

|                                       |                                                                             |                                               |
|---------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------|
| <b>Well Name:</b> BUS DRIVER FED COM  | <b>Well Location:</b> T25S / R35E / SEC 36 / SESW / 32.080431 / -103.322121 | <b>County or Parish/State:</b> LEA / NM       |
| <b>Well Number:</b> 702H              | <b>Type of Well:</b> OIL WELL                                               | <b>Allottee or Tribe Name:</b>                |
| <b>Lease Number:</b> NMNM117126       | <b>Unit or CA Name:</b>                                                     | <b>Unit or CA Number:</b>                     |
| <b>US Well Number:</b> 300254810100X1 | <b>Well Status:</b> Approved Application for Permit to Drill                | <b>Operator:</b> FRANKLIN MOUNTAIN ENERGY LLC |

Notice of Intent

|                                                       |                                           |
|-------------------------------------------------------|-------------------------------------------|
| <b>Type of Submission:</b> Notice of Intent           | <b>Type of Action</b> Drilling Operations |
| <b>Date Sundry Submitted:</b> 05/15/2021              | <b>Time Sundry Submitted:</b> 02:44       |
| <b>Date proposed operation will begin:</b> 05/18/2021 |                                           |

**Procedure Description:** Franklin Mountain Energy, LLC (FME), Operator, respectfully requests approval to make the following changes to the proposed drilling plan for the above referenced well: - Change 1st Intermediate set depth to 5095'. - Change cement volumes based on updated Geoprog, casing and Directional plan. - Production Casing: FME would like approval to utilize 5.5 inch Eagle 606 23lb. P-110 in the drilling of this bore. Please see attached revised 14-point plan, Plan #4, geo prog and data sheet.

Surface Disturbance

**Is any additional surface disturbance proposed?:** No

NOI Attachments

Procedure Description

- FME\_Federal\_14\_Point\_Plan\_Bus\_Driver\_702\_updated\_dir\_23\_lbs\_Eagle\_14\_CMT\_20210515144428.pdf
- Franklin\_Mountain\_\_Bus\_Driver\_Fed\_Com\_702H\_\_Plan\_4\_20210511163424.pdf
- Bus\_Driver\_Fed\_Com\_702H\_GEOPROG\_prelim\_20210511163409.pdf
- Data\_Sheet\_5.500\_inch\_23.00\_\_P110\_USS\_EAGLE\_SFH\_\_USS\_20210212151937\_20210225100727\_20210511163400.pdf

Received by OCD: 5/17/2021 11:03:37 AM

Page 2 of 61

|                                |                                                                      |                                        |
|--------------------------------|----------------------------------------------------------------------|----------------------------------------|
| Well Name: BUS DRIVER FED COM  | Well Location: T25S / R35E / SEC 36 / SESW / 32.080431 / -103.322121 | County or Parish/State: LEA / NM       |
| Well Number: 702H              | Type of Well: OIL WELL                                               | Allottee or Tribe Name:                |
| Lease Number: NMNM117126       | Unit or CA Name:                                                     | Unit or CA Number:                     |
| US Well Number: 300254810100X1 | Well Status: Approved Application for Permit to Drill                | Operator: FRANKLIN MOUNTAIN ENERGY LLC |

Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

|                                                      |                                  |
|------------------------------------------------------|----------------------------------|
| Operator Electronic Signature: RACHAEL OVERBEY       | Signed on: MAY 15, 2021 02:44 PM |
| Name: FRANKLIN MOUNTAIN ENERGY LLC                   |                                  |
| Title: Director – Operations Planning and Regulatory |                                  |
| Street Address: 2401 E 2nd Avenue, Suite 300         |                                  |
| City: Denver                                         | State: CO                        |
| Phone: (720) 414-7868                                |                                  |
| Email address: roverbey@fme LLC.com                  |                                  |

Field Representative

|                      |        |      |
|----------------------|--------|------|
| Representative Name: |        |      |
| Street Address:      |        |      |
| City:                | State: | Zip: |
| Phone:               |        |      |
| Email address:       |        |      |

BLM Point of Contact

|                           |                                    |
|---------------------------|------------------------------------|
| BLM POC Name: LONG VO     | BLM POC Title: Petroleum Engineer  |
| BLM POC Phone: 5752345972 | BLM POC Email Address: lvo@blm.gov |
| Disposition: Approved     | Disposition Date: 05/17/2021       |
| Signature: Long Vo        |                                    |



## Bus Driver Fed Com 702H

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)   | 3,058'  | 30'      | 30'        | 0     | Sand/Gravels/unconsolidated      |
| Rustler                       | 2,263'  | 825'     |            |       | Carbonates                       |
| Salado                        | 1,744'  | 1,344'   |            |       | Salt, Carbonate & Clastics       |
| Base Salt                     | 500'    | 2,588'   |            |       | Shaley Carbonate & Shale         |
| Lamar                         | -1,992' | 5,080'   |            |       | Carbonate & Clastics             |
| Bell Canyon                   | -2,029' | 5,117'   |            |       | Sandstone - oil/gas/water        |
| Cherry Canyon                 | -2,879' | 5,967'   |            |       | Sandstone - oil/gas/water        |
| Brushy Canyon                 | -4,271' | 7,359'   |            |       | Sand/carb/shales - oil/gas/water |
| Bone Spring Lime              | -5,654' | 8,742'   |            |       | Shale/Carbonates - oil/gas       |
| Avalon                        | -5,678' | 8,766'   |            |       | Shale/Carbonates - oil/gas       |
| First Bone Spring Sand        | -6,780' | 9,868'   |            |       | Sandstone - oil/gas/water        |
| Second Bone Spring Carbonates | -6,919' | 10,007'  |            |       | Shale/Carbonates - oil/gas       |
| Second Bone Spring Sand       | -7,304' | 10,392'  |            |       | Sandstone - oil/gas/water        |
| Third Bone Spring Carbonates  | -8,004' | 11,092'  |            |       | Shale/Carbonates - oil/gas       |
| Third Bone Spring Sand        | -8,675' | 11,763'  |            |       | Sandstone - oil/gas/water        |
| Wolfcamp                      | -8,917' | 12,005'  |            |       | Overpressure shale/sand- Oil/Gas |
| HZ Target                     | -8,960' | 12,048'  |            |       | Overpressure shale/sand- Oil/Gas |
| Wolfcamp A                    | -8,978' | 12,066'  |            |       | Overpressure Shale - Oil/Gas     |
| Wolfcamp B                    | -9,198' | 12,286'  |            |       | Overpressure Shale - Oil/Gas     |

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

|                     |         |             |
|---------------------|---------|-------------|
| Upper Permian Sands | 0- 400' | Fresh Water |
| Delaware Sands      | 5,117'  | Oil         |
| Bone Spring         | 9,868'  | Oil         |
| Wolfcamp            | 12,005  | 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         | 5095           | 1.79              | 1.77     | 3.02    | 3.43         |
| Intermediate 7 5/8" | 29.7   | HCP-110 | 8280  | 7150     | 827     | Stinger<br>564      | 12150          | 1.09              | 1.26     | 1.79    | 1.22         |
| Long string 5 1/2"  | 23     | P-110   | 14520 | 14520    | 729     | Eagle<br>606<br>TVD | 23594<br>12197 | 1.32              | 1.31     | 1.13    | 0.94<br>1.59 |

7 5/8" casing will be set at 12,150' MD/11,982' TVD at 61° Inc just above the Wolfcamp formation. Stress calculations on 5 1/2" casing performed assuming 23,594' depth. Stress calculations on 5 1/2" connections performed at 12,197' – maximum vertical depth of this well.



### 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          | 795   | Extenda Cem, 12.8 ppg Class C, 3lb/sk Kol-Seal                                             | 1.747                          | 9.06         | 0      | 334   | HalCem TM, 14.8 ppg, Class C, 1% CaCl <sub>2</sub> , 0.125pps Celo-Flake | 1.349                          | 6.51         | 1000  | 100%   |
| Int1        | 12.25     | 9.625       | 5095          | 1486  | Lead, 12.8 ppg, Class C 5% Salt, 0.125 pps Poly-E-Flake, 3lb/sk Kol-Seal                   | 1.79                           | 9.72         | 0      | 154   | HalCem TM, 14.8 ppg, Class C, 0.1% HR 800 .125 pps Poly-E-Flake          | 1.33                           | 6.37         | 4795  | 100%   |
| Int2        | 8.75      | 7.625       | 12150         | 246   | Lite Fill, 9.5 ppg, Class C 3lb/sk Bridgemaker Gel, 5% Salt, 5pps LCM, 0.25pps Cello-Flake | 3.28                           | 14.74        | 4095   | 94    | NeoCem 14.8 ppg, Class C 0.25 pps Cello-Flake, 2% CaCl <sub>2</sub>      | 1.33                           | 6.26         | 11150 | 50%    |
| Prod        | 6.75      | 5.5         | 23594         | 928   | NeoCem, 13.5 ppg, Gas Migration Control                                                    | 1.34                           | 6.24         | 11150  |       |                                                                          |                                |              |       | 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 ½" x 7" variable pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

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

Before drilling out of the 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 2000 psi 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' – 12,150'             | Brine       | 8.8-10.2     | 28-34     | N/c        |
| 12,150' – 23,594'<br>Lateral | Oil Base    | 10.0-11.0    | 58-68     | 3 - 6      |

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

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

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

## 7. Auxiliary well control and monitoring equipment:

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

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

(C) 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 12,197' TVD (deepest point of the well) is 195F with an estimated maximum bottom-hole pressure (BHP) at the same point of 7,928 psig (based on 12.5 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 Cameron 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.

Released to Imaging: 6/25/2021 12:01:30 PM

# Franklin Mountain Energy

Project: Lea County, NM (NAD83)  
Site: Bus Driver/Kaston Fed Com  
Well: Bus Driver Fed Com 702H  
Wellbore: OH  
Design: Plan #4



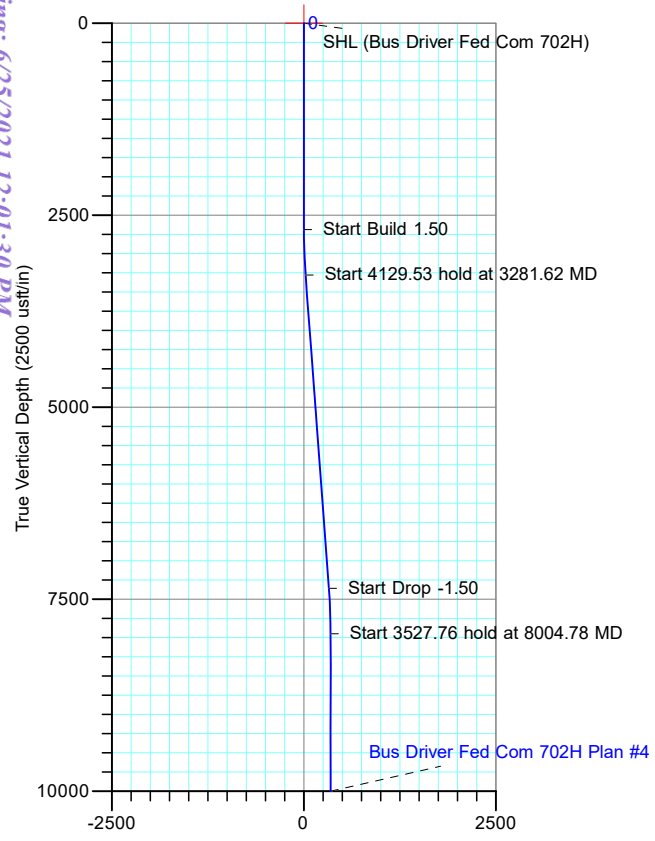
Azimuths to Grid North  
True North: -0.54°  
Magnetic North: 6.00°  
  
Magnetic Field  
Strength: 47604.7nT  
Dip Angle: 59.93°  
Date: 2/25/2020  
Model: IGRF2015

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



Received by OCD: 5/17/2021 11:03:37 AM

3057.5' GE + 30' KB @ 3087.50usft

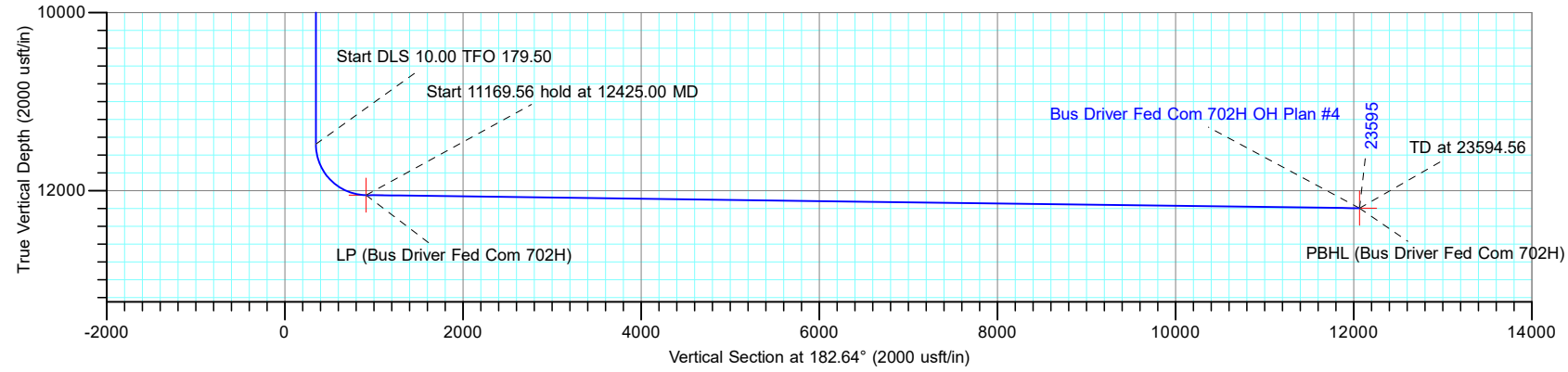
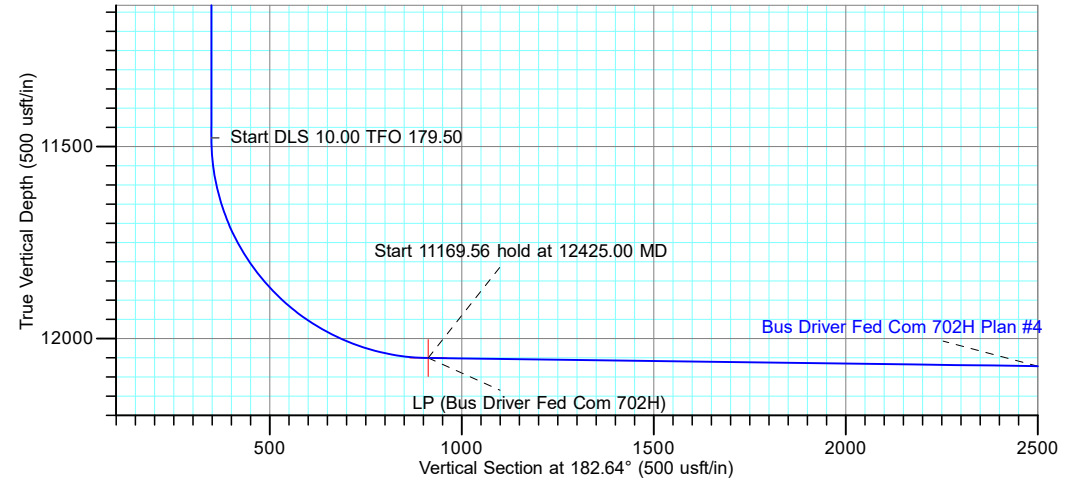


## SECTION DETAILS

| 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     |                                    |
| 2688.00  | 0.00  | 0.00   | 2688.00  | 0.00      | 0.00    | 0.00  | 0.00   | 0.00     | Start Build 1.50                   |
| 3281.62  | 8.90  | 244.22 | 3279.24  | -20.02    | -41.45  | 1.50  | 244.22 | 21.91    | Start 4129.53 hold at 3281.62 MD   |
| 7411.16  | 8.90  | 244.22 | 7359.00  | -298.04   | -617.02 | 0.00  | 0.00   | 326.14   | Start Drop -1.50                   |
| 8004.78  | 0.00  | 0.00   | 7950.24  | -318.06   | -658.47 | 1.50  | 180.00 | 348.05   | Start 3527.76 hold at 8004.78 MD   |
| 11532.54 | 0.00  | 0.00   | 11478.00 | -318.06   | -658.47 | 0.00  | 0.00   | 348.05   | Start DLS 10.00 TFO 179.50         |
| 12425.00 | 89.25 | 179.50 | 12050.91 | -883.45   | -653.52 | 10.00 | 179.50 | 912.62   | Start 11169.56 hold at 12425.00 MD |
| 23594.56 | 89.25 | 179.50 | 12197.93 | -12051.62 | -555.73 | 0.00  | 0.00   | 12064.43 | TD at 23594.56                     |

## DESIGN TARGET DETAILS

| Name                           | TVD      | +N/-S     | +E/-W   | Latitude  | Longitude   |
|--------------------------------|----------|-----------|---------|-----------|-------------|
| LP (Bus Driver Fed Com 702H)   | 12050.91 | -883.45   | -653.52 | 32.078019 | -103.324258 |
| PBHL (Bus Driver Fed Com 702H) | 12197.93 | -12051.62 | -555.73 | 32.047320 | -103.324279 |
| SHL (Bus Driver Fed Com 702H)  | 0.00     | 0.00      | 0.00    | 32.080431 | -103.322121 |



TOTAL DIRECTIONAL SERVICES LLC  
671 Academy Ct, Windsor, CO 80550  
Phone: (970) 460-9402

Plan: Plan #4 (Bus Driver Fed Com 702H/OH)  
Bus Driver/Kaston Fed Com  
Created By: Dustin Ault  
Date: 11:22, April 20 2021  
Approved: \_\_\_\_\_  
Date: \_\_\_\_\_

Page 8 of 61

Released to Imaging: 6/25/2021 12:01:30 PM

# Franklin Mountain Energy

Project: Lea County, NM (NAD83)  
Site: Bus Driver/Kaston Fed Com  
Well: Bus Driver Fed Com 702H  
Wellbore: OH  
Design: Plan #4

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

T

G

M

Azimuths to Grid North

True North: -0.54°

Magnetic North: 6.00°

Magnetic Field

Strength: 47604.7nT

Dip Angle: 59.93°

Date: 2/25/2020

Model: IGRF2015

FRANKLIN MOUNTAIN

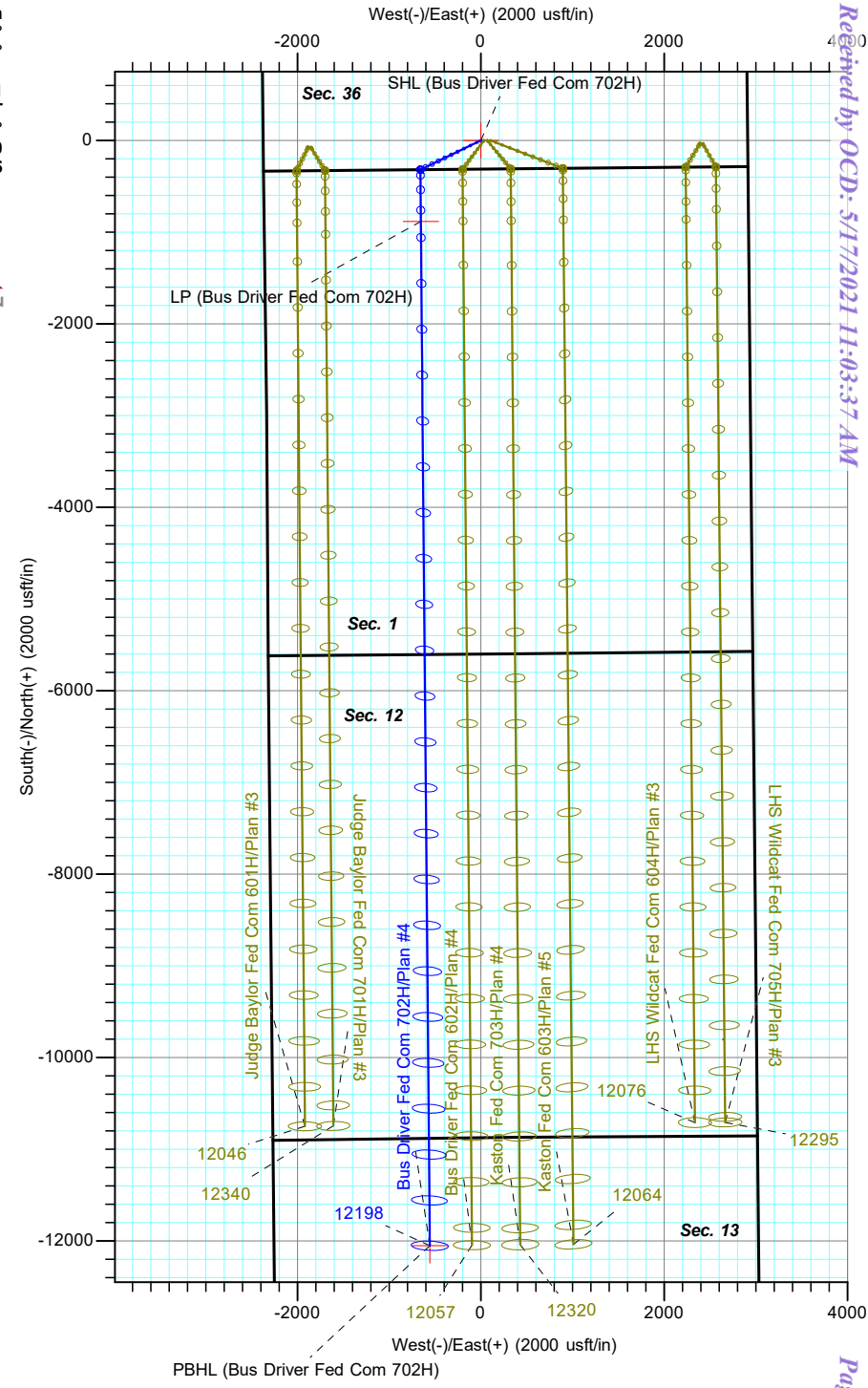
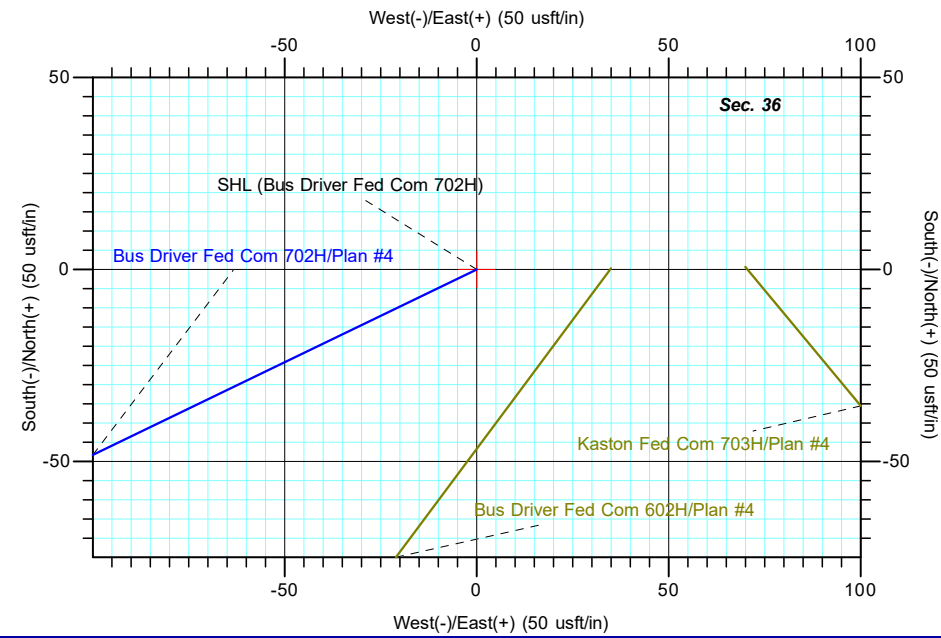
ENERGY

## DESIGN TARGET DETAILS

| Name                           | TVD      | +N/-S     | +E/-W   | Northing  | Easting   | Latitude  | Longitude   |
|--------------------------------|----------|-----------|---------|-----------|-----------|-----------|-------------|
| LP (Bus Driver Fed Com 702H)   | 12050.91 | -883.45   | -653.52 | 393582.30 | 853880.88 | 32.078019 | -103.324258 |
| PBHL (Bus Driver Fed Com 702H) | 12197.93 | -12051.62 | -555.73 | 382414.13 | 853978.67 | 32.047320 | -103.324279 |
| SHL (Bus Driver Fed Com 702H)  | 0.00     | 0.00      | 0.00    | 394465.75 | 854534.40 | 32.080431 | -103.322121 |

## 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     |                                    |
| 2688.00  | 0.00  | 0.00   | 2688.00  | 0.00      | 0.00    | 0.00  | 0.00   | 0.00     | Start Build 1.50                   |
| 3281.62  | 8.90  | 244.22 | 3279.24  | -20.02    | -41.45  | 1.50  | 244.22 | 21.91    | Start 4129.53 hold at 3281.62 MD   |
| 7411.16  | 8.90  | 244.22 | 7359.00  | -298.04   | -617.02 | 0.00  | 0.00   | 326.14   | Start Drop -1.50                   |
| 8004.78  | 0.00  | 0.00   | 7950.24  | -318.06   | -658.47 | 1.50  | 180.00 | 348.05   | Start 3527.76 hold at 8004.78 MD   |
| 11532.54 | 0.00  | 0.00   | 11478.00 | -318.06   | -658.47 | 0.00  | 0.00   | 348.05   | Start DLS 10.00 TFO 179.50         |
| 12425.00 | 89.25 | 179.50 | 12050.91 | -883.45   | -653.52 | 10.00 | 179.50 | 912.62   | Start 11169.56 hold at 12425.00 MD |
| 23594.56 | 89.25 | 179.50 | 12197.93 | -12051.62 | -555.73 | 0.00  | 0.00   | 12064.43 | TD at 23594.56                     |



TOTAL DIRECTIONAL SERVICES LLC  
671 Academy Ct, Windsor, CO 80550  
Phone: (970) 460-9402

Plan: Plan #4 (Bus Driver Fed Com 702H/OH)  
Bus Driver/Kaston Fed Com  
Created By: Dustin Ault  
Date: 11:23, April 20 2021  
Approved: \_\_\_\_\_ Date: \_\_\_\_\_

Received by OCD: 5/17/2021 11:03:37 AM



# Franklin Mountain Energy

Lea County, NM (NAD83)  
Bus Driver/Kaston Fed Com  
Bus Driver Fed Com 702H

OH

Plan: Plan #4

## Standard Planning Report

20 April, 2021





## Total Directional Services

### Planning Report



|                  |                            |                                     |                                   |
|------------------|----------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | EDM 5000.15 Single User Db | <b>Local Co-ordinate Reference:</b> | Well Bus Driver Fed Com 702H      |
| <b>Company:</b>  | Franklin Mountain Energy   | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Project:</b>  | Lea County, NM (NAD83)     | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site:</b>     | Bus Driver/Kaston Fed Com  | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | Bus Driver Fed Com 702H    | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | OH                         |                                     |                                   |
| <b>Design:</b>   | Plan #4                    |                                     |                                   |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <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   |                      |                |

| Site                  | Bus Driver/Kaston Fed Com |           |                 |            |                   |        |
|-----------------------|---------------------------|-----------|-----------------|------------|-------------------|--------|
| Site Position:        |                           | Northing: | 394,466.08 usft | Latitude:  | 32.080431         |        |
| From:                 | Map                       | Easting:  | 854,569.39 usft | Longitude: | -103.322008       |        |
| Position Uncertainty: |                           | 0.00 usft | Slot Radius:    | 13-3/16 "  | Grid Convergence: | 0.54 ° |

| Well                 | Bus Driver Fed Com 702H |             |                     |                 |               |               |
|----------------------|-------------------------|-------------|---------------------|-----------------|---------------|---------------|
| Well Position        | +N/-S                   | -0.33 usft  | Northing:           | 394,465.75 usft | Latitude:     | 32.080431     |
|                      | +E/-W                   | -34.99 usft | Easting:            | 854,534.40 usft | Longitude:    | -103.322121   |
| Position Uncertainty |                         | 0.00 usft   | Wellhead Elevation: |                 | Ground Level: | 3,057.50 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> |
|                  | IGRF2015          | 2/25/2020          | 6.53                   | 59.93                | 47,604.65483712            |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Plan #4                        |                     |                      |                      |
| <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                 | 182.64               |

|                                 |                        |                          |                     |                |
|---------------------------------|------------------------|--------------------------|---------------------|----------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b>            | 4/20/2021                |                     |                |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>    | <b>Remarks</b> |
| 1                               | 0.00                   | 23,594.56 Plan #4 (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           |                      |
| 2,688.00                     | 0.00                   | 0.00               | 2,688.00                     | 0.00                | 0.00                | 0.00                           | 0.00                          | 0.00                         | 0.00           |                      |
| 3,281.62                     | 8.90                   | 244.22             | 3,279.24                     | -20.02              | -41.45              | 1.50                           | 1.50                          | 0.00                         | 244.22         |                      |
| 7,411.16                     | 8.90                   | 244.22             | 7,359.00                     | -298.04             | -617.02             | 0.00                           | 0.00                          | 0.00                         | 0.00           |                      |
| 8,004.78                     | 0.00                   | 0.00               | 7,950.24                     | -318.06             | -658.47             | 1.50                           | -1.50                         | 0.00                         | 180.00         |                      |
| 11,532.54                    | 0.00                   | 0.00               | 11,478.00                    | -318.06             | -658.47             | 0.00                           | 0.00                          | 0.00                         | 0.00           |                      |
| 12,425.00                    | 89.25                  | 179.50             | 12,050.91                    | -883.45             | -653.52             | 10.00                          | 10.00                         | 20.11                        | 179.50         |                      |
| 23,594.56                    | 89.25                  | 179.50             | 12,197.93                    | -12,051.62          | -555.73             | 0.00                           | 0.00                          | 0.00                         | 0.00           | PBHL (Bus Driver Fec |



## Total Directional Services

## Planning Report



|                  |                            |                                     |                                   |
|------------------|----------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | EDM 5000.15 Single User Db | <b>Local Co-ordinate Reference:</b> | Well Bus Driver Fed Com 702H      |
| <b>Company:</b>  | Franklin Mountain Energy   | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Project:</b>  | Lea County, NM (NAD83)     | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site:</b>     | Bus Driver/Kaston Fed Com  | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | Bus Driver Fed Com 702H    | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | OH                         |                                     |                                   |
| <b>Design:</b>   | Plan #4                    |                                     |                                   |

| 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 (Bus Driver Fed Com 702H)</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                  |
| 2,100.00                                | 0.00            | 0.00        | 2,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,200.00                                | 0.00            | 0.00        | 2,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,300.00                                | 0.00            | 0.00        | 2,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,400.00                                | 0.00            | 0.00        | 2,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,500.00                                | 0.00            | 0.00        | 2,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,600.00                                | 0.00            | 0.00        | 2,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,688.00                                | 0.00            | 0.00        | 2,688.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Start Build 1.50</b>                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,700.00                                | 0.18            | 244.22      | 2,700.00              | -0.01        | -0.02        | 0.01                    | 1.50                    | 1.50                   | 0.00                  |
| 2,800.00                                | 1.68            | 244.22      | 2,799.98              | -0.71        | -1.48        | 0.78                    | 1.50                    | 1.50                   | 0.00                  |
| 2,900.00                                | 3.18            | 244.22      | 2,899.89              | -2.56        | -5.30        | 2.80                    | 1.50                    | 1.50                   | 0.00                  |
| 3,000.00                                | 4.68            | 244.22      | 2,999.65              | -5.54        | -11.47       | 6.06                    | 1.50                    | 1.50                   | 0.00                  |
| 3,100.00                                | 6.18            | 244.22      | 3,099.20              | -9.65        | -19.99       | 10.57                   | 1.50                    | 1.50                   | 0.00                  |
| 3,200.00                                | 7.68            | 244.22      | 3,198.47              | -14.90       | -30.85       | 16.31                   | 1.50                    | 1.50                   | 0.00                  |
| 3,281.62                                | 8.90            | 244.22      | 3,279.24              | -20.02       | -41.45       | 21.91                   | 1.50                    | 1.50                   | 0.00                  |
| <b>Start 4129.53 hold at 3281.62 MD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,300.00                                | 8.90            | 244.22      | 3,297.39              | -21.26       | -44.01       | 23.26                   | 0.00                    | 0.00                   | 0.00                  |
| 3,400.00                                | 8.90            | 244.22      | 3,396.19              | -27.99       | -57.95       | 30.63                   | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00                                | 8.90            | 244.22      | 3,494.98              | -34.72       | -71.89       | 38.00                   | 0.00                    | 0.00                   | 0.00                  |
| 3,600.00                                | 8.90            | 244.22      | 3,593.78              | -41.46       | -85.83       | 45.37                   | 0.00                    | 0.00                   | 0.00                  |
| 3,700.00                                | 8.90            | 244.22      | 3,692.57              | -48.19       | -99.76       | 52.73                   | 0.00                    | 0.00                   | 0.00                  |
| 3,800.00                                | 8.90            | 244.22      | 3,791.37              | -54.92       | -113.70      | 60.10                   | 0.00                    | 0.00                   | 0.00                  |
| 3,900.00                                | 8.90            | 244.22      | 3,890.16              | -61.65       | -127.64      | 67.47                   | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00                                | 8.90            | 244.22      | 3,988.96              | -68.39       | -141.58      | 74.84                   | 0.00                    | 0.00                   | 0.00                  |
| 4,100.00                                | 8.90            | 244.22      | 4,087.75              | -75.12       | -155.52      | 82.20                   | 0.00                    | 0.00                   | 0.00                  |
| 4,200.00                                | 8.90            | 244.22      | 4,186.55              | -81.85       | -169.45      | 89.57                   | 0.00                    | 0.00                   | 0.00                  |
| 4,300.00                                | 8.90            | 244.22      | 4,285.34              | -88.58       | -183.39      | 96.94                   | 0.00                    | 0.00                   | 0.00                  |
| 4,400.00                                | 8.90            | 244.22      | 4,384.13              | -95.32       | -197.33      | 104.30                  | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00                                | 8.90            | 244.22      | 4,482.93              | -102.05      | -211.27      | 111.67                  | 0.00                    | 0.00                   | 0.00                  |
| 4,600.00                                | 8.90            | 244.22      | 4,581.72              | -108.78      | -225.20      | 119.04                  | 0.00                    | 0.00                   | 0.00                  |
| 4,700.00                                | 8.90            | 244.22      | 4,680.52              | -115.51      | -239.14      | 126.41                  | 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 Bus Driver Fed Com 702H      |
| <b>Company:</b>  | Franklin Mountain Energy   | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Project:</b>  | Lea County, NM (NAD83)     | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site:</b>     | Bus Driver/Kaston Fed Com  | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | Bus Driver Fed Com 702H    | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | OH                         |                                     |                                   |
| <b>Design:</b>   | Plan #4                    |                                     |                                   |

| 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) |
| 4,800.00                                | 8.90            | 244.22      | 4,779.31              | -122.25      | -253.08      | 133.77                  | 0.00                    | 0.00                   | 0.00                  |
| 4,900.00                                | 8.90            | 244.22      | 4,878.11              | -128.98      | -267.02      | 141.14                  | 0.00                    | 0.00                   | 0.00                  |
| 5,000.00                                | 8.90            | 244.22      | 4,976.90              | -135.71      | -280.96      | 148.51                  | 0.00                    | 0.00                   | 0.00                  |
| 5,100.00                                | 8.90            | 244.22      | 5,075.70              | -142.44      | -294.89      | 155.87                  | 0.00                    | 0.00                   | 0.00                  |
| 5,200.00                                | 8.90            | 244.22      | 5,174.49              | -149.17      | -308.83      | 163.24                  | 0.00                    | 0.00                   | 0.00                  |
| 5,300.00                                | 8.90            | 244.22      | 5,273.29              | -155.91      | -322.77      | 170.61                  | 0.00                    | 0.00                   | 0.00                  |
| 5,400.00                                | 8.90            | 244.22      | 5,372.08              | -162.64      | -336.71      | 177.98                  | 0.00                    | 0.00                   | 0.00                  |
| 5,500.00                                | 8.90            | 244.22      | 5,470.88              | -169.37      | -350.64      | 185.34                  | 0.00                    | 0.00                   | 0.00                  |
| 5,600.00                                | 8.90            | 244.22      | 5,569.67              | -176.10      | -364.58      | 192.71                  | 0.00                    | 0.00                   | 0.00                  |
| 5,700.00                                | 8.90            | 244.22      | 5,668.47              | -182.84      | -378.52      | 200.08                  | 0.00                    | 0.00                   | 0.00                  |
| 5,800.00                                | 8.90            | 244.22      | 5,767.26              | -189.57      | -392.46      | 207.45                  | 0.00                    | 0.00                   | 0.00                  |
| 5,900.00                                | 8.90            | 244.22      | 5,866.06              | -196.30      | -406.40      | 214.81                  | 0.00                    | 0.00                   | 0.00                  |
| 6,000.00                                | 8.90            | 244.22      | 5,964.85              | -203.03      | -420.33      | 222.18                  | 0.00                    | 0.00                   | 0.00                  |
| 6,100.00                                | 8.90            | 244.22      | 6,063.65              | -209.77      | -434.27      | 229.55                  | 0.00                    | 0.00                   | 0.00                  |
| 6,200.00                                | 8.90            | 244.22      | 6,162.44              | -216.50      | -448.21      | 236.91                  | 0.00                    | 0.00                   | 0.00                  |
| 6,300.00                                | 8.90            | 244.22      | 6,261.24              | -223.23      | -462.15      | 244.28                  | 0.00                    | 0.00                   | 0.00                  |
| 6,400.00                                | 8.90            | 244.22      | 6,360.03              | -229.96      | -476.08      | 251.65                  | 0.00                    | 0.00                   | 0.00                  |
| 6,500.00                                | 8.90            | 244.22      | 6,458.83              | -236.69      | -490.02      | 259.02                  | 0.00                    | 0.00                   | 0.00                  |
| 6,600.00                                | 8.90            | 244.22      | 6,557.62              | -243.43      | -503.96      | 266.38                  | 0.00                    | 0.00                   | 0.00                  |
| 6,700.00                                | 8.90            | 244.22      | 6,656.42              | -250.16      | -517.90      | 273.75                  | 0.00                    | 0.00                   | 0.00                  |
| 6,800.00                                | 8.90            | 244.22      | 6,755.21              | -256.89      | -531.84      | 281.12                  | 0.00                    | 0.00                   | 0.00                  |
| 6,900.00                                | 8.90            | 244.22      | 6,854.01              | -263.62      | -545.77      | 288.48                  | 0.00                    | 0.00                   | 0.00                  |
| 7,000.00                                | 8.90            | 244.22      | 6,952.80              | -270.36      | -559.71      | 295.85                  | 0.00                    | 0.00                   | 0.00                  |
| 7,100.00                                | 8.90            | 244.22      | 7,051.59              | -277.09      | -573.65      | 303.22                  | 0.00                    | 0.00                   | 0.00                  |
| 7,200.00                                | 8.90            | 244.22      | 7,150.39              | -283.82      | -587.59      | 310.59                  | 0.00                    | 0.00                   | 0.00                  |
| 7,300.00                                | 8.90            | 244.22      | 7,249.18              | -290.55      | -601.52      | 317.95                  | 0.00                    | 0.00                   | 0.00                  |
| 7,400.00                                | 8.90            | 244.22      | 7,347.98              | -297.29      | -615.46      | 325.32                  | 0.00                    | 0.00                   | 0.00                  |
| 7,411.16                                | 8.90            | 244.22      | 7,359.00              | -298.04      | -617.02      | 326.14                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Start Drop -1.50</b>                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,500.00                                | 7.57            | 244.22      | 7,446.93              | -303.57      | -628.48      | 332.20                  | 1.50                    | -1.50                  | 0.00                  |
| 7,600.00                                | 6.07            | 244.22      | 7,546.22              | -308.74      | -639.18      | 337.86                  | 1.50                    | -1.50                  | 0.00                  |
| 7,700.00                                | 4.57            | 244.22      | 7,645.78              | -312.77      | -647.53      | 342.27                  | 1.50                    | -1.50                  | 0.00                  |
| 7,800.00                                | 3.07            | 244.22      | 7,745.56              | -315.67      | -653.53      | 345.44                  | 1.50                    | -1.50                  | 0.00                  |
| 7,900.00                                | 1.57            | 244.22      | 7,845.47              | -317.43      | -657.18      | 347.37                  | 1.50                    | -1.50                  | 0.00                  |
| 8,004.78                                | 0.00            | 0.00        | 7,950.24              | -318.06      | -658.47      | 348.05                  | 1.50                    | -1.50                  | 110.50                |
| <b>Start 3527.76 hold at 8004.78 MD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,100.00                                | 0.00            | 0.00        | 8,045.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 8,200.00                                | 0.00            | 0.00        | 8,145.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 8,300.00                                | 0.00            | 0.00        | 8,245.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 8,400.00                                | 0.00            | 0.00        | 8,345.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 8,500.00                                | 0.00            | 0.00        | 8,445.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 8,600.00                                | 0.00            | 0.00        | 8,545.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 8,700.00                                | 0.00            | 0.00        | 8,645.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 8,800.00                                | 0.00            | 0.00        | 8,745.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 8,900.00                                | 0.00            | 0.00        | 8,845.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 9,000.00                                | 0.00            | 0.00        | 8,945.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 9,100.00                                | 0.00            | 0.00        | 9,045.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 9,200.00                                | 0.00            | 0.00        | 9,145.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 9,300.00                                | 0.00            | 0.00        | 9,245.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 9,400.00                                | 0.00            | 0.00        | 9,345.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 9,500.00                                | 0.00            | 0.00        | 9,445.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 9,600.00                                | 0.00            | 0.00        | 9,545.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 9,700.00                                | 0.00            | 0.00        | 9,645.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 9,800.00                                | 0.00            | 0.00        | 9,745.46              | -318.06      | -658.47      | 348.05                  | 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 Bus Driver Fed Com 702H      |
| <b>Company:</b>  | Franklin Mountain Energy   | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Project:</b>  | Lea County, NM (NAD83)     | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site:</b>     | Bus Driver/Kaston Fed Com  | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | Bus Driver Fed Com 702H    | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | OH                         |                                     |                                   |
| <b>Design:</b>   | Plan #4                    |                                     |                                   |

