.08            | 33.56         | 97.07                 | -646.52                             | 2,541.21     | 3,502.47               | 3,458.57                | 43.90                     | 79.784            |                    |           |
| 8,500.00                          | 8,412.29              | 9,005.18              | 8,948.83              | 33.40            | 33.98         | 97.14                 | -649.26                             | 2,526.85     | 3,488.39               | 3,443.99                | 44.40                     | 78.571            |                    |           |
| 8,600.00                          | 8,512.29              | 9,104.08              | 9,046.64              | 33.71            | 34.39         | 97.21                 | -652.00                             | 2,512.48     | 3,474.31               | 3,429.41                | 44.90                     | 77.385            |                    |           |
| 8,700.00                          | 8,612.29              | 9,202.98              | 9,144.45              | 34.02            | 34.81         | 97.29                 | -654.74                             | 2,498.12     | 3,460.24               | 3,414.84                | 45.40                     | 76.223            |                    |           |
| 8,800.00                          | 8,712.29              | 9,301.88              | 9,242.27              | 34.33            | 35.22         | 97.37                 | -657.48                             | 2,483.75     | 3,446.17               | 3,400.27                | 45.90                     | 75.086            |                    |           |
| 8,900.00                          | 8,812.29              | 9,400.78              | 9,340.08              | 34.65            | 35.64         | 97.44                 | -660.21                             | 2,469.39     | 3,432.11               | 3,385.71                | 46.40                     | 73.973            |                    |           |
| 9,000.00                          | 8,912.29              | 9,499.69              | 9,437.89              | 34.96            | 36.05         | 97.52                 | -662.95                             | 2,455.02     | 3,418.05               | 3,371.15                | 46.90                     | 72.882            |                    |           |
| 9,100.00                          | 9,012.29              | 9,598.59              | 9,535.71              | 35.28            | 36.47         | 97.60                 | -665.69                             | 2,440.66     | 3,404.00               | 3,356.60                | 47.40                     | 71.815            |                    |           |
| 9,200.00                          | 9,112.29              | 9,697.49              | 9,633.52              | 35.59            | 36.88         | 97.68                 | -668.43                             | 2,426.29     | 3,389.96               | 3,342.06                | 47.90                     | 70.768            |                    |           |
| 9,300.00                          | 9,212.29              | 9,796.39              | 9,731.34              | 35.91            | 37.30         | 97.76                 | -671.17                             | 2,411.93     | 3,375.92               | 3,327.52                | 48.41                     | 69.743            |                    |           |
| 9,400.00                          | 9,312.29              | 9,895.29              | 9,829.15              | 36.23            | 37.72         | 97.84                 | -673.90                             | 2,397.57     | 3,361.89               | 3,312.99                | 48.91                     | 68.739            |                    |           |
| 9,500.00                          | 9,412.29              | 9,994.19              | 9,926.96              | 36.55            | 38.13         | 97.92                 | -676.64                             | 2,383.20     | 3,347.87               | 3,298.46                | 49.41                     | 67.754            |                    |           |
| 9,600.00                          | 9,512.29              | 10,093.09             | 10,024.78             | 36.87            | 38.55         | 98.00                 | -679.38                             | 2,368.84     | 3,333.85               | 3,283.94                | 49.92                     | 66.789            |                    |           |
| 9,700.00                          | 9,612.29              | 10,177.22             | 10,107.99             | 37.19            | 38.90         | 98.07                 | -681.70                             | 2,356.66     | 3,319.92               | 3,269.53                | 50.39                     | 65.887            |                    |           |
| 9,800.00                          | 9,712.29              | 10,231.60             | 10,161.87             | 37.51            | 39.13         | 98.11                 | -683.09                             | 2,349.38     | 3,307.02               | 3,256.23                | 50.79                     | 65.112            |                    |           |
| 9,900.00                          | 9,812.29              | 10,300.00             | 10,229.76             | 37.83            | 39.40         | 98.16                 | -684.63                             | 2,341.31     | 3,295.52               | 3,244.30                | 51.22                     | 64.341            |                    |           |
| 10,000.00                         | 9,912.29              | 10,340.96             | 10,270.50             | 38.15            | 39.56         | 98.18                 | -685.44                             | 2,337.04     | 3,285.27               | 3,233.69                | 51.57                     | 63.700            |                    |           |
| 10,100.00                         | 10,012.29             | 10,400.00             | 10,329.28             | 38.47            | 39.79         | 98.21                 | -686.47                             | 2,331.65     | 3,276.43               | 3,224.46                | 51.97                     | 63.047            |                    |           |
| 10,200.00                         | 10,112.29             | 10,450.96             | 10,380.08             | 38.80            | 39.98         | 98.24                 | -687.22                             | 2,327.72     | 3,268.94               | 3,216.60                | 52.33                     | 62.466            |                    |           |
| 10,300.00                         | 10,212.29             | 10,500.00             | 10,429.01             | 39.12            | 40.17         | 98.25                 | -687.82                             | 2,324.56     | 3,262.82               | 3,210.14                | 52.68                     | 61.935            |                    |           |
| 10,400.00                         | 10,312.29             | 10,561.41             | 10,490.35             | 39.45            | 40.38         | 98.27                 | -688.41                             | 2,321.47     | 3,258.05               | 3,204.99                | 53.06                     | 61.405            |                    |           |
| 10,500.00                         | 10,412.29             | 10,600.00             | 10,528.90             | 39.77            | 40.52         | 98.28                 | -688.68                             | 2,320.03     | 3,254.74               | 3,201.38                | 53.36                     | 60.998            |                    |           |
| 10,600.00                         | 10,512.29             | 10,672.14             | 10,601.03             | 40.10            | 40.77         | 98.29                 | -689.00                             | 2,318.36     | 3,252.64               | 3,198.89                | 53.76                     | 60.507            |                    |           |
| 10,700.00                         | 10,612.29             | 10,728.71             | 10,657.59             | 40.42            | 40.95         | 98.29                 | -689.07                             | 2,317.98     | 3,251.99               | 3,197.90                | 54.10                     | 60.115            |                    |           |
| 10,800.00                         | 10,712.29             | 10,828.71             | 10,757.59             | 40.75            | 41.28         | 98.29                 | -689.07                             | 2,317.98     | 3,251.99               | 3,197.41                | 54.58                     | 59.585            |                    |           |
| 10,900.00                         | 10,812.29             | 10,928.71             | 10,857.59             | 41.08            | 41.60         | 98.29                 | -689.07                             | 2,317.98     | 3,251.99               | 3,196.93                | 55.06                     | 59.065            |                    |           |
| 11,000.00                         | 10,912.29             | 11,028.71             | 10,957.59             | 41.41            | 41.92         | 98.29                 | -689.07                             | 2,317.98     | 3,251.99               | 3,196.45                | 55.54                     | 58.552            |                    |           |
| 11,100.00                         | 11,012.29             | 11,146.32             | 11,075.20             | 41.73            | 42.30         | 98.29                 | -688.72                             | 2,317.98     | 3,251.98               | 3,195.90                | 56.08                     | 57.988            |                    |           |