| 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        | 9,845.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 10,000.00                                                         | 0.00            | 0.00        | 9,945.46              | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 10,100.00                                                         | 0.00            | 0.00        | 10,045.46             | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 10,200.00                                                         | 0.00            | 0.00        | 10,145.46             | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 10,300.00                                                         | 0.00            | 0.00        | 10,245.46             | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 10,400.00                                                         | 0.00            | 0.00        | 10,345.46             | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 10,500.00                                                         | 0.00            | 0.00        | 10,445.46             | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 10,600.00                                                         | 0.00            | 0.00        | 10,545.46             | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 10,700.00                                                         | 0.00            | 0.00        | 10,645.46             | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 10,800.00                                                         | 0.00            | 0.00        | 10,745.46             | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 10,900.00                                                         | 0.00            | 0.00        | 10,845.46             | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 11,000.00                                                         | 0.00            | 0.00        | 10,945.46             | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 11,100.00                                                         | 0.00            | 0.00        | 11,045.46             | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 11,200.00                                                         | 0.00            | 0.00        | 11,145.46             | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 11,300.00                                                         | 0.00            | 0.00        | 11,245.46             | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 11,400.00                                                         | 0.00            | 0.00        | 11,345.46             | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 11,500.00                                                         | 0.00            | 0.00        | 11,445.46             | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| 11,532.54                                                         | 0.00            | 0.00        | 11,478.00             | -318.06      | -658.47      | 348.05                  | 0.00                    | 0.00                   | 0.00                  |
| Start DLS 10.00 TFO 179.50                                        |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,550.00                                                         | 1.75            | 179.50      | 11,495.46             | -318.33      | -658.47      | 348.32                  | 10.00                   | 10.00                  | 0.00                  |
| 11,600.00                                                         | 6.75            | 179.50      | 11,545.30             | -322.03      | -658.44      | 352.01                  | 10.00                   | 10.00                  | 0.00                  |
| 11,650.00                                                         | 11.75           | 179.50      | 11,594.64             | -330.06      | -658.36      | 360.03                  | 10.00                   | 10.00                  | 0.00                  |
| 11,700.00                                                         | 16.75           | 179.50      | 11,643.08             | -342.36      | -658.26      | 372.31                  | 10.00                   | 10.00                  | 0.00                  |
| 11,750.00                                                         | 21.75           | 179.50      | 11,690.27             | -358.83      | -658.11      | 388.77                  | 10.00                   | 10.00                  | 0.00                  |
| 11,800.00                                                         | 26.75           | 179.50      | 11,735.85             | -379.36      | -657.93      | 409.26                  | 10.00                   | 10.00                  | 0.00                  |
| 11,850.00                                                         | 31.75           | 179.50      | 11,779.46             | -403.78      | -657.72      | 433.64                  | 10.00                   | 10.00                  | 0.00                  |
| 11,900.00                                                         | 36.75           | 179.50      | 11,820.78             | -431.90      | -657.47      | 461.73                  | 10.00                   | 10.00                  | 0.00                  |
| 11,950.00                                                         | 41.75           | 179.50      | 11,859.49             | -463.52      | -657.20      | 493.31                  | 10.00                   | 10.00                  | 0.00                  |
| 12,000.00                                                         | 46.75           | 179.50      | 11,895.30             | -498.40      | -656.89      | 528.13                  | 10.00                   | 10.00                  | 0.00                  |
| 12,050.00                                                         | 51.75           | 179.50      | 11,927.93             | -536.26      | -656.56      | 565.94                  | 10.00                   | 10.00                  | 0.00                  |
| 12,100.00                                                         | 56.75           | 179.50      | 11,957.13             | -576.82      | -656.20      | 606.44                  | 10.00                   | 10.00                  | 0.00                  |
| 12,150.00                                                         | 61.75           | 179.50      | 11,982.69             | -619.78      | -655.83      | 649.33                  | 10.00                   | 10.00                  | 0.00                  |
| 12,200.00                                                         | 66.75           | 179.50      | 12,004.41             | -664.79      | -655.43      | 694.28                  | 10.00                   | 10.00                  | 0.00                  |
| 12,250.00                                                         | 71.75           | 179.50      | 12,022.12             | -711.53      | -655.02      | 740.95                  | 10.00                   | 10.00                  | 0.00                  |
| 12,300.00                                                         | 76.75           | 179.50      | 12,035.70             | -759.64      | -654.60      | 788.98                  | 10.00                   | 10.00                  | 0.00                  |
| 12,350.00                                                         | 81.75           | 179.50      | 12,045.02             | -808.74      | -654.17      | 838.02                  | 10.00                   | 10.00                  | 0.00                  |
| 12,400.00                                                         | 86.75           | 179.50      | 12,050.03             | -858.47      | -653.74      | 887.67                  | 10.00                   | 10.00                  | 0.00                  |
| 12,425.00                                                         | 89.25           | 179.50      | 12,050.91             | -883.45      | -653.52      | 912.62                  | 10.00                   | 10.00                  | 0.00                  |
| Start 11169.56 hold at 12425.00 MD - LP (Bus Driver Fed Com 702H) |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,500.00                                                         | 89.25           | 179.50      | 12,051.90             | -958.44      | -652.86      | 987.50                  | 0.00                    | 0.00                   | 0.00                  |
| 12,600.00                                                         | 89.25           | 179.50      | 12,053.21             | -1,058.43    | -651.99      | 1,087.34                | 0.00                    | 0.00                   | 0.00                  |
| 12,700.00                                                         | 89.25           | 179.50      | 12,054.53             | -1,158.42    | -651.11      | 1,187.18                | 0.00                    | 0.00                   | 0.00                  |
| 12,800.00                                                         | 89.25           | 179.50      | 12,055.84             | -1,258.41    | -650.24      | 1,287.02                | 0.00                    | 0.00                   | 0.00                  |
| 12,900.00                                                         | 89.25           | 179.50      | 12,057.16             | -1,358.39    | -649.36      | 1,386.86                | 0.00                    | 0.00                   | 0.00                  |
| 13,000.00                                                         | 89.25           | 179.50      | 12,058.48             | -1,458.38    | -648.49      | 1,486.71                | 0.00                    | 0.00                   | 0.00                  |
| 13,100.00                                                         | 89.25           | 179.50      | 12,059.79             | -1,558.37    | -647.61      | 1,586.55                | 0.00                    | 0.00                   | 0.00                  |
| 13,200.00                                                         | 89.25           | 179.50      | 12,061.11             | -1,658.36    | -646.73      | 1,686.39                | 0.00                    | 0.00                   | 0.00                  |
| 13,300.00                                                         | 89.25           | 179.50      | 12,062.43             | -1,758.34    | -645.86      | 1,786.23                | 0.00                    | 0.00                   | 0.00                  |
| 13,400.00                                                         | 89.25           | 179.50      | 12,063.74             | -1,858.33    | -644.98      | 1,886.07                | 0.00                    | 0.00                   | 0.00                  |
| 13,500.00                                                         | 89.25           | 179.50      | 12,065.06             | -1,958.32    | -644.11      | 1,985.91                | 0.00                    | 0.00                   | 0.00                  |
| 13,600.00                                                         | 89.25           | 179.50      | 12,066.37             | -2,058.31    | -643.23      | 2,085.75                | 0.00                    | 0.00                   | 0.00                  |
| 13,700.00                                                         | 89.25           | 179.50      | 12,067.69             | -2,158.29    | -642.36      | 2,185.59                | 0.00                    | 0.00                   | 0.00                  |
| 13,800.00                                                         | 89.25           | 179.50      | 12,069.01             | -2,258.28    | -641.48      | 2,285.43                | 0.00                    | 0.00                   | 0.00                  |
| 13,900.00                                                         | 89.25           | 179.50      | 12,070.32             | -2,358.27    | -640.61      | 2,385.28                | 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 Bus Driver Fed Com 702H      |
| <b>Company:</b>  | Franklin Mountain Energy   | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Project:</b>  | Lea County, NM (NAD83)     | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site:</b>     | Bus Driver/Kaston Fed Com  | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | Bus Driver Fed Com 702H    | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | OH                         |                                     |                                   |
| <b>Design:</b>   | Plan #4                    |                                     |                                   |

| 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) |
| 14,000.00             | 89.25           | 179.50      | 12,071.64             | -2,458.26    | -639.73      | 2,485.12                | 0.00                    | 0.00                   | 0.00                  |
| 14,100.00             | 89.25           | 179.50      | 12,072.96             | -2,558.24    | -638.85      | 2,584.96                | 0.00                    | 0.00                   | 0.00                  |
| 14,200.00             | 89.25           | 179.50      | 12,074.27             | -2,658.23    | -637.98      | 2,684.80                | 0.00                    | 0.00                   | 0.00                  |
| 14,300.00             | 89.25           | 179.50      | 12,075.59             | -2,758.22    | -637.10      | 2,784.64                | 0.00                    | 0.00                   | 0.00                  |
| 14,400.00             | 89.25           | 179.50      | 12,076.90             | -2,858.21    | -636.23      | 2,884.48                | 0.00                    | 0.00                   | 0.00                  |
| 14,500.00             | 89.25           | 179.50      | 12,078.22             | -2,958.19    | -635.35      | 2,984.32                | 0.00                    | 0.00                   | 0.00                  |
| 14,600.00             | 89.25           | 179.50      | 12,079.54             | -3,058.18    | -634.48      | 3,084.16                | 0.00                    | 0.00                   | 0.00                  |
| 14,700.00             | 89.25           | 179.50      | 12,080.85             | -3,158.17    | -633.60      | 3,184.00                | 0.00                    | 0.00                   | 0.00                  |
| 14,800.00             | 89.25           | 179.50      | 12,082.17             | -3,258.16    | -632.73      | 3,283.84                | 0.00                    | 0.00                   | 0.00                  |
| 14,900.00             | 89.25           | 179.50      | 12,083.49             | -3,358.14    | -631.85      | 3,383.69                | 0.00                    | 0.00                   | 0.00                  |
| 15,000.00             | 89.25           | 179.50      | 12,084.80             | -3,458.13    | -630.98      | 3,483.53                | 0.00                    | 0.00                   | 0.00                  |
| 15,100.00             | 89.25           | 179.50      | 12,086.12             | -3,558.12    | -630.10      | 3,583.37                | 0.00                    | 0.00                   | 0.00                  |
| 15,200.00             | 89.25           | 179.50      | 12,087.43             | -3,658.11    | -629.22      | 3,683.21                | 0.00                    | 0.00                   | 0.00                  |
| 15,300.00             | 89.25           | 179.50      | 12,088.75             | -3,758.09    | -628.35      | 3,783.05                | 0.00                    | 0.00                   | 0.00                  |
| 15,400.00             | 89.25           | 179.50      | 12,090.07             | -3,858.08    | -627.47      | 3,882.89                | 0.00                    | 0.00                   | 0.00                  |
| 15,500.00             | 89.25           | 179.50      | 12,091.38             | -3,958.07    | -626.60      | 3,982.73                | 0.00                    | 0.00                   | 0.00                  |
| 15,600.00             | 89.25           | 179.50      | 12,092.70             | -4,058.06    | -625.72      | 4,082.57                | 0.00                    | 0.00                   | 0.00                  |
| 15,700.00             | 89.25           | 179.50      | 12,094.02             | -4,158.04    | -624.85      | 4,182.41                | 0.00                    | 0.00                   | 0.00                  |
| 15,800.00             | 89.25           | 179.50      | 12,095.33             | -4,258.03    | -623.97      | 4,282.25                | 0.00                    | 0.00                   | 0.00                  |
| 15,900.00             | 89.25           | 179.50      | 12,096.65             | -4,358.02    | -623.10      | 4,382.10                | 0.00                    | 0.00                   | 0.00                  |
| 16,000.00             | 89.25           | 179.50      | 12,097.97             | -4,458.01    | -622.22      | 4,481.94                | 0.00                    | 0.00                   | 0.00                  |
| 16,100.00             | 89.25           | 179.50      | 12,099.28             | -4,557.99    | -621.34      | 4,581.78                | 0.00                    | 0.00                   | 0.00                  |
| 16,200.00             | 89.25           | 179.50      | 12,100.60             | -4,657.98    | -620.47      | 4,681.62                | 0.00                    | 0.00                   | 0.00                  |
| 16,300.00             | 89.25           | 179.50      | 12,101.91             | -4,757.97    | -619.59      | 4,781.46                | 0.00                    | 0.00                   | 0.00                  |
| 16,400.00             | 89.25           | 179.50      | 12,103.23             | -4,857.96    | -618.72      | 4,881.30                | 0.00                    | 0.00                   | 0.00                  |
| 16,500.00             | 89.25           | 179.50      | 12,104.55             | -4,957.94    | -617.84      | 4,981.14                | 0.00                    | 0.00                   | 0.00                  |
| 16,600.00             | 89.25           | 179.50      | 12,105.86             | -5,057.93    | -616.97      | 5,080.98                | 0.00                    | 0.00                   | 0.00                  |
| 16,700.00             | 89.25           | 179.50      | 12,107.18             | -5,157.92    | -616.09      | 5,180.82                | 0.00                    | 0.00                   | 0.00                  |
| 16,800.00             | 89.25           | 179.50      | 12,108.50             | -5,257.91    | -615.22      | 5,280.67                | 0.00                    | 0.00                   | 0.00                  |
| 16,900.00             | 89.25           | 179.50      | 12,109.81             | -5,357.90    | -614.34      | 5,380.51                | 0.00                    | 0.00                   | 0.00                  |
| 17,000.00             | 89.25           | 179.50      | 12,111.13             | -5,457.88    | -613.47      | 5,480.35                | 0.00                    | 0.00                   | 0.00                  |
| 17,100.00             | 89.25           | 179.50      | 12,112.44             | -5,557.87    | -612.59      | 5,580.19                | 0.00                    | 0.00                   | 0.00                  |
| 17,200.00             | 89.25           | 179.50      | 12,113.76             | -5,657.86    | -611.71      | 5,680.03                | 0.00                    | 0.00                   | 0.00                  |
| 17,300.00             | 89.25           | 179.50      | 12,115.08             | -5,757.85    | -610.84      | 5,779.87                | 0.00                    | 0.00                   | 0.00                  |
| 17,400.00             | 89.25           | 179.50      | 12,116.39             | -5,857.83    | -609.96      | 5,879.71                | 0.00                    | 0.00                   | 0.00                  |
| 17,500.00             | 89.25           | 179.50      | 12,117.71             | -5,957.82    | -609.09      | 5,979.55                | 0.00                    | 0.00                   | 0.00                  |
| 17,600.00             | 89.25           | 179.50      | 12,119.03             | -6,057.81    | -608.21      | 6,079.39                | 0.00                    | 0.00                   | 0.00                  |
| 17,700.00             | 89.25           | 179.50      | 12,120.34             | -6,157.80    | -607.34      | 6,179.23                | 0.00                    | 0.00                   | 0.00                  |
| 17,800.00             | 89.25           | 179.50      | 12,121.66             | -6,257.78    | -606.46      | 6,279.08                | 0.00                    | 0.00                   | 0.00                  |
| 17,900.00             | 89.25           | 179.50      | 12,122.97             | -6,357.77    | -605.59      | 6,378.92                | 0.00                    | 0.00                   | 0.00                  |
| 18,000.00             | 89.25           | 179.50      | 12,124.29             | -6,457.76    | -604.71      | 6,478.76                | 0.00                    | 0.00                   | 0.00                  |
| 18,100.00             | 89.25           | 179.50      | 12,125.61             | -6,557.75    | -603.83      | 6,578.60                | 0.00                    | 0.00                   | 0.00                  |
| 18,200.00             | 89.25           | 179.50      | 12,126.92             | -6,657.73    | -602.96      | 6,678.44                | 0.00                    | 0.00                   | 0.00                  |
| 18,300.00             | 89.25           | 179.50      | 12,128.24             | -6,757.72    | -602.08      | 6,778.28                | 0.00                    | 0.00                   | 0.00                  |
| 18,400.00             | 89.25           | 179.50      | 12,129.56             | -6,857.71    | -601.21      | 6,878.12                | 0.00                    | 0.00                   | 0.00                  |
| 18,500.00             | 89.25           | 179.50      | 12,130.87             | -6,957.70    | -600.33      | 6,977.96                | 0.00                    | 0.00                   | 0.00                  |
| 18,600.00             | 89.25           | 179.50      | 12,132.19             | -7,057.68    | -599.46      | 7,077.80                | 0.00                    | 0.00                   | 0.00                  |
| 18,700.00             | 89.25           | 179.50      | 12,133.50             | -7,157.67    | -598.58      | 7,177.65                | 0.00                    | 0.00                   | 0.00                  |
| 18,800.00             | 89.25           | 179.50      | 12,134.82             | -7,257.66    | -597.71      | 7,277.49                | 0.00                    | 0.00                   | 0.00                  |
| 18,900.00             | 89.25           | 179.50      | 12,136.14             | -7,357.65    | -596.83      | 7,377.33                | 0.00                    | 0.00                   | 0.00                  |
| 19,000.00             | 89.25           | 179.50      | 12,137.45             | -7,457.63    | -595.96      | 7,477.17                | 0.00                    | 0.00                   | 0.00                  |
| 19,100.00             | 89.25           | 179.50      | 12,138.77             | -7,557.62    | -595.08      | 7,577.01                | 0.00                    | 0.00                   | 0.00                  |
| 19,200.00             | 89.25           | 179.50      | 12,140.09             | -7,657.61    | -594.20      | 7,676.85                | 0.00                    | 0.00                   | 0.00                  |
| 19,300.00             | 89.25           | 179.50      | 12,141.40             | -7,757.60    | -593.33      | 7,776.69                | 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 Bus Driver Fed Com 702H      |
| <b>Company:</b>  | Franklin Mountain Energy   | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Project:</b>  | Lea County, NM (NAD83)     | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site:</b>     | Bus Driver/Kaston Fed Com  | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | Bus Driver Fed Com 702H    | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | OH                         |                                     |                                   |
| <b>Design:</b>   | Plan #4                    |                                     |                                   |

| 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) |  |
| 19,400.00                                       | 89.25           | 179.50      | 12,142.72             | -7,857.58    | -592.45      | 7,876.53                | 0.00                    | 0.00                   | 0.00                  |  |
| 19,500.00                                       | 89.25           | 179.50      | 12,144.03             | -7,957.57    | -591.58      | 7,976.37                | 0.00                    | 0.00                   | 0.00                  |  |
| 19,600.00                                       | 89.25           | 179.50      | 12,145.35             | -8,057.56    | -590.70      | 8,076.21                | 0.00                    | 0.00                   | 0.00                  |  |
| 19,700.00                                       | 89.25           | 179.50      | 12,146.67             | -8,157.55    | -589.83      | 8,176.06                | 0.00                    | 0.00                   | 0.00                  |  |
| 19,800.00                                       | 89.25           | 179.50      | 12,147.98             | -8,257.53    | -588.95      | 8,275.90                | 0.00                    | 0.00                   | 0.00                  |  |
| 19,900.00                                       | 89.25           | 179.50      | 12,149.30             | -8,357.52    | -588.08      | 8,375.74                | 0.00                    | 0.00                   | 0.00                  |  |
| 20,000.00                                       | 89.25           | 179.50      | 12,150.62             | -8,457.51    | -587.20      | 8,475.58                | 0.00                    | 0.00                   | 0.00                  |  |
| 20,100.00                                       | 89.25           | 179.50      | 12,151.93             | -8,557.50    | -586.32      | 8,575.42                | 0.00                    | 0.00                   | 0.00                  |  |
| 20,200.00                                       | 89.25           | 179.50      | 12,153.25             | -8,657.48    | -585.45      | 8,675.26                | 0.00                    | 0.00                   | 0.00                  |  |
| 20,300.00                                       | 89.25           | 179.50      | 12,154.56             | -8,757.47    | -584.57      | 8,775.10                | 0.00                    | 0.00                   | 0.00                  |  |
| 20,400.00                                       | 89.25           | 179.50      | 12,155.88             | -8,857.46    | -583.70      | 8,874.94                | 0.00                    | 0.00                   | 0.00                  |  |
| 20,500.00                                       | 89.25           | 179.50      | 12,157.20             | -8,957.45    | -582.82      | 8,974.78                | 0.00                    | 0.00                   | 0.00                  |  |
| 20,600.00                                       | 89.25           | 179.50      | 12,158.51             | -9,057.43    | -581.95      | 9,074.62                | 0.00                    | 0.00                   | 0.00                  |  |
| 20,700.00                                       | 89.25           | 179.50      | 12,159.83             | -9,157.42    | -581.07      | 9,174.47                | 0.00                    | 0.00                   | 0.00                  |  |
| 20,800.00                                       | 89.25           | 179.50      | 12,161.15             | -9,257.41    | -580.20      | 9,274.31                | 0.00                    | 0.00                   | 0.00                  |  |
| 20,900.00                                       | 89.25           | 179.50      | 12,162.46             | -9,357.40    | -579.32      | 9,374.15                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,000.00                                       | 89.25           | 179.50      | 12,163.78             | -9,457.38    | -578.45      | 9,473.99                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,100.00                                       | 89.25           | 179.50      | 12,165.10             | -9,557.37    | -577.57      | 9,573.83                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,200.00                                       | 89.25           | 179.50      | 12,166.41             | -9,657.36    | -576.69      | 9,673.67                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,300.00                                       | 89.25           | 179.50      | 12,167.73             | -9,757.35    | -575.82      | 9,773.51                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,400.00                                       | 89.25           | 179.50      | 12,169.04             | -9,857.33    | -574.94      | 9,873.35                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,500.00                                       | 89.25           | 179.50      | 12,170.36             | -9,957.32    | -574.07      | 9,973.19                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,600.00                                       | 89.25           | 179.50      | 12,171.68             | -10,057.31   | -573.19      | 10,073.04               | 0.00                    | 0.00                   | 0.00                  |  |
| 21,700.00                                       | 89.25           | 179.50      | 12,172.99             | -10,157.30   | -572.32      | 10,172.88               | 0.00                    | 0.00                   | 0.00                  |  |
| 21,800.00                                       | 89.25           | 179.50      | 12,174.31             | -10,257.28   | -571.44      | 10,272.72               | 0.00                    | 0.00                   | 0.00                  |  |
| 21,900.00                                       | 89.25           | 179.50      | 12,175.63             | -10,357.27   | -570.57      | 10,372.56               | 0.00                    | 0.00                   | 0.00                  |  |
| 22,000.00                                       | 89.25           | 179.50      | 12,176.94             | -10,457.26   | -569.69      | 10,472.40               | 0.00                    | 0.00                   | 0.00                  |  |
| 22,100.00                                       | 89.25           | 179.50      | 12,178.26             | -10,557.25   | -568.81      | 10,572.24               | 0.00                    | 0.00                   | 0.00                  |  |
| 22,200.00                                       | 89.25           | 179.50      | 12,179.57             | -10,657.23   | -567.94      | 10,672.08               | 0.00                    | 0.00                   | 0.00                  |  |
| 22,300.00                                       | 89.25           | 179.50      | 12,180.89             | -10,757.22   | -567.06      | 10,771.92               | 0.00                    | 0.00                   | 0.00                  |  |
| 22,400.00                                       | 89.25           | 179.50      | 12,182.21             | -10,857.21   | -566.19      | 10,871.76               | 0.00                    | 0.00                   | 0.00                  |  |
| 22,500.00                                       | 89.25           | 179.50      | 12,183.52             | -10,957.20   | -565.31      | 10,971.60               | 0.00                    | 0.00                   | 0.00                  |  |
| 22,600.00                                       | 89.25           | 179.50      | 12,184.84             | -11,057.18   | -564.44      | 11,071.45               | 0.00                    | 0.00                   | 0.00                  |  |
| 22,700.00                                       | 89.25           | 179.50      | 12,186.16             | -11,157.17   | -563.56      | 11,171.29               | 0.00                    | 0.00                   | 0.00                  |  |
| 22,800.00                                       | 89.25           | 179.50      | 12,187.47             | -11,257.16   | -562.69      | 11,271.13               | 0.00                    | 0.00                   | 0.00                  |  |
| 22,900.00                                       | 89.25           | 179.50      | 12,188.79             | -11,357.15   | -561.81      | 11,370.97               | 0.00                    | 0.00                   | 0.00                  |  |
| 23,000.00                                       | 89.25           | 179.50      | 12,190.10             | -11,457.13   | -560.94      | 11,470.81               | 0.00                    | 0.00                   | 0.00                  |  |
| 23,100.00                                       | 89.25           | 179.50      | 12,191.42             | -11,557.12   | -560.06      | 11,570.65               | 0.00                    | 0.00                   | 0.00                  |  |
| 23,200.00                                       | 89.25           | 179.50      | 12,192.74             | -11,657.11   | -559.18      | 11,670.49               | 0.00                    | 0.00                   | 0.00                  |  |
| 23,300.00                                       | 89.25           | 179.50      | 12,194.05             | -11,757.10   | -558.31      | 11,770.33               | 0.00                    | 0.00                   | 0.00                  |  |
| 23,400.00                                       | 89.25           | 179.50      | 12,195.37             | -11,857.08   | -557.43      | 11,870.17               | 0.00                    | 0.00                   | 0.00                  |  |
| 23,500.00                                       | 89.25           | 179.50      | 12,196.69             | -11,957.07   | -556.56      | 11,970.02               | 0.00                    | 0.00                   | 0.00                  |  |
| 23,594.56                                       | 89.25           | 179.50      | 12,197.93             | -12,051.62   | -555.73      | 12,064.43               | 0.00                    | 0.00                   | 0.00                  |  |
| TD at 23594.56 - PBHL (Bus Driver Fed Com 702H) |                 |             |                       |              |              |                         |                         |                        |                       |  |



## Total Directional Services

### Planning Report



|                  |                            |                                     |                                   |
|------------------|----------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | EDM 5000.15 Single User Db | <b>Local Co-ordinate Reference:</b> | Well Bus Driver Fed Com 702H      |
| <b>Company:</b>  | Franklin Mountain Energy   | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Project:</b>  | Lea County, NM (NAD83)     | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site:</b>     | Bus Driver/Kaston Fed Com  | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | Bus Driver Fed Com 702H    | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | OH                         |                                     |                                   |
| <b>Design:</b>   | Plan #4                    |                                     |                                   |

| Design Targets                                                 |                  |                 |               |                 |                 |                    |                   |           |             |
|----------------------------------------------------------------|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|-----------|-------------|
| Target Name<br>- hit/miss target<br>- Shape                    | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude  | Longitude   |
| SHL (Bus Driver Fed Co<br>- plan hits target center<br>- Point | 0.00             | 0.00            | 0.00          | 0.00            | 0.00            | 394,465.75         | 854,534.40        | 32.080431 | -103.322121 |
| LP (Bus Driver Fed Com<br>- plan hits target center<br>- Point | 0.00             | 0.00            | 12,050.91     | -883.45         | -653.52         | 393,582.30         | 853,880.88        | 32.078019 | -103.324258 |
| PBHL (Bus Driver Fed C<br>- plan hits target center<br>- Point | 0.00             | 0.00            | 12,197.93     | -12,051.62      | -555.73         | 382,414.13         | 853,978.67        | 32.047320 | -103.324279 |

| Plan Annotations            |                             |                   |                 |                                    |  |
|-----------------------------|-----------------------------|-------------------|-----------------|------------------------------------|--|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 |                                    |  |
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) | Comment                            |  |
| 2,688.00                    | 2,688.00                    | 0.00              | 0.00            | Start Build 1.50                   |  |
| 3,281.62                    | 3,279.24                    | -20.02            | -41.45          | Start 4129.53 hold at 3281.62 MD   |  |
| 7,411.16                    | 7,359.00                    | -298.04           | -617.02         | Start Drop -1.50                   |  |
| 8,004.78                    | 7,950.24                    | -318.06           | -658.47         | Start 3527.76 hold at 8004.78 MD   |  |
| 11,532.54                   | 11,478.00                   | -318.06           | -658.47         | Start DLS 10.00 TFO 179.50         |  |
| 12,425.00                   | 12,050.91                   | -883.45           | -653.52         | Start 11169.56 hold at 12425.00 MD |  |
| 23,594.56                   | 12,197.93                   | -12,051.62        | -555.73         | TD at 23594.56                     |  |



# Franklin Mountain Energy

Lea County, NM (NAD83)  
Bus Driver/Kaston Fed Com  
Bus Driver Fed Com 702H

OH  
Plan #4

## Anticollision Report

20 April, 2021





## Total Directional Services

### Anticollision Report



|                           |                           |                                     |                                   |
|---------------------------|---------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy  | <b>Local Co-ordinate Reference:</b> | Well Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <b>Offset TVD Reference:</b>        | Offset Datum                      |

|                                     |                                                                     |
|-------------------------------------|---------------------------------------------------------------------|
| <b>Reference</b>                    | Plan #4                                                             |
| <b>Filter type:</b>                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |
| <b>Interpolation Method:</b>        | Stations                                                            |
| <b>Depth Range:</b>                 | Unlimited                                                           |
| <b>Results Limited by:</b>          | Maximum ellipse separation of 1,000.00 usft                         |
| <b>Warning Levels Evaluated at:</b> | 2.00 Sigma                                                          |
| <b>Error Model:</b>                 | ISCWSA                                                              |
| <b>Scan Method:</b>                 | Closest Approach 3D                                                 |
| <b>Error Surface:</b>               | Combined Separation                                                 |
| <b>Casing Method:</b>               | Not applied                                                         |

|                            |                  |                          |
|----------------------------|------------------|--------------------------|
| <b>Survey Tool Program</b> | Date             | 4/20/2021                |
| <b>From (usft)</b>         | <b>To (usft)</b> | <b>Survey (Wellbore)</b> |
| 0.00                       | 23,594.56        | Plan #4 (OH)             |
|                            |                  | <b>Tool Name</b>         |
|                            |                  | OWSG (Rev2) MWD          |
|                            |                  | <b>Description</b>       |
|                            |                  | 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          |                                 |                              |                                 |                                  |                   |         |
| Bus Driver/Kaston Fed Com                |                                 |                              |                                 |                                  |                   |         |
| Bus Driver Fed Com 602H - OH - Plan #4   | 2,688.00                        | 2,688.00                     | 34.99                           | 21.69                            | 2.631             | CC      |
| Bus Driver Fed Com 602H - OH - Plan #4   | 2,700.00                        | 2,700.00                     | 35.01                           | 21.65                            | 2.621             | ES      |
| Bus Driver Fed Com 602H - OH - Plan #4   | 23,589.42                       | 23,388.53                    | 480.95                          | 212.51                           | 1.792             | SF      |
| Kaston Fed Com 603H - OH - Plan #5       | 2,688.00                        | 2,688.00                     | 104.98                          | 91.69                            | 7.895             | CC      |
| Kaston Fed Com 603H - OH - Plan #5       | 2,700.00                        | 2,699.73                     | 105.02                          | 91.66                            | 7.863             | ES      |
| Kaston Fed Com 603H - OH - Plan #5       | 23,594.56                       | 23,411.94                    | 1,571.98                        | 1,286.11                         | 5.499             | SF      |
| Kaston Fed Com 703H - OH - Plan #4       | 2,688.00                        | 2,688.00                     | 69.98                           | 56.69                            | 5.263             | CC      |
| Kaston Fed Com 703H - OH - Plan #4       | 2,700.00                        | 2,700.00                     | 70.00                           | 56.64                            | 5.241             | ES      |
| Kaston Fed Com 703H - OH - Plan #4       | 23,594.56                       | 23,679.99                    | 993.82                          | 708.86                           | 3.488             | SF      |
| Judge Baylor Fed Com                     |                                 |                              |                                 |                                  |                   |         |
| Judge Baylor Fed Com 601H - OH - Plan #3 | 7,818.48                        | 7,720.98                     | 1,327.05                        | 1,288.03                         | 34.007            | CC      |
| Judge Baylor Fed Com 601H - OH - Plan #3 | 22,300.00                       | 22,130.50                    | 1,358.05                        | 1,102.40                         | 5.312             | ES, SF  |
| Judge Baylor Fed Com 701H - OH - Plan #3 | 11,558.55                       | 11,521.74                    | 1,040.48                        | 983.04                           | 18.116            | CC      |
| Judge Baylor Fed Com 701H - OH - Plan #3 | 22,300.00                       | 22,424.01                    | 1,053.57                        | 799.99                           | 4.155             | ES, SF  |
| LHS Wildcat Fed Com                      |                                 |                              |                                 |                                  |                   |         |
| LHS Wildcat Fed Com 604H - OH - Plan #3  | 2,688.00                        | 2,653.00                     | 2,389.21                        | 2,375.99                         | 180.722           | CC      |
| LHS Wildcat Fed Com 604H - OH - Plan #3  | 2,700.00                        | 2,665.00                     | 2,389.23                        | 2,375.95                         | 179.911           | ES      |
| LHS Wildcat Fed Com 604H - OH - Plan #3  | 22,400.00                       | 22,051.09                    | 2,909.28                        | 2,652.53                         | 11.331            | SF      |
| LHS Wildcat Fed Com 705H - OH - Plan #3  | 2,688.00                        | 2,653.40                     | 2,424.20                        | 2,410.98                         | 183.355           | CC      |
| LHS Wildcat Fed Com 705H - OH - Plan #3  | 2,700.00                        | 2,665.40                     | 2,424.22                        | 2,410.94                         | 182.532           | ES      |
| LHS Wildcat Fed Com 705H - OH - Plan #3  | 22,500.00                       | 22,259.70                    | 3,244.22                        | 2,986.38                         | 12.583            | SF      |