| 11,200.00                         | 11,112.29             | 11,634.92             | 11,499.16             | 42.06            | 43.43         | 94.57                 | -477.33                             | 2,315.98     | 3,244.29               | 3,187.08                | 57.21                     | 56.710            |                    |           |
| 11,300.00                         | 11,212.29             | 11,826.81             | 11,593.64             | 42.39            | 43.62         | 91.63                 | -311.44                             | 2,314.41     | 3,233.22               | 3,175.52                | 57.70                     | 56.034            |                    |           |
| 11,400.00                         | 11,312.29             | 11,889.66             | 11,611.79             | 42.72            | 43.68         | 90.56                 | -251.30                             | 2,313.84     | 3,224.03               | 3,165.99                | 58.04                     | 55.550            |                    |           |
| 11,500.00                         | 11,412.29             | 11,922.71             | 11,618.65             | 43.05            | 43.71         | 89.98                 | -218.98                             | 2,313.54     | 3,217.57               | 3,159.27                | 58.30                     | 55.187            |                    |           |
| 11,600.00                         | 11,512.29             | 11,942.96             | 11,621.93             | 43.38            | 43.73         | 89.63                 | -199.00                             | 2,313.35     | 3,214.06               | 3,155.55                | 58.51                     | 54.930            |                    |           |
| 11,665.64                         | 11,577.93             | 11,952.46             | 11,623.23             | 43.60            | 43.75         | 89.46                 | -189.59                             | 2,313.26     | 3,213.40               | 3,154.78                | 58.62                     | 54.814 CC, ES     |                    |           |
| 11,700.00                         | 11,612.29             | 11,956.62             | 11,623.75             | 43.71            | 43.75         | 89.38                 | -185.47                             | 2,313.22     | 3,213.58               | 3,154.91                | 58.67                     | 54.770            |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   | Warning            |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 11,800.00                         | 11,712.29             | 11,966.43             | 11,624.85             | 44.05            | 43.76         | 89.21                 | -175.72                             | 2,313.13     | 3,216.17               | 3,157.38                | 58.79                     | 54.702            |                    |           |
| 11,906.75                         | 11,819.04             | 11,974.26             | 11,625.61             | 44.40            | 43.77         | 89.07                 | -167.93                             | 2,313.05     | 3,222.33               | 3,163.45                | 58.88                     | 54.727            |                    |           |
| 11,950.00                         | 11,862.25             | 11,977.96             | 11,625.94             | 44.54            | 43.78         | 89.22                 | -164.24                             | 2,313.02     | 3,225.81               | 3,166.90                | 58.90                     | 54.765            |                    |           |
| 12,000.00                         | 11,911.88             | 11,984.35             | 11,626.44             | 44.70            | 43.79         | 88.64                 | -157.87                             | 2,312.96     | 3,230.47               | 3,171.55                | 58.92                     | 54.828            |                    |           |
| 12,050.00                         | 11,960.80             | 12,000.00             | 11,627.36             | 44.85            | 43.81         | 87.84                 | -142.25                             | 2,312.81     | 3,235.79               | 3,176.84                | 58.94                     | 54.897            |                    |           |
| 12,100.00                         | 12,008.65             | 12,000.00             | 11,627.36             | 45.00            | 43.81         | 87.25                 | -142.25                             | 2,312.81     | 3,241.64               | 3,182.72                | 58.93                     | 55.012            |                    |           |
| 12,150.00                         | 12,055.05             | 12,013.74             | 11,627.82             | 45.13            | 43.83         | 86.39                 | -128.52                             | 2,312.68     | 3,248.00               | 3,189.07                | 58.93                     | 55.120            |                    |           |
| 12,200.00                         | 12,099.66             | 12,026.10             | 11,627.96             | 45.25            | 43.85         | 85.52                 | -116.16                             | 2,312.56     | 3,254.76               | 3,195.84                | 58.91                     | 55.245            |                    |           |
| 12,250.00                         | 12,142.12             | 12,043.29             | 11,627.70             | 45.35            | 43.88         | 84.54                 | -98.97                              | 2,312.40     | 3,261.84               | 3,202.93                | 58.90                     | 55.375            |                    |           |
| 12,300.00                         | 12,182.14             | 12,064.41             | 11,627.07             | 45.45            | 43.92         | 83.51                 | -77.86                              | 2,312.20     | 3,269.11               | 3,210.21                | 58.90                     | 55.502            |                    |           |
| 12,350.00                         | 12,219.38             | 12,096.61             | 11,626.10             | 45.53            | 43.99         | 82.35                 | -45.67                              | 2,311.90     | 3,276.36               | 3,217.44                | 58.92                     | 55.610            |                    |           |
| 12,400.00                         | 12,253.58             | 12,132.03             | 11,625.04             | 45.60            | 44.07         | 81.21                 | -10.28                              | 2,311.56     | 3,283.44               | 3,224.49                | 58.95                     | 55.698            |                    |           |
| 12,450.00                         | 12,284.48             | 12,170.38             | 11,623.89             | 45.65            | 44.17         | 80.11                 | 28.05                               | 2,311.20     | 3,290.18               | 3,231.19                | 59.00                     | 55.769            |                    |           |
| 12,500.00                         | 12,311.83             | 12,211.37             | 11,622.66             | 45.70            | 44.29         | 79.08                 | 69.03                               | 2,310.81     | 3,296.46               | 3,237.40                | 59.06                     | 55.816            |                    |           |
| 12,550.00                         | 12,335.43             | 12,254.71             | 11,621.37             | 45.74            | 44.43         | 78.16                 | 112.34                              | 2,310.40     | 3,302.12               | 3,242.97                | 59.15                     | 55.827            |                    |           |
| 12,600.00                         | 12,355.10             | 12,300.05             | 11,620.01             | 45.77            | 44.60         | 77.35                 | 157.66                              | 2,309.97     | 3,307.04               | 3,247.78                | 59.26                     | 55.809            |                    |           |
| 12,650.00                         | 12,370.69             | 12,347.05             | 11,618.60             | 45.81            | 44.79         | 76.68                 | 204.64                              | 2,309.53     | 3,311.12               | 3,251.72                | 59.40                     | 55.743            |                    |           |
| 12,700.00                         | 12,382.08             | 12,395.36             | 11,617.15             | 45.84            | 44.99         | 76.16                 | 252.92                              | 2,309.07     | 3,314.25               | 3,254.69                | 59.56                     | 55.643            |                    |           |
| 12,750.00                         | 12,389.19             | 12,444.60             | 11,616.68             | 45.89            | 45.22         | 75.82                 | 302.14                              | 2,308.60     | 3,316.38               | 3,256.62                | 59.76                     | 55.492            |                    |           |
| 12,800.00                         | 12,391.96             | 12,494.40             | 11,614.18             | 45.94            | 45.47         | 75.64                 | 351.92                              | 2,308.13     | 3,317.46               | 3,257.47                | 59.99                     | 55.304            |                    |           |
| 12,806.75                         | 12,392.00             | 12,501.14             | 11,613.98             | 45.95            | 45.51         | 75.63                 | 358.66                              | 2,308.07     | 3,317.52               | 3,257.51                | 60.02                     | 55.276            |                    |           |
| 12,900.00                         | 12,392.00             | 12,594.35             | 11,611.19             | 46.10            | 46.02         | 75.58                 | 451.82                              | 2,307.19     | 3,318.26               | 3,257.75                | 60.51                     | 54.838            |                    |           |
| 13,000.00                         | 12,392.00             | 12,694.31             | 11,608.19             | 46.33            | 46.62         | 75.53                 | 551.73                              | 2,306.24     | 3,319.04               | 3,257.93                | 61.12                     | 54.308            |                    |           |
| 13,100.00                         | 12,392.00             | 12,794.26             | 11,605.20             | 46.63            | 47.28         | 75.48                 | 651.63                              | 2,305.30     | 3,319.84               | 3,258.04                | 61.80                     | 53.721            |                    |           |
| 13,200.00                         | 12,392.00             | 12,894.22             | 11,602.20             | 47.00            | 48.00         | 75.43                 | 751.54                              | 2,304.35     | 3,320.63               | 3,258.07                | 62.55                     | 53.083            |                    |           |
| 13,300.00                         | 12,392.00             | 12,994.17             | 11,599.21             | 47.44            | 48.76         | 75.38                 | 851.44                              | 2,303.41     | 3,321.42               | 3,258.04                | 63.38                     | 52.402            |                    |           |
| 13,400.00                         | 12,392.00             | 13,094.13             | 11,596.21             | 47.95            | 49.56         | 75.33                 | 951.35                              | 2,302.46     | 3,322.22               | 3,257.94                | 64.28                     | 51.682            |                    |           |
| 13,500.00                         | 12,392.00             | 13,194.08             | 11,593.22             | 48.51            | 50.41         | 75.28                 | 1,051.25                            | 2,301.52     | 3,323.02               | 3,257.78                | 65.25                     | 50.931            |                    |           |
| 13,600.00                         | 12,392.00             | 13,294.04             | 11,590.22             | 49.13            | 51.29         | 75.23                 | 1,151.16                            | 2,300.57     | 3,323.83               | 3,257.56                | 66.27                     | 50.155            |                    |           |
| 13,700.00                         | 12,392.00             | 13,393.99             | 11,587.23             | 49.79            | 52.22         | 75.19                 | 1,251.07                            | 2,299.63     | 3,324.63               | 3,257.28                | 67.36                     | 49.358            |                    |           |
| 13,800.00                         | 12,392.00             | 13,493.95             | 11,584.23             | 50.51            | 53.18         | 75.14                 | 1,350.97                            | 2,298.68     | 3,325.44               | 3,256.94                | 68.50                     | 48.545            |                    |           |
| 13,900.00                         | 12,392.00             | 13,593.91             | 11,581.24             | 51.27            | 54.17         | 75.09                 | 1,450.88                            | 2,297.74     | 3,326.25               | 3,256.55                | 69.70                     | 47.723            |                    |           |
| 14,000.00                         | 12,392.00             | 13,693.86             | 11,578.24             | 52.07            | 55.19         | 75.04                 | 1,550.78                            | 2,296.79     | 3,327.07               | 3,256.12                | 70.95                     | 46.895            |                    |           |
| 14,100.00                         | 12,392.00             | 13,793.82             | 11,575.25             | 52.91            | 56.25         | 74.99                 | 1,650.69                            | 2,295.84     | 3,327.88               | 3,255.64                | 72.24                     | 46.064            |                    |           |
| 14,200.00                         | 12,392.00             | 13,893.77             | 11,572.25             | 53.79            | 57.33         | 74.94                 | 1,750.59                            | 2,294.90     | 3,328.70               | 3,255.11                | 73.59                     | 45.235            |                    |           |
| 14,300.00                         | 12,392.00             | 13,993.73             | 11,569.26             | 54.70            | 58.44         | 74.89                 | 1,850.50                            | 2,293.95     | 3,329.52               | 3,254.55                | 74.97                     | 44.409            |                    |           |
| 14,400.00                         | 12,392.00             | 14,093.68             | 11,566.26             | 55.65            | 59.57         | 74.84                 | 1,950.41                            | 2,293.01     | 3,330.35               | 3,253.94                | 76.40                     | 43.590            |                    |           |
| 14,500.00                         | 12,392.00             | 14,193.64             | 11,563.27             | 56.64            | 60.73         | 74.79                 | 2,050.31                            | 2,292.06     | 3,331.17               | 3,253.30                | 77.87                     | 42.779            |                    |           |
| 14,600.00                         | 12,392.00             | 14,293.59             | 11,560.27             | 57.65            | 61.91         | 74.74                 | 2,150.22                            | 2,291.12     | 3,332.00               | 3,252.63                | 79.37                     | 41.979            |                    |           |
| 14,700.00                         | 12,392.00             | 14,393.55             | 11,557.28             | 58.69            | 63.11         | 74.69                 | 2,250.12                            | 2,290.17     | 3,332.83               | 3,251.92                | 80.91                     | 41.192            |                    |           |
| 14,800.00                         | 12,392.00             | 14,493.50             | 11,554.28             | 59.76            | 64.33         | 74.64                 | 2,350.03                            | 2,289.23     | 3,333.66               | 3,251.18                | 82.48                     | 40.418            |                    |           |
| 14,900.00                         | 12,392.00             | 14,593.46             | 11,551.29             | 60.86            | 65.57         | 74.59                 | 2,449.93                            | 2,288.28     | 3,334.50               | 3,250.42                | 84.08                     | 39.658            |                    |           |
| 15,000.00                         | 12,392.00             | 14,693.41             | 11,548.29             | 61.98            | 66.83         | 74.54                 | 2,549.84                            | 2,287.34     | 3,335.34               | 3,249.63                | 85.71                     | 38.914            |                    |           |
| 15,100.00                         | 12,392.00             | 14,793.37             | 11,545.30             | 63.12            | 68.10         | 74.49                 | 2,649.75                            | 2,286.39     | 3,336.18               | 3,248.81                | 87.37                     | 38.186            |                    |           |
| 15,200.00                         | 12,392.00             | 14,893.32             | 11,542.30             | 64.29            | 69.39         | 74.44                 | 2,749.65                            | 2,285.45     | 3,337.02               | 3,247.97                | 89.05                     | 37.474            |                    |           |
| 15,300.00                         | 12,392.00             | 14,993.28             | 11,539.31             | 65.47            | 70.70         | 74.39                 | 2,849.56                            | 2,284.50     | 3,337.87               | 3,247.11                | 90.76                     | 36.779            |                    |           |
| 15,400.00                         | 12,392.00             | 15,093.23             | 11,536.31             | 66.68            | 72.02         | 74.34                 | 2,949.46                            | 2,283.56     | 3,338.72               | 3,246.23                | 92.48                     | 36.101            |                    |           |
| 15,500.00                         | 12,392.00             | 15,193.19             | 11,533.32             | 67.90            | 73.35         | 74.29                 | 3,049.37                            | 2,282.61     | 3,339.57               | 3,245.33                | 94.23                     | 35.439            |                    |           |
| 15,600.00                         | 12,392.00             | 15,293.14             | 11,530.32             | 69.15            | 74.69         | 74.24                 | 3,149.27                            | 2,281.66     | 3,340.42               | 3,244.42                | 96.00                     | 34.795            |                    |           |