| <b>Offset Design</b>   | Bus Driver/Kaston Fed Com - Bus Driver Fed Com 602H - OH - Plan #4 |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <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         |           |
| 0.00                   | 0.00                                                               | 0.00                  | 0.00                  | 0.00             | 0.00          | 89.46                 | 0.33                                | 34.99        | 34.99                  |                         |                           |                           |           |
| 100.00                 | 100.00                                                             | 100.00                | 100.00                | 0.13             | 0.13          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 34.81                   | 0.18                      | 197.208                   |           |
| 200.00                 | 200.00                                                             | 200.00                | 200.00                | 0.48             | 0.48          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 34.31                   | 0.68                      | 51.128                    |           |
| 300.00                 | 300.00                                                             | 300.00                | 300.00                | 0.84             | 0.84          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 33.80                   | 1.19                      | 29.371                    |           |
| 400.00                 | 400.00                                                             | 400.00                | 400.00                | 1.20             | 1.20          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 33.29                   | 1.70                      | 20.604                    |           |
| 500.00                 | 500.00                                                             | 500.00                | 500.00                | 1.56             | 1.56          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 32.79                   | 2.21                      | 15.867                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 600.00                            | 600.00                | 600.00                | 600.00                | 1.92             | 1.92          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 32.28                   | 2.71                      | 12.901            |                    |           |
| 700.00                            | 700.00                | 700.00                | 700.00                | 2.28             | 2.28          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 31.77                   | 3.22                      | 10.870            |                    |           |
| 800.00                            | 800.00                | 800.00                | 800.00                | 2.63             | 2.63          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 31.27                   | 3.73                      | 9.391             |                    |           |
| 900.00                            | 900.00                | 900.00                | 900.00                | 2.99             | 2.99          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 30.76                   | 4.23                      | 8.266             |                    |           |
| 1,000.00                          | 1,000.00              | 1,000.00              | 1,000.00              | 3.35             | 3.35          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 30.25                   | 4.74                      | 7.382             |                    |           |
| 1,100.00                          | 1,100.00              | 1,100.00              | 1,100.00              | 3.71             | 3.71          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 29.74                   | 5.25                      | 6.669             |                    |           |
| 1,200.00                          | 1,200.00              | 1,200.00              | 1,200.00              | 4.07             | 4.07          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 29.24                   | 5.75                      | 6.081             |                    |           |
| 1,300.00                          | 1,300.00              | 1,300.00              | 1,300.00              | 4.43             | 4.43          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 28.73                   | 6.26                      | 5.589             |                    |           |
| 1,400.00                          | 1,400.00              | 1,400.00              | 1,400.00              | 4.79             | 4.79          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 28.22                   | 6.77                      | 5.170             |                    |           |
| 1,500.00                          | 1,500.00              | 1,500.00              | 1,500.00              | 5.14             | 5.14          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 27.72                   | 7.27                      | 4.810             |                    |           |
| 1,600.00                          | 1,600.00              | 1,600.00              | 1,600.00              | 5.50             | 5.50          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 27.21                   | 7.78                      | 4.497             |                    |           |
| 1,700.00                          | 1,700.00              | 1,700.00              | 1,700.00              | 5.86             | 5.86          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 26.70                   | 8.29                      | 4.222             |                    |           |
| 1,800.00                          | 1,800.00              | 1,800.00              | 1,800.00              | 6.22             | 6.22          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 26.20                   | 8.80                      | 3.978             |                    |           |
| 1,900.00                          | 1,900.00              | 1,900.00              | 1,900.00              | 6.58             | 6.58          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 25.69                   | 9.30                      | 3.761             |                    |           |
| 2,000.00                          | 2,000.00              | 2,000.00              | 2,000.00              | 6.94             | 6.94          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 25.18                   | 9.81                      | 3.567             |                    |           |
| 2,100.00                          | 2,100.00              | 2,100.00              | 2,100.00              | 7.29             | 7.29          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 24.68                   | 10.32                     | 3.392             |                    |           |
| 2,200.00                          | 2,200.00              | 2,200.00              | 2,200.00              | 7.65             | 7.65          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 24.17                   | 10.82                     | 3.233             |                    |           |
| 2,300.00                          | 2,300.00              | 2,300.00              | 2,300.00              | 8.01             | 8.01          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 23.66                   | 11.33                     | 3.088             |                    |           |
| 2,400.00                          | 2,400.00              | 2,400.00              | 2,400.00              | 8.37             | 8.37          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 23.15                   | 11.84                     | 2.956             |                    |           |
| 2,500.00                          | 2,500.00              | 2,500.00              | 2,500.00              | 8.73             | 8.73          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 22.65                   | 12.34                     | 2.835             |                    |           |
| 2,600.00                          | 2,600.00              | 2,600.00              | 2,600.00              | 9.09             | 9.09          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 22.14                   | 12.85                     | 2.723             |                    |           |
| 2,688.00                          | 2,688.00              | 2,688.00              | 2,688.00              | 9.40             | 9.40          | 89.46                 | 0.33                                | 34.99        | 34.99                  | 21.69                   | 13.30                     | 2.631 CC          |                    |           |
| 2,700.00                          | 2,700.00              | 2,700.00              | 2,700.00              | 9.44             | 9.45          | -154.77               | 0.33                                | 34.99        | 35.01                  | 21.65                   | 13.36                     | 2.621 ES          |                    |           |
| 2,800.00                          | 2,799.98              | 2,799.98              | 2,799.98              | 9.78             | 9.80          | -155.85               | 0.33                                | 34.99        | 36.48                  | 22.64                   | 13.85                     | 2.635             |                    |           |
| 2,900.00                          | 2,899.89              | 2,899.89              | 2,899.89              | 10.11            | 10.16         | -158.29               | 0.33                                | 34.99        | 40.39                  | 26.05                   | 14.34                     | 2.817             |                    |           |
| 3,000.00                          | 2,999.65              | 2,999.65              | 2,999.65              | 10.45            | 10.52         | -161.36               | 0.33                                | 34.99        | 46.83                  | 32.00                   | 14.83                     | 3.158             |                    |           |
| 3,100.00                          | 3,099.20              | 3,099.20              | 3,099.20              | 10.79            | 10.88         | -164.43               | 0.33                                | 34.99        | 55.88                  | 40.56                   | 15.32                     | 3.648             |                    |           |
| 3,200.00                          | 3,198.47              | 3,198.47              | 3,198.47              | 11.14            | 11.23         | -167.13               | 0.33                                | 34.99        | 67.58                  | 51.78                   | 15.81                     | 4.276             |                    |           |
| 3,281.62                          | 3,279.24              | 3,280.53              | 3,280.53              | 11.43            | 11.51         | -168.64               | -0.35                               | 34.48        | 78.45                  | 62.25                   | 16.20                     | 4.843             |                    |           |
| 3,300.00                          | 3,297.39              | 3,299.04              | 3,299.03              | 11.49            | 11.58         | -168.85               | -0.70                               | 34.22        | 80.91                  | 64.62                   | 16.29                     | 4.968             |                    |           |
| 3,400.00                          | 3,396.19              | 3,400.10              | 3,400.01              | 11.85            | 11.91         | -169.19               | -3.88                               | 31.86        | 93.08                  | 76.32                   | 16.75                     | 5.556             |                    |           |
| 3,500.00                          | 3,494.98              | 3,501.62              | 3,501.31              | 12.22            | 12.24         | -168.53               | -9.22                               | 27.89        | 103.18                 | 85.97                   | 17.21                     | 5.994             |                    |           |
| 3,600.00                          | 3,593.78              | 3,603.39              | 3,602.64              | 12.59            | 12.58         | -167.10               | -16.75                              | 22.30        | 111.26                 | 93.59                   | 17.68                     | 6.294             |                    |           |
| 3,700.00                          | 3,692.57              | 3,703.07              | 3,701.78              | 12.96            | 12.91         | -165.49               | -25.11                              | 16.08        | 118.48                 | 100.32                  | 18.16                     | 6.524             |                    |           |
| 3,800.00                          | 3,791.37              | 3,802.76              | 3,800.92              | 13.34            | 13.25         | -164.07               | -33.47                              | 9.87         | 125.78                 | 107.13                  | 18.65                     | 6.746             |                    |           |
| 3,900.00                          | 3,890.16              | 3,902.45              | 3,900.06              | 13.72            | 13.59         | -162.81               | -41.83                              | 3.65         | 133.15                 | 114.01                  | 19.14                     | 6.958             |                    |           |
| 4,000.00                          | 3,988.96              | 4,002.14              | 3,999.20              | 14.10            | 13.94         | -161.67               | -50.19                              | -2.57        | 140.57                 | 120.94                  | 19.63                     | 7.162             |                    |           |
| 4,100.00                          | 4,087.75              | 4,101.82              | 4,098.35              | 14.49            | 14.28         | -160.66               | -58.55                              | -8.78        | 148.05                 | 127.92                  | 20.12                     | 7.357             |                    |           |
| 4,200.00                          | 4,186.55              | 4,201.51              | 4,197.49              | 14.88            | 14.63         | -159.73               | -66.91                              | -15.00       | 155.56                 | 134.94                  | 20.62                     | 7.543             |                    |           |
| 4,300.00                          | 4,285.34              | 4,301.20              | 4,296.63              | 15.27            | 14.98         | -158.90               | -75.27                              | -21.21       | 163.12                 | 141.99                  | 21.12                     | 7.722             |                    |           |
| 4,400.00                          | 4,384.13              | 4,400.89              | 4,395.77              | 15.67            | 15.33         | -158.14               | -83.63                              | -27.43       | 170.70                 | 149.07                  | 21.63                     | 7.892             |                    |           |
| 4,500.00                          | 4,482.93              | 4,500.57              | 4,494.91              | 16.06            | 15.69         | -157.44               | -91.99                              | -33.64       | 178.31                 | 156.18                  | 22.14                     | 8.056             |                    |           |
| 4,600.00                          | 4,581.72              | 4,600.26              | 4,594.05              | 16.46            | 16.05         | -156.80               | -100.35                             | -39.86       | 185.95                 | 163.31                  | 22.64                     | 8.212             |                    |           |
| 4,700.00                          | 4,680.52              | 4,699.95              | 4,693.20              | 16.86            | 16.41         | -156.21               | -108.72                             | -46.07       | 193.61                 | 170.45                  | 23.16                     | 8.361             |                    |           |
| 4,800.00                          | 4,779.31              | 4,799.64              | 4,792.34              | 17.27            | 16.77         | -155.67               | -117.08                             | -52.29       | 201.28                 | 177.61                  | 23.67                     | 8.504             |                    |           |
| 4,900.00                          | 4,878.11              | 4,899.32              | 4,891.48              | 17.67            | 17.13         | -155.17               | -125.44                             | -58.50       | 208.98                 | 184.79                  | 24.18                     | 8.641             |                    |           |
| 5,000.00                          | 4,976.90              | 4,999.01              | 4,990.62              | 18.08            | 17.49         | -154.70               | -133.80                             | -64.72       | 216.68                 | 191.98                  | 24.70                     | 8.772             |                    |           |
| 5,100.00                          | 5,075.70              | 5,098.70              | 5,089.76              | 18.49            | 17.86         | -154.26               | -142.16                             | -70.93       | 224.40                 | 199.18                  | 25.22                     | 8.898             |                    |           |
| 5,200.00                          | 5,174.49              | 5,198.39              | 5,188.90              | 18.90            | 18.23         | -153.86               | -150.52                             | -77.15       | 232.14                 | 206.40                  | 25.74                     | 9.018             |                    |           |
| 5,300.00                          | 5,273.29              | 5,298.07              | 5,288.05              | 19.31            | 18.59         | -153.47               | -158.88                             | -83.36       | 239.88                 | 213.62                  | 26.26                     | 9.134             |                    |           |
| 5,400.00                          | 5,372.08              | 5,397.76              | 5,387.19              | 19.72            | 18.96         | -153.12               | -167.24                             | -89.58       | 247.63                 | 220.85                  | 26.79                     | 9.245             |                    |           |
| 5,500.00                          | 5,470.88              | 5,497.45              | 5,486.33              | 20.13            | 19.33         | -152.78               | -175.60                             | -95.79       | 255.40                 | 228.09                  | 27.31                     | 9.351             |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Bus Driver/Kaston Fed Com - Bus Driver Fed Com 602H - OH - Plan #4 |         | 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 |                                                                    |         |                    |           |
|                                   |                       |                       |                       | (usft)           | (usft)        | (°)                   |                                     |              |                        |                         |                           |                   |                                                                    |         |                    |           |
| 5,600.00                          | 5,569.67              | 5,597.14              | 5,585.47              | 20.54            | 19.70         | -152.47               | -183.96                             | -102.01      | 263.17                 | 235.33                  | 27.84                     | 9.453             |                                                                    |         |                    |           |
| 5,700.00                          | 5,668.47              | 5,696.82              | 5,684.61              | 20.96            | 20.08         | -152.17               | -192.32                             | -108.22      | 270.95                 | 242.58                  | 28.37                     | 9.552             |                                                                    |         |                    |           |
| 5,800.00                          | 5,767.26              | 5,796.51              | 5,783.75              | 21.38            | 20.45         | -151.89               | -200.68                             | -114.44      | 278.73                 | 249.84                  | 28.89                     | 9.646             |                                                                    |         |                    |           |
| 5,900.00                          | 5,866.06              | 5,896.20              | 5,882.90              | 21.79            | 20.82         | -151.62               | -209.04                             | -120.65      | 286.52                 | 257.10                  | 29.42                     | 9.737             |                                                                    |         |                    |           |
| 6,000.00                          | 5,964.85              | 5,995.89              | 5,982.04              | 22.21            | 21.20         | -151.37               | -217.40                             | -126.87      | 294.32                 | 264.36                  | 29.96                     | 9.825             |                                                                    |         |                    |           |
| 6,100.00                          | 6,063.65              | 6,095.57              | 6,081.18              | 22.63            | 21.57         | -151.13               | -225.76                             | -133.08      | 302.12                 | 271.63                  | 30.49                     | 9.910             |                                                                    |         |                    |           |
| 6,200.00                          | 6,162.44              | 6,195.26              | 6,180.32              | 23.05            | 21.95         | -150.91               | -234.13                             | -139.30      | 309.93                 | 278.91                  | 31.02                     | 9.991             |                                                                    |         |                    |           |
| 6,300.00                          | 6,261.24              | 6,294.95              | 6,279.46              | 23.47            | 22.33         | -150.69               | -242.49                             | -145.51      | 317.74                 | 286.19                  | 31.56                     | 10.069            |                                                                    |         |                    |           |
| 6,400.00                          | 6,360.03              | 6,394.64              | 6,378.60              | 23.89            | 22.70         | -150.49               | -250.85                             | -151.73      | 325.56                 | 293.47                  | 32.09                     | 10.145            |                                                                    |         |                    |           |
| 6,500.00                          | 6,458.83              | 6,494.32              | 6,477.75              | 24.31            | 23.08         | -150.29               | -259.21                             | -157.94      | 333.38                 | 300.75                  | 32.63                     | 10.218            |                                                                    |         |                    |           |
| 6,600.00                          | 6,557.62              | 6,594.01              | 6,576.89              | 24.73            | 23.46         | -150.11               | -267.57                             | -164.16      | 341.20                 | 308.04                  | 33.16                     | 10.289            |                                                                    |         |                    |           |
| 6,700.00                          | 6,656.42              | 6,693.70              | 6,676.03              | 25.15            | 23.84         | -149.93               | -275.93                             | -170.37      | 349.03                 | 315.33                  | 33.70                     | 10.357            |                                                                    |         |                    |           |
| 6,800.00                          | 6,755.21              | 6,793.39              | 6,775.17              | 25.57            | 24.22         | -149.76               | -284.29                             | -176.59      | 356.86                 | 322.62                  | 34.24                     | 10.423            |                                                                    |         |                    |           |
| 6,900.00                          | 6,854.01              | 6,893.07              | 6,874.31              | 26.00            | 24.60         | -149.59               | -292.65                             | -182.80      | 364.69                 | 329.92                  | 34.78                     | 10.487            |                                                                    |         |                    |           |
| 7,000.00                          | 6,952.80              | 6,990.40              | 6,971.14              | 26.42            | 24.97         | -149.48               | -300.60                             | -188.71      | 372.68                 | 337.38                  | 35.31                     | 10.555            |                                                                    |         |                    |           |
| 7,100.00                          | 7,051.59              | 7,085.01              | 7,065.43              | 26.85            | 25.32         | -149.63               | -306.69                             | -193.24      | 381.81                 | 345.99                  | 35.82                     | 10.661            |                                                                    |         |                    |           |
| 7,200.00                          | 7,150.39              | 7,179.29              | 7,159.57              | 27.27            | 25.67         | -150.06               | -310.90                             | -196.37      | 392.26                 | 355.96                  | 36.30                     | 10.805            |                                                                    |         |                    |           |
| 7,300.00                          | 7,249.18              | 7,273.13              | 7,253.36              | 27.70            | 26.00         | -150.75               | -313.24                             | -198.11      | 404.07                 | 367.30                  | 36.77                     | 10.988            |                                                                    |         |                    |           |
| 7,400.00                          | 7,347.98              | 7,367.75              | 7,347.98              | 28.12            | 26.32         | -151.66               | -313.78                             | -198.51      | 417.28                 | 380.05                  | 37.23                     | 11.208            |                                                                    |         |                    |           |
| 7,411.16                          | 7,359.00              | 7,378.78              | 7,359.00              | 28.17            | 26.36         | -151.78               | -313.78                             | -198.51      | 418.80                 | 381.52                  | 37.28                     | 11.233            |                                                                    |         |                    |           |
| 7,500.00                          | 7,446.93              | 7,466.70              | 7,446.93              | 28.54            | 26.66         | -152.65               | -313.78                             | -198.51      | 430.09                 | 392.38                  | 37.71                     | 11.406            |                                                                    |         |                    |           |
| 7,600.00                          | 7,546.22              | 7,565.99              | 7,546.22              | 28.94            | 26.99         | -153.43               | -313.78                             | -198.51      | 440.69                 | 402.51                  | 38.19                     | 11.540            |                                                                    |         |                    |           |
| 7,700.00                          | 7,645.78              | 7,665.56              | 7,645.78              | 29.33            | 27.33         | -154.02               | -313.78                             | -198.51      | 449.02                 | 410.35                  | 38.67                     | 11.612            |                                                                    |         |                    |           |
| 7,800.00                          | 7,745.56              | 7,765.33              | 7,745.56              | 29.70            | 27.66         | -154.42               | -313.78                             | -198.51      | 455.02                 | 415.87                  | 39.15                     | 11.621            |                                                                    |         |                    |           |
| 7,900.00                          | 7,845.47              | 7,865.25              | 7,845.47              | 30.05            | 28.00         | -154.67               | -313.78                             | -198.51      | 458.68                 | 419.04                  | 39.64                     | 11.572            |                                                                    |         |                    |           |
| 8,004.78                          | 7,950.24              | 7,970.02              | 7,950.24              | 30.40            | 28.36         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 419.84                  | 40.14                     | 11.459            |                                                                    |         |                    |           |
| 8,100.00                          | 8,045.46              | 8,065.23              | 8,045.46              | 30.70            | 28.68         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 419.38                  | 40.60                     | 11.330            |                                                                    |         |                    |           |
| 8,200.00                          | 8,145.46              | 8,165.23              | 8,145.46              | 31.02            | 29.02         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 418.90                  | 41.08                     | 11.198            |                                                                    |         |                    |           |
| 8,300.00                          | 8,245.46              | 8,265.23              | 8,245.46              | 31.34            | 29.36         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 418.42                  | 41.56                     | 11.069            |                                                                    |         |                    |           |
| 8,400.00                          | 8,345.46              | 8,365.23              | 8,345.46              | 31.66            | 29.70         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 417.94                  | 42.04                     | 10.943            |                                                                    |         |                    |           |
| 8,500.00                          | 8,445.46              | 8,465.23              | 8,445.46              | 31.98            | 30.05         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 417.46                  | 42.52                     | 10.819            |                                                                    |         |                    |           |
| 8,600.00                          | 8,545.46              | 8,565.23              | 8,545.46              | 32.31            | 30.39         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 416.98                  | 43.00                     | 10.698            |                                                                    |         |                    |           |
| 8,700.00                          | 8,645.46              | 8,665.23              | 8,645.46              | 32.63            | 30.73         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 416.50                  | 43.48                     | 10.579            |                                                                    |         |                    |           |
| 8,800.00                          | 8,745.46              | 8,765.23              | 8,745.46              | 32.96            | 31.07         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 416.02                  | 43.96                     | 10.463            |                                                                    |         |                    |           |
| 8,900.00                          | 8,845.46              | 8,865.23              | 8,845.46              | 33.28            | 31.42         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 415.54                  | 44.44                     | 10.350            |                                                                    |         |                    |           |
| 9,000.00                          | 8,945.46              | 8,965.23              | 8,945.46              | 33.61            | 31.76         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 415.05                  | 44.93                     | 10.238            |                                                                    |         |                    |           |
| 9,100.00                          | 9,045.46              | 9,065.23              | 9,045.46              | 33.93            | 32.10         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 414.57                  | 45.41                     | 10.129            |                                                                    |         |                    |           |
| 9,200.00                          | 9,145.46              | 9,165.23              | 9,145.46              | 34.26            | 32.45         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 414.08                  | 45.90                     | 10.022            |                                                                    |         |                    |           |
| 9,300.00                          | 9,245.46              | 9,265.23              | 9,245.46              | 34.59            | 32.79         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 413.60                  | 46.38                     | 9.918             |                                                                    |         |                    |           |
| 9,400.00                          | 9,345.46              | 9,365.23              | 9,345.46              | 34.92            | 33.14         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 413.11                  | 46.87                     | 9.815             |                                                                    |         |                    |           |
| 9,500.00                          | 9,445.46              | 9,465.23              | 9,445.46              | 35.24            | 33.48         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 412.63                  | 47.35                     | 9.714             |                                                                    |         |                    |           |
| 9,600.00                          | 9,545.46              | 9,565.23              | 9,545.46              | 35.57            | 33.83         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 412.14                  | 47.84                     | 9.615             |                                                                    |         |                    |           |
| 9,700.00                          | 9,645.46              | 9,665.23              | 9,645.46              | 35.90            | 34.17         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 411.66                  | 48.32                     | 9.519             |                                                                    |         |                    |           |
| 9,800.00                          | 9,745.46              | 9,765.23              | 9,745.46              | 36.23            | 34.52         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 411.17                  | 48.81                     | 9.424             |                                                                    |         |                    |           |
| 9,900.00                          | 9,845.46              | 9,865.23              | 9,845.46              | 36.57            | 34.86         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 410.68                  | 49.30                     | 9.330             |                                                                    |         |                    |           |
| 10,000.00                         | 9,945.46              | 9,965.23              | 9,945.46              | 36.90            | 35.21         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 410.19                  | 49.79                     | 9.239             |                                                                    |         |                    |           |
| 10,100.00                         | 10,045.46             | 10,065.23             | 10,045.46             | 37.23            | 35.56         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 409.71                  | 50.27                     | 9.149             |                                                                    |         |                    |           |
| 10,200.00                         | 10,145.46             | 10,165.23             | 10,145.46             | 37.56            | 35.90         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 409.22                  | 50.76                     | 9.061             |                                                                    |         |                    |           |
| 10,300.00                         | 10,245.46             | 10,265.23             | 10,245.46             | 37.89            | 36.25         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 408.73                  | 51.25                     | 8.975             |                                                                    |         |                    |           |
| 10,400.00                         | 10,345.46             | 10,365.23             | 10,345.46             | 38.23            | 36.60         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 408.24                  | 51.74                     | 8.890             |                                                                    |         |                    |           |
| 10,500.00                         | 10,445.46             | 10,465.23             | 10,445.46             | 38.56            | 36.94         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 407.75                  | 52.23                     | 8.807             |                                                                    |         |                    |           |
| 10,600.00                         | 10,545.46             | 10,565.23             | 10,545.46             | 38.90            | 37.29         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 407.26                  | 52.72                     | 8.725             |                                                                    |         |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Bus Driver/Kaston Fed Com - Bus Driver Fed Com 602H - OH - Plan #4 |           | 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 |                                                                    |           |                    |           |
| 10,700.00                         | 10,645.46             | 10,665.23             | 10,645.46             | 39.23            | 37.64         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 406.77                  | 53.21                     | 8.644             |                                                                    |           |                    |           |
| 10,800.00                         | 10,745.46             | 10,765.23             | 10,745.46             | 39.57            | 37.99         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 406.28                  | 53.70                     | 8.565             |                                                                    |           |                    |           |
| 10,900.00                         | 10,845.46             | 10,865.23             | 10,845.46             | 39.90            | 38.34         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 405.79                  | 54.19                     | 8.488             |                                                                    |           |                    |           |
| 11,000.00                         | 10,945.46             | 10,965.23             | 10,945.46             | 40.24            | 38.68         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 405.30                  | 54.68                     | 8.412             |                                                                    |           |                    |           |
| 11,100.00                         | 11,045.46             | 11,065.23             | 11,045.46             | 40.57            | 39.03         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 404.80                  | 55.18                     | 8.337             |                                                                    |           |                    |           |
| 11,200.00                         | 11,145.46             | 11,165.23             | 11,145.46             | 40.91            | 39.38         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 404.31                  | 55.67                     | 8.263             |                                                                    |           |                    |           |
| 11,300.00                         | 11,245.46             | 11,265.23             | 11,245.46             | 41.25            | 39.73         | 89.47                 | -313.78                             | -198.51      | 459.98                 | 403.82                  | 56.16                     | 8.191             |                                                                    |           |                    |           |
| 11,380.63                         | 11,326.09             | 11,345.86             | 11,326.09             | 41.52            | 40.01         | 89.50                 | -314.03                             | -198.51      | 459.98                 | 403.42                  | 56.56                     | 8.133             |                                                                    |           |                    |           |
| 11,400.00                         | 11,345.46             | 11,365.20             | 11,345.40             | 41.59            | 40.08         | 89.61                 | -314.94                             | -198.50      | 459.98                 | 403.33                  | 56.65                     | 8.119             |                                                                    |           |                    |           |
| 11,500.00                         | 11,445.46             | 11,462.80             | 11,441.80             | 41.92            | 40.43         | 91.41                 | -329.38                             | -198.37      | 460.25                 | 403.08                  | 57.17                     | 8.050             |                                                                    |           |                    |           |
| 11,532.54                         | 11,478.00             | 11,493.19             | 11,471.16             | 42.03            | 40.54         | 92.38                 | -337.21                             | -198.30      | 460.61                 | 403.27                  | 57.34                     | 8.033             |                                                                    |           |                    |           |
| 11,550.00                         | 11,495.46             | 11,509.19             | 11,486.45             | 42.09            | 40.60         | -86.53                | -341.95                             | -198.26      | 460.90                 | 403.47                  | 57.43                     | 8.025             |                                                                    |           |                    |           |
| 11,600.00                         | 11,545.30             | 11,554.40             | 11,528.84             | 42.26            | 40.78         | -84.87                | -357.63                             | -198.13      | 461.98                 | 404.31                  | 57.67                     | 8.011             |                                                                    |           |                    |           |
| 11,650.00                         | 11,594.64             | 11,600.00             | 11,570.21             | 42.43            | 40.95         | -83.22                | -376.78                             | -197.96      | 463.42                 | 405.51                  | 57.90                     | 8.003             |                                                                    |           |                    |           |
| 11,700.00                         | 11,643.08             | 11,642.27             | 11,607.08             | 42.61            | 41.12         | -81.72                | -397.42                             | -197.78      | 465.16                 | 407.07                  | 58.08                     | 8.009             |                                                                    |           |                    |           |
| 11,750.00                         | 11,690.27             | 11,685.10             | 11,642.79             | 42.79            | 41.30         | -80.24                | -421.05                             | -197.57      | 467.14                 | 408.90                  | 58.24                     | 8.021             |                                                                    |           |                    |           |
| 11,800.00                         | 11,735.85             | 11,727.28             | 11,676.14             | 42.97            | 41.47         | -78.84                | -446.86                             | -197.35      | 469.32                 | 410.95                  | 58.37                     | 8.040             |                                                                    |           |                    |           |
| 11,850.00                         | 11,779.46             | 11,768.89             | 11,707.09             | 43.15            | 41.65         | -77.52                | -474.66                             | -197.10      | 471.63                 | 413.16                  | 58.46                     | 8.067             |                                                                    |           |                    |           |
| 11,900.00                         | 11,820.78             | 11,809.99             | 11,735.60             | 43.34            | 41.83         | -76.30                | -504.25                             | -196.84      | 473.99                 | 415.47                  | 58.52                     | 8.099             |                                                                    |           |                    |           |
| 11,950.00                         | 11,859.49             | 11,850.00             | 11,761.25             | 43.52            | 42.01         | -75.18                | -534.95                             | -196.57      | 476.37                 | 417.82                  | 58.55                     | 8.137             |                                                                    |           |                    |           |
| 12,000.00                         | 11,895.30             | 11,890.87             | 11,785.17             | 43.71            | 42.19         | -74.14                | -568.07                             | -196.28      | 478.69                 | 420.12                  | 58.57                     | 8.173             |                                                                    |           |                    |           |
| 12,050.00                         | 11,927.93             | 11,930.76             | 11,806.18             | 43.90            | 42.38         | -73.21                | -601.96                             | -195.99      | 480.90                 | 422.33                  | 58.57                     | 8.211             |                                                                    |           |                    |           |
| 12,100.00                         | 11,957.13             | 11,970.34             | 11,824.65             | 44.09            | 42.57         | -72.39                | -636.96                             | -195.68      | 482.96                 | 424.40                  | 58.56                     | 8.247             |                                                                    |           |                    |           |
| 12,150.00                         | 11,982.69             | 12,009.66             | 11,840.57             | 44.29            | 42.76         | -71.69                | -672.91                             | -195.37      | 484.82                 | 426.26                  | 58.56                     | 8.279             |                                                                    |           |                    |           |
| 12,200.00                         | 12,004.41             | 12,050.00             | 11,854.29             | 44.50            | 42.97         | -71.08                | -710.83                             | -195.04      | 486.44                 | 427.85                  | 58.59                     | 8.302             |                                                                    |           |                    |           |
| 12,250.00                         | 12,022.12             | 12,087.71             | 11,864.68             | 44.72            | 43.16         | -70.61                | -747.07                             | -194.72      | 487.79                 | 429.18                  | 58.61                     | 8.323             |                                                                    |           |                    |           |
| 12,300.00                         | 12,035.70             | 12,126.50             | 11,872.85             | 44.95            | 43.36         | -70.24                | -784.99                             | -194.39      | 488.84                 | 430.16                  | 58.68                     | 8.331             |                                                                    |           |                    |           |
| 12,350.00                         | 12,045.02             | 12,165.20             | 11,878.43             | 45.18            | 43.57         | -69.99                | -823.28                             | -194.05      | 489.57                 | 430.78                  | 58.78                     | 8.328             |                                                                    |           |                    |           |
| 12,400.00                         | 12,050.03             | 12,203.84             | 11,881.42             | 45.42            | 43.77         | -69.85                | -861.79                             | -193.71      | 489.96                 | 431.03                  | 58.93                     | 8.314             |                                                                    |           |                    |           |
| 12,425.00                         | 12,050.91             | 12,224.14             | 11,881.96             | 45.55            | 43.88         | -69.83                | -882.08                             | -193.54      | 490.03                 | 430.99                  | 59.04                     | 8.300             |                                                                    |           |                    |           |
| 12,500.00                         | 12,051.90             | 12,299.14             | 11,883.13             | 45.94            | 44.30         | -69.85                | -957.07                             | -192.88      | 489.97                 | 430.41                  | 59.56                     | 8.227             |                                                                    |           |                    |           |
| 12,600.00                         | 12,053.21             | 12,399.14             | 11,884.70             | 46.50            | 44.90         | -69.88                | -1,057.05                           | -192.01      | 489.88                 | 429.56                  | 60.32                     | 8.122             |                                                                    |           |                    |           |
| 12,700.00                         | 12,054.53             | 12,499.14             | 11,886.27             | 47.12            | 45.56         | -69.91                | -1,157.04                           | -191.13      | 489.79                 | 428.65                  | 61.14                     | 8.011             |                                                                    |           |                    |           |
| 12,800.00                         | 12,055.84             | 12,599.14             | 11,887.84             | 47.78            | 46.26         | -69.93                | -1,257.02                           | -190.26      | 489.70                 | 427.66                  | 62.04                     | 7.893             |                                                                    |           |                    |           |
| 12,900.00                         | 12,057.16             | 12,699.14             | 11,889.41             | 48.50            | 47.02         | -69.96                | -1,357.00                           | -189.38      | 489.62                 | 426.61                  | 63.00                     | 7.772             |                                                                    |           |                    |           |
| 13,000.00                         | 12,058.48             | 12,799.14             | 11,890.98             | 49.26            | 47.81         | -69.99                | -1,456.99                           | -188.51      | 489.53                 | 425.50                  | 64.02                     | 7.646             |                                                                    |           |                    |           |
| 13,100.00                         | 12,059.79             | 12,899.14             | 11,892.55             | 50.06            | 48.65         | -70.02                | -1,556.97                           | -187.63      | 489.44                 | 424.34                  | 65.11                     | 7.518             |                                                                    |           |                    |           |
| 13,200.00                         | 12,061.11             | 12,999.14             | 11,894.12             | 50.90            | 49.54         | -70.05                | -1,656.95                           | -186.76      | 489.35                 | 423.11                  | 66.24                     | 7.387             |                                                                    |           |                    |           |
| 13,300.00                         | 12,062.43             | 13,099.14             | 11,895.69             | 51.78            | 50.46         | -70.07                | -1,756.94                           | -185.88      | 489.27                 | 421.83                  | 67.43                     | 7.255             |                                                                    |           |                    |           |
| 13,400.00                         | 12,063.74             | 13,199.14             | 11,897.26             | 52.70            | 51.41         | -70.10                | -1,856.92                           | -185.01      | 489.18                 | 420.50                  | 68.68                     | 7.123             |                                                                    |           |                    |           |
| 13,500.00                         | 12,065.06             | 13,299.14             | 11,898.83             | 53.65            | 52.40         | -70.13                | -1,956.90                           | -184.13      | 489.09                 | 419.13                  | 69.97                     | 6.990             |                                                                    |           |                    |           |
| 13,600.00                         | 12,066.37             | 13,399.14             | 11,900.40             | 54.64            | 53.43         | -70.16                | -2,056.89                           | -183.26      | 489.01                 | 417.70                  | 71.30                     | 6.858             |                                                                    |           |                    |           |
| 13,700.00                         | 12,067.69             | 13,499.14             | 11,901.97             | 55.66            | 54.48         | -70.18                | -2,156.87                           | -182.38      | 488.92                 | 416.24                  | 72.68                     | 6.727             |                                                                    |           |                    |           |
| 13,800.00                         | 12,069.01             | 13,599.14             | 11,903.54             | 56.71            | 55.57         | -70.21                | -2,256.86                           | -181.51      | 488.83                 | 414.73                  | 74.10                     | 6.597             |                                                                    |           |                    |           |
| 13,900.00                         | 12,070.32             | 13,699.14             | 11,905.11             | 57.78            | 56.68         | -70.24                | -2,356.84                           | -180.63      | 488.75                 | 413.19                  | 75.55                     | 6.469             |                                                                    |           |                    |           |
| 14,000.00                         | 12,071.64             | 13,799.14             | 11,906.68             | 58.89            | 57.82         | -70.27                | -2,456.82                           | -179.76      | 488.66                 | 411.61                  | 77.05                     | 6.342             |                                                                    |           |                    |           |
| 14,100.00                         | 12,072.96             | 13,899.14             | 11,908.25             | 60.02            | 58.98         | -70.30                | -2,556.81                           | -178.88      | 488.57                 | 410.00                  | 78.57                     | 6.218             |                                                                    |           |                    |           |
| 14,200.00                         | 12,074.27             | 13,999.14             | 11,909.82             | 61.17            | 60.16         | -70.32                | -2,656.79                           | -178.01      | 488.49                 | 408.36                  | 80.13                     | 6.096             |                                                                    |           |                    |           |
| 14,300.00                         | 12,075.59             | 14,099.14             | 11,911.39             | 62.34            | 61.37         | -70.35                | -2,756.77                           | -177.13      | 488.40                 | 406.68                  | 81.72                     | 5.977             |                                                                    |           |                    |           |