| 15,700.00                         | 12,392.00             | 15,393.10             | 11,527.33             | 70.41            | 76.05         | 74.20                 | 3,249.18                            | 2,280.72     | 3,341.28               | 3,243.48                | 97.79                     | 34.167            |                    |           |
| 15,800.00                         | 12,392.00             | 15,493.05             | 11,524.33             | 71.68            | 77.42         | 74.15                 | 3,349.09                            | 2,279.77     | 3,342.14               | 3,242.54                | 99.60                     | 33.556            |                    |           |
| 15,900.00                         | 12,392.00             | 15,593.01             | 11,521.34             | 72.97            | 78.80         | 74.10                 | 3,448.99                            | 2,278.83     | 3,343.00               | 3,241.57                | 101.42                    | 32.961            |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   | Warning            |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 16,000.00                         | 12,392.00             | 15,692.96             | 11,518.34             | 74.28            | 80.19         | 74.05                 | 3,548.90                            | 2,277.88     | 3,343.86               | 3,240.60                | 103.26                    | 32.382            |                    |           |
| 16,100.00                         | 12,392.00             | 15,792.92             | 11,515.35             | 75.60            | 81.59         | 74.00                 | 3,648.80                            | 2,276.94     | 3,344.72               | 3,239.61                | 105.12                    | 31.819            |                    |           |
| 16,200.00                         | 12,392.00             | 15,892.87             | 11,512.35             | 76.93            | 83.00         | 73.95                 | 3,748.71                            | 2,275.99     | 3,345.59               | 3,238.61                | 106.99                    | 31.271            |                    |           |
| 16,300.00                         | 12,392.00             | 15,992.83             | 11,509.36             | 78.27            | 84.41         | 73.90                 | 3,848.62                            | 2,275.05     | 3,346.46               | 3,237.60                | 108.87                    | 30.739            |                    |           |
| 16,400.00                         | 12,392.00             | 16,092.78             | 11,506.36             | 79.63            | 85.84         | 73.85                 | 3,948.52                            | 2,274.10     | 3,347.34               | 3,236.57                | 110.76                    | 30.221            |                    |           |
| 16,500.00                         | 12,392.00             | 16,192.74             | 11,503.37             | 80.99            | 87.27         | 73.80                 | 4,048.43                            | 2,273.16     | 3,348.21               | 3,235.54                | 112.67                    | 29.718            |                    |           |
| 16,600.00                         | 12,392.00             | 16,292.69             | 11,500.37             | 82.37            | 88.71         | 73.75                 | 4,148.33                            | 2,272.21     | 3,349.09               | 3,234.51                | 114.58                    | 29.228            |                    |           |
| 16,700.00                         | 12,392.00             | 16,392.65             | 11,497.38             | 83.75            | 90.16         | 73.70                 | 4,248.24                            | 2,271.27     | 3,349.97               | 3,233.46                | 116.51                    | 28.753            |                    |           |
| 16,800.00                         | 12,392.00             | 16,492.60             | 11,494.38             | 85.15            | 91.62         | 73.66                 | 4,348.14                            | 2,270.32     | 3,350.85               | 3,232.41                | 118.45                    | 28.290            |                    |           |
| 16,900.00                         | 12,392.00             | 16,592.56             | 11,491.39             | 86.56            | 93.08         | 73.61                 | 4,448.05                            | 2,269.38     | 3,351.74               | 3,231.35                | 120.39                    | 27.840            |                    |           |
| 17,000.00                         | 12,392.00             | 16,692.51             | 11,488.39             | 87.97            | 94.55         | 73.56                 | 4,547.96                            | 2,268.43     | 3,352.63               | 3,230.28                | 122.35                    | 27.403            |                    |           |
| 17,100.00                         | 12,392.00             | 16,792.47             | 11,485.39             | 89.39            | 96.02         | 73.51                 | 4,647.86                            | 2,267.48     | 3,353.52               | 3,229.21                | 124.31                    | 26.977            |                    |           |
| 17,200.00                         | 12,392.00             | 16,892.42             | 11,482.40             | 90.82            | 97.50         | 73.46                 | 4,747.77                            | 2,266.54     | 3,354.41               | 3,228.13                | 126.28                    | 26.563            |                    |           |
| 17,300.00                         | 12,392.00             | 16,992.38             | 11,479.40             | 92.26            | 98.99         | 73.41                 | 4,847.67                            | 2,265.59     | 3,355.30               | 3,227.04                | 128.26                    | 26.160            |                    |           |
| 17,400.00                         | 12,392.00             | 17,092.33             | 11,476.41             | 93.70            | 100.48        | 73.36                 | 4,947.58                            | 2,264.65     | 3,356.20               | 3,225.95                | 130.25                    | 25.768            |                    |           |
| 17,500.00                         | 12,392.00             | 17,192.29             | 11,473.41             | 95.15            | 101.97        | 73.31                 | 5,047.48                            | 2,263.70     | 3,357.10               | 3,224.86                | 132.24                    | 25.386            |                    |           |
| 17,600.00                         | 12,392.00             | 17,292.24             | 11,470.42             | 96.61            | 103.47        | 73.27                 | 5,147.39                            | 2,262.76     | 3,358.00               | 3,223.76                | 134.24                    | 25.015            |                    |           |
| 17,700.00                         | 12,392.00             | 17,392.20             | 11,467.42             | 98.07            | 104.98        | 73.22                 | 5,247.30                            | 2,261.81     | 3,358.91               | 3,222.66                | 136.25                    | 24.653            |                    |           |
| 17,800.00                         | 12,392.00             | 17,492.15             | 11,464.43             | 99.54            | 106.48        | 73.17                 | 5,347.20                            | 2,260.87     | 3,359.81               | 3,221.56                | 138.26                    | 24.301            |                    |           |
| 17,900.00                         | 12,392.00             | 17,592.11             | 11,461.43             | 101.02           | 108.00        | 73.12                 | 5,447.11                            | 2,259.92     | 3,360.72               | 3,220.45                | 140.28                    | 23.958            |                    |           |
| 18,000.00                         | 12,392.00             | 17,692.06             | 11,458.44             | 102.50           | 109.51        | 73.07                 | 5,547.01                            | 2,258.98     | 3,361.64               | 3,219.34                | 142.30                    | 23.624            |                    |           |
| 18,100.00                         | 12,392.00             | 17,792.02             | 11,455.44             | 103.98           | 111.04        | 73.02                 | 5,646.92                            | 2,258.03     | 3,362.55               | 3,218.23                | 144.33                    | 23.298            |                    |           |
| 18,200.00                         | 12,392.00             | 17,891.97             | 11,452.45             | 105.47           | 112.56        | 72.97                 | 5,746.82                            | 2,257.09     | 3,363.47               | 3,217.11                | 146.36                    | 22.981            |                    |           |
| 18,300.00                         | 12,392.00             | 17,991.93             | 11,449.45             | 106.97           | 114.09        | 72.92                 | 5,846.73                            | 2,256.14     | 3,364.39               | 3,215.99                | 148.39                    | 22.672            |                    |           |