| 14,400.00                         | 12,076.90             | 14,199.14             | 11,912.96             | 63.54            | 62.59         | -70.38                | -2,856.76                           | -176.26      | 488.32                 | 404.98                  | 83.34                     | 5.860             |                                                                    |           |                    |           |
| 14,500.00                         | 12,078.22             | 14,299.14             | 11,914.53             | 64.76            | 63.84         | -70.41                | -2,956.74                           | -175.38      | 488.23                 | 403.25                  | 84.98                     | 5.745             |                                                                    |           |                    |           |
| 14,600.00                         | 12,079.54             | 14,399.13             | 11,916.10             | 65.99            | 65.10         | -70.44                | -3,056.72                           | -174.51      | 488.15                 | 401.50                  | 86.65                     | 5.634             |                                                                    |           |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 14,700.00                         | 12,080.85             | 14,499.13             | 11,917.67             | 67.25            | 66.38         | -70.46                | -3,156.71                           | -173.63      | 488.06                 | 399.72                  | 88.34                     | 5.525             |                    |           |
| 14,800.00                         | 12,082.17             | 14,599.13             | 11,919.24             | 68.52            | 67.68         | -70.49                | -3,256.69                           | -172.76      | 487.98                 | 397.92                  | 90.05                     | 5.419             |                    |           |
| 14,900.00                         | 12,083.49             | 14,699.13             | 11,920.81             | 69.80            | 68.99         | -70.52                | -3,356.67                           | -171.88      | 487.89                 | 396.10                  | 91.79                     | 5.316             |                    |           |
| 15,000.00                         | 12,084.80             | 14,799.13             | 11,922.38             | 71.10            | 70.32         | -70.55                | -3,456.66                           | -171.01      | 487.81                 | 394.26                  | 93.54                     | 5.215             |                    |           |
| 15,100.00                         | 12,086.12             | 14,899.13             | 11,923.95             | 72.42            | 71.66         | -70.58                | -3,556.64                           | -170.13      | 487.72                 | 392.41                  | 95.31                     | 5.117             |                    |           |
| 15,200.00                         | 12,087.43             | 14,999.13             | 11,925.52             | 73.75            | 73.01         | -70.61                | -3,656.62                           | -169.26      | 487.64                 | 390.53                  | 97.11                     | 5.022             |                    |           |
| 15,300.00                         | 12,088.75             | 15,099.13             | 11,927.09             | 75.09            | 74.38         | -70.63                | -3,756.61                           | -168.38      | 487.55                 | 388.64                  | 98.91                     | 4.929             |                    |           |
| 15,400.00                         | 12,090.07             | 15,199.13             | 11,928.66             | 76.44            | 75.75         | -70.66                | -3,856.59                           | -167.51      | 487.47                 | 386.73                  | 100.74                    | 4.839             |                    |           |
| 15,500.00                         | 12,091.38             | 15,299.13             | 11,930.23             | 77.81            | 77.14         | -70.69                | -3,956.58                           | -166.63      | 487.38                 | 384.81                  | 102.58                    | 4.751             |                    |           |
| 15,600.00                         | 12,092.70             | 15,399.13             | 11,931.80             | 79.19            | 78.54         | -70.72                | -4,056.56                           | -165.76      | 487.30                 | 382.87                  | 104.43                    | 4.666             |                    |           |
| 15,700.00                         | 12,094.02             | 15,499.13             | 11,933.37             | 80.57            | 79.95         | -70.75                | -4,156.54                           | -164.88      | 487.21                 | 380.92                  | 106.29                    | 4.584             |                    |           |
| 15,800.00                         | 12,095.33             | 15,599.13             | 11,934.94             | 81.97            | 81.36         | -70.77                | -4,256.53                           | -164.01      | 487.13                 | 378.96                  | 108.17                    | 4.503             |                    |           |
| 15,900.00                         | 12,096.65             | 15,699.13             | 11,936.51             | 83.38            | 82.79         | -70.80                | -4,356.51                           | -163.13      | 487.05                 | 376.98                  | 110.06                    | 4.425             |                    |           |
| 16,000.00                         | 12,097.97             | 15,799.13             | 11,938.08             | 84.79            | 84.22         | -70.83                | -4,456.49                           | -162.26      | 486.96                 | 375.00                  | 111.96                    | 4.349             |                    |           |
| 16,100.00                         | 12,099.28             | 15,899.13             | 11,939.65             | 86.21            | 85.66         | -70.86                | -4,556.48                           | -161.38      | 486.88                 | 373.00                  | 113.88                    | 4.276             |                    |           |
| 16,200.00                         | 12,100.60             | 15,999.13             | 11,941.22             | 87.65            | 87.11         | -70.89                | -4,656.46                           | -160.51      | 486.79                 | 371.00                  | 115.80                    | 4.204             |                    |           |
| 16,300.00                         | 12,101.91             | 16,099.13             | 11,942.79             | 89.08            | 88.57         | -70.91                | -4,756.44                           | -159.63      | 486.71                 | 368.98                  | 117.73                    | 4.134             |                    |           |
| 16,400.00                         | 12,103.23             | 16,199.13             | 11,944.36             | 90.53            | 90.03         | -70.94                | -4,856.43                           | -158.76      | 486.63                 | 366.96                  | 119.67                    | 4.066             |                    |           |
| 16,500.00                         | 12,104.55             | 16,299.13             | 11,945.93             | 91.98            | 91.50         | -70.97                | -4,956.41                           | -157.88      | 486.54                 | 364.92                  | 121.62                    | 4.001             |                    |           |
| 16,600.00                         | 12,105.86             | 16,399.13             | 11,947.50             | 93.44            | 92.97         | -71.00                | -5,056.39                           | -157.01      | 486.46                 | 362.88                  | 123.58                    | 3.936             |                    |           |
| 16,700.00                         | 12,107.18             | 16,499.13             | 11,949.07             | 94.91            | 94.45         | -71.03                | -5,156.38                           | -156.13      | 486.38                 | 360.83                  | 125.54                    | 3.874             |                    |           |
| 16,800.00                         | 12,108.50             | 16,599.13             | 11,950.64             | 96.38            | 95.94         | -71.06                | -5,256.36                           | -155.26      | 486.30                 | 358.78                  | 127.52                    | 3.814             |                    |           |
| 16,900.00                         | 12,109.81             | 16,699.13             | 11,952.21             | 97.86            | 97.43         | -71.08                | -5,356.34                           | -154.38      | 486.21                 | 356.72                  | 129.50                    | 3.755             |                    |           |
| 17,000.00                         | 12,111.13             | 16,799.13             | 11,953.78             | 99.34            | 98.93         | -71.11                | -5,456.33                           | -153.51      | 486.13                 | 354.65                  | 131.48                    | 3.697             |                    |           |
| 17,100.00                         | 12,112.44             | 16,899.13             | 11,955.35             | 100.83           | 100.43        | -71.14                | -5,556.31                           | -152.63      | 486.05                 | 352.57                  | 133.48                    | 3.641             |                    |           |
| 17,200.00                         | 12,113.76             | 16,999.13             | 11,956.92             | 102.33           | 101.94        | -71.17                | -5,656.29                           | -151.76      | 485.97                 | 350.49                  | 135.48                    | 3.587             |                    |           |
| 17,300.00                         | 12,115.08             | 17,099.13             | 11,958.49             | 103.83           | 103.45        | -71.20                | -5,756.28                           | -150.88      | 485.88                 | 348.40                  | 137.48                    | 3.534             |                    |           |
| 17,400.00                         | 12,116.39             | 17,199.13             | 11,960.06             | 105.33           | 104.97        | -71.23                | -5,856.26                           | -150.01      | 485.80                 | 346.31                  | 139.49                    | 3.483             |                    |           |
| 17,500.00                         | 12,117.71             | 17,299.13             | 11,961.63             | 106.84           | 106.49        | -71.25                | -5,956.25                           | -149.13      | 485.72                 | 344.21                  | 141.51                    | 3.432             |                    |           |
| 17,600.00                         | 12,119.03             | 17,399.13             | 11,963.20             | 108.35           | 108.01        | -71.28                | -6,056.23                           | -148.26      | 485.64                 | 342.11                  | 143.53                    | 3.384             |                    |           |
| 17,700.00                         | 12,120.34             | 17,499.12             | 11,964.77             | 109.86           | 109.54        | -71.31                | -6,156.21                           | -147.38      | 485.56                 | 340.00                  | 145.55                    | 3.336             |                    |           |
| 17,800.00                         | 12,121.66             | 17,599.12             | 11,966.34             | 111.38           | 111.07        | -71.34                | -6,256.20                           | -146.51      | 485.47                 | 337.89                  | 147.58                    | 3.289             |                    |           |
| 17,900.00                         | 12,122.97             | 17,699.12             | 11,967.91             | 112.91           | 112.60        | -71.37                | -6,356.18                           | -145.63      | 485.39                 | 335.77                  | 149.62                    | 3.244             |                    |           |
| 18,000.00                         | 12,124.29             | 17,799.12             | 11,969.48             | 114.43           | 114.14        | -71.40                | -6,456.16                           | -144.76      | 485.31                 | 333.65                  | 151.66                    | 3.200             |                    |           |
| 18,100.00                         | 12,125.61             | 17,899.12             | 11,971.05             | 115.96           | 115.68        | -71.42                | -6,556.15                           | -143.88      | 485.23                 | 331.53                  | 153.70                    | 3.157             |                    |           |
| 18,200.00                         | 12,126.92             | 17,999.12             | 11,972.62             | 117.50           | 117.22        | -71.45                | -6,656.13                           | -143.01      | 485.15                 | 329.40                  | 155.74                    | 3.115             |                    |           |
| 18,300.00                         | 12,128.24             | 18,099.12             | 11,974.19             | 119.04           | 118.77        | -71.48                | -6,756.11                           | -142.13      | 485.07                 | 327.27                  | 157.79                    | 3.074             |                    |           |
| 18,400.00                         | 12,129.56             | 18,199.12             | 11,975.76             | 120.58           | 120.32        | -71.51                | -6,856.10                           | -141.26      | 484.99                 | 325.14                  | 159.85                    | 3.034             |                    |           |
| 18,500.00                         | 12,130.87             | 18,299.12             | 11,977.33             | 122.12           | 121.87        | -71.54                | -6,956.08                           | -140.38      | 484.91                 | 323.00                  | 161.90                    | 2.995             |                    |           |
| 18,600.00                         | 12,132.19             | 18,399.12             | 11,978.90             | 123.66           | 123.43        | -71.57                | -7,056.06                           | -139.51      | 484.82                 | 320.86                  | 163.96                    | 2.957             |                    |           |
| 18,700.00                         | 12,133.50             | 18,499.12             | 11,980.47             | 125.21           | 124.98        | -71.59                | -7,156.05                           | -138.63      | 484.74                 | 318.72                  | 166.02                    | 2.920             |                    |           |
| 18,800.00                         | 12,134.82             | 18,599.12             | 11,982.04             | 126.76           | 126.54        | -71.62                | -7,256.03                           | -137.76      | 484.66                 | 316.57                  | 168.09                    | 2.883             |                    |           |
| 18,900.00                         | 12,136.14             | 18,699.12             | 11,983.61             | 128.32           | 128.11        | -71.65                | -7,356.01                           | -136.88      | 484.58                 | 314.43                  | 170.16                    | 2.848             |                    |           |
| 19,000.00                         | 12,137.45             | 18,799.12             | 11,985.18             | 129.87           | 129.67        | -71.68                | -7,456.00                           | -136.01      | 484.50                 | 312.28                  | 172.23                    | 2.813             |                    |           |
| 19,100.00                         | 12,138.77             | 18,899.12             | 11,986.75             | 131.43           | 131.24        | -71.71                | -7,555.98                           | -135.13      | 484.42                 | 310.13                  | 174.30                    | 2.779             |                    |           |
| 19,200.00                         | 12,140.09             | 18,999.12             | 11,988.32             | 132.99           | 132.80        | -71.74                | -7,655.97                           | -134.26      | 484.34                 | 307.97                  | 176.37                    | 2.746             |                    |           |
| 19,300.00                         | 12,141.40             | 19,099.12             | 11,989.89             | 134.56           | 134.37        | -71.77                | -7,755.95                           | -133.38      | 484.26                 | 305.81                  | 178.45                    | 2.714             |                    |           |
| 19,400.00                         | 12,142.72             | 19,199.12             | 11,991.46             | 136.12           | 135.95        | -71.79                | -7,855.93                           | -132.51      | 484.18                 | 303.66                  | 180.53                    | 2.682             |                    |           |
| 19,500.00                         | 12,144.03             | 19,299.12             | 11,993.03             | 137.69           | 137.52        | -71.82                | -7,955.92                           | -131.63      | 484.10                 | 301.50                  | 182.61                    | 2.651             |                    |           |
| 19,600.00                         | 12,145.35             | 19,399.12             | 11,994.60             | 139.26           | 139.10        | -71.85                | -8,055.90                           | -130.76      | 484.02                 | 299.33                  | 184.69                    | 2.621             |                    |           |
| 19,700.00                         | 12,146.67             | 19,499.12             | 11,996.17             | 140.83           | 140.68        | -71.88                | -8,155.88                           | -129.88      | 483.94                 | 297.17                  | 186.77                    | 2.591             |                    |           |
| 19,800.00                         | 12,147.98             | 19,599.12             | 11,997.74             | 142.40           | 142.26        | -71.91                | -8,255.87                           | -129.01      | 483.86                 | 295.00                  | 188.86                    | 2.562             |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 19,900.00                         | 12,149.30             | 19,699.12             | 11,999.31             | 143.98           | 143.84        | -71.94                | -8,355.85                           | -128.13      | 483.79                 | 292.84                  | 190.95                    | 2.534             |                    |           |
| 20,000.00                         | 12,150.62             | 19,799.12             | 12,000.88             | 145.55           | 145.42        | -71.97                | -8,455.83                           | -127.26      | 483.71                 | 290.67                  | 193.04                    | 2.506             |                    |           |
| 20,100.00                         | 12,151.93             | 19,899.12             | 12,002.45             | 147.13           | 147.00        | -71.99                | -8,555.82                           | -126.38      | 483.63                 | 288.50                  | 195.13                    | 2.479             |                    |           |
| 20,200.00                         | 12,153.25             | 19,999.12             | 12,004.02             | 148.71           | 148.59        | -72.02                | -8,655.80                           | -125.51      | 483.55                 | 286.33                  | 197.22                    | 2.452             |                    |           |
| 20,300.00                         | 12,154.56             | 20,099.12             | 12,005.59             | 150.29           | 150.18        | -72.05                | -8,755.78                           | -124.63      | 483.47                 | 284.16                  | 199.31                    | 2.426             |                    |           |
| 20,400.00                         | 12,155.88             | 20,199.12             | 12,007.16             | 151.87           | 151.77        | -72.08                | -8,855.77                           | -123.76      | 483.39                 | 281.99                  | 201.40                    | 2.400             |                    |           |
| 20,500.00                         | 12,157.20             | 20,299.12             | 12,008.73             | 153.46           | 153.36        | -72.11                | -8,955.75                           | -122.88      | 483.31                 | 279.81                  | 203.50                    | 2.375             |                    |           |
| 20,600.00                         | 12,158.51             | 20,399.12             | 12,010.30             | 155.04           | 154.95        | -72.14                | -9,055.73                           | -122.01      | 483.23                 | 277.64                  | 205.60                    | 2.350             |                    |           |
| 20,700.00                         | 12,159.83             | 20,499.12             | 12,011.87             | 156.63           | 156.54        | -72.17                | -9,155.72                           | -121.13      | 483.16                 | 275.46                  | 207.69                    | 2.326             |                    |           |
| 20,800.00                         | 12,161.15             | 20,599.11             | 12,013.44             | 158.22           | 158.13        | -72.19                | -9,255.70                           | -120.26      | 483.08                 | 273.29                  | 209.79                    | 2.303             |                    |           |
| 20,900.00                         | 12,162.46             | 20,699.11             | 12,015.01             | 159.81           | 159.73        | -72.22                | -9,355.69                           | -119.38      | 483.00                 | 271.11                  | 211.89                    | 2.280             |                    |           |
| 21,000.00                         | 12,163.78             | 20,799.11             | 12,016.58             | 161.40           | 161.32        | -72.25                | -9,455.67                           | -118.51      | 482.92                 | 268.93                  | 213.99                    | 2.257             |                    |           |
| 21,100.00                         | 12,165.10             | 20,899.11             | 12,018.15             | 162.99           | 162.92        | -72.28                | -9,555.65                           | -117.63      | 482.84                 | 266.76                  | 216.09                    | 2.234             |                    |           |
| 21,200.00                         | 12,166.41             | 20,999.11             | 12,019.72             | 164.58           | 164.52        | -72.31                | -9,655.64                           | -116.76      | 482.77                 | 264.58                  | 218.19                    | 2.213             |                    |           |
| 21,300.00                         | 12,167.73             | 21,099.11             | 12,021.29             | 166.18           | 166.12        | -72.34                | -9,755.62                           | -115.88      | 482.69                 | 262.40                  | 220.29                    | 2.191             |                    |           |
| 21,400.00                         | 12,169.04             | 21,199.11             | 12,022.86             | 167.77           | 167.72        | -72.37                | -9,855.60                           | -115.01      | 482.61                 | 260.22                  | 222.39                    | 2.170             |                    |           |
| 21,500.00                         | 12,170.36             | 21,299.11             | 12,024.43             | 169.37           | 169.32        | -72.39                | -9,955.59                           | -114.13      | 482.53                 | 258.04                  | 224.49                    | 2.149             |                    |           |
| 21,600.00                         | 12,171.68             | 21,399.11             | 12,026.00             | 170.97           | 170.92        | -72.42                | -10,055.57                          | -113.26      | 482.46                 | 255.86                  | 226.60                    | 2.129             |                    |           |
| 21,700.00                         | 12,172.99             | 21,499.11             | 12,027.57             | 172.57           | 172.53        | -72.45                | -10,155.55                          | -112.38      | 482.38                 | 253.68                  | 228.70                    | 2.109             |                    |           |
| 21,800.00                         | 12,174.31             | 21,599.11             | 12,029.14             | 174.17           | 174.13        | -72.48                | -10,255.54                          | -111.51      | 482.30                 | 251.50                  | 230.80                    | 2.090             |                    |           |
| 21,900.00                         | 12,175.63             | 21,699.11             | 12,030.71             | 175.77           | 175.74        | -72.51                | -10,355.52                          | -110.63      | 482.23                 | 249.32                  | 232.91                    | 2.070             |                    |           |
| 22,000.00                         | 12,176.94             | 21,799.11             | 12,032.28             | 177.37           | 177.34        | -72.54                | -10,455.50                          | -109.76      | 482.15                 | 247.14                  | 235.01                    | 2.052             |                    |           |
| 22,100.00                         | 12,178.26             | 21,899.11             | 12,033.85             | 178.97           | 178.95        | -72.57                | -10,555.49                          | -108.88      | 482.07                 | 244.96                  | 237.11                    | 2.033             |                    |           |
| 22,200.00                         | 12,179.57             | 21,999.11             | 12,035.42             | 180.58           | 180.56        | -72.60                | -10,655.47                          | -108.01      | 482.00                 | 242.78                  | 239.22                    | 2.015             |                    |           |
| 22,300.00                         | 12,180.89             | 22,099.11             | 12,036.99             | 182.18           | 182.17        | -72.62                | -10,755.45                          | -107.13      | 481.92                 | 240.60                  | 241.32                    | 1.997             |                    |           |
| 22,400.00                         | 12,182.21             | 22,199.11             | 12,038.56             | 183.79           | 183.77        | -72.65                | -10,855.44                          | -106.26      | 481.85                 | 238.42                  | 243.42                    | 1.979             |                    |           |
| 22,500.00                         | 12,183.52             | 22,299.11             | 12,040.13             | 185.39           | 185.38        | -72.68                | -10,955.42                          | -105.38      | 481.77                 | 236.24                  | 245.53                    | 1.962             |                    |           |
| 22,600.00                         | 12,184.84             | 22,399.11             | 12,041.70             | 187.00           | 187.00        | -72.71                | -11,055.41                          | -104.51      | 481.69                 | 234.06                  | 247.63                    | 1.945             |                    |           |
| 22,700.00                         | 12,186.16             | 22,499.11             | 12,043.27             | 188.61           | 188.61        | -72.74                | -11,155.39                          | -103.63      | 481.62                 | 231.88                  | 249.74                    | 1.929             |                    |           |
| 22,800.00                         | 12,187.47             | 22,599.11             | 12,044.84             | 190.21           | 190.22        | -72.77                | -11,255.37                          | -102.76      | 481.54                 | 229.70                  | 251.84                    | 1.912             |                    |           |
| 22,900.00                         | 12,188.79             | 22,699.11             | 12,046.41             | 191.82           | 191.83        | -72.80                | -11,355.36                          | -101.88      | 481.47                 | 227.52                  | 253.94                    | 1.896             |                    |           |
| 23,000.00                         | 12,190.10             | 22,799.11             | 12,047.98             | 193.43           | 193.45        | -72.83                | -11,455.34                          | -101.01      | 481.39                 | 225.34                  | 256.05                    | 1.880             |                    |           |
| 23,100.00                         | 12,191.42             | 22,899.11             | 12,049.55             | 195.04           | 195.06        | -72.85                | -11,555.32                          | -100.13      | 481.32                 | 223.17                  | 258.15                    | 1.864             |                    |           |
| 23,200.00                         | 12,192.74             | 22,999.11             | 12,051.12             | 196.66           | 196.67        | -72.88                | -11,655.31                          | -99.26       | 481.24                 | 220.99                  | 260.25                    | 1.849             |                    |           |
| 23,300.00                         | 12,194.05             | 23,099.11             | 12,052.69             | 198.27           | 198.29        | -72.91                | -11,755.29                          | -98.38       | 481.17                 | 218.81                  | 262.35                    | 1.834             |                    |           |
| 23,400.00                         | 12,195.37             | 23,199.11             | 12,054.26             | 199.88           | 199.91        | -72.94                | -11,855.27                          | -97.51       | 481.09                 | 216.63                  | 264.46                    | 1.819             |                    |           |
| 23,500.00                         | 12,196.69             | 23,299.11             | 12,055.83             | 201.49           | 201.52        | -72.97                | -11,955.26                          | -96.63       | 481.02                 | 214.46                  | 266.56                    | 1.805             |                    |           |
| 23,589.42                         | 12,197.86             | 23,388.53             | 12,057.23             | 202.94           | 202.97        | -73.00                | -12,044.67                          | -95.85       | 480.95                 | 212.51                  | 268.43                    | 1.792 SF          |                    |           |
| 23,594.56                         | 12,197.93             | 23,389.58             | 12,057.25             | 203.02           | 202.99        | -73.00                | -12,045.72                          | -95.84       | 480.96                 | 212.63                  | 268.33                    | 1.792             |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Bus Driver/Kaston Fed Com - Kaston Fed Com 603H - OH - Plan #5 |  | 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 |                                                                |  |                              |  |
| 0.00                              | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | 89.46                 | 0.99                                | 104.98       | 104.98                 |                         |                           |                   |                                                                |  |                              |  |
| 100.00                            | 100.00                | 100.00                | 100.00                | 0.13             | 0.13          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 104.81                  | 0.18                      | 591.681           |                                                                |  |                              |  |
| 200.00                            | 200.00                | 200.00                | 200.00                | 0.48             | 0.48          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 104.30                  | 0.68                      | 153.399           |                                                                |  |                              |  |
| 300.00                            | 300.00                | 300.00                | 300.00                | 0.84             | 0.84          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 103.79                  | 1.19                      | 88.123            |                                                                |  |                              |  |
| 400.00                            | 400.00                | 400.00                | 400.00                | 1.20             | 1.20          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 103.29                  | 1.70                      | 61.817            |                                                                |  |                              |  |
| 500.00                            | 500.00                | 500.00                | 500.00                | 1.56             | 1.56          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 102.78                  | 2.21                      | 47.607            |                                                                |  |                              |  |
| 600.00                            | 600.00                | 600.00                | 600.00                | 1.92             | 1.92          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 102.27                  | 2.71                      | 38.708            |                                                                |  |                              |  |
| 700.00                            | 700.00                | 700.00                | 700.00                | 2.28             | 2.28          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 101.77                  | 3.22                      | 32.612            |                                                                |  |                              |  |
| 800.00                            | 800.00                | 800.00                | 800.00                | 2.63             | 2.63          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 101.26                  | 3.73                      | 28.175            |                                                                |  |                              |  |
| 900.00                            | 900.00                | 900.00                | 900.00                | 2.99             | 2.99          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 100.75                  | 4.23                      | 24.801            |                                                                |  |                              |  |
| 1,000.00                          | 1,000.00              | 1,000.00              | 1,000.00              | 3.35             | 3.35          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 100.24                  | 4.74                      | 22.149            |                                                                |  |                              |  |
| 1,100.00                          | 1,100.00              | 1,100.00              | 1,100.00              | 3.71             | 3.71          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 99.74                   | 5.25                      | 20.009            |                                                                |  |                              |  |
| 1,200.00                          | 1,200.00              | 1,200.00              | 1,200.00              | 4.07             | 4.07          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 99.23                   | 5.75                      | 18.246            |                                                                |  |                              |  |
| 1,300.00                          | 1,300.00              | 1,300.00              | 1,300.00              | 4.43             | 4.43          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 98.72                   | 6.26                      | 16.768            |                                                                |  |                              |  |
| 1,400.00                          | 1,400.00              | 1,400.00              | 1,400.00              | 4.79             | 4.79          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 98.22                   | 6.77                      | 15.512            |                                                                |  |                              |  |
| 1,500.00                          | 1,500.00              | 1,500.00              | 1,500.00              | 5.14             | 5.14          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 97.71                   | 7.27                      | 14.431            |                                                                |  |                              |  |
| 1,600.00                          | 1,600.00              | 1,600.00              | 1,600.00              | 5.50             | 5.50          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 97.20                   | 7.78                      | 13.491            |                                                                |  |                              |  |
| 1,700.00                          | 1,700.00              | 1,700.00              | 1,700.00              | 5.86             | 5.86          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 96.70                   | 8.29                      | 12.666            |                                                                |  |                              |  |
| 1,800.00                          | 1,800.00              | 1,800.00              | 1,800.00              | 6.22             | 6.22          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 96.19                   | 8.80                      | 11.936            |                                                                |  |                              |  |
| 1,900.00                          | 1,900.00              | 1,900.00              | 1,900.00              | 6.58             | 6.58          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 95.68                   | 9.30                      | 11.285            |                                                                |  |                              |  |
| 2,000.00                          | 2,000.00              | 2,000.00              | 2,000.00              | 6.94             | 6.94          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 95.18                   | 9.81                      | 10.702            |                                                                |  |                              |  |
| 2,100.00                          | 2,100.00              | 2,100.00              | 2,100.00              | 7.29             | 7.29          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 94.67                   | 10.32                     | 10.176            |                                                                |  |                              |  |
| 2,200.00                          | 2,200.00              | 2,200.00              | 2,200.00              | 7.65             | 7.65          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 94.16                   | 10.82                     | 9.700             |                                                                |  |                              |  |
| 2,300.00                          | 2,300.00              | 2,300.00              | 2,300.00              | 8.01             | 8.01          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 93.65                   | 11.33                     | 9.266             |                                                                |  |                              |  |
| 2,400.00                          | 2,400.00              | 2,400.00              | 2,400.00              | 8.37             | 8.37          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 93.15                   | 11.84                     | 8.869             |                                                                |  |                              |  |
| 2,500.00                          | 2,500.00              | 2,500.00              | 2,500.00              | 8.73             | 8.73          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 92.64                   | 12.34                     | 8.505             |                                                                |  |                              |  |
| 2,600.00                          | 2,600.00              | 2,600.00              | 2,600.00              | 9.09             | 9.09          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 92.13                   | 12.85                     | 8.169             |                                                                |  |                              |  |
| 2,688.00                          | 2,688.00              | 2,688.00              | 2,688.00              | 9.40             | 9.40          | 89.46                 | 0.99                                | 104.98       | 104.98                 | 91.69                   | 13.30                     | 7.895 CC          |                                                                |  |                              |  |
| 2,700.00                          | 2,700.00              | 2,699.73              | 2,699.73              | 9.44             | 9.44          | -154.76               | 0.98                                | 104.99       | 105.02                 | 91.66                   | 13.36                     | 7.863 ES          |                                                                |  |                              |  |
| 2,800.00                          | 2,799.98              | 2,797.16              | 2,797.14              | 9.78             | 9.77          | -154.80               | 0.44                                | 106.41       | 107.93                 | 94.11                   | 13.82                     | 7.812             |                                                                |  |                              |  |
| 2,900.00                          | 2,899.89              | 2,894.23              | 2,894.13              | 10.11            | 10.10         | -154.89               | -0.99                               | 110.12       | 115.57                 | 101.30                  | 14.27                     | 8.098             |                                                                |  |                              |  |
| 3,000.00                          | 2,999.65              | 2,990.61              | 2,990.30              | 10.45            | 10.42         | -155.01               | -3.29                               | 116.09       | 127.92                 | 113.20                  | 14.72                     | 8.691             |                                                                |  |                              |  |
| 3,100.00                          | 3,099.20              | 3,086.00              | 3,085.29              | 10.79            | 10.75         | -155.13               | -6.42                               | 124.22       | 144.91                 | 129.75                  | 15.16                     | 9.560             |                                                                |  |                              |  |
| 3,200.00                          | 3,198.47              | 3,180.10              | 3,178.74              | 11.14            | 11.08         | -155.22               | -10.34                              | 134.40       | 166.49                 | 150.90                  | 15.59                     | 10.682            |                                                                |  |                              |  |
| 3,281.62                          | 3,279.24              | 3,255.75              | 3,253.67              | 11.43            | 11.35         | -155.27               | -14.09                              | 144.14       | 187.44                 | 171.52                  | 15.93                     | 11.768            |                                                                |  |                              |  |
| 3,300.00                          | 3,297.39              | 3,272.63              | 3,270.36              | 11.49            | 11.41         | -155.31               | -15.00                              | 146.51       | 192.53                 | 176.53                  | 16.01                     | 12.029            |                                                                |  |                              |  |
| 3,400.00                          | 3,396.19              | 3,363.79              | 3,360.29              | 11.85            | 11.73         | -155.34               | -20.37                              | 160.46       | 221.47                 | 205.06                  | 16.41                     | 13.494            |                                                                |  |                              |  |
| 3,500.00                          | 3,494.98              | 3,458.37              | 3,453.34              | 12.22            | 12.08         | -155.24               | -26.46                              | 176.25       | 251.75                 | 234.88                  | 16.87                     | 14.921            |                                                                |  |                              |  |
| 3,600.00                          | 3,593.78              | 3,553.67              | 3,547.10              | 12.59            | 12.44         | -155.15               | -32.59                              | 192.19       | 282.05                 | 264.70                  | 17.34                     | 16.262            |                                                                |  |                              |  |
| 3,700.00                          | 3,692.57              | 3,648.97              | 3,640.85              | 12.96            | 12.80         | -155.08               | -38.73                              | 208.13       | 312.35                 | 294.53                  | 17.82                     | 17.529            |                                                                |  |                              |  |
| 3,800.00                          | 3,791.37              | 3,744.27              | 3,734.61              | 13.34            | 13.16         | -155.03               | -44.87                              | 224.06       | 342.65                 | 324.35                  | 18.30                     | 18.727            |                                                                |  |                              |  |
| 3,900.00                          | 3,890.16              | 3,839.57              | 3,828.36              | 13.72            | 13.53         | -154.98               | -51.00                              | 240.00       | 372.95                 | 354.17                  | 18.78                     | 19.861            |                                                                |  |                              |  |
| 4,000.00                          | 3,988.96              | 3,934.86              | 3,922.12              | 14.10            | 13.91         | -154.94               | -57.14                              | 255.94       | 403.25                 | 383.99                  | 19.26                     | 20.935            |                                                                |  |                              |  |
| 4,100.00                          | 4,087.75              | 4,030.16              | 4,015.88              | 14.49            | 14.29         | -154.91               | -63.28                              | 271.88       | 433.55                 | 413.81                  | 19.75                     | 21.954            |                                                                |  |                              |  |
| 4,200.00                          | 4,186.55              | 4,125.46              | 4,109.63              | 14.88            | 14.67         | -154.88               | -69.41                              | 287.81       | 463.86                 | 443.62                  | 20.24                     | 22.922            |                                                                |  |                              |  |
| 4,300.00                          | 4,285.34              | 4,220.76              | 4,203.39              | 15.27            | 15.05         | -154.85               | -75.55                              | 303.75       | 494.16                 | 473.43                  | 20.73                     | 23.842            |                                                                |  |                              |  |
| 4,400.00                          | 4,384.13              | 4,316.06              | 4,297.14              | 15.67            | 15.44         | -154.83               | -81.69                              | 319.69       | 524.46                 | 503.24                  | 21.22                     | 24.717            |                                                                |  |                              |  |
| 4,500.00                          | 4,482.93              | 4,411.36              | 4,390.90              | 16.06            | 15.83         | -154.80               | -87.82                              | 335.62       | 554.76                 | 533.05                  | 21.71                     | 25.551            |                                                                |  |                              |  |
| 4,600.00                          | 4,581.72              | 4,506.65              | 4,484.65              | 16.46            | 16.23         | -154.79               | -93.96                              | 351.56       | 585.06                 | 562.86                  | 22.21                     | 26.345            |                                                                |  |                              |  |
| 4,700.00                          | 4,680.52              | 4,601.95              | 4,578.41              | 16.86            | 16.62         | -154.77               | -100.10                             | 367.50       | 615.37                 | 592.66                  | 22.71                     | 27.102            |                                                                |  |                              |  |
| 4,800.00                          | 4,779.31              | 4,697.25              | 4,672.16              | 17.27            | 17.02         | -154.75               | -106.23                             | 383.43       | 645.67                 | 622.46                  | 23.20                     | 27.826            |                                                                |  |                              |  |
| 4,900.00                          | 4,878.11              | 4,792.55              | 4,765.92              | 17.67            | 17.42         | -154.74               | -112.37                             | 399.37       | 675.97                 | 652.27                  | 23.70                     | 28.517            |                                                                |  |                              |  |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 5,000.00                          | 4,976.90              | 4,887.85              | 4,859.68              | 18.08            | 17.82         | -154.73               | -118.51                             | 415.31       | 706.27                 | 682.07                  | 24.21                     | 29.178            |                    |           |
| 5,100.00                          | 5,075.70              | 4,983.15              | 4,953.43              | 18.49            | 18.22         | -154.72               | -124.65                             | 431.24       | 736.58                 | 711.87                  | 24.71                     | 29.810            |                    |           |
| 5,200.00                          | 5,174.49              | 5,078.44              | 5,047.19              | 18.90            | 18.63         | -154.71               | -130.78                             | 447.18       | 766.88                 | 741.66                  | 25.21                     | 30.416            |                    |           |
| 5,300.00                          | 5,273.29              | 5,173.74              | 5,140.94              | 19.31            | 19.04         | -154.70               | -136.92                             | 463.12       | 797.18                 | 771.46                  | 25.72                     | 30.996            |                    |           |
| 5,400.00                          | 5,372.08              | 5,269.04              | 5,234.70              | 19.72            | 19.44         | -154.69               | -143.06                             | 479.06       | 827.48                 | 801.26                  | 26.22                     | 31.553            |                    |           |
| 5,500.00                          | 5,470.88              | 5,364.34              | 5,328.45              | 20.13            | 19.85         | -154.68               | -149.19                             | 494.99       | 857.78                 | 831.05                  | 26.73                     | 32.088            |                    |           |
| 5,600.00                          | 5,569.67              | 5,459.64              | 5,422.21              | 20.54            | 20.27         | -154.67               | -155.33                             | 510.93       | 888.09                 | 860.85                  | 27.24                     | 32.602            |                    |           |
| 5,700.00                          | 5,668.47              | 5,554.93              | 5,515.96              | 20.96            | 20.68         | -154.66               | -161.47                             | 526.87       | 918.39                 | 890.64                  | 27.75                     | 33.095            |                    |           |
| 5,800.00                          | 5,767.26              | 5,650.23              | 5,609.72              | 21.38            | 21.09         | -154.66               | -167.60                             | 542.80       | 948.69                 | 920.43                  | 28.26                     | 33.570            |                    |           |
| 5,900.00                          | 5,866.06              | 5,745.53              | 5,703.48              | 21.79            | 21.51         | -154.65               | -173.74                             | 558.74       | 978.99                 | 950.22                  | 28.77                     | 34.027            |                    |           |
| 6,000.00                          | 5,964.85              | 5,840.83              | 5,797.23              | 22.21            | 21.92         | -154.64               | -179.88                             | 574.68       | 1,009.30               | 980.01                  | 29.28                     | 34.467            |                    |           |
| 6,100.00                          | 6,063.65              | 5,936.13              | 5,890.99              | 22.63            | 22.34         | -154.64               | -186.01                             | 590.61       | 1,039.60               | 1,009.80                | 29.80                     | 34.892            |                    |           |
| 6,200.00                          | 6,162.44              | 6,031.43              | 5,984.74              | 23.05            | 22.76         | -154.63               | -192.15                             | 606.55       | 1,069.90               | 1,039.59                | 30.31                     | 35.300            |                    |           |
| 6,300.00                          | 6,261.24              | 6,126.72              | 6,078.50              | 23.47            | 23.17         | -154.63               | -198.29                             | 622.49       | 1,100.20               | 1,069.38                | 30.82                     | 35.695            |                    |           |
| 6,400.00                          | 6,360.03              | 6,222.02              | 6,172.25              | 23.89            | 23.59         | -154.62               | -204.42                             | 638.43       | 1,130.51               | 1,099.17                | 31.34                     | 36.076            |                    |           |
| 6,500.00                          | 6,458.83              | 6,317.32              | 6,266.01              | 24.31            | 24.01         | -154.62               | -210.56                             | 654.36       | 1,160.81               | 1,128.96                | 31.85                     | 36.444            |                    |           |
| 6,600.00                          | 6,557.62              | 6,412.62              | 6,359.77              | 24.73            | 24.43         | -154.61               | -216.70                             | 670.30       | 1,191.11               | 1,158.74                | 32.37                     | 36.799            |                    |           |
| 6,700.00                          | 6,656.42              | 6,507.92              | 6,453.52              | 25.15            | 24.85         | -154.61               | -222.83                             | 686.24       | 1,221.41               | 1,188.53                | 32.88                     | 37.142            |                    |           |
| 6,800.00                          | 6,755.21              | 6,603.22              | 6,547.28              | 25.57            | 25.28         | -154.60               | -228.97                             | 702.17       | 1,251.72               | 1,218.31                | 33.40                     | 37.475            |                    |           |
| 6,900.00                          | 6,854.01              | 6,698.51              | 6,641.03              | 26.00            | 25.70         | -154.60               | -235.11                             | 718.11       | 1,282.02               | 1,248.10                | 33.92                     | 37.796            |                    |           |
| 7,000.00                          | 6,952.80              | 6,793.81              | 6,734.79              | 26.42            | 26.12         | -154.60               | -241.25                             | 734.05       | 1,312.32               | 1,277.88                | 34.44                     | 38.108            |                    |           |
| 7,100.00                          | 7,051.59              | 6,889.11              | 6,828.54              | 26.85            | 26.55         | -154.59               | -247.38                             | 749.98       | 1,342.62               | 1,307.67                | 34.96                     | 38.409            |                    |           |
| 7,200.00                          | 7,150.39              | 6,984.41              | 6,922.30              | 27.27            | 26.97         | -154.59               | -253.52                             | 765.92       | 1,372.93               | 1,337.45                | 35.48                     | 38.701            |                    |           |
| 7,300.00                          | 7,249.18              | 7,079.71              | 7,016.05              | 27.70            | 27.39         | -154.59               | -259.66                             | 781.86       | 1,403.23               | 1,367.23                | 35.99                     | 38.984            |                    |           |
| 7,400.00                          | 7,347.98              | 7,175.00              | 7,109.81              | 28.12            | 27.82         | -154.58               | -265.79                             | 797.79       | 1,433.53               | 1,397.02                | 36.51                     | 39.259            |                    |           |
| 7,411.16                          | 7,359.00              | 7,185.64              | 7,120.27              | 28.17            | 27.87         | -154.58               | -266.48                             | 799.57       | 1,436.91               | 1,400.34                | 36.57                     | 39.289            |                    |           |
| 7,500.00                          | 7,446.93              | 7,270.58              | 7,203.84              | 28.54            | 28.25         | -154.74               | -271.95                             | 813.78       | 1,462.94               | 1,425.91                | 37.03                     | 39.502            |                    |           |
| 7,600.00                          | 7,546.22              | 7,366.80              | 7,298.50              | 28.94            | 28.68         | -154.85               | -278.14                             | 829.87       | 1,490.10               | 1,452.54                | 37.55                     | 39.680            |                    |           |
| 7,700.00                          | 7,645.78              | 7,491.01              | 7,420.83              | 29.33            | 29.23         | -154.89               | -285.89                             | 849.97       | 1,514.54               | 1,476.31                | 38.23                     | 39.618            |                    |           |
| 7,800.00                          | 7,745.56              | 7,646.95              | 7,575.22              | 29.70            | 29.88         | -154.87               | -293.72                             | 870.32       | 1,533.50               | 1,494.45                | 39.04                     | 39.277            |                    |           |
| 7,900.00                          | 7,845.47              | 7,805.49              | 7,732.97              | 30.05            | 30.50         | -154.83               | -299.36                             | 884.96       | 1,546.34               | 1,506.54                | 39.80                     | 38.849            |                    |           |
| 8,004.78                          | 7,950.24              | 7,973.35              | 7,900.55              | 30.40            | 31.10         | 89.44                 | -302.76                             | 893.79       | 1,553.13               | 1,512.59                | 40.54                     | 38.314            |                    |           |
| 8,100.00                          | 8,045.46              | 8,126.47              | 8,053.65              | 30.70            | 31.60         | 89.47                 | -303.55                             | 895.84       | 1,554.40               | 1,513.26                | 41.14                     | 37.785            |                    |           |
| 8,129.38                          | 8,074.84              | 8,147.66              | 8,074.84              | 30.79            | 31.66         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,513.18                | 41.26                     | 37.676            |                    |           |
| 8,200.00                          | 8,145.46              | 8,218.28              | 8,145.46              | 31.02            | 31.88         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,512.85                | 41.59                     | 37.374            |                    |           |
| 8,300.00                          | 8,245.46              | 8,318.28              | 8,245.46              | 31.34            | 32.20         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,512.37                | 42.06                     | 36.954            |                    |           |
| 8,400.00                          | 8,345.46              | 8,418.28              | 8,345.46              | 31.66            | 32.51         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,511.90                | 42.54                     | 36.543            |                    |           |
| 8,500.00                          | 8,445.46              | 8,518.28              | 8,445.46              | 31.98            | 32.83         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,511.43                | 43.01                     | 36.141            |                    |           |
| 8,600.00                          | 8,545.46              | 8,618.28              | 8,545.46              | 32.31            | 33.14         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,510.95                | 43.49                     | 35.746            |                    |           |
| 8,700.00                          | 8,645.46              | 8,718.28              | 8,645.46              | 32.63            | 33.46         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,510.48                | 43.96                     | 35.359            |                    |           |
| 8,800.00                          | 8,745.46              | 8,818.28              | 8,745.46              | 32.96            | 33.78         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,510.00                | 44.44                     | 34.980            |                    |           |
| 8,900.00                          | 8,845.46              | 8,918.28              | 8,845.46              | 33.28            | 34.10         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,509.52                | 44.91                     | 34.609            |                    |           |
| 9,000.00                          | 8,945.46              | 9,018.28              | 8,945.46              | 33.61            | 34.42         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,509.05                | 45.39                     | 34.245            |                    |           |
| 9,100.00                          | 9,045.46              | 9,118.28              | 9,045.46              | 33.93            | 34.74         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,508.57                | 45.87                     | 33.888            |                    |           |
| 9,200.00                          | 9,145.46              | 9,218.28              | 9,145.46              | 34.26            | 35.06         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,508.09                | 46.35                     | 33.538            |                    |           |
| 9,300.00                          | 9,245.46              | 9,318.28              | 9,245.46              | 34.59            | 35.38         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,507.61                | 46.83                     | 33.195            |                    |           |
| 9,400.00                          | 9,345.46              | 9,418.28              | 9,345.46              | 34.92            | 35.70         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,507.13                | 47.31                     | 32.858            |                    |           |
| 9,500.00                          | 9,445.46              | 9,518.28              | 9,445.46              | 35.24            | 36.03         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,506.65                | 47.79                     | 32.527            |                    |           |
| 9,600.00                          | 9,545.46              | 9,618.28              | 9,545.46              | 35.57            | 36.35         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,506.17                | 48.27                     | 32.203            |                    |           |
| 9,700.00                          | 9,645.46              | 9,718.28              | 9,645.46              | 35.90            | 36.67         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,505.69                | 48.75                     | 31.885            |                    |           |
| 9,800.00                          | 9,745.46              | 9,818.28              | 9,745.46              | 36.23            | 37.00         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,505.20                | 49.23                     | 31.573            |                    |           |
| 9,900.00                          | 9,845.46              | 9,918.28              | 9,845.46              | 36.57            | 37.32         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,504.72                | 49.72                     | 31.266            |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 10,000.00                         | 9,945.46              | 10,018.28             | 9,945.46              | 36.90            | 37.65         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,504.24                | 50.20                     | 30.966            |                    |           |
| 10,100.00                         | 10,045.46             | 10,118.28             | 10,045.46             | 37.23            | 37.98         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,503.76                | 50.68                     | 30.670            |                    |           |
| 10,200.00                         | 10,145.46             | 10,218.28             | 10,145.46             | 37.56            | 38.30         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,503.27                | 51.17                     | 30.380            |                    |           |
| 10,300.00                         | 10,245.46             | 10,318.28             | 10,245.46             | 37.89            | 38.63         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,502.79                | 51.65                     | 30.095            |                    |           |
| 10,400.00                         | 10,345.46             | 10,418.28             | 10,345.46             | 38.23            | 38.96         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,502.30                | 52.14                     | 29.815            |                    |           |
| 10,500.00                         | 10,445.46             | 10,518.28             | 10,445.46             | 38.56            | 39.29         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,501.82                | 52.62                     | 29.540            |                    |           |
| 10,600.00                         | 10,545.46             | 10,618.28             | 10,545.46             | 38.90            | 39.62         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,501.33                | 53.11                     | 29.270            |                    |           |
| 10,700.00                         | 10,645.46             | 10,718.28             | 10,645.46             | 39.23            | 39.95         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,500.85                | 53.59                     | 29.005            |                    |           |
| 10,800.00                         | 10,745.46             | 10,818.28             | 10,745.46             | 39.57            | 40.28         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,500.36                | 54.08                     | 28.744            |                    |           |
| 10,900.00                         | 10,845.46             | 10,918.28             | 10,845.46             | 39.90            | 40.61         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,499.87                | 54.57                     | 28.487            |                    |           |
| 11,000.00                         | 10,945.46             | 11,018.28             | 10,945.46             | 40.24            | 40.94         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,499.38                | 55.05                     | 28.235            |                    |           |
| 11,100.00                         | 11,045.46             | 11,118.28             | 11,045.46             | 40.57            | 41.27         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,498.90                | 55.54                     | 27.987            |                    |           |
| 11,200.00                         | 11,145.46             | 11,218.28             | 11,145.46             | 40.91            | 41.61         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,498.41                | 56.03                     | 27.744            |                    |           |
| 11,300.00                         | 11,245.46             | 11,318.28             | 11,245.46             | 41.25            | 41.94         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,497.92                | 56.52                     | 27.504            |                    |           |
| 11,305.09                         | 11,250.55             | 11,323.37             | 11,250.55             | 41.27            | 41.96         | 89.47                 | -303.57                             | 895.90       | 1,554.44               | 1,497.90                | 56.54                     | 27.492            |                    |           |
| 11,400.00                         | 11,345.46             | 11,417.88             | 11,344.89             | 41.59            | 42.27         | 89.61                 | -307.61                             | 895.94       | 1,554.44               | 1,497.44                | 57.00                     | 27.269            |                    |           |
| 11,500.00                         | 11,445.46             | 11,513.48             | 11,438.44             | 41.92            | 42.60         | 90.32                 | -326.78                             | 896.13       | 1,554.64               | 1,497.15                | 57.49                     | 27.041            |                    |           |
| 11,532.54                         | 11,478.00             | 11,542.92             | 11,466.47             | 42.03            | 42.71         | 90.65                 | -335.80                             | 896.21       | 1,554.83               | 1,497.18                | 57.65                     | 26.971            |                    |           |
| 11,550.00                         | 11,495.46             | 11,558.39             | 11,480.99             | 42.09            | 42.76         | -88.64                | -341.11                             | 896.27       | 1,554.97               | 1,497.24                | 57.73                     | 26.935            |                    |           |
| 11,600.00                         | 11,545.30             | 11,600.00             | 11,519.30             | 42.26            | 42.91         | -88.10                | -357.32                             | 896.42       | 1,555.48               | 1,497.52                | 57.96                     | 26.836            |                    |           |
| 11,650.00                         | 11,594.64             | 11,644.73             | 11,559.05             | 42.43            | 43.07         | -87.52                | -377.80                             | 896.62       | 1,556.13               | 1,497.92                | 58.21                     | 26.734            |                    |           |
| 11,700.00                         | 11,643.08             | 11,686.62             | 11,594.73             | 42.61            | 43.22         | -86.98                | -399.74                             | 896.84       | 1,556.91               | 1,498.46                | 58.45                     | 26.637            |                    |           |
| 11,750.00                         | 11,690.27             | 11,727.78             | 11,628.14             | 42.79            | 43.37         | -86.47                | -423.77                             | 897.07       | 1,557.78               | 1,499.09                | 58.69                     | 26.543            |                    |           |
| 11,800.00                         | 11,735.85             | 11,768.30             | 11,659.25             | 42.97            | 43.52         | -85.97                | -449.71                             | 897.33       | 1,558.73               | 1,499.80                | 58.93                     | 26.450            |                    |           |
| 11,850.00                         | 11,779.46             | 11,808.23             | 11,688.05             | 43.15            | 43.67         | -85.50                | -477.37                             | 897.60       | 1,559.74               | 1,500.56                | 59.17                     | 26.358            |                    |           |
| 11,900.00                         | 11,820.78             | 11,850.00             | 11,716.02             | 43.34            | 43.82         | -85.04                | -508.36                             | 897.90       | 1,560.77               | 1,501.34                | 59.43                     | 26.263            |                    |           |
| 11,950.00                         | 11,859.49             | 11,886.64             | 11,738.65             | 43.52            | 43.96         | -84.65                | -537.17                             | 898.18       | 1,561.80               | 1,502.14                | 59.67                     | 26.176            |                    |           |
| 12,000.00                         | 11,895.30             | 11,925.22             | 11,760.44             | 43.71            | 44.11         | -84.27                | -569.00                             | 898.49       | 1,562.81               | 1,502.90                | 59.91                     | 26.084            |                    |           |
| 12,050.00                         | 11,927.93             | 11,963.46             | 11,779.87             | 43.90            | 44.26         | -83.93                | -601.92                             | 898.81       | 1,563.78               | 1,503.61                | 60.17                     | 25.990            |                    |           |
| 12,100.00                         | 11,957.13             | 12,000.00             | 11,796.35             | 44.09            | 44.41         | -83.63                | -634.53                             | 899.13       | 1,564.69               | 1,504.27                | 60.42                     | 25.897            |                    |           |
| 12,150.00                         | 11,982.69             | 12,039.10             | 11,811.64             | 44.29            | 44.58         | -83.36                | -670.50                             | 899.48       | 1,565.51               | 1,504.82                | 60.69                     | 25.795            |                    |           |
| 12,200.00                         | 12,004.41             | 12,076.59             | 11,823.97             | 44.50            | 44.74         | -83.13                | -705.90                             | 899.83       | 1,566.23               | 1,505.27                | 60.96                     | 25.692            |                    |           |
| 12,250.00                         | 12,022.12             | 12,113.90             | 11,833.91             | 44.72            | 44.91         | -82.94                | -741.86                             | 900.18       | 1,566.84               | 1,505.60                | 61.24                     | 25.584            |                    |           |
| 12,300.00                         | 12,035.70             | 12,150.00             | 11,841.28             | 44.95            | 45.08         | -82.80                | -777.19                             | 900.52       | 1,567.33               | 1,505.80                | 61.53                     | 25.474            |                    |           |
| 12,350.00                         | 12,045.02             | 12,188.19             | 11,846.65             | 45.18            | 45.26         | -82.70                | -814.98                             | 900.89       | 1,567.68               | 1,505.85                | 61.83                     | 25.355            |                    |           |
| 12,400.00                         | 12,050.03             | 12,225.22             | 11,849.43             | 45.42            | 45.44         | -82.65                | -851.91                             | 901.25       | 1,567.89               | 1,505.76                | 62.13                     | 25.234            |                    |           |
| 12,425.00                         | 12,050.91             | 12,245.45             | 11,849.98             | 45.55            | 45.54         | -82.64                | -872.12                             | 901.45       | 1,567.94               | 1,505.64                | 62.30                     | 25.169            |                    |           |
| 12,500.00                         | 12,051.90             | 12,320.44             | 11,851.42             | 45.94            | 45.93         | -82.65                | -947.10                             | 902.18       | 1,567.96               | 1,505.09                | 62.86                     | 24.942            |                    |           |
| 12,600.00                         | 12,053.21             | 12,420.44             | 11,853.33             | 46.50            | 46.49         | -82.68                | -1,047.08                           | 903.16       | 1,567.98               | 1,504.29                | 63.68                     | 24.621            |                    |           |
| 12,700.00                         | 12,054.53             | 12,520.44             | 11,855.24             | 47.12            | 47.11         | -82.70                | -1,147.05                           | 904.13       | 1,568.00               | 1,503.42                | 64.58                     | 24.280            |                    |           |
| 12,800.00                         | 12,055.84             | 12,620.44             | 11,857.16             | 47.78            | 47.78         | -82.72                | -1,247.03                           | 905.11       | 1,568.03               | 1,502.48                | 65.54                     | 23.924            |                    |           |
| 12,900.00                         | 12,057.16             | 12,720.44             | 11,859.07             | 48.50            | 48.49         | -82.74                | -1,347.00                           | 906.09       | 1,568.05               | 1,501.48                | 66.57                     | 23.553            |                    |           |
| 13,000.00                         | 12,058.48             | 12,820.43             | 11,860.99             | 49.26            | 49.25         | -82.76                | -1,446.98                           | 907.06       | 1,568.08               | 1,500.41                | 67.67                     | 23.173            |                    |           |
| 13,100.00                         | 12,059.79             | 12,920.43             | 11,862.90             | 50.06            | 50.06         | -82.79                | -1,546.95                           | 908.04       | 1,568.10               | 1,499.27                | 68.83                     | 22.783            |                    |           |
| 13,200.00                         | 12,061.11             | 13,020.43             | 11,864.82             | 50.90            | 50.90         | -82.81                | -1,646.93                           | 909.01       | 1,568.13               | 1,498.08                | 70.04                     | 22.389            |                    |           |
| 13,300.00                         | 12,062.43             | 13,120.43             | 11,866.73             | 51.78            | 51.79         | -82.83                | -1,746.90                           | 909.99       | 1,568.15               | 1,496.84                | 71.31                     | 21.990            |                    |           |
| 13,400.00                         | 12,063.74             | 13,220.43             | 11,868.65             | 52.70            | 52.71         | -82.85                | -1,846.88                           | 910.97       | 1,568.18               | 1,495.54                | 72.63                     | 21.591            |                    |           |
| 13,500.00                         | 12,065.06             | 13,320.43             | 11,870.56             | 53.65            | 53.66         | -82.88                | -1,946.85                           | 911.94       | 1,568.20               | 1,494.20                | 74.00                     | 21.191            |                    |           |
| 13,600.00                         | 12,066.37             | 13,420.42             | 11,872.48             | 54.64            | 54.65         | -82.90                | -2,046.83                           | 912.92       | 1,568.23               | 1,492.80                | 75.42                     | 20.793            |                    |           |
| 13,700.00                         | 12,067.69             | 13,520.42             | 11,874.39             | 55.66            | 55.68         | -82.92                | -2,146.80                           | 913.89       | 1,568.25               | 1,491.37                | 76.88                     | 20.397            |                    |           |
| 13,800.00                         | 12,069.01             | 13,620.42             | 11,876.31             | 56.71            | 56.73         | -82.94                | -2,246.78                           | 914.87       | 1,568.28               | 1,489.89                | 78.39                     | 20.006            |                    |           |
| 13,900.00                         | 12,070.32             | 13,720.42             | 11,878.22             | 57.78            | 57.81         | -82.96                | -2,346.75                           | 915.85       | 1,568.31               | 1,488.37                | 79.93                     | 19.620            |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 14,000.00                         | 12,071.64             | 13,820.42             | 11,880.13             | 58.89            | 58.91         | -82.99                | -2,446.73                           | 916.82       | 1,568.33               | 1,486.82                | 81.51                     | 19.240            |                    |           |
| 14,100.00                         | 12,072.96             | 13,920.41             | 11,882.05             | 60.02            | 60.04         | -83.01                | -2,546.70                           | 917.80       | 1,568.36               | 1,485.23                | 83.13                     | 18.866            |                    |           |
| 14,200.00                         | 12,074.27             | 14,020.41             | 11,883.96             | 61.17            | 61.20         | -83.03                | -2,646.68                           | 918.77       | 1,568.39               | 1,483.61                | 84.78                     | 18.500            |                    |           |
| 14,300.00                         | 12,075.59             | 14,120.41             | 11,885.88             | 62.34            | 62.38         | -83.05                | -2,746.65                           | 919.75       | 1,568.41               | 1,481.95                | 86.46                     | 18.141            |                    |           |
| 14,400.00                         | 12,076.90             | 14,220.41             | 11,887.79             | 63.54            | 63.57         | -83.07                | -2,846.63                           | 920.73       | 1,568.44               | 1,480.27                | 88.17                     | 17.789            |                    |           |
| 14,500.00                         | 12,078.22             | 14,320.41             | 11,889.71             | 64.76            | 64.79         | -83.10                | -2,946.60                           | 921.70       | 1,568.47               | 1,478.56                | 89.91                     | 17.446            |                    |           |
| 14,600.00                         | 12,079.54             | 14,420.41             | 11,891.62             | 65.99            | 66.03         | -83.12                | -3,046.58                           | 922.68       | 1,568.50               | 1,476.83                | 91.67                     | 17.110            |                    |           |
| 14,700.00                         | 12,080.85             | 14,520.40             | 11,893.54             | 67.25            | 67.29         | -83.14                | -3,146.55                           | 923.66       | 1,568.53               | 1,475.07                | 93.46                     | 16.783            |                    |           |
| 14,800.00                         | 12,082.17             | 14,620.40             | 11,895.45             | 68.52            | 68.56         | -83.16                | -3,246.53                           | 924.63       | 1,568.55               | 1,473.28                | 95.27                     | 16.464            |                    |           |
| 14,900.00                         | 12,083.49             | 14,720.40             | 11,897.37             | 69.80            | 69.85         | -83.19                | -3,346.50                           | 925.61       | 1,568.58               | 1,471.48                | 97.10                     | 16.154            |                    |           |
| 15,000.00                         | 12,084.80             | 14,820.40             | 11,899.28             | 71.10            | 71.15         | -83.21                | -3,446.48                           | 926.58       | 1,568.61               | 1,469.65                | 98.96                     | 15.851            |                    |           |
| 15,100.00                         | 12,086.12             | 14,920.40             | 11,901.20             | 72.42            | 72.47         | -83.23                | -3,546.45                           | 927.56       | 1,568.64               | 1,467.81                | 100.83                    | 15.557            |                    |           |
| 15,200.00                         | 12,087.43             | 15,020.39             | 11,903.11             | 73.75            | 73.80         | -83.25                | -3,646.43                           | 928.54       | 1,568.67               | 1,465.94                | 102.73                    | 15.271            |                    |           |
| 15,300.00                         | 12,088.75             | 15,120.39             | 11,905.02             | 75.09            | 75.14         | -83.27                | -3,746.40                           | 929.51       | 1,568.70               | 1,464.06                | 104.64                    | 14.992            |                    |           |
| 15,400.00                         | 12,090.07             | 15,220.39             | 11,906.94             | 76.44            | 76.50         | -83.30                | -3,846.38                           | 930.49       | 1,568.73               | 1,462.17                | 106.56                    | 14.721            |                    |           |
| 15,500.00                         | 12,091.38             | 15,320.39             | 11,908.85             | 77.81            | 77.86         | -83.32                | -3,946.35                           | 931.46       | 1,568.76               | 1,460.25                | 108.51                    | 14.458            |                    |           |
| 15,600.00                         | 12,092.70             | 15,420.39             | 11,910.77             | 79.19            | 79.24         | -83.34                | -4,046.33                           | 932.44       | 1,568.79               | 1,458.33                | 110.46                    | 14.202            |                    |           |
| 15,700.00                         | 12,094.02             | 15,520.39             | 11,912.68             | 80.57            | 80.63         | -83.36                | -4,146.30                           | 933.42       | 1,568.82               | 1,456.39                | 112.44                    | 13.953            |                    |           |
| 15,800.00                         | 12,095.33             | 15,620.38             | 11,914.60             | 81.97            | 82.03         | -83.38                | -4,246.28                           | 934.39       | 1,568.85               | 1,454.43                | 114.42                    | 13.711            |                    |           |
| 15,900.00                         | 12,096.65             | 15,720.38             | 11,916.51             | 83.38            | 83.44         | -83.41                | -4,346.26                           | 935.37       | 1,568.88               | 1,452.46                | 116.42                    | 13.476            |                    |           |
| 16,000.00                         | 12,097.97             | 15,820.38             | 11,918.43             | 84.79            | 84.85         | -83.43                | -4,446.23                           | 936.34       | 1,568.91               | 1,450.49                | 118.43                    | 13.248            |                    |           |
| 16,100.00                         | 12,099.28             | 15,920.38             | 11,920.34             | 86.21            | 86.28         | -83.45                | -4,546.21                           | 937.32       | 1,568.95               | 1,448.50                | 120.45                    | 13.026            |                    |           |
| 16,200.00                         | 12,100.60             | 16,020.38             | 11,922.26             | 87.65            | 87.71         | -83.47                | -4,646.18                           | 938.30       | 1,568.98               | 1,446.50                | 122.48                    | 12.810            |                    |           |
| 16,300.00                         | 12,101.91             | 16,120.37             | 11,924.17             | 89.08            | 89.15         | -83.50                | -4,746.16                           | 939.27       | 1,569.01               | 1,444.48                | 124.53                    | 12.600            |                    |           |
| 16,400.00                         | 12,103.23             | 16,220.37             | 11,926.09             | 90.53            | 90.60         | -83.52                | -4,846.13                           | 940.25       | 1,569.04               | 1,442.46                | 126.58                    | 12.396            |                    |           |
| 16,500.00                         | 12,104.55             | 16,320.37             | 11,928.00             | 91.98            | 92.06         | -83.54                | -4,946.11                           | 941.22       | 1,569.08               | 1,440.43                | 128.64                    | 12.197            |                    |           |
| 16,600.00                         | 12,105.86             | 16,420.37             | 11,929.92             | 93.44            | 93.52         | -83.56                | -5,046.08                           | 942.20       | 1,569.11               | 1,438.39                | 130.71                    | 12.004            |                    |           |
| 16,700.00                         | 12,107.18             | 16,520.37             | 11,931.83             | 94.91            | 94.98         | -83.58                | -5,146.06                           | 943.18       | 1,569.14               | 1,436.35                | 132.79                    | 11.816            |                    |           |
| 16,800.00                         | 12,108.50             | 16,620.36             | 11,933.74             | 96.38            | 96.46         | -83.61                | -5,246.03                           | 944.15       | 1,569.17               | 1,434.29                | 134.88                    | 11.634            |                    |           |
| 16,900.00                         | 12,109.81             | 16,720.36             | 11,935.66             | 97.86            | 97.94         | -83.63                | -5,346.01                           | 945.13       | 1,569.21               | 1,432.23                | 136.98                    | 11.456            |                    |           |
| 17,000.00                         | 12,111.13             | 16,820.36             | 11,937.57             | 99.34            | 99.42         | -83.65                | -5,445.98                           | 946.10       | 1,569.24               | 1,430.16                | 139.08                    | 11.283            |                    |           |
| 17,100.00                         | 12,112.44             | 16,920.36             | 11,939.49             | 100.83           | 100.91        | -83.67                | -5,545.96                           | 947.08       | 1,569.28               | 1,428.08                | 141.20                    | 11.114            |                    |           |
| 17,200.00                         | 12,113.76             | 17,020.36             | 11,941.40             | 102.33           | 102.41        | -83.69                | -5,645.93                           | 948.06       | 1,569.31               | 1,426.00                | 143.31                    | 10.950            |                    |           |
| 17,300.00                         | 12,115.08             | 17,120.36             | 11,943.32             | 103.83           | 103.91        | -83.72                | -5,745.91                           | 949.03       | 1,569.34               | 1,423.91                | 145.44                    | 10.790            |                    |           |
| 17,400.00                         | 12,116.39             | 17,220.35             | 11,945.23             | 105.33           | 105.41        | -83.74                | -5,845.88                           | 950.01       | 1,569.38               | 1,421.81                | 147.57                    | 10.635            |                    |           |
| 17,500.00                         | 12,117.71             | 17,320.35             | 11,947.15             | 106.84           | 106.92        | -83.76                | -5,945.86                           | 950.98       | 1,569.41               | 1,419.71                | 149.71                    | 10.483            |                    |           |
| 17,600.00                         | 12,119.03             | 17,420.35             | 11,949.06             | 108.35           | 108.43        | -83.78                | -6,045.83                           | 951.96       | 1,569.45               | 1,417.60                | 151.85                    | 10.336            |                    |           |
| 17,700.00                         | 12,120.34             | 17,520.35             | 11,950.98             | 109.86           | 109.95        | -83.80                | -6,145.81                           | 952.94       | 1,569.48               | 1,415.49                | 154.00                    | 10.192            |                    |           |
| 17,800.00                         | 12,121.66             | 17,620.35             | 11,952.89             | 111.38           | 111.47        | -83.83                | -6,245.78                           | 953.91       | 1,569.52               | 1,413.37                | 156.15                    | 10.051            |                    |           |
| 17,900.00                         | 12,122.97             | 17,720.34             | 11,954.81             | 112.91           | 112.99        | -83.85                | -6,345.76                           | 954.89       | 1,569.56               | 1,411.25                | 158.31                    | 9.915             |                    |           |
| 18,000.00                         | 12,124.29             | 17,820.34             | 11,956.72             | 114.43           | 114.52        | -83.87                | -6,445.73                           | 955.86       | 1,569.59               | 1,409.12                | 160.47                    | 9.781             |                    |           |
| 18,100.00                         | 12,125.61             | 17,920.34             | 11,958.63             | 115.96           | 116.05        | -83.89                | -6,545.71                           | 956.84       | 1,569.63               | 1,406.99                | 162.64                    | 9.651             |                    |           |
| 18,200.00                         | 12,126.92             | 18,020.34             | 11,960.55             | 117.50           | 117.59        | -83.92                | -6,645.68                           | 957.82       | 1,569.66               | 1,404.85                | 164.81                    | 9.524             |                    |           |
| 18,300.00                         | 12,128.24             | 18,120.34             | 11,962.46             | 119.04           | 119.13        | -83.94                | -6,745.66                           | 958.79       | 1,569.70               | 1,402.71                | 166.99                    | 9.400             |                    |           |
| 18,400.00                         | 12,129.56             | 18,220.34             | 11,964.38             | 120.58           | 120.67        | -83.96                | -6,845.63                           | 959.77       | 1,569.74               | 1,400.56                | 169.17                    | 9.279             |                    |           |
| 18,500.00                         | 12,130.87             | 18,320.33             | 11,966.29             | 122.12           | 122.21        | -83.98                | -6,945.61                           | 960.74       | 1,569.77               | 1,398.42                | 171.36                    | 9.161             |                    |           |
| 18,600.00                         | 12,132.19             | 18,420.33             | 11,968.21             | 123.66           | 123.76        | -84.00                | -7,045.58                           | 961.72       | 1,569.81               | 1,396.26                | 173.55                    | 9.045             |                    |           |
| 18,700.00                         | 12,133.50             | 18,520.33             | 11,970.12             | 125.21           | 125.31        | -84.03                | -7,145.56                           | 962.70       | 1,569.85               | 1,394.11                | 175.74                    | 8.933             |                    |           |
| 18,800.00                         | 12,134.82             | 18,620.33             | 11,972.04             | 126.76           | 126.86        | -84.05                | -7,245.53                           | 963.67       | 1,569.89               | 1,391.95                | 177.94                    | 8.823             |                    |           |
| 18,900.00                         | 12,136.14             | 18,720.33             | 11,973.95             | 128.32           | 128.41        | -84.07                | -7,345.51                           | 964.65       | 1,569.93               | 1,389.79                | 180.14                    | 8.715             |                    |           |
| 19,000.00                         | 12,137.45             | 18,820.32             | 11,975.87             | 129.87           | 129.97        | -84.09                | -7,445.48                           | 965.62       | 1,569.96               | 1,387.62                | 182.34                    | 8.610             |                    |           |
| 19,100.00                         | 12,138.77             | 18,920.32             | 11,977.78             | 131.43           | 131.53        | -84.11                | -7,545.46                           | 966.60       | 1,570.00               | 1,385.46                | 184.55                    | 8.507             |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 19,200.00                         | 12,140.09             | 19,020.32             | 11,979.70             | 132.99           | 133.09        | -84.14                | -7,645.43                           | 967.58       | 1,570.04               | 1,383.28                | 186.76                    | 8.407             |                    |           |
| 19,300.00                         | 12,141.40             | 19,120.32             | 11,981.61             | 134.56           | 134.66        | -84.16                | -7,745.41                           | 968.55       | 1,570.08               | 1,381.11                | 188.97                    | 8.309             |                    |           |
| 19,400.00                         | 12,142.72             | 19,220.32             | 11,983.52             | 136.12           | 136.22        | -84.18                | -7,845.38                           | 969.53       | 1,570.12               | 1,378.93                | 191.19                    | 8.213             |                    |           |
| 19,500.00                         | 12,144.03             | 19,320.32             | 11,985.44             | 137.69           | 137.79        | -84.20                | -7,945.36                           | 970.50       | 1,570.16               | 1,376.76                | 193.40                    | 8.119             |                    |           |
| 19,600.00                         | 12,145.35             | 19,420.31             | 11,987.35             | 139.26           | 139.36        | -84.22                | -8,045.33                           | 971.48       | 1,570.20               | 1,374.57                | 195.63                    | 8.027             |                    |           |
| 19,700.00                         | 12,146.67             | 19,520.31             | 11,989.27             | 140.83           | 140.93        | -84.25                | -8,145.31                           | 972.46       | 1,570.24               | 1,372.39                | 197.85                    | 7.937             |                    |           |
| 19,800.00                         | 12,147.98             | 19,620.31             | 11,991.18             | 142.40           | 142.50        | -84.27                | -8,245.28                           | 973.43       | 1,570.28               | 1,370.20                | 200.08                    | 7.848             |                    |           |
| 19,900.00                         | 12,149.30             | 19,720.31             | 11,993.10             | 143.98           | 144.08        | -84.29                | -8,345.26                           | 974.41       | 1,570.32               | 1,368.01                | 202.31                    | 7.762             |                    |           |
| 20,000.00                         | 12,150.62             | 19,820.31             | 11,995.01             | 145.55           | 145.66        | -84.31                | -8,445.23                           | 975.38       | 1,570.36               | 1,365.82                | 204.54                    | 7.678             |                    |           |
| 20,100.00                         | 12,151.93             | 19,920.30             | 11,996.93             | 147.13           | 147.24        | -84.34                | -8,545.21                           | 976.36       | 1,570.40               | 1,363.63                | 206.77                    | 7.595             |                    |           |
| 20,200.00                         | 12,153.25             | 20,020.30             | 11,998.84             | 148.71           | 148.82        | -84.36                | -8,645.18                           | 977.34       | 1,570.44               | 1,361.43                | 209.01                    | 7.514             |                    |           |
| 20,300.00                         | 12,154.56             | 20,120.30             | 12,000.76             | 150.29           | 150.40        | -84.38                | -8,745.16                           | 978.31       | 1,570.48               | 1,359.24                | 211.25                    | 7.434             |                    |           |
| 20,400.00                         | 12,155.88             | 20,220.30             | 12,002.67             | 151.87           | 151.98        | -84.40                | -8,845.13                           | 979.29       | 1,570.53               | 1,357.04                | 213.49                    | 7.356             |                    |           |
| 20,500.00                         | 12,157.20             | 20,320.30             | 12,004.59             | 153.46           | 153.57        | -84.42                | -8,945.11                           | 980.26       | 1,570.57               | 1,354.84                | 215.73                    | 7.280             |                    |           |
| 20,600.00                         | 12,158.51             | 20,420.30             | 12,006.50             | 155.04           | 155.15        | -84.45                | -9,045.08                           | 981.24       | 1,570.61               | 1,352.63                | 217.98                    | 7.205             |                    |           |
| 20,700.00                         | 12,159.83             | 20,520.29             | 12,008.41             | 156.63           | 156.74        | -84.47                | -9,145.06                           | 982.22       | 1,570.65               | 1,350.43                | 220.22                    | 7.132             |                    |           |
| 20,800.00                         | 12,161.15             | 20,620.29             | 12,010.33             | 158.22           | 158.33        | -84.49                | -9,245.03                           | 983.19       | 1,570.70               | 1,348.22                | 222.47                    | 7.060             |                    |           |
| 20,900.00                         | 12,162.46             | 20,720.29             | 12,012.24             | 159.81           | 159.92        | -84.51                | -9,345.01                           | 984.17       | 1,570.74               | 1,346.02                | 224.72                    | 6.990             |                    |           |
| 21,000.00                         | 12,163.78             | 20,820.29             | 12,014.16             | 161.40           | 161.51        | -84.53                | -9,444.98                           | 985.14       | 1,570.78               | 1,343.81                | 226.97                    | 6.921             |                    |           |
| 21,100.00                         | 12,165.10             | 20,920.29             | 12,016.07             | 162.99           | 163.10        | -84.56                | -9,544.96                           | 986.12       | 1,570.82               | 1,341.60                | 229.23                    | 6.853             |                    |           |
| 21,200.00                         | 12,166.41             | 21,020.28             | 12,017.99             | 164.58           | 164.70        | -84.58                | -9,644.93                           | 987.10       | 1,570.87               | 1,339.38                | 231.48                    | 6.786             |                    |           |
| 21,300.00                         | 12,167.73             | 21,120.28             | 12,019.90             | 166.18           | 166.29        | -84.60                | -9,744.91                           | 988.07       | 1,570.91               | 1,337.17                | 233.74                    | 6.721             |                    |           |
| 21,400.00                         | 12,169.04             | 21,220.28             | 12,021.82             | 167.77           | 167.89        | -84.62                | -9,844.88                           | 989.05       | 1,570.96               | 1,334.96                | 236.00                    | 6.657             |                    |           |
| 21,500.00                         | 12,170.36             | 21,320.28             | 12,023.73             | 169.37           | 169.49        | -84.64                | -9,944.86                           | 990.02       | 1,571.00               | 1,332.74                | 238.26                    | 6.594             |                    |           |
| 21,600.00                         | 12,171.68             | 21,420.28             | 12,025.65             | 170.97           | 171.08        | -84.67                | -10,044.83                          | 991.00       | 1,571.04               | 1,330.52                | 240.52                    | 6.532             |                    |           |
| 21,700.00                         | 12,172.99             | 21,520.27             | 12,027.56             | 172.57           | 172.68        | -84.69                | -10,144.81                          | 991.98       | 1,571.09               | 1,328.30                | 242.78                    | 6.471             |                    |           |
| 21,800.00                         | 12,174.31             | 21,620.27             | 12,029.48             | 174.17           | 174.28        | -84.71                | -10,244.78                          | 992.95       | 1,571.13               | 1,326.08                | 245.05                    | 6.411             |                    |           |
| 21,900.00                         | 12,175.63             | 21,720.27             | 12,031.39             | 175.77           | 175.88        | -84.73                | -10,344.76                          | 993.93       | 1,571.18               | 1,323.86                | 247.32                    | 6.353             |                    |           |
| 22,000.00                         | 12,176.94             | 21,820.27             | 12,033.31             | 177.37           | 177.49        | -84.75                | -10,444.73                          | 994.90       | 1,571.22               | 1,321.64                | 249.58                    | 6.295             |                    |           |
| 22,100.00                         | 12,178.26             | 21,920.27             | 12,035.22             | 178.97           | 179.09        | -84.78                | -10,544.71                          | 995.88       | 1,571.27               | 1,319.42                | 251.85                    | 6.239             |                    |           |
| 22,200.00                         | 12,179.57             | 22,020.27             | 12,037.13             | 180.58           | 180.69        | -84.80                | -10,644.68                          | 996.86       | 1,571.32               | 1,317.19                | 254.12                    | 6.183             |                    |           |
| 22,300.00                         | 12,180.89             | 22,120.26             | 12,039.05             | 182.18           | 182.30        | -84.82                | -10,744.66                          | 997.83       | 1,571.36               | 1,314.97                | 256.39                    | 6.129             |                    |           |
| 22,400.00                         | 12,182.21             | 22,220.26             | 12,040.96             | 183.79           | 183.90        | -84.84                | -10,844.63                          | 998.81       | 1,571.41               | 1,312.74                | 258.67                    | 6.075             |                    |           |
| 22,500.00                         | 12,183.52             | 22,320.26             | 12,042.88             | 185.39           | 185.51        | -84.87                | -10,944.61                          | 999.78       | 1,571.45               | 1,310.51                | 260.94                    | 6.022             |                    |           |
| 22,600.00                         | 12,184.84             | 22,420.26             | 12,044.79             | 187.00           | 187.12        | -84.89                | -11,044.58                          | 1,000.76     | 1,571.50               | 1,308.29                | 263.22                    | 5.970             |                    |           |
| 22,700.00                         | 12,186.16             | 22,520.26             | 12,046.71             | 188.61           | 188.73        | -84.91                | -11,144.56                          | 1,001.74     | 1,571.55               | 1,306.06                | 265.49                    | 5.919             |                    |           |
| 22,800.00                         | 12,187.47             | 22,620.25             | 12,048.62             | 190.21           | 190.34        | -84.93                | -11,244.53                          | 1,002.71     | 1,571.60               | 1,303.83                | 267.77                    | 5.869             |                    |           |
| 22,900.00                         | 12,188.79             | 22,720.25             | 12,050.54             | 191.82           | 191.94        | -84.95                | -11,344.51                          | 1,003.69     | 1,571.64               | 1,301.60                | 270.05                    | 5.820             |                    |           |
| 23,000.00                         | 12,190.10             | 22,820.25             | 12,052.45             | 193.43           | 193.56        | -84.98                | -11,444.48                          | 1,004.66     | 1,571.69               | 1,299.36                | 272.33                    | 5.771             |                    |           |
| 23,100.00                         | 12,191.42             | 22,920.25             | 12,054.37             | 195.04           | 195.17        | -85.00                | -11,544.46                          | 1,005.64     | 1,571.74               | 1,297.13                | 274.61                    | 5.724             |                    |           |
| 23,200.00                         | 12,192.74             | 23,020.25             | 12,056.28             | 196.66           | 196.78        | -85.02                | -11,644.43                          | 1,006.62     | 1,571.79               | 1,294.90                | 276.89                    | 5.677             |                    |           |
| 23,300.00                         | 12,194.05             | 23,120.25             | 12,058.20             | 198.27           | 198.39        | -85.04                | -11,744.41                          | 1,007.59     | 1,571.84               | 1,292.66                | 279.17                    | 5.630             |                    |           |
| 23,400.00                         | 12,195.37             | 23,220.24             | 12,060.11             | 199.88           | 200.00        | -85.06                | -11,844.38                          | 1,008.57     | 1,571.88               | 1,290.43                | 281.46                    | 5.585             |                    |           |
| 23,500.00                         | 12,196.69             | 23,320.24             | 12,062.02             | 201.49           | 201.62        | -85.09                | -11,944.36                          | 1,009.54     | 1,571.93               | 1,288.19                | 283.74                    | 5.540             |                    |           |
| 23,594.56                         | 12,197.93             | 23,411.94             | 12,063.78             | 203.02           | 203.10        | -85.11                | -12,036.04                          | 1,010.44     | 1,571.98               | 1,286.11                | 285.87                    | 5.499 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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |          |          |          |                 |        |          |                        |        |         |          |            |            | Bus Driver/Kaston Fed Com - Kaston Fed Com 703H - OH - Plan #4 |  | 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                             | Depth    | Depth    | Depth    |                 |        | Toolface | +N/-S                  | +E/-W  | Centres | Ellipses | Separation | Factor     |                                                                |  |                    |  |           |  |
| (usft)                            | (usft)   | (usft)   | (usft)   | (usft)          | (usft) | (°)      | (usft)                 | (usft) | (usft)  | (usft)   | (usft)     |            |                                                                |  |                    |  |           |  |
|                                   |          |          |          |                 |        |          |                        |        |         |          |            |            |                                                                |  |                    |  |           |  |