| 18,400.00                         | 12,392.00             | 18,091.88             | 11,446.46             | 108.47           | 115.62        | 72.88                 | 5,946.64                            | 2,255.20     | 3,365.31               | 3,214.87                | 150.44                    | 22.370            |                    |           |
| 18,500.00                         | 12,392.00             | 18,191.84             | 11,443.46             | 109.97           | 117.15        | 72.83                 | 6,046.54                            | 2,254.25     | 3,366.23               | 3,213.75                | 152.48                    | 22.076            |                    |           |
| 18,600.00                         | 12,392.00             | 18,291.79             | 11,440.47             | 111.48           | 118.69        | 72.78                 | 6,146.45                            | 2,253.30     | 3,367.16               | 3,212.63                | 154.53                    | 21.790            |                    |           |
| 18,700.00                         | 12,392.00             | 18,391.75             | 11,437.47             | 112.99           | 120.23        | 72.73                 | 6,246.35                            | 2,252.36     | 3,368.09               | 3,211.50                | 156.58                    | 21.510            |                    |           |
| 18,800.00                         | 12,392.00             | 18,491.70             | 11,434.48             | 114.51           | 121.78        | 72.68                 | 6,346.26                            | 2,251.41     | 3,369.02               | 3,210.38                | 158.64                    | 21.237            |                    |           |
| 18,900.00                         | 12,392.00             | 18,591.66             | 11,431.48             | 116.03           | 123.32        | 72.63                 | 6,446.16                            | 2,250.47     | 3,369.95               | 3,209.26                | 160.70                    | 20.971            |                    |           |
| 19,000.00                         | 12,392.00             | 18,691.61             | 11,428.49             | 117.55           | 124.87        | 72.59                 | 6,546.07                            | 2,249.52     | 3,370.89               | 3,208.13                | 162.76                    | 20.711            |                    |           |
| 19,100.00                         | 12,392.00             | 18,791.57             | 11,425.49             | 119.08           | 126.42        | 72.54                 | 6,645.98                            | 2,248.58     | 3,371.83               | 3,207.01                | 164.82                    | 20.458            |                    |           |
| 19,200.00                         | 12,392.00             | 18,891.52             | 11,422.50             | 120.61           | 127.98        | 72.49                 | 6,745.88                            | 2,247.63     | 3,372.77               | 3,205.88                | 166.89                    | 20.210            |                    |           |
| 19,300.00                         | 12,392.00             | 18,991.48             | 11,419.50             | 122.14           | 129.53        | 72.44                 | 6,845.79                            | 2,246.69     | 3,373.71               | 3,204.75                | 168.96                    | 19.968            |                    |           |
| 19,400.00                         | 12,392.00             | 19,091.44             | 11,416.51             | 123.68           | 131.09        | 72.39                 | 6,945.69                            | 2,245.74     | 3,374.66               | 3,203.63                | 171.03                    | 19.731            |                    |           |
| 19,500.00                         | 12,392.00             | 19,191.39             | 11,413.51             | 125.22           | 132.65        | 72.34                 | 7,045.60                            | 2,244.80     | 3,375.61               | 3,202.50                | 173.10                    | 19.500            |                    |           |
| 19,600.00                         | 12,392.00             | 19,291.35             | 11,410.52             | 126.76           | 134.22        | 72.30                 | 7,145.50                            | 2,243.85     | 3,376.56               | 3,201.38                | 175.18                    | 19.275            |                    |           |
| 19,700.00                         | 12,392.00             | 19,391.30             | 11,407.52             | 128.31           | 135.78        | 72.25                 | 7,245.41                            | 2,242.91     | 3,377.51               | 3,200.25                | 177.26                    | 19.054            |                    |           |
| 19,800.00                         | 12,392.00             | 19,491.26             | 11,404.53             | 129.85           | 137.35        | 72.20                 | 7,345.32                            | 2,241.96     | 3,378.46               | 3,199.13                | 179.34                    | 18.839            |                    |           |
| 19,900.00                         | 12,392.00             | 19,591.21             | 11,401.53             | 131.40           | 138.92        | 72.15                 | 7,445.22                            | 2,241.02     | 3,379.42               | 3,198.00                | 181.42                    | 18.628            |                    |           |
| 20,000.00                         | 12,392.00             | 19,691.17             | 11,398.54             | 132.96           | 140.49        | 72.10                 | 7,545.13                            | 2,240.07     | 3,380.38               | 3,196.88                | 183.50                    | 18.421            |                    |           |
| 20,100.00                         | 12,392.00             | 19,791.12             | 11,395.54             | 134.51           | 142.06        | 72.06                 | 7,645.03                            | 2,239.12     | 3,381.34               | 3,195.76                | 185.59                    | 18.220            |                    |           |
| 20,200.00                         | 12,392.00             | 19,891.08             | 11,392.55             | 136.07           | 143.64        | 72.01                 | 7,744.94                            | 2,238.18     | 3,382.31               | 3,194.63                | 187.68                    | 18.022            |                    |           |
| 20,300.00                         | 12,392.00             | 19,991.03             | 11,389.55             | 137.63           | 145.22        | 71.96                 | 7,844.84                            | 2,237.23     | 3,383.28               | 3,193.51                | 189.76                    | 17.829            |                    |           |
| 20,400.00                         | 12,392.00             | 20,090.99             | 11,386.56             | 139.19           | 146.79        | 71.91                 | 7,944.75                            | 2,236.29     | 3,384.25               | 3,192.39                | 191.85                    | 17.640            |                    |           |
| 20,500.00                         | 12,392.00             | 20,190.94             | 11,383.56             | 140.75           | 148.37        | 71.86                 | 8,044.66                            | 2,235.34     | 3,385.22               | 3,191.27                | 193.95                    | 17.454            |                    |           |
| 20,600.00                         | 12,392.00             | 20,290.90             | 11,380.57             | 142.32           | 149.96        | 71.82                 | 8,144.56                            | 2,234.40     | 3,386.19               | 3,190.16                | 196.04                    | 17.273            |                    |           |
| 20,700.00                         | 12,392.00             | 20,390.85             | 11,377.57             | 143.89           | 151.54        | 71.77                 | 8,244.47                            | 2,233.45     | 3,387.17               | 3,189.04                | 198.13                    | 17.096            |                    |           |
| 20,800.00                         | 12,392.00             | 20,490.81             | 11,374.58             | 145.46           | 153.12        | 71.72                 | 8,344.37                            | 2,232.51     | 3,388.15               | 3,187.92                | 200.23                    | 16.922            |                    |           |
| 20,900.00                         | 12,392.00             | 20,590.76             | 11,371.58             | 147.03           | 154.71        | 71.67                 | 8,444.28                            | 2,231.56     | 3,389.13               | 3,186.81                | 202.32                    | 16.751            |                    |           |
| 21,000.00                         | 12,392.00             | 20,690.72             | 11,368.59             | 148.60           | 156.30        | 71.62                 | 8,544.18                            | 2,230.62     | 3,390.11               | 3,185.70                | 204.42                    | 16.584            |                    |           |
| 21,100.00                         | 12,392.00             | 20,790.67             | 11,365.59             | 150.18           | 157.88        | 71.58                 | 8,644.09                            | 2,229.67     | 3,391.10               | 3,184.59                | 206.51                    | 16.421            |                    |           |

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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-OWSG (Rev2) MWD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               | Distance              |                                     |              |                        |                         |                           |                   | Warning            |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 21,200.00                         | 12,392.00             | 20,890.63             | 11,362.60             | 151.75           | 159.47        | 71.53                 | 8,744.00                            | 2,228.73     | 3,392.09               | 3,183.48                | 208.61                    | 16.261            |                    |           |
| 21,300.00                         | 12,392.00             | 20,990.58             | 11,359.60             | 153.33           | 161.06        | 71.48                 | 8,843.90                            | 2,227.78     | 3,393.08               | 3,182.37                | 210.71                    | 16.103            |                    |           |
| 21,400.00                         | 12,392.00             | 21,090.54             | 11,356.61             | 154.91           | 162.66        | 71.43                 | 8,943.81                            | 2,226.84     | 3,394.07               | 3,181.27                | 212.81                    | 15.949            |                    |           |
| 21,500.00                         | 12,392.00             | 21,190.49             | 11,353.61             | 156.49           | 164.25        | 71.38                 | 9,043.71                            | 2,225.89     | 3,395.07               | 3,180.16                | 214.91                    | 15.798            |                    |           |
| 21,600.00                         | 12,392.00             | 21,290.45             | 11,350.62             | 158.07           | 165.84        | 71.34                 | 9,143.62                            | 2,224.94     | 3,396.07               | 3,179.06                | 217.01                    | 15.650            |                    |           |
| 21,700.00                         | 12,392.00             | 21,390.40             | 11,347.62             | 159.66           | 167.44        | 71.29                 | 9,243.52                            | 2,224.00     | 3,397.07               | 3,177.96                | 219.11                    | 15.504            |                    |           |
| 21,800.00                         | 12,392.00             | 21,490.36             | 11,344.63             | 161.24           | 169.04        | 71.24                 | 9,343.43                            | 2,223.05     | 3,398.07               | 3,176.86                | 221.21                    | 15.362            |                    |           |
| 21,900.00                         | 12,392.00             | 21,590.31             | 11,341.63             | 162.83           | 170.63        | 71.19                 | 9,443.34                            | 2,222.11     | 3,399.07               | 3,175.77                | 223.31                    | 15.222            |                    |           |
| 22,000.00                         | 12,392.00             | 21,690.27             | 11,338.64             | 164.42           | 172.23        | 71.15                 | 9,543.24                            | 2,221.16     | 3,400.08               | 3,174.68                | 225.41                    | 15.084            |                    |           |
| 22,100.00                         | 12,392.00             | 21,790.22             | 11,335.64             | 166.01           | 173.83        | 71.10                 | 9,643.15                            | 2,220.22     | 3,401.09               | 3,173.58                | 227.51                    | 14.949            |                    |           |
| 22,200.00                         | 12,392.00             | 21,890.18             | 11,332.65             | 167.60           | 175.43        | 71.05                 | 9,743.05                            | 2,219.27     | 3,402.10               | 3,172.50                | 229.61                    | 14.817            |                    |           |
| 22,300.00                         | 12,392.00             | 21,990.13             | 11,329.65             | 169.19           | 177.03        | 71.00                 | 9,842.96                            | 2,218.33     | 3,403.12               | 3,171.41                | 231.71                    | 14.687            |                    |           |
| 22,400.00                         | 12,392.00             | 22,090.09             | 11,326.66             | 170.78           | 178.64        | 70.96                 | 9,942.86                            | 2,217.38     | 3,404.14               | 3,170.32                | 233.81                    | 14.559            |                    |           |
| 22,500.00                         | 12,392.00             | 22,190.04             | 11,323.66             | 172.37           | 180.24        | 70.91                 | 10,042.77                           | 2,216.44     | 3,405.15               | 3,169.24                | 235.91                    | 14.434            |                    |           |
| 22,595.91                         | 12,392.00             | 22,285.91             | 11,320.79             | 173.90           | 181.78        | 70.86                 | 10,138.59                           | 2,215.53     | 3,406.13               | 3,168.20                | 237.93                    | 14.316 SF         |                    |           |