| 0.00                              | 0.00     | 0.00     | 0.00     | 0.00            | 0.00   | 89.46    | 0.66                   | 69.98  | 69.98   |          |            |            |                                                                |  |                    |  |           |  |
| 100.00                            | 100.00   | 100.00   | 100.00   | 0.13            | 0.13   | 89.46    | 0.66                   | 69.98  | 69.98   | 69.81    | 0.18       | 394.416    |                                                                |  |                    |  |           |  |
| 200.00                            | 200.00   | 200.00   | 200.00   | 0.48            | 0.48   | 89.46    | 0.66                   | 69.98  | 69.98   | 69.30    | 0.68       | 102.256    |                                                                |  |                    |  |           |  |
| 300.00                            | 300.00   | 300.00   | 300.00   | 0.84            | 0.84   | 89.46    | 0.66                   | 69.98  | 69.98   | 68.79    | 1.19       | 58.743     |                                                                |  |                    |  |           |  |
| 400.00                            | 400.00   | 400.00   | 400.00   | 1.20            | 1.20   | 89.46    | 0.66                   | 69.98  | 69.98   | 68.28    | 1.70       | 41.208     |                                                                |  |                    |  |           |  |
| 500.00                            | 500.00   | 500.00   | 500.00   | 1.56            | 1.56   | 89.46    | 0.66                   | 69.98  | 69.98   | 67.78    | 2.21       | 31.735     |                                                                |  |                    |  |           |  |
| 600.00                            | 600.00   | 600.00   | 600.00   | 1.92            | 1.92   | 89.46    | 0.66                   | 69.98  | 69.98   | 67.27    | 2.71       | 25.803     |                                                                |  |                    |  |           |  |
| 700.00                            | 700.00   | 700.00   | 700.00   | 2.28            | 2.28   | 89.46    | 0.66                   | 69.98  | 69.98   | 66.76    | 3.22       | 21.740     |                                                                |  |                    |  |           |  |
| 800.00                            | 800.00   | 800.00   | 800.00   | 2.63            | 2.63   | 89.46    | 0.66                   | 69.98  | 69.98   | 66.26    | 3.73       | 18.782     |                                                                |  |                    |  |           |  |
| 900.00                            | 900.00   | 900.00   | 900.00   | 2.99            | 2.99   | 89.46    | 0.66                   | 69.98  | 69.98   | 65.75    | 4.23       | 16.532     |                                                                |  |                    |  |           |  |
| 1,000.00                          | 1,000.00 | 1,000.00 | 1,000.00 | 3.35            | 3.35   | 89.46    | 0.66                   | 69.98  | 69.98   | 65.24    | 4.74       | 14.764     |                                                                |  |                    |  |           |  |
| 1,100.00                          | 1,100.00 | 1,100.00 | 1,100.00 | 3.71            | 3.71   | 89.46    | 0.66                   | 69.98  | 69.98   | 64.74    | 5.25       | 13.338     |                                                                |  |                    |  |           |  |
| 1,200.00                          | 1,200.00 | 1,200.00 | 1,200.00 | 4.07            | 4.07   | 89.46    | 0.66                   | 69.98  | 69.98   | 64.23    | 5.75       | 12.163     |                                                                |  |                    |  |           |  |
| 1,300.00                          | 1,300.00 | 1,300.00 | 1,300.00 | 4.43            | 4.43   | 89.46    | 0.66                   | 69.98  | 69.98   | 63.72    | 6.26       | 11.178     |                                                                |  |                    |  |           |  |
| 1,400.00                          | 1,400.00 | 1,400.00 | 1,400.00 | 4.79            | 4.79   | 89.46    | 0.66                   | 69.98  | 69.98   | 63.22    | 6.77       | 10.341     |                                                                |  |                    |  |           |  |
| 1,500.00                          | 1,500.00 | 1,500.00 | 1,500.00 | 5.14            | 5.14   | 89.46    | 0.66                   | 69.98  | 69.98   | 62.71    | 7.27       | 9.620      |                                                                |  |                    |  |           |  |
| 1,600.00                          | 1,600.00 | 1,600.00 | 1,600.00 | 5.50            | 5.50   | 89.46    | 0.66                   | 69.98  | 69.98   | 62.20    | 7.78       | 8.993      |                                                                |  |                    |  |           |  |
| 1,700.00                          | 1,700.00 | 1,700.00 | 1,700.00 | 5.86            | 5.86   | 89.46    | 0.66                   | 69.98  | 69.98   | 61.69    | 8.29       | 8.443      |                                                                |  |                    |  |           |  |
| 1,800.00                          | 1,800.00 | 1,800.00 | 1,800.00 | 6.22            | 6.22   | 89.46    | 0.66                   | 69.98  | 69.98   | 61.19    | 8.80       | 7.957      |                                                                |  |                    |  |           |  |
| 1,900.00                          | 1,900.00 | 1,900.00 | 1,900.00 | 6.58            | 6.58   | 89.46    | 0.66                   | 69.98  | 69.98   | 60.68    | 9.30       | 7.523      |                                                                |  |                    |  |           |  |
| 2,000.00                          | 2,000.00 | 2,000.00 | 2,000.00 | 6.94            | 6.94   | 89.46    | 0.66                   | 69.98  | 69.98   | 60.17    | 9.81       | 7.134      |                                                                |  |                    |  |           |  |
| 2,100.00                          | 2,100.00 | 2,100.00 | 2,100.00 | 7.29            | 7.29   | 89.46    | 0.66                   | 69.98  | 69.98   | 59.67    | 10.32      | 6.784      |                                                                |  |                    |  |           |  |
| 2,200.00                          | 2,200.00 | 2,200.00 | 2,200.00 | 7.65            | 7.65   | 89.46    | 0.66                   | 69.98  | 69.98   | 59.16    | 10.82      | 6.466      |                                                                |  |                    |  |           |  |
| 2,300.00                          | 2,300.00 | 2,300.00 | 2,300.00 | 8.01            | 8.01   | 89.46    | 0.66                   | 69.98  | 69.98   | 58.65    | 11.33      | 6.177      |                                                                |  |                    |  |           |  |
| 2,400.00                          | 2,400.00 | 2,400.00 | 2,400.00 | 8.37            | 8.37   | 89.46    | 0.66                   | 69.98  | 69.98   | 58.15    | 11.84      | 5.912      |                                                                |  |                    |  |           |  |
| 2,500.00                          | 2,500.00 | 2,500.00 | 2,500.00 | 8.73            | 8.73   | 89.46    | 0.66                   | 69.98  | 69.98   | 57.64    | 12.34      | 5.669      |                                                                |  |                    |  |           |  |
| 2,600.00                          | 2,600.00 | 2,600.00 | 2,600.00 | 9.09            | 9.09   | 89.46    | 0.66                   | 69.98  | 69.98   | 57.13    | 12.85      | 5.446      |                                                                |  |                    |  |           |  |
| 2,688.00                          | 2,688.00 | 2,688.00 | 2,688.00 | 9.40            | 9.40   | 89.46    | 0.66                   | 69.98  | 69.98   | 56.69    | 13.30      | 5.263 CC   |                                                                |  |                    |  |           |  |
| 2,700.00                          | 2,700.00 | 2,700.00 | 2,700.00 | 9.44            | 9.45   | -154.76  | 0.66                   | 69.98  | 70.00   | 56.64    | 13.36      | 5.241 ES   |                                                                |  |                    |  |           |  |
| 2,800.00                          | 2,799.98 | 2,799.98 | 2,799.98 | 9.78            | 9.80   | -155.31  | 0.66                   | 69.98  | 71.47   | 57.63    | 13.85      | 5.162      |                                                                |  |                    |  |           |  |
| 2,900.00                          | 2,899.89 | 2,899.89 | 2,899.89 | 10.11           | 10.16  | -156.63  | 0.66                   | 69.98  | 75.34   | 61.01    | 14.34      | 5.256      |                                                                |  |                    |  |           |  |
| 3,000.00                          | 2,999.65 | 2,999.65 | 2,999.65 | 10.45           | 10.52  | -158.51  | 0.66                   | 69.98  | 81.68   | 66.86    | 14.83      | 5.509      |                                                                |  |                    |  |           |  |
| 3,100.00                          | 3,099.20 | 3,098.83 | 3,098.83 | 10.79           | 10.87  | -160.59  | 0.58                   | 70.05  | 90.62   | 75.31    | 15.31      | 5.918      |                                                                |  |                    |  |           |  |
| 3,200.00                          | 3,198.47 | 3,196.68 | 3,196.66 | 11.14           | 11.19  | -161.80  | -0.95                  | 71.32  | 103.14  | 87.37    | 15.77      | 6.539      |                                                                |  |                    |  |           |  |
| 3,281.62                          | 3,279.24 | 3,276.05 | 3,275.95 | 11.43           | 11.45  | -162.06  | -3.61                  | 73.53  | 116.20  | 100.05   | 16.15      | 7.195      |                                                                |  |                    |  |           |  |
| 3,300.00                          | 3,297.39 | 3,293.85 | 3,293.72 | 11.49           | 11.51  | -162.06  | -4.38                  | 74.17  | 119.44  | 103.21   | 16.23      | 7.358      |                                                                |  |                    |  |           |  |
| 3,400.00                          | 3,396.19 | 3,390.41 | 3,390.03 | 11.85           | 11.83  | -161.53  | -9.67                  | 78.57  | 137.88  | 121.19   | 16.69      | 8.263      |                                                                |  |                    |  |           |  |
| 3,500.00                          | 3,494.98 | 3,486.74 | 3,485.92 | 12.22           | 12.15  | -160.38  | -16.77                 | 84.48  | 157.66  | 140.52   | 17.14      | 9.197      |                                                                |  |                    |  |           |  |
| 3,600.00                          | 3,593.78 | 3,584.60 | 3,583.24 | 12.59           | 12.48  | -159.23  | -24.64                 | 91.02  | 177.96  | 160.35   | 17.61      | 10.103     |                                                                |  |                    |  |           |  |
| 3,700.00                          | 3,692.57 | 3,682.47 | 3,680.57 | 12.96           | 12.82  | -158.33  | -32.51                 | 97.57  | 198.32  | 180.23   | 18.09      | 10.963     |                                                                |  |                    |  |           |  |
| 3,800.00                          | 3,791.37 | 3,780.33 | 3,777.90 | 13.34           | 13.15  | -157.59  | -40.37                 | 104.11 | 218.72  | 200.15   | 18.57      | 11.778     |                                                                |  |                    |  |           |  |
| 3,900.00                          | 3,890.16 | 3,878.19 | 3,875.22 | 13.72           | 13.49  | -156.97  | -48.24                 | 110.66 | 239.14  | 220.09   | 19.05      | 12.551     |                                                                |  |                    |  |           |  |
| 4,000.00                          | 3,988.96 | 3,976.05 | 3,972.55 | 14.10           | 13.84  | -156.46  | -56.11                 | 117.20 | 259.59  | 240.05   | 19.54      | 13.286     |                                                                |  |                    |  |           |  |
| 4,100.00                          | 4,087.75 | 4,073.92 | 4,069.88 | 14.49           | 14.18  | -156.02  | -63.97                 | 123.74 | 280.05  | 260.03   | 20.03      | 13.983     |                                                                |  |                    |  |           |  |
| 4,200.00                          | 4,186.55 | 4,171.78 | 4,167.20 | 14.88           | 14.53  | -155.63  | -71.84                 | 130.29 | 300.53  | 280.01   | 20.52      | 14.647     |                                                                |  |                    |  |           |  |
| 4,300.00                          | 4,285.34 | 4,269.64 | 4,264.53 | 15.27           | 14.88  | -155.30  | -79.71                 | 136.83 | 321.02  | 300.01   | 21.01      | 15.278     |                                                                |  |                    |  |           |  |
| 4,400.00                          | 4,384.13 | 4,367.50 | 4,361.85 | 15.67           | 15.23  | -155.01  | -87.57                 | 143.38 | 341.52  | 320.01   | 21.51      | 15.879     |                                                                |  |                    |  |           |  |
| 4,500.00                          | 4,482.93 | 4,465.37 | 4,459.18 | 16.06           | 15.58  | -154.75  | -95.44                 | 149.92 | 362.03  | 340.02   | 22.01      | 16.451     |                                                                |  |                    |  |           |  |
| 4,600.00                          | 4,581.72 | 4,563.23 | 4,556.51 | 16.46           | 15.94  | -154.52  | -103.31                | 156.46 | 382.54  | 360.03   | 22.51      | 16.997     |                                                                |  |                    |  |           |  |
| 4,700.00                          | 4,680.52 | 4,661.09 | 4,653.83 | 16.86           | 16.29  | -154.31  | -111.17                | 163.01 | 403.06  | 380.05   | 23.01      | 17.518     |                                                                |  |                    |  |           |  |
| 4,800.00                          | 4,779.31 | 4,758.95 | 4,751.16 | 17.27           | 16.65  | -154.12  | -119.04                | 169.55 | 423.58  | 400.07   | 23.51      | 18.016     |                                                                |  |                    |  |           |  |
| 4,900.00                          | 4,878.11 | 4,856.82 | 4,848.48 | 17.67           | 17.01  | -153.95  | -126.91                | 176.09 | 444.11  | 420.09   | 24.02      | 18.492     |                                                                |  |                    |  |           |  |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Bus Driver/Kaston Fed Com - Kaston Fed Com 703H - OH - Plan #4 |         | 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 |                                                                |         |                              |  |
|                                   |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   |                                                                |         |                              |  |
| 5,000.00                          | 4,976.90              | 4,954.68              | 4,945.81              | 18.08            | 17.37         | -153.80               | -134.77                             | 182.64       | 464.64                 | 440.11                  | 24.52                     | 18.947            |                                                                |         |                              |  |
| 5,100.00                          | 5,075.70              | 5,052.54              | 5,043.14              | 18.49            | 17.73         | -153.65               | -142.64                             | 189.18       | 485.17                 | 460.14                  | 25.03                     | 19.383            |                                                                |         |                              |  |
| 5,200.00                          | 5,174.49              | 5,150.40              | 5,140.46              | 18.90            | 18.09         | -153.52               | -150.51                             | 195.73       | 505.70                 | 480.17                  | 25.54                     | 19.801            |                                                                |         |                              |  |
| 5,300.00                          | 5,273.29              | 5,248.27              | 5,237.79              | 19.31            | 18.45         | -153.40               | -158.37                             | 202.27       | 526.24                 | 500.19                  | 26.05                     | 20.201            |                                                                |         |                              |  |
| 5,400.00                          | 5,372.08              | 5,346.13              | 5,335.11              | 19.72            | 18.82         | -153.29               | -166.24                             | 208.81       | 546.78                 | 520.22                  | 26.56                     | 20.585            |                                                                |         |                              |  |
| 5,500.00                          | 5,470.88              | 5,443.99              | 5,432.44              | 20.13            | 19.18         | -153.19               | -174.10                             | 215.36       | 567.32                 | 540.25                  | 27.07                     | 20.954            |                                                                |         |                              |  |
| 5,600.00                          | 5,569.67              | 5,541.85              | 5,529.77              | 20.54            | 19.55         | -153.09               | -181.97                             | 221.90       | 587.87                 | 560.28                  | 27.59                     | 21.309            |                                                                |         |                              |  |
| 5,700.00                          | 5,668.47              | 5,639.72              | 5,627.09              | 20.96            | 19.92         | -153.00               | -189.84                             | 228.44       | 608.41                 | 580.31                  | 28.10                     | 21.650            |                                                                |         |                              |  |
| 5,800.00                          | 5,767.26              | 5,737.58              | 5,724.42              | 21.38            | 20.29         | -152.92               | -197.70                             | 234.99       | 628.96                 | 600.34                  | 28.62                     | 21.977            |                                                                |         |                              |  |
| 5,900.00                          | 5,866.06              | 5,835.44              | 5,821.74              | 21.79            | 20.66         | -152.84               | -205.57                             | 241.53       | 649.51                 | 620.37                  | 29.13                     | 22.293            |                                                                |         |                              |  |
| 6,000.00                          | 5,964.85              | 5,933.30              | 5,919.07              | 22.21            | 21.02         | -152.77               | -213.44                             | 248.08       | 670.06                 | 640.40                  | 29.65                     | 22.597            |                                                                |         |                              |  |
| 6,100.00                          | 6,063.65              | 6,031.17              | 6,016.40              | 22.63            | 21.39         | -152.70               | -221.30                             | 254.62       | 690.61                 | 660.44                  | 30.17                     | 22.890            |                                                                |         |                              |  |
| 6,200.00                          | 6,162.44              | 6,129.03              | 6,113.72              | 23.05            | 21.77         | -152.63               | -229.17                             | 261.16       | 711.16                 | 680.47                  | 30.69                     | 23.173            |                                                                |         |                              |  |
| 6,300.00                          | 6,261.24              | 6,226.89              | 6,211.05              | 23.47            | 22.14         | -152.57               | -237.04                             | 267.71       | 731.71                 | 700.50                  | 31.21                     | 23.445            |                                                                |         |                              |  |
| 6,400.00                          | 6,360.03              | 6,324.75              | 6,308.37              | 23.89            | 22.51         | -152.51               | -244.90                             | 274.25       | 752.26                 | 720.53                  | 31.73                     | 23.708            |                                                                |         |                              |  |
| 6,500.00                          | 6,458.83              | 6,422.62              | 6,405.70              | 24.31            | 22.88         | -152.46               | -252.77                             | 280.79       | 772.81                 | 740.56                  | 32.25                     | 23.963            |                                                                |         |                              |  |
| 6,600.00                          | 6,557.62              | 6,520.48              | 6,503.03              | 24.73            | 23.25         | -152.40               | -260.64                             | 287.34       | 793.37                 | 760.59                  | 32.77                     | 24.208            |                                                                |         |                              |  |
| 6,700.00                          | 6,656.42              | 6,618.34              | 6,600.35              | 25.15            | 23.63         | -152.35               | -268.50                             | 293.88       | 813.92                 | 780.63                  | 33.29                     | 24.446            |                                                                |         |                              |  |
| 6,800.00                          | 6,755.21              | 6,716.20              | 6,697.68              | 25.57            | 24.00         | -152.31               | -276.37                             | 300.43       | 834.48                 | 800.66                  | 33.82                     | 24.676            |                                                                |         |                              |  |
| 6,900.00                          | 6,854.01              | 6,814.07              | 6,795.00              | 26.00            | 24.38         | -152.26               | -284.24                             | 306.97       | 855.03                 | 820.69                  | 34.34                     | 24.898            |                                                                |         |                              |  |
| 7,000.00                          | 6,952.80              | 6,911.93              | 6,892.33              | 26.42            | 24.75         | -152.22               | -292.10                             | 313.51       | 875.59                 | 840.72                  | 34.87                     | 25.114            |                                                                |         |                              |  |
| 7,100.00                          | 7,051.59              | 7,026.20              | 7,006.11              | 26.85            | 25.18         | -152.24               | -300.17                             | 320.22       | 895.32                 | 859.85                  | 35.47                     | 25.239            |                                                                |         |                              |  |
| 7,200.00                          | 7,150.39              | 7,142.77              | 7,122.46              | 27.27            | 25.61         | -152.43               | -305.70                             | 324.82       | 913.10                 | 877.02                  | 36.08                     | 25.310            |                                                                |         |                              |  |
| 7,300.00                          | 7,249.18              | 7,259.94              | 7,239.57              | 27.70            | 26.03         | -152.79               | -308.50                             | 327.15       | 928.90                 | 892.24                  | 36.66                     | 25.339            |                                                                |         |                              |  |
| 7,400.00                          | 7,347.98              | 7,368.35              | 7,347.98              | 28.12            | 26.40         | -153.24               | -308.87                             | 327.46       | 942.99                 | 905.80                  | 37.20                     | 25.353            |                                                                |         |                              |  |
| 7,411.16                          | 7,359.00              | 7,379.38              | 7,359.00              | 28.17            | 26.43         | -153.28               | -308.87                             | 327.46       | 944.54                 | 907.29                  | 37.25                     | 25.356            |                                                                |         |                              |  |
| 7,500.00                          | 7,446.93              | 7,467.30              | 7,446.93              | 28.54            | 26.73         | -153.70               | -308.87                             | 327.46       | 955.95                 | 918.26                  | 37.69                     | 25.361            |                                                                |         |                              |  |
| 7,600.00                          | 7,546.22              | 7,566.59              | 7,546.22              | 28.94            | 27.06         | -154.08               | -308.87                             | 327.46       | 966.64                 | 928.44                  | 38.19                     | 25.311            |                                                                |         |                              |  |
| 7,700.00                          | 7,645.78              | 7,666.16              | 7,645.78              | 29.33            | 27.40         | -154.38               | -308.87                             | 327.46       | 974.99                 | 936.31                  | 38.69                     | 25.203            |                                                                |         |                              |  |
| 7,800.00                          | 7,745.56              | 7,765.93              | 7,745.56              | 29.70            | 27.74         | -154.58               | -308.87                             | 327.46       | 981.01                 | 941.83                  | 39.18                     | 25.040            |                                                                |         |                              |  |
| 7,900.00                          | 7,845.47              | 7,865.85              | 7,845.47              | 30.05            | 28.07         | -154.71               | -308.87                             | 327.46       | 984.67                 | 945.01                  | 39.67                     | 24.823            |                                                                |         |                              |  |
| 8,004.78                          | 7,950.24              | 7,970.61              | 7,950.24              | 30.40            | 28.43         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 945.80                  | 40.17                     | 24.543            |                                                                |         |                              |  |
| 8,100.00                          | 8,045.46              | 8,065.83              | 8,045.46              | 30.70            | 28.75         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 945.35                  | 40.63                     | 24.268            |                                                                |         |                              |  |
| 8,200.00                          | 8,145.46              | 8,165.83              | 8,145.46              | 31.02            | 29.09         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 944.87                  | 41.11                     | 23.986            |                                                                |         |                              |  |
| 8,300.00                          | 8,245.46              | 8,265.83              | 8,245.46              | 31.34            | 29.43         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 944.39                  | 41.58                     | 23.710            |                                                                |         |                              |  |
| 8,400.00                          | 8,345.46              | 8,365.83              | 8,345.46              | 31.66            | 29.77         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 943.91                  | 42.06                     | 23.440            |                                                                |         |                              |  |
| 8,500.00                          | 8,445.46              | 8,465.83              | 8,445.46              | 31.98            | 30.11         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 943.43                  | 42.54                     | 23.175            |                                                                |         |                              |  |
| 8,600.00                          | 8,545.46              | 8,565.83              | 8,545.46              | 32.31            | 30.45         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 942.95                  | 43.02                     | 22.916            |                                                                |         |                              |  |
| 8,700.00                          | 8,645.46              | 8,665.83              | 8,645.46              | 32.63            | 30.80         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 942.47                  | 43.51                     | 22.663            |                                                                |         |                              |  |
| 8,800.00                          | 8,745.46              | 8,765.83              | 8,745.46              | 32.96            | 31.14         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 941.98                  | 43.99                     | 22.415            |                                                                |         |                              |  |
| 8,900.00                          | 8,845.46              | 8,865.83              | 8,845.46              | 33.28            | 31.48         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 941.50                  | 44.47                     | 22.171            |                                                                |         |                              |  |
| 9,000.00                          | 8,945.46              | 8,965.83              | 8,945.46              | 33.61            | 31.82         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 941.02                  | 44.95                     | 21.933            |                                                                |         |                              |  |
| 9,100.00                          | 9,045.46              | 9,065.83              | 9,045.46              | 33.93            | 32.17         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 940.54                  | 45.44                     | 21.700            |                                                                |         |                              |  |
| 9,200.00                          | 9,145.46              | 9,165.83              | 9,145.46              | 34.26            | 32.51         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 940.05                  | 45.92                     | 21.471            |                                                                |         |                              |  |
| 9,300.00                          | 9,245.46              | 9,265.83              | 9,245.46              | 34.59            | 32.85         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 939.57                  | 46.41                     | 21.247            |                                                                |         |                              |  |
| 9,400.00                          | 9,345.46              | 9,365.83              | 9,345.46              | 34.92            | 33.20         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 939.08                  | 46.89                     | 21.027            |                                                                |         |                              |  |
| 9,500.00                          | 9,445.46              | 9,465.83              | 9,445.46              | 35.24            | 33.54         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 938.60                  | 47.38                     | 20.812            |                                                                |         |                              |  |
| 9,600.00                          | 9,545.46              | 9,565.83              | 9,545.46              | 35.57            | 33.89         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 938.11                  | 47.86                     | 20.600            |                                                                |         |                              |  |
| 9,700.00                          | 9,645.46              | 9,665.83              | 9,645.46              | 35.90            | 34.23         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 937.62                  | 48.35                     | 20.393            |                                                                |         |                              |  |
| 9,800.00                          | 9,745.46              | 9,765.83              | 9,745.46              | 36.23            | 34.58         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 937.14                  | 48.83                     | 20.190            |                                                                |         |                              |  |
| 9,900.00                          | 9,845.46              | 9,865.83              | 9,845.46              | 36.57            | 34.92         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 936.65                  | 49.32                     | 19.991            |                                                                |         |                              |  |
| 10,000.00                         | 9,945.46              | 9,965.83              | 9,945.46              | 36.90            | 35.27         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 936.16                  | 49.81                     | 19.795            |                                                                |         |                              |  |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Bus Driver/Kaston Fed Com - Kaston Fed Com 703H - OH - Plan #4 |  | 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                                                        |  |                              |  |
| 10,100.00                         | 10,045.46             | 10,065.83             | 10,045.46             | 37.23            | 35.61         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 935.68                  | 50.30                     | 19.603            |                                                                |  |                              |  |
| 10,200.00                         | 10,145.46             | 10,165.83             | 10,145.46             | 37.56            | 35.96         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 935.19                  | 50.79                     | 19.414            |                                                                |  |                              |  |
| 10,300.00                         | 10,245.46             | 10,265.83             | 10,245.46             | 37.89            | 36.31         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 934.70                  | 51.27                     | 19.229            |                                                                |  |                              |  |
| 10,400.00                         | 10,345.46             | 10,365.83             | 10,345.46             | 38.23            | 36.65         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 934.21                  | 51.76                     | 19.048            |                                                                |  |                              |  |
| 10,500.00                         | 10,445.46             | 10,465.83             | 10,445.46             | 38.56            | 37.00         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 933.72                  | 52.25                     | 18.869            |                                                                |  |                              |  |
| 10,600.00                         | 10,545.46             | 10,565.83             | 10,545.46             | 38.90            | 37.35         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 933.23                  | 52.74                     | 18.694            |                                                                |  |                              |  |
| 10,700.00                         | 10,645.46             | 10,665.83             | 10,645.46             | 39.23            | 37.69         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 932.74                  | 53.23                     | 18.522            |                                                                |  |                              |  |
| 10,800.00                         | 10,745.46             | 10,765.83             | 10,745.46             | 39.57            | 38.04         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 932.25                  | 53.72                     | 18.353            |                                                                |  |                              |  |
| 10,900.00                         | 10,845.46             | 10,865.83             | 10,845.46             | 39.90            | 38.39         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 931.76                  | 54.21                     | 18.187            |                                                                |  |                              |  |
| 11,000.00                         | 10,945.46             | 10,965.83             | 10,945.46             | 40.24            | 38.74         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 931.27                  | 54.70                     | 18.024            |                                                                |  |                              |  |
| 11,100.00                         | 11,045.46             | 11,065.83             | 11,045.46             | 40.57            | 39.09         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 930.78                  | 55.20                     | 17.863            |                                                                |  |                              |  |
| 11,200.00                         | 11,145.46             | 11,165.83             | 11,145.46             | 40.91            | 39.43         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 930.29                  | 55.69                     | 17.706            |                                                                |  |                              |  |
| 11,300.00                         | 11,245.46             | 11,265.83             | 11,245.46             | 41.25            | 39.78         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 929.79                  | 56.18                     | 17.551            |                                                                |  |                              |  |
| 11,400.00                         | 11,345.46             | 11,365.83             | 11,345.46             | 41.59            | 40.13         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 929.30                  | 56.67                     | 17.398            |                                                                |  |                              |  |
| 11,500.00                         | 11,445.46             | 11,465.83             | 11,445.46             | 41.92            | 40.48         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 928.81                  | 57.16                     | 17.248            |                                                                |  |                              |  |
| 11,532.54                         | 11,478.00             | 11,498.37             | 11,478.00             | 42.03            | 40.59         | 89.47                 | -308.87                             | 327.46       | 985.97                 | 928.65                  | 57.32                     | 17.200            |                                                                |  |                              |  |
| 11,550.00                         | 11,495.46             | 11,515.83             | 11,495.46             | 42.09            | 40.66         | -90.05                | -308.87                             | 327.46       | 985.97                 | 928.56                  | 57.41                     | 17.175            |                                                                |  |                              |  |
| 11,600.00                         | 11,545.30             | 11,565.68             | 11,545.30             | 42.26            | 40.83         | -90.26                | -308.87                             | 327.46       | 985.98                 | 928.33                  | 57.65                     | 17.102            |                                                                |  |                              |  |
| 11,650.00                         | 11,594.64             | 11,615.01             | 11,594.64             | 42.43            | 41.00         | -90.71                | -308.87                             | 327.46       | 986.05                 | 928.16                  | 57.90                     | 17.031            |                                                                |  |                              |  |
| 11,700.00                         | 11,643.08             | 11,665.32             | 11,644.90             | 42.61            | 41.18         | -91.32                | -310.63                             | 327.48       | 986.24                 | 928.10                  | 58.15                     | 16.961            |                                                                |  |                              |  |
| 11,750.00                         | 11,690.27             | 11,716.74             | 11,695.91             | 42.79            | 41.36         | -91.92                | -316.95                             | 327.53       | 986.55                 | 928.14                  | 58.41                     | 16.891            |                                                                |  |                              |  |
| 11,800.00                         | 11,735.85             | 11,769.22             | 11,747.17             | 42.97            | 41.55         | -92.51                | -328.09                             | 327.63       | 986.96                 | 928.28                  | 58.68                     | 16.820            |                                                                |  |                              |  |
| 11,850.00                         | 11,779.46             | 11,822.78             | 11,798.22             | 43.15            | 41.75         | -93.09                | -344.25                             | 327.77       | 987.46                 | 928.51                  | 58.96                     | 16.749            |                                                                |  |                              |  |
| 11,900.00                         | 11,820.78             | 11,877.46             | 11,848.54             | 43.34            | 41.97         | -93.65                | -365.58                             | 327.96       | 988.05                 | 928.81                  | 59.24                     | 16.678            |                                                                |  |                              |  |
| 11,950.00                         | 11,859.49             | 11,933.27             | 11,897.57             | 43.52            | 42.19         | -94.18                | -392.20                             | 328.19       | 988.70                 | 929.16                  | 59.54                     | 16.606            |                                                                |  |                              |  |
| 12,000.00                         | 11,895.30             | 11,990.23             | 11,944.70             | 43.71            | 42.41         | -94.69                | -424.15                             | 328.47       | 989.39                 | 929.55                  | 59.84                     | 16.533            |                                                                |  |                              |  |
| 12,050.00                         | 11,927.93             | 12,048.30             | 11,989.24             | 43.90            | 42.66         | -95.17                | -461.38                             | 328.80       | 990.10                 | 929.95                  | 60.15                     | 16.460            |                                                                |  |                              |  |
| 12,100.00                         | 11,957.13             | 12,107.46             | 12,030.50             | 44.09            | 42.91         | -95.60                | -503.73                             | 329.17       | 990.80                 | 930.33                  | 60.47                     | 16.385            |                                                                |  |                              |  |
| 12,150.00                         | 11,982.69             | 12,167.63             | 12,067.76             | 44.29            | 43.18         | -95.99                | -550.94                             | 329.59       | 991.47                 | 930.67                  | 60.80                     | 16.307            |                                                                |  |                              |  |
| 12,200.00                         | 12,004.41             | 12,228.74             | 12,100.32             | 44.50            | 43.46         | -96.32                | -602.61                             | 330.04       | 992.08                 | 930.94                  | 61.14                     | 16.226            |                                                                |  |                              |  |
| 12,250.00                         | 12,022.12             | 12,290.65             | 12,127.52             | 44.72            | 43.75         | -96.60                | -658.19                             | 330.53       | 992.61                 | 931.11                  | 61.50                     | 16.140            |                                                                |  |                              |  |
| 12,300.00                         | 12,035.70             | 12,353.23             | 12,148.75             | 44.95            | 44.06         | -96.81                | -717.03                             | 331.05       | 993.03                 | 931.16                  | 61.87                     | 16.050            |                                                                |  |                              |  |
| 12,350.00                         | 12,045.02             | 12,416.31             | 12,163.53             | 45.18            | 44.38         | -96.96                | -778.31                             | 331.58       | 993.32                 | 931.06                  | 62.26                     | 15.954            |                                                                |  |                              |  |
| 12,400.00                         | 12,050.03             | 12,479.71             | 12,171.52             | 45.42            | 44.71         | -97.04                | -841.17                             | 332.14       | 993.48                 | 930.81                  | 62.67                     | 15.852            |                                                                |  |                              |  |
| 12,425.00                         | 12,050.91             | 12,511.46             | 12,172.89             | 45.55            | 44.87         | -97.05                | -872.89                             | 332.42       | 993.51                 | 930.63                  | 62.88                     | 15.800            |                                                                |  |                              |  |
| 12,500.00                         | 12,051.90             | 12,586.76             | 12,173.88             | 45.94            | 45.28         | -97.05                | -948.18                             | 333.08       | 993.51                 | 930.06                  | 63.45                     | 15.659            |                                                                |  |                              |  |
| 12,600.00                         | 12,053.21             | 12,686.76             | 12,175.19             | 46.50            | 45.87         | -97.05                | -1,048.17                           | 333.96       | 993.51                 | 929.25                  | 64.27                     | 15.459            |                                                                |  |                              |  |
| 12,700.00                         | 12,054.53             | 12,786.76             | 12,176.51             | 47.12            | 46.50         | -97.05                | -1,148.15                           | 334.83       | 993.52                 | 928.36                  | 65.16                     | 15.247            |                                                                |  |                              |  |
| 12,800.00                         | 12,055.84             | 12,886.76             | 12,177.82             | 47.78            | 47.19         | -97.05                | -1,248.14                           | 335.71       | 993.52                 | 927.40                  | 66.12                     | 15.026            |                                                                |  |                              |  |
| 12,900.00                         | 12,057.16             | 12,986.76             | 12,179.14             | 48.50            | 47.92         | -97.05                | -1,348.13                           | 336.59       | 993.52                 | 926.37                  | 67.15                     | 14.796            |                                                                |  |                              |  |
| 13,000.00                         | 12,058.48             | 13,086.76             | 12,180.45             | 49.26            | 48.70         | -97.05                | -1,448.12                           | 337.47       | 993.52                 | 925.28                  | 68.24                     | 14.559            |                                                                |  |                              |  |
| 13,100.00                         | 12,059.79             | 13,186.76             | 12,181.77             | 50.06            | 49.52         | -97.05                | -1,548.10                           | 338.35       | 993.53                 | 924.13                  | 69.39                     | 14.317            |                                                                |  |                              |  |
| 13,200.00                         | 12,061.11             | 13,286.76             | 12,183.08             | 50.90            | 50.38         | -97.05                | -1,648.09                           | 339.23       | 993.53                 | 922.93                  | 70.60                     | 14.072            |                                                                |  |                              |  |
| 13,300.00                         | 12,062.43             | 13,386.76             | 12,184.40             | 51.78            | 51.28         | -97.05                | -1,748.08                           | 340.11       | 993.53                 | 921.67                  | 71.87                     | 13.825            |                                                                |  |                              |  |
| 13,400.00                         | 12,063.74             | 13,486.76             | 12,185.71             | 52.70            | 52.22         | -97.05                | -1,848.07                           | 340.98       | 993.54                 | 920.35                  | 73.18                     | 13.576            |                                                                |  |                              |  |
| 13,500.00                         | 12,065.06             | 13,586.76             | 12,187.02             | 53.65            | 53.19         | -97.05                | -1,948.05                           | 341.86       | 993.54                 | 918.99                  | 74.55                     | 13.328            |                                                                |  |                              |  |
| 13,600.00                         | 12,066.37             | 13,686.76             | 12,188.34             | 54.64            | 54.20         | -97.05                | -2,048.04                           | 342.74       | 993.54                 | 917.58                  | 75.96                     | 13.080            |                                                                |  |                              |  |
| 13,700.00                         | 12,067.69             | 13,786.76             | 12,189.65             | 55.66            | 55.23         | -97.05                | -2,148.03                           | 343.62       | 993.54                 | 916.13                  | 77.41                     | 12.834            |                                                                |  |                              |  |
| 13,800.00                         | 12,069.01             | 13,886.76             | 12,190.97             | 56.71            | 56.30         | -97.05                | -2,248.02                           | 344.50       | 993.55                 | 914.64                  | 78.91                     | 12.591            |                                                                |  |                              |  |
| 13,900.00                         | 12,070.32             | 13,986.76             | 12,192.28             | 57.78            | 57.39         | -97.05                | -2,348.00                           | 345.38       | 993.55                 | 913.10                  | 80.45                     | 12.351            |                                                                |  |                              |  |
| 14,000.00                         | 12,071.64             | 14,086.76             | 12,193.60             | 58.89            | 58.51         | -97.05                | -2,447.99                           | 346.26       | 993.55                 | 911.53                  | 82.02                     | 12.114            |                                                                |  |                              |  |
| 14,100.00                         | 12,072.96             | 14,186.76             | 12,194.91             | 60.02            | 59.65         | -97.05                | -2,547.98                           | 347.13       | 993.56                 | 909.93                  | 83.63                     | 11.881            |                                                                |  |                              |  |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 14,200.00                         | 12,074.27             | 14,286.76             | 12,196.22             | 61.17            | 60.82         | -97.05                | -2,647.97                           | 348.01       | 993.56                 | 908.29                  | 85.27                     | 11.652            |                    |           |
| 14,300.00                         | 12,075.59             | 14,386.76             | 12,197.54             | 62.34            | 62.01         | -97.05                | -2,747.95                           | 348.89       | 993.56                 | 906.62                  | 86.94                     | 11.428            |                    |           |
| 14,400.00                         | 12,076.90             | 14,486.76             | 12,198.85             | 63.54            | 63.22         | -97.05                | -2,847.94                           | 349.77       | 993.56                 | 904.92                  | 88.64                     | 11.209            |                    |           |
| 14,500.00                         | 12,078.22             | 14,586.76             | 12,200.17             | 64.76            | 64.45         | -97.05                | -2,947.93                           | 350.65       | 993.57                 | 903.20                  | 90.37                     | 10.995            |                    |           |
| 14,600.00                         | 12,079.54             | 14,686.76             | 12,201.48             | 65.99            | 65.70         | -97.05                | -3,047.92                           | 351.53       | 993.57                 | 901.45                  | 92.12                     | 10.785            |                    |           |
| 14,700.00                         | 12,080.85             | 14,786.76             | 12,202.80             | 67.25            | 66.96         | -97.05                | -3,147.90                           | 352.41       | 993.57                 | 899.67                  | 93.90                     | 10.581            |                    |           |
| 14,800.00                         | 12,082.17             | 14,886.76             | 12,204.11             | 68.52            | 68.25         | -97.05                | -3,247.89                           | 353.28       | 993.57                 | 897.87                  | 95.70                     | 10.382            |                    |           |
| 14,900.00                         | 12,083.49             | 14,986.76             | 12,205.43             | 69.80            | 69.54         | -97.05                | -3,347.88                           | 354.16       | 993.58                 | 896.05                  | 97.53                     | 10.188            |                    |           |
| 15,000.00                         | 12,084.80             | 15,086.76             | 12,206.74             | 71.10            | 70.86         | -97.05                | -3,447.87                           | 355.04       | 993.58                 | 894.21                  | 99.37                     | 9.998             |                    |           |
| 15,100.00                         | 12,086.12             | 15,186.76             | 12,208.05             | 72.42            | 72.18         | -97.05                | -3,547.85                           | 355.92       | 993.58                 | 892.35                  | 101.24                    | 9.814             |                    |           |
| 15,200.00                         | 12,087.43             | 15,286.76             | 12,209.37             | 73.75            | 73.52         | -97.05                | -3,647.84                           | 356.80       | 993.59                 | 890.47                  | 103.12                    | 9.635             |                    |           |
| 15,300.00                         | 12,088.75             | 15,386.76             | 12,210.68             | 75.09            | 74.88         | -97.05                | -3,747.83                           | 357.68       | 993.59                 | 888.57                  | 105.02                    | 9.461             |                    |           |
| 15,400.00                         | 12,090.07             | 15,486.76             | 12,212.00             | 76.44            | 76.24         | -97.05                | -3,847.82                           | 358.56       | 993.59                 | 886.65                  | 106.94                    | 9.291             |                    |           |
| 15,500.00                         | 12,091.38             | 15,586.76             | 12,213.31             | 77.81            | 77.62         | -97.05                | -3,947.80                           | 359.43       | 993.59                 | 884.72                  | 108.87                    | 9.126             |                    |           |
| 15,600.00                         | 12,092.70             | 15,686.76             | 12,214.63             | 79.19            | 79.00         | -97.05                | -4,047.79                           | 360.31       | 993.60                 | 882.78                  | 110.82                    | 8.966             |                    |           |
| 15,700.00                         | 12,094.02             | 15,786.76             | 12,215.94             | 80.57            | 80.40         | -97.05                | -4,147.78                           | 361.19       | 993.60                 | 880.82                  | 112.78                    | 8.810             |                    |           |
| 15,800.00                         | 12,095.33             | 15,886.76             | 12,217.26             | 81.97            | 81.80         | -97.05                | -4,247.77                           | 362.07       | 993.60                 | 878.85                  | 114.75                    | 8.659             |                    |           |
| 15,900.00                         | 12,096.65             | 15,986.76             | 12,218.57             | 83.38            | 83.22         | -97.05                | -4,347.75                           | 362.95       | 993.61                 | 876.86                  | 116.74                    | 8.511             |                    |           |
| 16,000.00                         | 12,097.97             | 16,086.76             | 12,219.88             | 84.79            | 84.64         | -97.05                | -4,447.74                           | 363.83       | 993.61                 | 874.87                  | 118.74                    | 8.368             |                    |           |
| 16,100.00                         | 12,099.28             | 16,186.76             | 12,221.20             | 86.21            | 86.07         | -97.05                | -4,547.73                           | 364.71       | 993.61                 | 872.86                  | 120.75                    | 8.229             |                    |           |
| 16,200.00                         | 12,100.60             | 16,286.76             | 12,222.51             | 87.65            | 87.51         | -97.05                | -4,647.72                           | 365.58       | 993.61                 | 870.84                  | 122.77                    | 8.093             |                    |           |
| 16,300.00                         | 12,101.91             | 16,386.76             | 12,223.83             | 89.08            | 88.96         | -97.05                | -4,747.70                           | 366.46       | 993.62                 | 868.81                  | 124.81                    | 7.961             |                    |           |
| 16,400.00                         | 12,103.23             | 16,486.76             | 12,225.14             | 90.53            | 90.41         | -97.05                | -4,847.69                           | 367.34       | 993.62                 | 866.77                  | 126.85                    | 7.833             |                    |           |
| 16,500.00                         | 12,104.55             | 16,586.76             | 12,226.46             | 91.98            | 91.87         | -97.05                | -4,947.68                           | 368.22       | 993.62                 | 864.72                  | 128.90                    | 7.708             |                    |           |
| 16,600.00                         | 12,105.86             | 16,686.76             | 12,227.77             | 93.44            | 93.34         | -97.05                | -5,047.67                           | 369.10       | 993.63                 | 862.66                  | 130.96                    | 7.587             |                    |           |
| 16,700.00                         | 12,107.18             | 16,786.76             | 12,229.09             | 94.91            | 94.81         | -97.05                | -5,147.65                           | 369.98       | 993.63                 | 860.60                  | 133.03                    | 7.469             |                    |           |
| 16,800.00                         | 12,108.50             | 16,886.76             | 12,230.40             | 96.38            | 96.29         | -97.05                | -5,247.64                           | 370.85       | 993.63                 | 858.52                  | 135.11                    | 7.354             |                    |           |
| 16,900.00                         | 12,109.81             | 16,986.76             | 12,231.71             | 97.86            | 97.78         | -97.05                | -5,347.63                           | 371.73       | 993.63                 | 856.44                  | 137.19                    | 7.243             |                    |           |
| 17,000.00                         | 12,111.13             | 17,086.76             | 12,233.03             | 99.34            | 99.27         | -97.05                | -5,447.62                           | 372.61       | 993.64                 | 854.35                  | 139.28                    | 7.134             |                    |           |
| 17,100.00                         | 12,112.44             | 17,186.76             | 12,234.34             | 100.83           | 100.76        | -97.05                | -5,547.60                           | 373.49       | 993.64                 | 852.26                  | 141.38                    | 7.028             |                    |           |
| 17,200.00                         | 12,113.76             | 17,286.76             | 12,235.66             | 102.33           | 102.26        | -97.05                | -5,647.59                           | 374.37       | 993.64                 | 850.15                  | 143.49                    | 6.925             |                    |           |
| 17,300.00                         | 12,115.08             | 17,386.76             | 12,236.97             | 103.83           | 103.76        | -97.05                | -5,747.58                           | 375.25       | 993.64                 | 848.04                  | 145.60                    | 6.824             |                    |           |
| 17,400.00                         | 12,116.39             | 17,486.76             | 12,238.29             | 105.33           | 105.27        | -97.05                | -5,847.57                           | 376.13       | 993.65                 | 845.93                  | 147.72                    | 6.727             |                    |           |
| 17,500.00                         | 12,117.71             | 17,586.76             | 12,239.60             | 106.84           | 106.79        | -97.05                | -5,947.55                           | 377.00       | 993.65                 | 843.81                  | 149.84                    | 6.631             |                    |           |
| 17,600.00                         | 12,119.03             | 17,686.76             | 12,240.91             | 108.35           | 108.30        | -97.05                | -6,047.54                           | 377.88       | 993.65                 | 841.68                  | 151.97                    | 6.538             |                    |           |
| 17,700.00                         | 12,120.34             | 17,786.76             | 12,242.23             | 109.86           | 109.82        | -97.05                | -6,147.53                           | 378.76       | 993.66                 | 839.55                  | 154.11                    | 6.448             |                    |           |
| 17,800.00                         | 12,121.66             | 17,886.76             | 12,243.54             | 111.38           | 111.35        | -97.05                | -6,247.52                           | 379.64       | 993.66                 | 837.41                  | 156.25                    | 6.359             |                    |           |
| 17,900.00                         | 12,122.97             | 17,986.76             | 12,244.86             | 112.91           | 112.88        | -97.05                | -6,347.50                           | 380.52       | 993.66                 | 835.27                  | 158.40                    | 6.273             |                    |           |
| 18,000.00                         | 12,124.29             | 18,086.76             | 12,246.17             | 114.43           | 114.41        | -97.05                | -6,447.49                           | 381.40       | 993.66                 | 833.12                  | 160.55                    | 6.189             |                    |           |
| 18,100.00                         | 12,125.61             | 18,186.76             | 12,247.49             | 115.96           | 115.94        | -97.05                | -6,547.48                           | 382.28       | 993.67                 | 830.97                  | 162.70                    | 6.107             |                    |           |
| 18,200.00                         | 12,126.92             | 18,286.76             | 12,248.80             | 117.50           | 117.48        | -97.05                | -6,647.47                           | 383.15       | 993.67                 | 828.81                  | 164.86                    | 6.027             |                    |           |
| 18,300.00                         | 12,128.24             | 18,386.76             | 12,250.12             | 119.04           | 119.02        | -97.05                | -6,747.45                           | 384.03       | 993.67                 | 826.65                  | 167.02                    | 5.949             |                    |           |
| 18,400.00                         | 12,129.56             | 18,486.76             | 12,251.43             | 120.58           | 120.57        | -97.05                | -6,847.44                           | 384.91       | 993.68                 | 824.48                  | 169.19                    | 5.873             |                    |           |
| 18,500.00                         | 12,130.87             | 18,586.76             | 12,252.74             | 122.12           | 122.11        | -97.05                | -6,947.43                           | 385.79       | 993.68                 | 822.31                  | 171.36                    | 5.799             |                    |           |
| 18,600.00                         | 12,132.19             | 18,686.76             | 12,254.06             | 123.66           | 123.66        | -97.05                | -7,047.42                           | 386.67       | 993.68                 | 820.14                  | 173.54                    | 5.726             |                    |           |
| 18,700.00                         | 12,133.50             | 18,786.76             | 12,255.37             | 125.21           | 125.22        | -97.05                | -7,147.40                           | 387.55       | 993.68                 | 817.97                  | 175.72                    | 5.655             |                    |           |
| 18,800.00                         | 12,134.82             | 18,886.76             | 12,256.69             | 126.76           | 126.77        | -97.05                | -7,247.39                           | 388.43       | 993.69                 | 815.79                  | 177.90                    | 5.586             |                    |           |
| 18,900.00                         | 12,136.14             | 18,986.76             | 12,258.00             | 128.32           | 128.33        | -97.05                | -7,347.38                           | 389.30       | 993.69                 | 813.60                  | 180.09                    | 5.518             |                    |           |
| 19,000.00                         | 12,137.45             | 19,086.76             | 12,259.32             | 129.87           | 129.89        | -97.04                | -7,447.37                           | 390.18       | 993.69                 | 811.42                  | 182.27                    | 5.452             |                    |           |
| 19,100.00                         | 12,138.77             | 19,186.76             | 12,260.63             | 131.43           | 131.45        | -97.04                | -7,547.35                           | 391.06       | 993.70                 | 809.23                  | 184.47                    | 5.387             |                    |           |
| 19,200.00                         | 12,140.09             | 19,286.76             | 12,261.95             | 132.99           | 133.01        | -97.04                | -7,647.34                           | 391.94       | 993.70                 | 807.04                  | 186.66                    | 5.324             |                    |           |
| 19,300.00                         | 12,141.40             | 19,386.76             | 12,263.26             | 134.56           | 134.58        | -97.04                | -7,747.33                           | 392.82       | 993.70                 | 804.84                  | 188.86                    | 5.262             |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 19,400.00                         | 12,142.72             | 19,486.76             | 12,264.57             | 136.12           | 136.15        | -97.04                | -7,847.32                           | 393.70       | 993.70                 | 802.64                  | 191.06                    | 5.201             |                    |           |
| 19,500.00                         | 12,144.03             | 19,586.76             | 12,265.89             | 137.69           | 137.72        | -97.04                | -7,947.30                           | 394.58       | 993.71                 | 800.44                  | 193.26                    | 5.142             |                    |           |
| 19,600.00                         | 12,145.35             | 19,686.76             | 12,267.20             | 139.26           | 139.29        | -97.04                | -8,047.29                           | 395.45       | 993.71                 | 798.24                  | 195.47                    | 5.084             |                    |           |
| 19,700.00                         | 12,146.67             | 19,786.76             | 12,268.52             | 140.83           | 140.87        | -97.04                | -8,147.28                           | 396.33       | 993.71                 | 796.03                  | 197.68                    | 5.027             |                    |           |
| 19,800.00                         | 12,147.98             | 19,886.76             | 12,269.83             | 142.40           | 142.44        | -97.04                | -8,247.27                           | 397.21       | 993.71                 | 793.83                  | 199.89                    | 4.971             |                    |           |
| 19,900.00                         | 12,149.30             | 19,986.76             | 12,271.15             | 143.98           | 144.02        | -97.04                | -8,347.25                           | 398.09       | 993.72                 | 791.62                  | 202.10                    | 4.917             |                    |           |
| 20,000.00                         | 12,150.62             | 20,086.76             | 12,272.46             | 145.55           | 145.60        | -97.04                | -8,447.24                           | 398.97       | 993.72                 | 789.40                  | 204.32                    | 4.864             |                    |           |
| 20,100.00                         | 12,151.93             | 20,186.76             | 12,273.77             | 147.13           | 147.18        | -97.04                | -8,547.23                           | 399.85       | 993.72                 | 787.19                  | 206.54                    | 4.811             |                    |           |
| 20,200.00                         | 12,153.25             | 20,286.76             | 12,275.09             | 148.71           | 148.76        | -97.04                | -8,647.22                           | 400.73       | 993.73                 | 784.97                  | 208.76                    | 4.760             |                    |           |
| 20,300.00                         | 12,154.56             | 20,386.76             | 12,276.40             | 150.29           | 150.34        | -97.04                | -8,747.20                           | 401.60       | 993.73                 | 782.75                  | 210.98                    | 4.710             |                    |           |
| 20,400.00                         | 12,155.88             | 20,486.76             | 12,277.72             | 151.87           | 151.93        | -97.04                | -8,847.19                           | 402.48       | 993.73                 | 780.53                  | 213.20                    | 4.661             |                    |           |
| 20,500.00                         | 12,157.20             | 20,586.76             | 12,279.03             | 153.46           | 153.52        | -97.04                | -8,947.18                           | 403.36       | 993.73                 | 778.31                  | 215.43                    | 4.613             |                    |           |
| 20,600.00                         | 12,158.51             | 20,686.76             | 12,280.35             | 155.04           | 155.10        | -97.04                | -9,047.17                           | 404.24       | 993.74                 | 776.08                  | 217.65                    | 4.566             |                    |           |
| 20,700.00                         | 12,159.83             | 20,786.76             | 12,281.66             | 156.63           | 156.69        | -97.04                | -9,147.15                           | 405.12       | 993.74                 | 773.86                  | 219.88                    | 4.519             |                    |           |
| 20,800.00                         | 12,161.15             | 20,886.76             | 12,282.98             | 158.22           | 158.29        | -97.04                | -9,247.14                           | 406.00       | 993.74                 | 771.63                  | 222.11                    | 4.474             |                    |           |
| 20,900.00                         | 12,162.46             | 20,986.76             | 12,284.29             | 159.81           | 159.88        | -97.04                | -9,347.13                           | 406.88       | 993.75                 | 769.40                  | 224.35                    | 4.430             |                    |           |
| 21,000.00                         | 12,163.78             | 21,086.76             | 12,285.60             | 161.40           | 161.47        | -97.04                | -9,447.12                           | 407.75       | 993.75                 | 767.17                  | 226.58                    | 4.386             |                    |           |
| 21,100.00                         | 12,165.10             | 21,186.76             | 12,286.92             | 162.99           | 163.06        | -97.04                | -9,547.10                           | 408.63       | 993.75                 | 764.93                  | 228.82                    | 4.343             |                    |           |
| 21,200.00                         | 12,166.41             | 21,286.76             | 12,288.23             | 164.58           | 164.66        | -97.04                | -9,647.09                           | 409.51       | 993.75                 | 762.70                  | 231.05                    | 4.301             |                    |           |
| 21,300.00                         | 12,167.73             | 21,386.76             | 12,289.55             | 166.18           | 166.26        | -97.04                | -9,747.08                           | 410.39       | 993.76                 | 760.46                  | 233.29                    | 4.260             |                    |           |
| 21,400.00                         | 12,169.04             | 21,486.76             | 12,290.86             | 167.77           | 167.85        | -97.04                | -9,847.07                           | 411.27       | 993.76                 | 758.23                  | 235.53                    | 4.219             |                    |           |
| 21,500.00                         | 12,170.36             | 21,586.76             | 12,292.18             | 169.37           | 169.45        | -97.04                | -9,947.05                           | 412.15       | 993.76                 | 755.99                  | 237.77                    | 4.179             |                    |           |
| 21,600.00                         | 12,171.68             | 21,686.76             | 12,293.49             | 170.97           | 171.05        | -97.04                | -10,047.04                          | 413.03       | 993.77                 | 753.75                  | 240.02                    | 4.140             |                    |           |
| 21,700.00                         | 12,172.99             | 21,786.76             | 12,294.81             | 172.57           | 172.65        | -97.04                | -10,147.03                          | 413.90       | 993.77                 | 751.51                  | 242.26                    | 4.102             |                    |           |
| 21,800.00                         | 12,174.31             | 21,886.76             | 12,296.12             | 174.17           | 174.26        | -97.04                | -10,247.02                          | 414.78       | 993.77                 | 749.26                  | 244.51                    | 4.064             |                    |           |
| 21,900.00                         | 12,175.63             | 21,986.76             | 12,297.43             | 175.77           | 175.86        | -97.04                | -10,347.00                          | 415.66       | 993.77                 | 747.02                  | 246.75                    | 4.027             |                    |           |
| 22,000.00                         | 12,176.94             | 22,086.76             | 12,298.75             | 177.37           | 177.46        | -97.04                | -10,446.99                          | 416.54       | 993.78                 | 744.77                  | 249.00                    | 3.991             |                    |           |
| 22,100.00                         | 12,178.26             | 22,186.76             | 12,300.06             | 178.97           | 179.07        | -97.04                | -10,546.98                          | 417.42       | 993.78                 | 742.53                  | 251.25                    | 3.955             |                    |           |
| 22,200.00                         | 12,179.57             | 22,286.76             | 12,301.38             | 180.58           | 180.67        | -97.04                | -10,646.97                          | 418.30       | 993.78                 | 740.28                  | 253.50                    | 3.920             |                    |           |
| 22,300.00                         | 12,180.89             | 22,386.76             | 12,302.69             | 182.18           | 182.28        | -97.04                | -10,746.95                          | 419.17       | 993.78                 | 738.03                  | 255.75                    | 3.886             |                    |           |
| 22,400.00                         | 12,182.21             | 22,486.76             | 12,304.01             | 183.79           | 183.88        | -97.04                | -10,846.94                          | 420.05       | 993.79                 | 735.78                  | 258.00                    | 3.852             |                    |           |
| 22,500.00                         | 12,183.52             | 22,586.76             | 12,305.32             | 185.39           | 185.49        | -97.04                | -10,946.93                          | 420.93       | 993.79                 | 733.53                  | 260.26                    | 3.818             |                    |           |
| 22,600.00                         | 12,184.84             | 22,686.76             | 12,306.63             | 187.00           | 187.10        | -97.04                | -11,046.92                          | 421.81       | 993.79                 | 731.28                  | 262.51                    | 3.786             |                    |           |
| 22,700.00                         | 12,186.16             | 22,786.76             | 12,307.95             | 188.61           | 188.71        | -97.04                | -11,146.90                          | 422.69       | 993.80                 | 729.03                  | 264.77                    | 3.753             |                    |           |
| 22,800.00                         | 12,187.47             | 22,886.76             | 12,309.26             | 190.21           | 190.32        | -97.04                | -11,246.89                          | 423.57       | 993.80                 | 726.78                  | 267.02                    | 3.722             |                    |           |
| 22,900.00                         | 12,188.79             | 22,986.76             | 12,310.58             | 191.82           | 191.93        | -97.04                | -11,346.88                          | 424.45       | 993.80                 | 724.52                  | 269.28                    | 3.691             |                    |           |
| 23,000.00                         | 12,190.10             | 23,086.76             | 12,311.89             | 193.43           | 193.54        | -97.04                | -11,446.87                          | 425.32       | 993.80                 | 722.27                  | 271.54                    | 3.660             |                    |           |
| 23,100.00                         | 12,191.42             | 23,186.76             | 12,313.21             | 195.04           | 195.15        | -97.04                | -11,546.85                          | 426.20       | 993.81                 | 720.01                  | 273.80                    | 3.630             |                    |           |
| 23,200.00                         | 12,192.74             | 23,286.76             | 12,314.52             | 196.66           | 196.77        | -97.04                | -11,646.84                          | 427.08       | 993.81                 | 717.75                  | 276.06                    | 3.600             |                    |           |
| 23,300.00                         | 12,194.05             | 23,386.76             | 12,315.84             | 198.27           | 198.38        | -97.04                | -11,746.83                          | 427.96       | 993.81                 | 715.49                  | 278.32                    | 3.571             |                    |           |
| 23,400.00                         | 12,195.37             | 23,486.76             | 12,317.15             | 199.88           | 200.00        | -97.04                | -11,846.82                          | 428.84       | 993.82                 | 713.24                  | 280.58                    | 3.542             |                    |           |
| 23,500.00                         | 12,196.69             | 23,586.76             | 12,318.46             | 201.49           | 201.61        | -97.04                | -11,946.80                          | 429.72       | 993.82                 | 710.98                  | 282.84                    | 3.514             |                    |           |
| 23,509.09                         | 12,196.81             | 23,595.84             | 12,318.58             | 201.64           | 201.76        | -97.04                | -11,955.89                          | 429.80       | 993.82                 | 710.77                  | 283.05                    | 3.511             |                    |           |
| 23,594.56                         | 12,197.93             | 23,679.99             | 12,319.69             | 203.02           | 203.12        | -97.04                | -12,040.02                          | 430.54       | 993.82                 | 708.86                  | 284.96                    | 3.488 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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Judge Baylor Fed Com - Judge Baylor Fed Com 601H - OH - Plan #3 |  | 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 |                                                                 |  |                    |           |
|                                   |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   |                                                                 |  |                    |           |
| 0.00                              | 0.00                  | 3.50                  | 3.50                  | 0.00             | 0.00          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               |                         |                           |                   |                                                                 |  |                    |           |
| 100.00                            | 100.00                | 103.50                | 103.50                | 0.13             | 0.15          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,887.27                | 0.20                      | 9,496.682         |                                                                 |  |                    |           |
| 200.00                            | 200.00                | 203.50                | 203.50                | 0.48             | 0.51          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,886.76                | 0.70                      | 2,677.409         |                                                                 |  |                    |           |
| 300.00                            | 300.00                | 303.50                | 303.50                | 0.84             | 0.87          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,886.25                | 1.21                      | 1,557.581         |                                                                 |  |                    |           |
| 400.00                            | 400.00                | 403.50                | 403.50                | 1.20             | 1.23          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,885.75                | 1.72                      | 1,098.195         |                                                                 |  |                    |           |
| 500.00                            | 500.00                | 503.50                | 503.50                | 1.56             | 1.59          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,885.24                | 2.23                      | 848.061           |                                                                 |  |                    |           |
| 600.00                            | 600.00                | 603.50                | 603.50                | 1.92             | 1.95          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,884.73                | 2.73                      | 690.731           |                                                                 |  |                    |           |
| 700.00                            | 700.00                | 703.50                | 703.50                | 2.28             | 2.30          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,884.23                | 3.24                      | 582.640           |                                                                 |  |                    |           |
| 800.00                            | 800.00                | 803.50                | 803.50                | 2.63             | 2.66          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,883.72                | 3.75                      | 503.801           |                                                                 |  |                    |           |
| 900.00                            | 900.00                | 903.50                | 903.50                | 2.99             | 3.02          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,883.21                | 4.25                      | 443.754           |                                                                 |  |                    |           |
| 1,000.00                          | 1,000.00              | 1,003.50              | 1,003.50              | 3.35             | 3.38          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,882.71                | 4.76                      | 396.497           |                                                                 |  |                    |           |
| 1,100.00                          | 1,100.00              | 1,103.50              | 1,103.50              | 3.71             | 3.74          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,882.20                | 5.27                      | 358.336           |                                                                 |  |                    |           |
| 1,200.00                          | 1,200.00              | 1,203.50              | 1,203.50              | 4.07             | 4.10          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,881.69                | 5.77                      | 326.876           |                                                                 |  |                    |           |
| 1,300.00                          | 1,300.00              | 1,303.50              | 1,303.50              | 4.43             | 4.46          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,881.18                | 6.28                      | 300.494           |                                                                 |  |                    |           |
| 1,400.00                          | 1,400.00              | 1,403.50              | 1,403.50              | 4.79             | 4.81          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,880.68                | 6.79                      | 278.053           |                                                                 |  |                    |           |
| 1,500.00                          | 1,500.00              | 1,503.50              | 1,503.50              | 5.14             | 5.17          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,880.17                | 7.30                      | 258.730           |                                                                 |  |                    |           |
| 1,600.00                          | 1,600.00              | 1,603.50              | 1,603.50              | 5.50             | 5.53          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,879.66                | 7.80                      | 241.919           |                                                                 |  |                    |           |
| 1,700.00                          | 1,700.00              | 1,703.50              | 1,703.50              | 5.86             | 5.89          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,879.16                | 8.31                      | 227.159           |                                                                 |  |                    |           |
| 1,800.00                          | 1,800.00              | 1,803.50              | 1,803.50              | 6.22             | 6.25          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,878.65                | 8.82                      | 214.096           |                                                                 |  |                    |           |
| 1,900.00                          | 1,900.00              | 1,903.50              | 1,903.50              | 6.58             | 6.61          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,878.14                | 9.32                      | 202.454           |                                                                 |  |                    |           |
| 2,000.00                          | 2,000.00              | 2,003.50              | 2,003.50              | 6.94             | 6.97          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,877.64                | 9.83                      | 192.013           |                                                                 |  |                    |           |
| 2,100.00                          | 2,100.00              | 2,103.50              | 2,103.50              | 7.29             | 7.32          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,877.13                | 10.34                     | 182.596           |                                                                 |  |                    |           |
| 2,200.00                          | 2,200.00              | 2,203.50              | 2,203.50              | 7.65             | 7.68          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,876.62                | 10.84                     | 174.060           |                                                                 |  |                    |           |
| 2,300.00                          | 2,300.00              | 2,303.50              | 2,303.50              | 8.01             | 8.04          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,876.12                | 11.35                     | 166.286           |                                                                 |  |                    |           |
| 2,400.00                          | 2,400.00              | 2,403.50              | 2,403.50              | 8.37             | 8.40          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,875.61                | 11.86                     | 159.176           |                                                                 |  |                    |           |
| 2,500.00                          | 2,500.00              | 2,503.50              | 2,503.50              | 8.73             | 8.76          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,875.10                | 12.36                     | 152.650           |                                                                 |  |                    |           |
| 2,600.00                          | 2,600.00              | 2,603.50              | 2,603.50              | 9.09             | 9.12          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,874.59                | 12.87                     | 146.638           |                                                                 |  |                    |           |
| 2,688.00                          | 2,688.00              | 2,691.50              | 2,691.50              | 9.40             | 9.43          | -92.41                | -79.52                              | -1,885.79    | 1,887.47               | 1,874.15                | 13.32                     | 141.726           |                                                                 |  |                    |           |
| 2,700.00                          | 2,700.00              | 2,703.50              | 2,703.50              | 9.44             | 9.47          | 23.37                 | -79.52                              | -1,885.79    | 1,887.45               | 1,874.07                | 13.38                     | 141.092           |                                                                 |  |                    |           |
| 2,800.00                          | 2,799.98              | 2,803.48              | 2,803.48              | 9.78             | 9.83          | 23.40                 | -79.52                              | -1,885.79    | 1,885.96               | 1,872.09                | 13.87                     | 136.011           |                                                                 |  |                    |           |
| 2,900.00                          | 2,899.89              | 2,903.39              | 2,903.39              | 10.11            | 10.19         | 23.47                 | -79.52                              | -1,885.79    | 1,882.07               | 1,867.71                | 14.36                     | 131.100           |                                                                 |  |                    |           |
| 3,000.00                          | 2,999.65              | 3,003.15              | 3,003.15              | 10.45            | 10.55         | 23.59                 | -79.52                              | -1,885.79    | 1,875.78               | 1,860.94                | 14.85                     | 126.347           |                                                                 |  |                    |           |
| 3,100.00                          | 3,099.20              | 3,102.70              | 3,102.70              | 10.79            | 10.91         | 23.76                 | -79.52                              | -1,885.79    | 1,867.11               | 1,851.77                | 15.34                     | 121.739           |                                                                 |  |                    |           |
| 3,200.00                          | 3,198.47              | 3,201.97              | 3,201.97              | 11.14            | 11.26         | 23.98                 | -79.52                              | -1,885.79    | 1,856.06               | 1,840.23                | 15.83                     | 117.267           |                                                                 |  |                    |           |
| 3,281.62                          | 3,279.24              | 3,282.74              | 3,282.74              | 11.43            | 11.55         | 24.19                 | -79.52                              | -1,885.79    | 1,845.30               | 1,829.07                | 16.23                     | 113.708           |                                                                 |  |                    |           |
| 3,300.00                          | 3,297.39              | 3,300.89              | 3,300.89              | 11.49            | 11.62         | 24.23                 | -79.52                              | -1,885.79    | 1,842.70               | 1,826.38                | 16.32                     | 112.918           |                                                                 |  |                    |           |
| 3,400.00                          | 3,396.19              | 3,399.69              | 3,399.69              | 11.85            | 11.97         | 24.43                 | -79.52                              | -1,885.79    | 1,828.56               | 1,811.75                | 16.81                     | 108.778           |                                                                 |  |                    |           |
| 3,500.00                          | 3,494.98              | 3,498.48              | 3,498.48              | 12.22            | 12.32         | 24.63                 | -79.52                              | -1,885.79    | 1,814.45               | 1,797.15                | 17.30                     | 104.863           |                                                                 |  |                    |           |
| 3,600.00                          | 3,593.78              | 3,597.28              | 3,597.28              | 12.59            | 12.68         | 24.83                 | -79.52                              | -1,885.79    | 1,800.37               | 1,782.57                | 17.80                     | 101.155           |                                                                 |  |                    |           |
| 3,700.00                          | 3,692.57              | 3,696.07              | 3,696.07              | 12.96            | 13.03         | 25.04                 | -79.52                              | -1,885.79    | 1,786.30               | 1,768.01                | 18.29                     | 97.640            |                                                                 |  |                    |           |
| 3,800.00                          | 3,791.37              | 3,794.87              | 3,794.87              | 13.34            | 13.39         | 25.25                 | -79.52                              | -1,885.79    | 1,772.26               | 1,753.47                | 18.79                     | 94.304            |                                                                 |  |                    |           |
| 3,900.00                          | 3,890.16              | 3,893.66              | 3,893.66              | 13.72            | 13.74         | 25.47                 | -79.52                              | -1,885.79    | 1,758.24               | 1,738.95                | 19.29                     | 91.135            |                                                                 |  |                    |           |
| 4,000.00                          | 3,988.96              | 3,992.46              | 3,992.46              | 14.10            | 14.09         | 25.69                 | -79.52                              | -1,885.79    | 1,744.25               | 1,724.45                | 19.79                     | 88.121            |                                                                 |  |                    |           |
| 4,100.00                          | 4,087.75              | 4,091.25              | 4,091.25              | 14.49            | 14.45         | 25.91                 | -79.52                              | -1,885.79    | 1,730.28               | 1,709.98                | 20.30                     | 85.251            |                                                                 |  |                    |           |
| 4,200.00                          | 4,186.55              | 4,190.05              | 4,190.05              | 14.88            | 14.80         | 26.13                 | -79.52                              | -1,885.79    | 1,716.34               | 1,695.54                | 20.80                     | 82.516            |                                                                 |  |                    |           |
| 4,300.00                          | 4,285.34              | 4,288.84              | 4,288.84              | 15.27            | 15.16         | 26.36                 | -79.52                              | -1,885.79    | 1,702.42               | 1,681.12                | 21.31                     | 79.907            |                                                                 |  |                    |           |
| 4,400.00                          | 4,384.13              | 4,387.63              | 4,387.63              | 15.67            | 15.51         | 26.59                 | -79.52                              | -1,885.79    | 1,688.53               | 1,666.72                | 21.81                     | 77.416            |                                                                 |  |                    |           |
| 4,500.00                          | 4,482.93              | 4,486.43              | 4,486.43              | 16.06            | 15.87         | 26.83                 | -79.52                              | -1,885.79    | 1,674.67               | 1,652.36                | 22.32                     | 75.035            |                                                                 |  |                    |           |
| 4,600.00                          | 4,581.72              | 4,585.22              | 4,585.22              | 16.46            | 16.22         | 27.07                 | -79.52                              | -1,885.79    | 1,660.84               | 1,638.02                | 22.83                     | 72.758            |                                                                 |  |                    |           |
| 4,700.00                          | 4,680.52              | 4,684.02              | 4,684.02              | 16.86            | 16.57         | 27.32                 | -79.52                              | -1,885.79    | 1,647.04               | 1,623.70                | 23.34                     | 70.578            |                                                                 |  |                    |           |
| 4,800.00                          | 4,779.31              | 4,782.81              | 4,782.81              | 17.27            | 16.93         | 27.56                 | -79.52                              | -1,885.79    | 1,633.27               | 1,609.42                | 23.85                     | 68.490            |                                                                 |  |                    |           |
| 4,900.00                          | 4,878.11              | 4,881.61              | 4,881.61              | 17.67            | 17.28         | 27.82                 | -79.52                              | -1,885.79    | 1,619.53               | 1,595.17                | 24.36                     | 66.488            |                                                                 |  |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 5,000.00                          | 4,976.90              | 4,980.40              | 4,980.40              | 18.08            | 17.64         | 28.07                 | -79.52                              | -1,885.79    | 1,605.82               | 1,580.95                | 24.87                     | 64.567            |                    |           |
| 5,100.00                          | 5,075.70              | 5,079.20              | 5,079.20              | 18.49            | 17.99         | 28.34                 | -79.52                              | -1,885.79    | 1,592.14               | 1,566.76                | 25.38                     | 62.722            |                    |           |
| 5,200.00                          | 5,174.49              | 5,177.99              | 5,177.99              | 18.90            | 18.34         | 28.60                 | -79.52                              | -1,885.79    | 1,578.50               | 1,552.60                | 25.90                     | 60.950            |                    |           |
| 5,300.00                          | 5,273.29              | 5,276.79              | 5,276.79              | 19.31            | 18.70         | 28.87                 | -79.52                              | -1,885.79    | 1,564.89               | 1,538.47                | 26.41                     | 59.246            |                    |           |
| 5,400.00                          | 5,372.08              | 5,375.58              | 5,375.58              | 19.72            | 19.05         | 29.15                 | -79.52                              | -1,885.79    | 1,551.31               | 1,524.38                | 26.93                     | 57.607            |                    |           |
| 5,500.00                          | 5,470.88              | 5,474.38              | 5,474.38              | 20.13            | 19.41         | 29.43                 | -79.52                              | -1,885.79    | 1,537.77               | 1,510.33                | 27.45                     | 56.028            |                    |           |
| 5,600.00                          | 5,569.67              | 5,563.42              | 5,563.42              | 20.54            | 19.72         | 29.67                 | -79.99                              | -1,886.02    | 1,524.50               | 1,496.57                | 27.94                     | 54.572            |                    |           |
| 5,700.00                          | 5,668.47              | 5,649.40              | 5,649.36              | 20.96            | 20.00         | 29.83                 | -82.14                              | -1,887.08    | 1,512.09               | 1,483.68                | 28.41                     | 53.227            |                    |           |
| 5,800.00                          | 5,767.26              | 5,735.70              | 5,735.55              | 21.38            | 20.28         | 29.93                 | -86.04                              | -1,889.01    | 1,500.54               | 1,471.66                | 28.88                     | 51.964            |                    |           |
| 5,900.00                          | 5,866.06              | 5,822.24              | 5,821.86              | 21.79            | 20.56         | 29.97                 | -91.70                              | -1,891.81    | 1,489.85               | 1,460.51                | 29.34                     | 50.772            |                    |           |
| 6,000.00                          | 5,964.85              | 5,910.25              | 5,909.46              | 22.21            | 20.85         | 29.93                 | -99.24                              | -1,895.53    | 1,480.02               | 1,450.20                | 29.81                     | 49.642            |                    |           |
| 6,100.00                          | 6,063.65              | 6,009.78              | 6,008.45              | 22.63            | 21.18         | 29.85                 | -108.57                             | -1,900.14    | 1,470.53               | 1,440.22                | 30.31                     | 48.515            |                    |           |
| 6,200.00                          | 6,162.44              | 6,109.31              | 6,107.43              | 23.05            | 21.50         | 29.78                 | -117.90                             | -1,904.75    | 1,461.04               | 1,430.23                | 30.81                     | 47.421            |                    |           |
| 6,300.00                          | 6,261.24              | 6,208.84              | 6,206.41              | 23.47            | 21.83         | 29.70                 | -127.23                             | -1,909.35    | 1,451.56               | 1,420.25                | 31.31                     | 46.360            |                    |           |
| 6,400.00                          | 6,360.03              | 6,308.37              | 6,305.40              | 23.89            | 22.17         | 29.62                 | -136.56                             | -1,913.96    | 1,442.08               | 1,410.27                | 31.81                     | 45.330            |                    |           |
| 6,500.00                          | 6,458.83              | 6,407.90              | 6,404.38              | 24.31            | 22.50         | 29.54                 | -145.89                             | -1,918.57    | 1,432.60               | 1,400.29                | 32.32                     | 44.330            |                    |           |
| 6,600.00                          | 6,557.62              | 6,507.43              | 6,503.37              | 24.73            | 22.84         | 29.46                 | -155.22                             | -1,923.18    | 1,423.13               | 1,390.31                | 32.82                     | 43.359            |                    |           |
| 6,700.00                          | 6,656.42              | 6,606.96              | 6,602.35              | 25.15            | 23.18         | 29.37                 | -164.55                             | -1,927.79    | 1,413.66               | 1,380.33                | 33.33                     | 42.416            |                    |           |
| 6,800.00                          | 6,755.21              | 6,706.49              | 6,701.34              | 25.57            | 23.52         | 29.29                 | -173.88                             | -1,932.39    | 1,404.19               | 1,370.35                | 33.84                     | 41.499            |                    |           |
| 6,900.00                          | 6,854.01              | 6,806.02              | 6,800.32              | 26.00            | 23.86         | 29.21                 | -183.21                             | -1,937.00    | 1,394.72               | 1,360.38                | 34.35                     | 40.608            |                    |           |
| 7,000.00                          | 6,952.80              | 6,905.55              | 6,899.31              | 26.42            | 24.20         | 29.12                 | -192.54                             | -1,941.61    | 1,385.26               | 1,350.40                | 34.86                     | 39.742            |                    |           |
| 7,100.00                          | 7,051.59              | 7,005.08              | 6,998.29              | 26.85            | 24.55         | 29.03                 | -201.87                             | -1,946.22    | 1,375.80               | 1,340.43                | 35.37                     | 38.900            |                    |           |
| 7,200.00                          | 7,150.39              | 7,104.61              | 7,097.27              | 27.27            | 24.90         | 28.95                 | -211.20                             | -1,950.83    | 1,366.35               | 1,330.46                | 35.88                     | 38.081            |                    |           |
| 7,300.00                          | 7,249.18              | 7,204.14              | 7,196.26              | 27.70            | 25.25         | 28.86                 | -220.52                             | -1,955.43    | 1,356.89               | 1,320.50                | 36.39                     | 37.284            |                    |           |
| 7,400.00                          | 7,347.98              | 7,303.66              | 7,295.24              | 28.12            | 25.60         | 28.77                 | -229.85                             | -1,960.04    | 1,347.44               | 1,310.53                | 36.91                     | 36.508            |                    |           |
| 7,411.16                          | 7,359.00              | 7,314.77              | 7,306.29              | 28.17            | 25.63         | 28.76                 | -230.89                             | -1,960.56    | 1,346.39               | 1,309.42                | 36.97                     | 36.423            |                    |           |
| 7,500.00                          | 7,446.93              | 7,403.26              | 7,394.29              | 28.54            | 25.95         | 28.60                 | -239.19                             | -1,964.65    | 1,338.90               | 1,301.48                | 37.42                     | 35.779            |                    |           |
| 7,600.00                          | 7,546.22              | 7,502.99              | 7,493.47              | 28.94            | 26.30         | 28.39                 | -248.54                             | -1,969.27    | 1,332.64               | 1,294.71                | 37.93                     | 35.134            |                    |           |
| 7,700.00                          | 7,645.78              | 7,602.77              | 7,592.71              | 29.33            | 26.65         | 28.14                 | -257.89                             | -1,973.89    | 1,328.70               | 1,290.27                | 38.43                     | 34.571            |                    |           |
| 7,800.00                          | 7,745.56              | 7,702.55              | 7,691.94              | 29.70            | 27.01         | 27.85                 | -267.24                             | -1,978.51    | 1,327.09               | 1,288.16                | 38.93                     | 34.087            |                    |           |
| 7,818.48                          | 7,764.01              | 7,720.98              | 7,710.27              | 29.76            | 27.08         | 27.79                 | -268.97                             | -1,979.36    | 1,327.05               | 1,288.03                | 39.02                     | 34.007 CC         |                    |           |
| 7,900.00                          | 7,845.47              | 7,802.25              | 7,791.10              | 30.05            | 27.37         | 27.52                 | -276.59                             | -1,983.12    | 1,327.84               | 1,288.41                | 39.42                     | 33.681            |                    |           |