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



# Total Directional Services

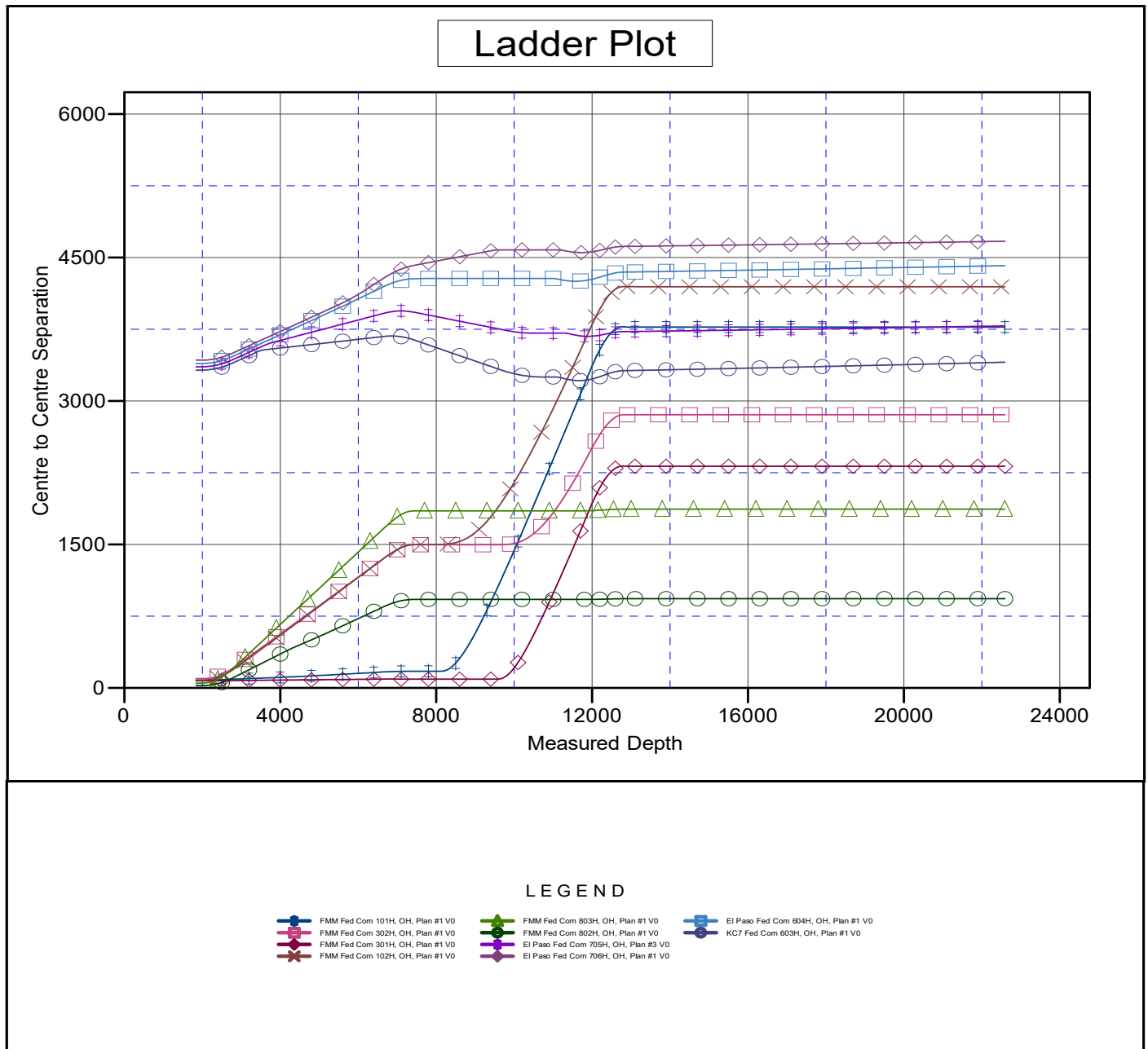
## Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

Reference Depths are relative to 3288.9' GE + 30' KB @ 3318.90usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -104.333334

Coordinates are relative to: FMM Fed Com 801H  
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone  
 Grid Convergence at Surface is: 0.54°



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



## Total Directional Services

### Anticollision Report



|                           |                          |                                     |                                   |
|---------------------------|--------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy | <b>Local Co-ordinate Reference:</b> | Well FMM Fed Com 801H             |
| <b>Project:</b>           | Lea County, NM (NAD83)   | <b>TVD Reference:</b>               | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Reference Site:</b>    | FMM Fed Com              | <b>MD Reference:</b>                | 3288.9' GE + 30' KB @ 3318.90usft |
| <b>Site Error:</b>        | 0.00 usft                | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | FMM Fed Com 801H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00 usft                | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | OH                       | <b>Database:</b>                    | EDM 5000.15 Single User Db        |
| <b>Reference Design:</b>  | Plan #1                  | <b>Offset TVD Reference:</b>        | Offset Datum                      |

Reference Depths are relative to 3288.9' GE + 30' KB @ 3318.90usft

Offset Depths are relative to Offset Datum

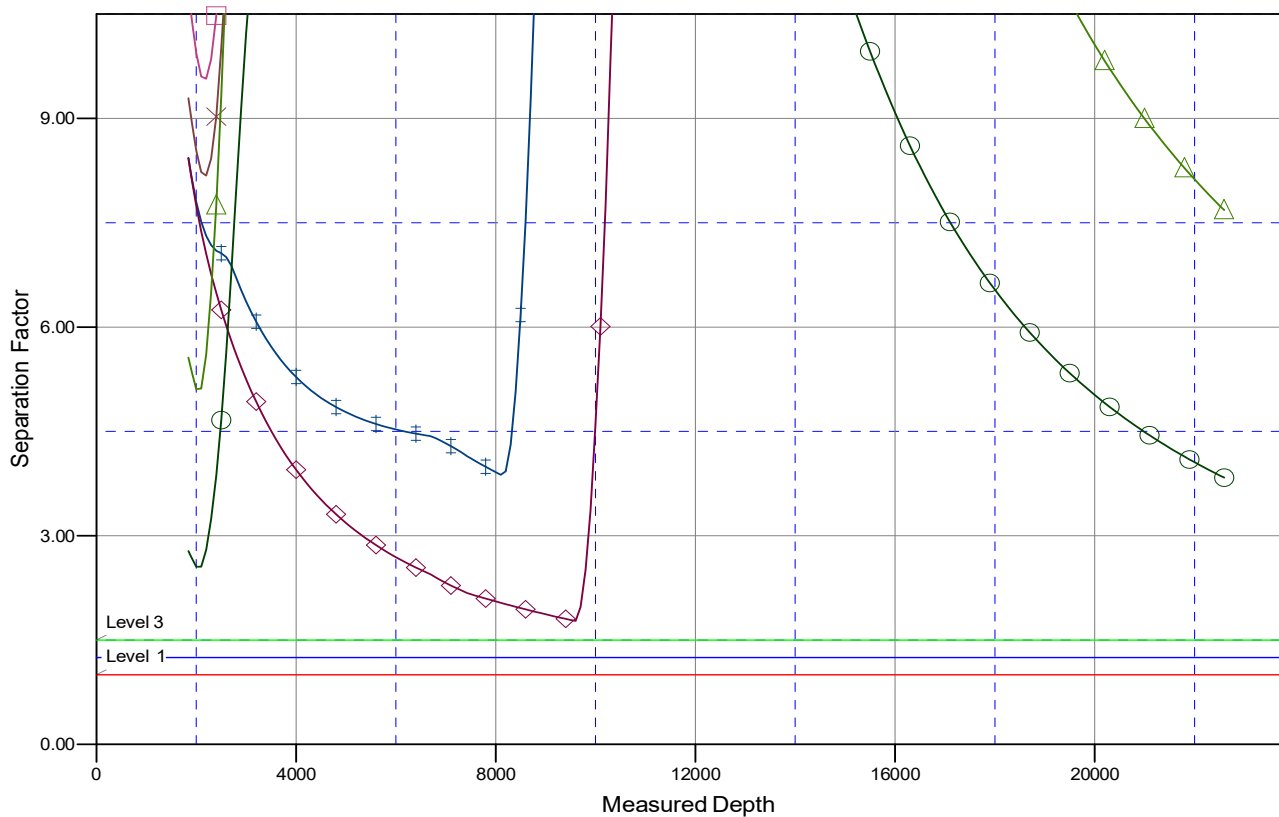
Central Meridian is -104.333334

Coordinates are relative to: FMM Fed Com 801H

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

Grid Convergence at Surface is: 0.54°

## Separation Factor Plot



### LEGEND

|                                  |                                      |                                      |
|----------------------------------|--------------------------------------|--------------------------------------|
| FMM Fed Com 101H, OH, Plan #1 V0 | FMM Fed Com 803H, OH, Plan #1 V0     | El Paso Fed Com 604H, OH, Plan #1 V0 |
| FMM Fed Com 302H, OH, Plan #1 V0 | FMM Fed Com 802H, OH, Plan #1 V0     | KC7 Fed Com 603H, OH, Plan #1 V0     |
| FMM Fed Com 301H, OH, Plan #1 V0 | El Paso Fed Com 705H, OH, Plan #3 V0 |                                      |
| FMM Fed Com 102H, OH, Plan #1 V0 | El Paso Fed Com 706H, OH, Plan #1 V0 |                                      |

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

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

|                         |                                     |
|-------------------------|-------------------------------------|
| <b>OPERATOR'S NAME:</b> | <b>Franklin Mountain Energy LLC</b> |
| <b>LEASE NO.:</b>       | <b>NMNM132081</b>                   |
| <b>LOCATION:</b>        | Section 36, T.24 S., R.35 E., NMPM  |
| <b>COUNTY:</b>          | Lea County, New Mexico              |
| <b>Sundry ID:</b>       | N/A                                 |

|                              |                         |
|------------------------------|-------------------------|
| <b>WELL NAME &amp; NO.:</b>  | <b>FMM Fed Com 101H</b> |
| <b>SURFACE HOLE FOOTAGE:</b> | 345'/S & 1269'/W        |
| <b>BOTTOM HOLE FOOTAGE:</b>  | 150'/N & 380'/W         |

|                              |                         |
|------------------------------|-------------------------|
| <b>WELL NAME &amp; NO.:</b>  | <b>FMM Fed Com 102H</b> |
| <b>SURFACE HOLE FOOTAGE:</b> | 345'/S & 1319'/W        |
| <b>BOTTOM HOLE FOOTAGE:</b>  | 150'/N & 1877'/W        |

|                              |                         |
|------------------------------|-------------------------|
| <b>WELL NAME &amp; NO.:</b>  | <b>FMM Fed Com 301H</b> |
| <b>SURFACE HOLE FOOTAGE:</b> | 345'/S & 1294'/W        |
| <b>BOTTOM HOLE FOOTAGE:</b>  | 150'/N & 380'/W         |

|                              |                         |
|------------------------------|-------------------------|
| <b>WELL NAME &amp; NO.:</b>  | <b>FMM Fed Com 801H</b> |
| <b>SURFACE HOLE FOOTAGE:</b> | 270'/S & 1281'/W        |
| <b>BOTTOM HOLE FOOTAGE:</b>  | 150'/N & 380'/W         |

|                              |                         |
|------------------------------|-------------------------|
| <b>WELL NAME &amp; NO.:</b>  | <b>FMM Fed Com 802H</b> |
| <b>SURFACE HOLE FOOTAGE:</b> | 270'/S & 1306'/W        |
| <b>BOTTOM HOLE FOOTAGE:</b>  | 150'/N & 1306'/W        |

COA

|                               |                                                   |                                                  |                                          |
|-------------------------------|---------------------------------------------------|--------------------------------------------------|------------------------------------------|
| H2S                           | <input type="checkbox"/> Yes                      | <input checked="" type="checkbox"/> No           |                                          |
| Potash                        | <input checked="" type="checkbox"/> None          | <input type="checkbox"/> Secretary               | <input type="checkbox"/> R-111-P         |
| Cave/Karst Potential          | <input checked="" type="checkbox"/> Low           | <input type="checkbox"/> Medium                  | <input type="checkbox"/> High            |
| Cave/Karst Potential          | <input type="checkbox"/> Critical                 |                                                  |                                          |
| Variance                      | <input checked="" type="checkbox"/> None          | <input type="checkbox"/> Flex Hose               | <input type="checkbox"/> Other           |
| Wellhead                      | <input type="checkbox"/> Conventional             | <input type="checkbox"/> Multibowl               | <input checked="" type="checkbox"/> Both |
| Wellhead Variance             | <input type="checkbox"/> Diverter                 |                                                  |                                          |
| Other                         | <input checked="" type="checkbox"/> 4 String Area | <input checked="" type="checkbox"/> Capitan Reef | <input type="checkbox"/> WIPP            |
| Other                         | <input checked="" type="checkbox"/> Fluid Filled  | <input type="checkbox"/> Pilot Hole              | <input type="checkbox"/> Open Annulus    |
| Cementing                     | <input type="checkbox"/> Cement Squeeze           | <input type="checkbox"/> EchoMeter               |                                          |
| Special Requirements          | <input type="checkbox"/> Water Disposal           | <input checked="" type="checkbox"/> COM          | <input type="checkbox"/> Unit            |
| Special Requirements Variance | <input type="checkbox"/> Break Testing            | <input type="checkbox"/> Offline Cementing       |                                          |

## A. HYDROGEN SULFIDE

Hydrogen Sulfide (H<sub>2</sub>S) monitors shall be installed prior to drilling out the surface shoe. If H<sub>2</sub>S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

## B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1500 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing shall be set at approximately **5280 feet** is:

### Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.**

### Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.**
- ❖ In Capitan Reef Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- ❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
  - Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
  - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

**Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.**

3. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
  - Cement should tie-back at least **50 feet** on top of Capitan Reef top or **200 feet** into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.**  
**Cement excess is less than 25%, more cement might be required.**

4. The minimum required fill of cement behind the **5-1/2** inch production casing is:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

### C. PRESSURE CONTROL

1.

#### Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** intermediate casing shoe shall be **5000 (5M)** psi.
- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **7-5/8** inch intermediate casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

#### Option 2:

- a. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
  - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - iii. Manufacturer representative shall install the test plug for the initial BOP test.
  - iv. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - v. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

**D. SPECIAL REQUIREMENT (S)****Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

## GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,  
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)  
393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

## A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

## B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

**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**

CONDITIONS

Action 85960

**CONDITIONS**

|                                                                                 |                                                                       |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Operator:<br>Franklin Mountain Energy LLC<br>44 Cook Street<br>Denver, CO 80206 | OGRID:<br>373910                                                      |
|                                                                                 | Action Number:<br>85960                                               |
|                                                                                 | Action Type:<br>[C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

**CONDITIONS**

| Created By | Condition                                                                                                                                                                                                                                                            | Condition Date |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| pkautz     | Will require a File As Drilled C-102 and a Directional Survey with the C-104                                                                                                                                                                                         | 3/7/2022       |
| 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 | 3/7/2022       |
| 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                  | 3/7/2022       |
| pkautz     | Cement is required to circulate on both surface and intermediate1 strings of casing                                                                                                                                                                                  | 3/7/2022       |