| 8,004.78                          | 7,950.24              | 7,906.56              | 7,894.84              | 30.40            | 27.74         | -88.63                | -286.37                             | -1,987.95    | 1,331.16               | 1,291.23                | 39.93                     | 33.337            |                    |           |
| 8,100.00                          | 8,045.46              | 8,001.26              | 7,989.01              | 30.70            | 28.08         | -89.02                | -295.24                             | -1,992.34    | 1,335.41               | 1,295.03                | 40.38                     | 33.068            |                    |           |
| 8,200.00                          | 8,145.46              | 8,100.71              | 8,087.92              | 31.02            | 28.44         | -89.42                | -304.57                             | -1,996.94    | 1,339.93               | 1,299.07                | 40.86                     | 32.793            |                    |           |
| 8,300.00                          | 8,245.46              | 8,204.08              | 8,190.74              | 31.34            | 28.81         | -89.83                | -314.18                             | -2,001.69    | 1,344.49               | 1,303.14                | 41.35                     | 32.516            |                    |           |
| 8,400.00                          | 8,345.46              | 8,322.26              | 8,308.50              | 31.66            | 29.24         | -90.21                | -322.93                             | -2,006.01    | 1,348.16               | 1,306.29                | 41.87                     | 32.200            |                    |           |
| 8,500.00                          | 8,445.46              | 8,440.93              | 8,427.01              | 31.98            | 29.65         | -90.44                | -328.42                             | -2,008.73    | 1,350.47               | 1,308.09                | 42.38                     | 31.864            |                    |           |
| 8,600.00                          | 8,545.46              | 8,559.86              | 8,545.91              | 32.31            | 30.07         | -90.53                | -330.62                             | -2,009.81    | 1,351.40               | 1,308.51                | 42.89                     | 31.506            |                    |           |
| 8,700.00                          | 8,645.46              | 8,662.91              | 8,648.96              | 32.63            | 30.43         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,308.04                | 43.38                     | 31.151            |                    |           |
| 8,800.00                          | 8,745.46              | 8,762.91              | 8,748.96              | 32.96            | 30.78         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,307.55                | 43.87                     | 30.805            |                    |           |
| 8,900.00                          | 8,845.46              | 8,862.91              | 8,848.96              | 33.28            | 31.13         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,307.06                | 44.36                     | 30.467            |                    |           |
| 9,000.00                          | 8,945.46              | 8,962.91              | 8,948.96              | 33.61            | 31.48         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,306.58                | 44.84                     | 30.136            |                    |           |
| 9,100.00                          | 9,045.46              | 9,062.91              | 9,048.96              | 33.93            | 31.83         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,306.09                | 45.33                     | 29.812            |                    |           |
| 9,200.00                          | 9,145.46              | 9,162.91              | 9,148.96              | 34.26            | 32.18         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,305.60                | 45.82                     | 29.495            |                    |           |
| 9,300.00                          | 9,245.46              | 9,262.91              | 9,248.96              | 34.59            | 32.53         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,305.11                | 46.31                     | 29.183            |                    |           |
| 9,400.00                          | 9,345.46              | 9,362.91              | 9,348.96              | 34.92            | 32.88         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,304.62                | 46.80                     | 28.879            |                    |           |
| 9,500.00                          | 9,445.46              | 9,462.91              | 9,448.96              | 35.24            | 33.23         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,304.13                | 47.29                     | 28.580            |                    |           |
| 9,600.00                          | 9,545.46              | 9,562.91              | 9,548.96              | 35.57            | 33.58         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,303.64                | 47.78                     | 28.287            |                    |           |
| 9,700.00                          | 9,645.46              | 9,662.91              | 9,648.96              | 35.90            | 33.93         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,303.15                | 48.27                     | 28.000            |                    |           |
| 9,800.00                          | 9,745.46              | 9,762.91              | 9,748.96              | 36.23            | 34.29         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,302.66                | 48.76                     | 27.718            |                    |           |
| 9,900.00                          | 9,845.46              | 9,862.91              | 9,848.96              | 36.57            | 34.64         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,302.17                | 49.25                     | 27.442            |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 10,000.00                         | 9,945.46              | 9,962.91              | 9,948.96              | 36.90            | 34.99         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,301.68                | 49.74                     | 27.171            |                    |           |
| 10,100.00                         | 10,045.46             | 10,062.91             | 10,048.96             | 37.23            | 35.34         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,301.19                | 50.23                     | 26.905            |                    |           |
| 10,200.00                         | 10,145.46             | 10,162.91             | 10,148.96             | 37.56            | 35.69         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,300.70                | 50.72                     | 26.645            |                    |           |
| 10,300.00                         | 10,245.46             | 10,262.91             | 10,248.96             | 37.89            | 36.05         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,300.21                | 51.21                     | 26.389            |                    |           |
| 10,400.00                         | 10,345.46             | 10,362.91             | 10,348.96             | 38.23            | 36.40         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,299.71                | 51.70                     | 26.138            |                    |           |
| 10,500.00                         | 10,445.46             | 10,462.91             | 10,448.96             | 38.56            | 36.75         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,299.22                | 52.20                     | 25.891            |                    |           |
| 10,600.00                         | 10,545.46             | 10,562.91             | 10,548.96             | 38.90            | 37.10         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,298.73                | 52.69                     | 25.649            |                    |           |
| 10,700.00                         | 10,645.46             | 10,662.91             | 10,648.96             | 39.23            | 37.46         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,298.24                | 53.18                     | 25.411            |                    |           |
| 10,800.00                         | 10,745.46             | 10,762.91             | 10,748.96             | 39.57            | 37.81         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,297.74                | 53.68                     | 25.178            |                    |           |
| 10,900.00                         | 10,845.46             | 10,862.91             | 10,848.96             | 39.90            | 38.16         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,297.25                | 54.17                     | 24.948            |                    |           |
| 11,000.00                         | 10,945.46             | 10,962.91             | 10,948.96             | 40.24            | 38.51         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,296.76                | 54.66                     | 24.723            |                    |           |
| 11,100.00                         | 11,045.46             | 11,062.91             | 11,048.96             | 40.57            | 38.87         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,296.26                | 55.16                     | 24.501            |                    |           |
| 11,200.00                         | 11,145.46             | 11,162.91             | 11,148.96             | 40.91            | 39.22         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,295.77                | 55.65                     | 24.284            |                    |           |
| 11,300.00                         | 11,245.46             | 11,262.91             | 11,248.96             | 41.25            | 39.57         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,295.27                | 56.15                     | 24.070            |                    |           |
| 11,400.00                         | 11,345.46             | 11,362.91             | 11,348.96             | 41.59            | 39.93         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,294.78                | 56.64                     | 23.860            |                    |           |
| 11,400.03                         | 11,345.48             | 11,362.93             | 11,348.98             | 41.59            | 39.93         | -90.53                | -330.66                             | -2,009.83    | 1,351.42               | 1,294.78                | 56.64                     | 23.860            |                    |           |
| 11,500.00                         | 11,445.46             | 11,462.31             | 11,448.12             | 41.92            | 40.27         | -90.76                | -336.01                             | -2,009.78    | 1,351.43               | 1,294.31                | 57.13                     | 23.657            |                    |           |
| 11,532.54                         | 11,478.00             | 11,493.94             | 11,479.31             | 42.03            | 40.38         | -90.98                | -341.18                             | -2,009.74    | 1,351.47               | 1,294.18                | 57.28                     | 23.593            |                    |           |
| 11,550.00                         | 11,495.46             | 11,510.69             | 11,495.71             | 42.09            | 40.44         | 89.38                 | -344.62                             | -2,009.71    | 1,351.50               | 1,294.13                | 57.37                     | 23.559            |                    |           |
| 11,600.00                         | 11,545.30             | 11,558.19             | 11,541.57             | 42.26            | 40.62         | 88.99                 | -356.95                             | -2,009.60    | 1,351.63               | 1,294.03                | 57.61                     | 23.462            |                    |           |
| 11,650.00                         | 11,594.64             | 11,605.00             | 11,585.61             | 42.43            | 40.79         | 88.61                 | -372.77                             | -2,009.46    | 1,351.83               | 1,293.97                | 57.86                     | 23.365            |                    |           |
| 11,700.00                         | 11,643.08             | 11,650.00             | 11,626.59             | 42.61            | 40.96         | 88.25                 | -391.33                             | -2,009.30    | 1,352.08               | 1,293.97                | 58.11                     | 23.269            |                    |           |
| 11,750.00                         | 11,690.27             | 11,696.76             | 11,667.50             | 42.79            | 41.14         | 87.88                 | -413.95                             | -2,009.10    | 1,352.36               | 1,294.00                | 58.37                     | 23.171            |                    |           |
| 11,800.00                         | 11,735.85             | 11,741.80             | 11,705.04             | 42.97            | 41.31         | 87.54                 | -438.82                             | -2,008.88    | 1,352.69               | 1,294.06                | 58.63                     | 23.073            |                    |           |
| 11,850.00                         | 11,779.46             | 11,786.35             | 11,740.13             | 43.15            | 41.49         | 87.22                 | -466.25                             | -2,008.64    | 1,353.04               | 1,294.15                | 58.89                     | 22.976            |                    |           |
| 11,900.00                         | 11,820.78             | 11,830.46             | 11,772.67             | 43.34            | 41.67         | 86.92                 | -496.01                             | -2,008.38    | 1,353.41               | 1,294.25                | 59.16                     | 22.878            |                    |           |
| 11,950.00                         | 11,859.49             | 11,874.17             | 11,802.56             | 43.52            | 41.85         | 86.64                 | -527.88                             | -2,008.10    | 1,353.78               | 1,294.35                | 59.43                     | 22.780            |                    |           |
| 12,000.00                         | 11,895.30             | 11,917.51             | 11,829.72             | 43.71            | 42.03         | 86.38                 | -561.64                             | -2,007.80    | 1,354.15               | 1,294.45                | 59.71                     | 22.680            |                    |           |
| 12,050.00                         | 11,927.93             | 11,960.54             | 11,854.08             | 43.90            | 42.22         | 86.14                 | -597.10                             | -2,007.49    | 1,354.51               | 1,294.52                | 59.99                     | 22.579            |                    |           |
| 12,100.00                         | 11,957.13             | 12,000.00             | 11,874.03             | 44.09            | 42.39         | 85.95                 | -631.14                             | -2,007.19    | 1,354.85               | 1,294.58                | 60.27                     | 22.479            |                    |           |
| 12,150.00                         | 11,982.69             | 12,045.80             | 11,894.17             | 44.29            | 42.60         | 85.76                 | -672.25                             | -2,006.83    | 1,355.15               | 1,294.57                | 60.58                     | 22.370            |                    |           |
| 12,200.00                         | 12,004.41             | 12,088.11             | 11,909.81             | 44.50            | 42.80         | 85.60                 | -711.56                             | -2,006.49    | 1,355.42               | 1,294.53                | 60.89                     | 22.261            |                    |           |
| 12,250.00                         | 12,022.12             | 12,130.26             | 11,922.47             | 44.72            | 43.00         | 85.48                 | -751.75                             | -2,006.13    | 1,355.64               | 1,294.44                | 61.20                     | 22.150            |                    |           |
| 12,300.00                         | 12,035.70             | 12,172.28             | 11,932.11             | 44.95            | 43.20         | 85.39                 | -792.64                             | -2,005.77    | 1,355.81               | 1,294.28                | 61.53                     | 22.037            |                    |           |
| 12,350.00                         | 12,045.02             | 12,214.21             | 11,938.72             | 45.18            | 43.41         | 85.32                 | -834.04                             | -2,005.41    | 1,355.93               | 1,294.07                | 61.86                     | 21.921            |                    |           |
| 12,400.00                         | 12,050.03             | 12,256.09             | 11,942.28             | 45.42            | 43.61         | 85.29                 | -875.75                             | -2,005.04    | 1,355.99               | 1,293.80                | 62.19                     | 21.803            |                    |           |
| 12,425.00                         | 12,050.91             | 12,277.75             | 11,942.92             | 45.55            | 43.72         | 85.28                 | -897.40                             | -2,004.85    | 1,356.00               | 1,293.63                | 62.36                     | 21.744            |                    |           |
| 12,425.66                         | 12,050.92             | 12,277.75             | 11,942.92             | 45.55            | 43.72         | 85.28                 | -897.40                             | -2,004.85    | 1,356.00               | 1,293.63                | 62.37                     | 21.742            |                    |           |
| 12,500.00                         | 12,051.90             | 12,351.88             | 11,943.73             | 45.94            | 44.11         | 85.28                 | -971.52                             | -2,004.20    | 1,356.01               | 1,293.09                | 62.92                     | 21.551            |                    |           |
| 12,600.00                         | 12,053.21             | 12,451.88             | 11,944.81             | 46.50            | 44.68         | 85.27                 | -1,071.51                           | -2,003.33    | 1,356.03               | 1,292.30                | 63.73                     | 21.278            |                    |           |
| 12,700.00                         | 12,054.53             | 12,551.88             | 11,945.89             | 47.12            | 45.29         | 85.26                 | -1,171.50                           | -2,002.45    | 1,356.04               | 1,291.43                | 64.61                     | 20.987            |                    |           |
| 12,800.00                         | 12,055.84             | 12,651.88             | 11,946.97             | 47.78            | 45.96         | 85.25                 | -1,271.49                           | -2,001.57    | 1,356.06               | 1,290.50                | 65.57                     | 20.683            |                    |           |
| 12,900.00                         | 12,057.16             | 12,751.88             | 11,948.05             | 48.50            | 46.68         | 85.24                 | -1,371.48                           | -2,000.69    | 1,356.08               | 1,289.49                | 66.59                     | 20.366            |                    |           |
| 13,000.00                         | 12,058.48             | 12,851.87             | 11,949.13             | 49.26            | 47.45         | 85.23                 | -1,471.47                           | -1,999.82    | 1,356.10               | 1,288.42                | 67.67                     | 20.039            |                    |           |
| 13,100.00                         | 12,059.79             | 12,951.87             | 11,950.21             | 50.06            | 48.26         | 85.22                 | -1,571.46                           | -1,998.94    | 1,356.11               | 1,287.29                | 68.82                     | 19.705            |                    |           |
| 13,200.00                         | 12,061.11             | 13,051.87             | 11,951.29             | 50.90            | 49.11         | 85.21                 | -1,671.45                           | -1,998.06    | 1,356.13               | 1,286.11                | 70.03                     | 19.366            |                    |           |
| 13,300.00                         | 12,062.43             | 13,151.87             | 11,952.38             | 51.78            | 50.00         | 85.20                 | -1,771.44                           | -1,997.18    | 1,356.15               | 1,284.86                | 71.29                     | 19.023            |                    |           |
| 13,400.00                         | 12,063.74             | 13,251.87             | 11,953.46             | 52.70            | 50.93         | 85.19                 | -1,871.43                           | -1,996.30    | 1,356.17               | 1,283.56                | 72.60                     | 18.679            |                    |           |
| 13,500.00                         | 12,065.06             | 13,351.87             | 11,954.54             | 53.65            | 51.89         | 85.18                 | -1,971.42                           | -1,995.43    | 1,356.18               | 1,282.22                | 73.97                     | 18.335            |                    |           |
| 13,600.00                         | 12,066.37             | 13,451.87             | 11,955.62             | 54.64            | 52.89         | 85.17                 | -2,071.41                           | -1,994.55    | 1,356.20               | 1,280.82                | 75.38                     | 17.991            |                    |           |
| 13,700.00                         | 12,067.69             | 13,551.87             | 11,956.70             | 55.66            | 53.92         | 85.16                 | -2,171.40                           | -1,993.67    | 1,356.22               | 1,279.38                | 76.84                     | 17.651            |                    |           |
| 13,800.00                         | 12,069.01             | 13,651.87             | 11,957.78             | 56.71            | 54.99         | 85.15                 | -2,271.39                           | -1,992.79    | 1,356.24               | 1,277.90                | 78.34                     | 17.313            |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Judge Baylor Fed Com - Judge Baylor Fed Com 601H - OH - Plan #3 |         | 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 |                                                                 |         |                    |           |
| 13,900.00                         | 12,070.32             | 13,751.87             | 11,958.86             | 57.78            | 56.08         | 85.14                 | -2,371.38                           | -1,991.92    | 1,356.25               | 1,276.38                | 79.87                     | 16.980            |                                                                 |         |                    |           |
| 14,000.00                         | 12,071.64             | 13,851.87             | 11,959.95             | 58.89            | 57.19         | 85.13                 | -2,471.37                           | -1,991.04    | 1,356.27               | 1,274.82                | 81.45                     | 16.651            |                                                                 |         |                    |           |
| 14,100.00                         | 12,072.96             | 13,951.87             | 11,961.03             | 60.02            | 58.34         | 85.12                 | -2,571.36                           | -1,990.16    | 1,356.29               | 1,273.23                | 83.06                     | 16.328            |                                                                 |         |                    |           |
| 14,200.00                         | 12,074.27             | 14,051.87             | 11,962.11             | 61.17            | 59.50         | 85.11                 | -2,671.35                           | -1,989.28    | 1,356.31               | 1,271.60                | 84.71                     | 16.012            |                                                                 |         |                    |           |
| 14,300.00                         | 12,075.59             | 14,151.87             | 11,963.19             | 62.34            | 60.69         | 85.10                 | -2,771.34                           | -1,988.40    | 1,356.33               | 1,269.94                | 86.38                     | 15.701            |                                                                 |         |                    |           |
| 14,400.00                         | 12,076.90             | 14,251.87             | 11,964.27             | 63.54            | 61.90         | 85.09                 | -2,871.33                           | -1,987.53    | 1,356.34               | 1,268.25                | 88.09                     | 15.397            |                                                                 |         |                    |           |
| 14,500.00                         | 12,078.22             | 14,351.87             | 11,965.35             | 64.76            | 63.13         | 85.08                 | -2,971.32                           | -1,986.65    | 1,356.36               | 1,266.54                | 89.83                     | 15.100            |                                                                 |         |                    |           |
| 14,600.00                         | 12,079.54             | 14,451.87             | 11,966.43             | 65.99            | 64.38         | 85.07                 | -3,071.31                           | -1,985.77    | 1,356.38               | 1,264.79                | 91.59                     | 14.810            |                                                                 |         |                    |           |
| 14,700.00                         | 12,080.85             | 14,551.87             | 11,967.51             | 67.25            | 65.65         | 85.06                 | -3,171.30                           | -1,984.89    | 1,356.40               | 1,263.03                | 93.37                     | 14.527            |                                                                 |         |                    |           |
| 14,800.00                         | 12,082.17             | 14,651.87             | 11,968.60             | 68.52            | 66.93         | 85.05                 | -3,271.29                           | -1,984.02    | 1,356.41               | 1,261.23                | 95.18                     | 14.251            |                                                                 |         |                    |           |
| 14,900.00                         | 12,083.49             | 14,751.87             | 11,969.68             | 69.80            | 68.23         | 85.04                 | -3,371.28                           | -1,983.14    | 1,356.43               | 1,259.42                | 97.01                     | 13.982            |                                                                 |         |                    |           |
| 15,000.00                         | 12,084.80             | 14,851.87             | 11,970.76             | 71.10            | 69.55         | 85.03                 | -3,471.27                           | -1,982.26    | 1,356.45               | 1,257.59                | 98.86                     | 13.720            |                                                                 |         |                    |           |
| 15,100.00                         | 12,086.12             | 14,951.87             | 11,971.84             | 72.42            | 70.88         | 85.02                 | -3,571.26                           | -1,981.38    | 1,356.47               | 1,255.73                | 100.73                    | 13.466            |                                                                 |         |                    |           |
| 15,200.00                         | 12,087.43             | 15,051.87             | 11,972.92             | 73.75            | 72.22         | 85.01                 | -3,671.25                           | -1,980.50    | 1,356.49               | 1,253.86                | 102.63                    | 13.218            |                                                                 |         |                    |           |
| 15,300.00                         | 12,088.75             | 15,151.87             | 11,974.00             | 75.09            | 73.58         | 85.00                 | -3,771.24                           | -1,979.63    | 1,356.51               | 1,251.97                | 104.53                    | 12.977            |                                                                 |         |                    |           |
| 15,400.00                         | 12,090.07             | 15,251.87             | 11,975.08             | 76.44            | 74.94         | 84.99                 | -3,871.23                           | -1,978.75    | 1,356.52               | 1,250.07                | 106.46                    | 12.742            |                                                                 |         |                    |           |
| 15,500.00                         | 12,091.38             | 15,351.87             | 11,976.16             | 77.81            | 76.32         | 84.98                 | -3,971.22                           | -1,977.87    | 1,356.54               | 1,248.15                | 108.40                    | 12.515            |                                                                 |         |                    |           |
| 15,600.00                         | 12,092.70             | 15,451.87             | 11,977.25             | 79.19            | 77.71         | 84.97                 | -4,071.21                           | -1,976.99    | 1,356.56               | 1,246.21                | 110.35                    | 12.293            |                                                                 |         |                    |           |
| 15,700.00                         | 12,094.02             | 15,551.87             | 11,978.33             | 80.57            | 79.11         | 84.96                 | -4,171.20                           | -1,976.12    | 1,356.58               | 1,244.26                | 112.32                    | 12.078            |                                                                 |         |                    |           |
| 15,800.00                         | 12,095.33             | 15,651.87             | 11,979.41             | 81.97            | 80.52         | 84.95                 | -4,271.19                           | -1,975.24    | 1,356.60               | 1,242.29                | 114.30                    | 11.868            |                                                                 |         |                    |           |
| 15,900.00                         | 12,096.65             | 15,751.87             | 11,980.49             | 83.38            | 81.94         | 84.94                 | -4,371.18                           | -1,974.36    | 1,356.62               | 1,240.32                | 116.30                    | 11.665            |                                                                 |         |                    |           |
| 16,000.00                         | 12,097.97             | 15,851.87             | 11,981.57             | 84.79            | 83.36         | 84.93                 | -4,471.17                           | -1,973.48    | 1,356.63               | 1,238.33                | 118.31                    | 11.467            |                                                                 |         |                    |           |
| 16,100.00                         | 12,099.28             | 15,951.87             | 11,982.65             | 86.21            | 84.80         | 84.92                 | -4,571.16                           | -1,972.60    | 1,356.65               | 1,236.33                | 120.33                    | 11.275            |                                                                 |         |                    |           |
| 16,200.00                         | 12,100.60             | 16,051.87             | 11,983.73             | 87.65            | 86.24         | 84.91                 | -4,671.15                           | -1,971.73    | 1,356.67               | 1,234.32                | 122.36                    | 11.088            |                                                                 |         |                    |           |
| 16,300.00                         | 12,101.91             | 16,151.87             | 11,984.81             | 89.08            | 87.69         | 84.90                 | -4,771.14                           | -1,970.85    | 1,356.69               | 1,232.29                | 124.40                    | 10.906            |                                                                 |         |                    |           |
| 16,400.00                         | 12,103.23             | 16,251.87             | 11,985.90             | 90.53            | 89.15         | 84.89                 | -4,871.13                           | -1,969.97    | 1,356.71               | 1,230.26                | 126.45                    | 10.729            |                                                                 |         |                    |           |
| 16,500.00                         | 12,104.55             | 16,351.87             | 11,986.98             | 91.98            | 90.61         | 84.88                 | -4,971.12                           | -1,969.09    | 1,356.73               | 1,228.22                | 128.51                    | 10.558            |                                                                 |         |                    |           |
| 16,600.00                         | 12,105.86             | 16,451.87             | 11,988.06             | 93.44            | 92.08         | 84.87                 | -5,071.11                           | -1,968.22    | 1,356.75               | 1,226.17                | 130.58                    | 10.391            |                                                                 |         |                    |           |
| 16,700.00                         | 12,107.18             | 16,551.86             | 11,989.14             | 94.91            | 93.56         | 84.86                 | -5,171.10                           | -1,967.34    | 1,356.77               | 1,224.11                | 132.65                    | 10.228            |                                                                 |         |                    |           |
| 16,800.00                         | 12,108.50             | 16,651.86             | 11,990.22             | 96.38            | 95.04         | 84.85                 | -5,271.09                           | -1,966.46    | 1,356.78               | 1,222.05                | 134.74                    | 10.070            |                                                                 |         |                    |           |
| 16,900.00                         | 12,109.81             | 16,751.86             | 11,991.30             | 97.86            | 96.52         | 84.84                 | -5,371.08                           | -1,965.58    | 1,356.80               | 1,219.97                | 136.83                    | 9.916             |                                                                 |         |                    |           |
| 17,000.00                         | 12,111.13             | 16,851.86             | 11,992.38             | 99.34            | 98.02         | 84.83                 | -5,471.07                           | -1,964.70    | 1,356.82               | 1,217.89                | 138.93                    | 9.766             |                                                                 |         |                    |           |
| 17,100.00                         | 12,112.44             | 16,951.86             | 11,993.46             | 100.83           | 99.52         | 84.82                 | -5,571.06                           | -1,963.83    | 1,356.84               | 1,215.80                | 141.04                    | 9.620             |                                                                 |         |                    |           |
| 17,200.00                         | 12,113.76             | 17,051.86             | 11,994.55             | 102.33           | 101.02        | 84.81                 | -5,671.05                           | -1,962.95    | 1,356.86               | 1,213.71                | 143.15                    | 9.479             |                                                                 |         |                    |           |
| 17,300.00                         | 12,115.08             | 17,151.86             | 11,995.63             | 103.83           | 102.52        | 84.80                 | -5,771.04                           | -1,962.07    | 1,356.88               | 1,211.61                | 145.27                    | 9.340             |                                                                 |         |                    |           |
| 17,400.00                         | 12,116.39             | 17,251.86             | 11,996.71             | 105.33           | 104.04        | 84.79                 | -5,871.03                           | -1,961.19    | 1,356.90               | 1,209.50                | 147.40                    | 9.206             |                                                                 |         |                    |           |
| 17,500.00                         | 12,117.71             | 17,351.86             | 11,997.79             | 106.84           | 105.55        | 84.78                 | -5,971.02                           | -1,960.32    | 1,356.92               | 1,207.39                | 149.53                    | 9.075             |                                                                 |         |                    |           |
| 17,600.00                         | 12,119.03             | 17,451.86             | 11,998.87             | 108.35           | 107.07        | 84.77                 | -6,071.01                           | -1,959.44    | 1,356.94               | 1,205.27                | 151.67                    | 8.947             |                                                                 |         |                    |           |
| 17,700.00                         | 12,120.34             | 17,551.86             | 11,999.95             | 109.86           | 108.60        | 84.76                 | -6,171.00                           | -1,958.56    | 1,356.96               | 1,203.14                | 153.81                    | 8.822             |                                                                 |         |                    |           |
| 17,800.00                         | 12,121.66             | 17,651.86             | 12,001.03             | 111.38           | 110.12        | 84.75                 | -6,270.99                           | -1,957.68    | 1,356.97               | 1,201.01                | 155.96                    | 8.701             |                                                                 |         |                    |           |
| 17,900.00                         | 12,122.97             | 17,751.86             | 12,002.11             | 112.91           | 111.65        | 84.74                 | -6,370.98                           | -1,956.80    | 1,356.99               | 1,198.88                | 158.11                    | 8.582             |                                                                 |         |                    |           |
| 18,000.00                         | 12,124.29             | 17,851.86             | 12,003.20             | 114.43           | 113.19        | 84.73                 | -6,470.97                           | -1,955.93    | 1,357.01               | 1,196.74                | 160.27                    | 8.467             |                                                                 |         |                    |           |
| 18,100.00                         | 12,125.61             | 17,951.86             | 12,004.28             | 115.96           | 114.73        | 84.72                 | -6,570.96                           | -1,955.05    | 1,357.03               | 1,194.60                | 162.43                    | 8.354             |                                                                 |         |                    |           |
| 18,200.00                         | 12,126.92             | 18,051.86             | 12,005.36             | 117.50           | 116.27        | 84.71                 | -6,670.95                           | -1,954.17    | 1,357.05               | 1,192.45                | 164.60                    | 8.245             |                                                                 |         |                    |           |
| 18,300.00                         | 12,128.24             | 18,151.86             | 12,006.44             | 119.04           | 117.81        | 84.70                 | -6,770.94                           | -1,953.29    | 1,357.07               | 1,190.30                | 166.77                    | 8.137             |                                                                 |         |                    |           |
| 18,400.00                         | 12,129.56             | 18,251.86             | 12,007.52             | 120.58           | 119.36        | 84.69                 | -6,870.93                           | -1,952.42    | 1,357.09               | 1,188.14                | 168.95                    | 8.033             |                                                                 |         |                    |           |
| 18,500.00                         | 12,130.87             | 18,351.86             | 12,008.60             | 122.12           | 120.91        | 84.68                 | -6,970.92                           | -1,951.54    | 1,357.11               | 1,185.98                | 171.13                    | 7.930             |                                                                 |         |                    |           |
| 18,600.00                         | 12,132.19             | 18,451.86             | 12,009.68             | 123.66           | 122.46        | 84.67                 | -7,070.91                           | -1,950.66    | 1,357.13               | 1,183.82                | 173.31                    | 7.831             |                                                                 |         |                    |           |
| 18,700.00                         | 12,133.50             | 18,551.86             | 12,010.77             | 125.21           | 124.01        | 84.66                 | -7,170.90                           | -1,949.78    | 1,357.15               | 1,181.65                | 175.50                    | 7.733             |                                                                 |         |                    |           |
| 18,800.00                         | 12,134.82             | 18,651.86             | 12,011.85             | 126.76           | 125.57        | 84.65                 | -7,270.89                           | -1,948.90    | 1,357.17               | 1,179.48                | 177.68                    | 7.638             |                                                                 |         |                    |           |
| 18,900.00                         | 12,136.14             | 18,751.86             | 12,012.93             | 128.32           | 127.13        | 84.64                 | -7,370.88                           | -1,948.03    | 1,357.19               | 1,177.31                | 179.88                    | 7.545             |                                                                 |         |                    |           |
| 19,000.00                         | 12,137.45             | 18,851.86             | 12,014.01             | 129.87           | 128.69        | 84.63                 | -7,470.87                           | -1,947.15    | 1,357.21               | 1,175.13                | 182.07                    | 7.454             |                                                                 |         |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 19,100.00                         | 12,138.77             | 18,951.86             | 12,015.09             | 131.43           | 130.26        | 84.62                 | -7,570.86                           | -1,946.27    | 1,357.23               | 1,172.95                | 184.27                    | 7.365             |                    |           |
| 19,200.00                         | 12,140.09             | 19,051.86             | 12,016.17             | 132.99           | 131.82        | 84.61                 | -7,670.85                           | -1,945.39    | 1,357.25               | 1,170.77                | 186.48                    | 7.278             |                    |           |
| 19,300.00                         | 12,141.40             | 19,151.86             | 12,017.25             | 134.56           | 133.39        | 84.60                 | -7,770.84                           | -1,944.52    | 1,357.27               | 1,168.59                | 188.68                    | 7.193             |                    |           |
| 19,400.00                         | 12,142.72             | 19,251.86             | 12,018.33             | 136.12           | 134.96        | 84.59                 | -7,870.83                           | -1,943.64    | 1,357.29               | 1,166.40                | 190.89                    | 7.110             |                    |           |
| 19,500.00                         | 12,144.03             | 19,351.86             | 12,019.42             | 137.69           | 136.54        | 84.58                 | -7,970.82                           | -1,942.76    | 1,357.31               | 1,164.21                | 193.10                    | 7.029             |                    |           |
| 19,600.00                         | 12,145.35             | 19,451.86             | 12,020.50             | 139.26           | 138.11        | 84.57                 | -8,070.81                           | -1,941.88    | 1,357.33               | 1,162.01                | 195.31                    | 6.949             |                    |           |
| 19,700.00                         | 12,146.67             | 19,551.86             | 12,021.58             | 140.83           | 139.69        | 84.56                 | -8,170.80                           | -1,941.00    | 1,357.35               | 1,159.82                | 197.53                    | 6.872             |                    |           |
| 19,800.00                         | 12,147.98             | 19,651.86             | 12,022.66             | 142.40           | 141.26        | 84.55                 | -8,270.79                           | -1,940.13    | 1,357.37               | 1,157.62                | 199.75                    | 6.795             |                    |           |
| 19,900.00                         | 12,149.30             | 19,751.86             | 12,023.74             | 143.98           | 142.84        | 84.54                 | -8,370.78                           | -1,939.25    | 1,357.39               | 1,155.42                | 201.97                    | 6.721             |                    |           |
| 20,000.00                         | 12,150.62             | 19,851.86             | 12,024.82             | 145.55           | 144.42        | 84.53                 | -8,470.77                           | -1,938.37    | 1,357.41               | 1,153.22                | 204.19                    | 6.648             |                    |           |
| 20,100.00                         | 12,151.93             | 19,951.86             | 12,025.90             | 147.13           | 146.01        | 84.52                 | -8,570.76                           | -1,937.49    | 1,357.43               | 1,151.01                | 206.42                    | 6.576             |                    |           |
| 20,200.00                         | 12,153.25             | 20,051.86             | 12,026.98             | 148.71           | 147.59        | 84.51                 | -8,670.75                           | -1,936.62    | 1,357.45               | 1,148.81                | 208.64                    | 6.506             |                    |           |
| 20,300.00                         | 12,154.56             | 20,151.85             | 12,028.07             | 150.29           | 149.18        | 84.50                 | -8,770.74                           | -1,935.74    | 1,357.47               | 1,146.60                | 210.87                    | 6.437             |                    |           |
| 20,400.00                         | 12,155.88             | 20,251.85             | 12,029.15             | 151.87           | 150.76        | 84.49                 | -8,870.73                           | -1,934.86    | 1,357.49               | 1,144.39                | 213.10                    | 6.370             |                    |           |
| 20,500.00                         | 12,157.20             | 20,351.85             | 12,030.23             | 153.46           | 152.35        | 84.48                 | -8,970.72                           | -1,933.98    | 1,357.51               | 1,142.18                | 215.33                    | 6.304             |                    |           |
| 20,600.00                         | 12,158.51             | 20,451.85             | 12,031.31             | 155.04           | 153.94        | 84.47                 | -9,070.71                           | -1,933.10    | 1,357.53               | 1,139.96                | 217.57                    | 6.240             |                    |           |
| 20,700.00                         | 12,159.83             | 20,551.85             | 12,032.39             | 156.63           | 155.53        | 84.46                 | -9,170.70                           | -1,932.23    | 1,357.55               | 1,137.75                | 219.80                    | 6.176             |                    |           |
| 20,800.00                         | 12,161.15             | 20,651.85             | 12,033.47             | 158.22           | 157.13        | 84.45                 | -9,270.69                           | -1,931.35    | 1,357.57               | 1,135.53                | 222.04                    | 6.114             |                    |           |
| 20,900.00                         | 12,162.46             | 20,751.85             | 12,034.55             | 159.81           | 158.72        | 84.44                 | -9,370.68                           | -1,930.47    | 1,357.59               | 1,133.31                | 224.28                    | 6.053             |                    |           |
| 21,000.00                         | 12,163.78             | 20,851.85             | 12,035.63             | 161.40           | 160.32        | 84.44                 | -9,470.67                           | -1,929.59    | 1,357.61               | 1,131.09                | 226.52                    | 5.993             |                    |           |
| 21,100.00                         | 12,165.10             | 20,951.85             | 12,036.72             | 162.99           | 161.91        | 84.43                 | -9,570.66                           | -1,928.72    | 1,357.63               | 1,128.87                | 228.76                    | 5.935             |                    |           |
| 21,200.00                         | 12,166.41             | 21,051.85             | 12,037.80             | 164.58           | 163.51        | 84.42                 | -9,670.65                           | -1,927.84    | 1,357.65               | 1,126.64                | 231.01                    | 5.877             |                    |           |
| 21,300.00                         | 12,167.73             | 21,151.85             | 12,038.88             | 166.18           | 165.11        | 84.41                 | -9,770.64                           | -1,926.96    | 1,357.67               | 1,124.42                | 233.25                    | 5.821             |                    |           |
| 21,400.00                         | 12,169.04             | 21,251.85             | 12,039.96             | 167.77           | 166.71        | 84.40                 | -9,870.63                           | -1,926.08    | 1,357.69               | 1,122.19                | 235.50                    | 5.765             |                    |           |
| 21,500.00                         | 12,170.36             | 21,351.85             | 12,041.04             | 169.37           | 168.31        | 84.39                 | -9,970.62                           | -1,925.20    | 1,357.71               | 1,119.97                | 237.75                    | 5.711             |                    |           |
| 21,600.00                         | 12,171.68             | 21,451.85             | 12,042.12             | 170.97           | 169.91        | 84.38                 | -10,070.61                          | -1,924.33    | 1,357.74               | 1,117.74                | 240.00                    | 5.657             |                    |           |
| 21,700.00                         | 12,172.99             | 21,551.85             | 12,043.20             | 172.57           | 171.51        | 84.37                 | -10,170.60                          | -1,923.45    | 1,357.76               | 1,115.51                | 242.25                    | 5.605             |                    |           |
| 21,800.00                         | 12,174.31             | 21,651.85             | 12,044.28             | 174.17           | 173.11        | 84.36                 | -10,270.59                          | -1,922.57    | 1,357.78               | 1,113.28                | 244.50                    | 5.553             |                    |           |
| 21,900.00                         | 12,175.63             | 21,751.85             | 12,045.37             | 175.77           | 174.72        | 84.35                 | -10,370.58                          | -1,921.69    | 1,357.80               | 1,111.05                | 246.75                    | 5.503             |                    |           |
| 22,000.00                         | 12,176.94             | 21,851.85             | 12,046.45             | 177.37           | 176.32        | 84.34                 | -10,470.57                          | -1,920.82    | 1,357.82               | 1,108.81                | 249.01                    | 5.453             |                    |           |
| 22,100.00                         | 12,178.26             | 21,951.85             | 12,047.53             | 178.97           | 177.93        | 84.33                 | -10,570.56                          | -1,919.94    | 1,357.84               | 1,106.58                | 251.26                    | 5.404             |                    |           |
| 22,200.00                         | 12,179.57             | 22,051.85             | 12,048.61             | 180.58           | 179.54        | 84.32                 | -10,670.55                          | -1,919.06    | 1,357.86               | 1,104.34                | 253.52                    | 5.356             |                    |           |
| 22,201.07                         | 12,179.59             | 22,052.92             | 12,048.62             | 180.59           | 179.55        | 84.32                 | -10,671.61                          | -1,919.05    | 1,357.86               | 1,104.32                | 253.54                    | 5.356             |                    |           |
| 22,300.00                         | 12,180.89             | 22,130.50             | 12,049.46             | 182.18           | 180.80        | 84.31                 | -10,749.19                          | -1,918.37    | 1,358.05               | 1,102.40                | 255.65                    | 5.312 ES, SF      |                    |           |
| 22,400.00                         | 12,182.21             | 22,130.50             | 12,049.46             | 183.79           | 180.80        | 84.31                 | -10,749.19                          | -1,918.37    | 1,363.31               | 1,106.92                | 256.40                    | 5.317             |                    |           |
| 22,500.00                         | 12,183.52             | 22,130.50             | 12,049.46             | 185.39           | 180.80        | 84.31                 | -10,749.19                          | -1,918.37    | 1,375.85               | 1,120.22                | 255.62                    | 5.382             |                    |           |
| 22,600.00                         | 12,184.84             | 22,130.50             | 12,049.46             | 187.00           | 180.80        | 84.31                 | -10,749.19                          | -1,918.37    | 1,395.45               | 1,142.02                | 253.43                    | 5.506             |                    |           |
| 22,700.00                         | 12,186.16             | 22,130.50             | 12,049.46             | 188.61           | 180.80        | 84.31                 | -10,749.19                          | -1,918.37    | 1,421.83               | 1,171.82                | 250.01                    | 5.687             |                    |           |
| 22,800.00                         | 12,187.47             | 22,130.50             | 12,049.46             | 190.21           | 180.80        | 84.31                 | -10,749.19                          | -1,918.37    | 1,454.63               | 1,209.05                | 245.57                    | 5.923             |                    |           |
| 22,900.00                         | 12,188.79             | 22,130.50             | 12,049.46             | 191.82           | 180.80        | 84.31                 | -10,749.19                          | -1,918.37    | 1,493.41               | 1,253.05                | 240.36                    | 6.213             |                    |           |
| 23,000.00                         | 12,190.10             | 22,130.50             | 12,049.46             | 193.43           | 180.80        | 84.31                 | -10,749.19                          | -1,918.37    | 1,537.72               | 1,303.12                | 234.60                    | 6.555             |                    |           |
| 23,100.00                         | 12,191.42             | 22,130.50             | 12,049.46             | 195.04           | 180.80        | 84.31                 | -10,749.19                          | -1,918.37    | 1,587.11               | 1,358.61                | 228.50                    | 6.946             |                    |           |
| 23,200.00                         | 12,192.74             | 22,130.50             | 12,049.46             | 196.66           | 180.80        | 84.31                 | -10,749.19                          | -1,918.37    | 1,641.11               | 1,418.89                | 222.23                    | 7.385             |                    |           |
| 23,300.00                         | 12,194.05             | 22,130.50             | 12,049.46             | 198.27           | 180.80        | 84.31                 | -10,749.19                          | -1,918.37    | 1,699.29               | 1,483.36                | 215.93                    | 7.870             |                    |           |
| 23,400.00                         | 12,195.37             | 22,130.50             | 12,049.46             | 199.88           | 180.80        | 84.31                 | -10,749.19                          | -1,918.37    | 1,761.22               | 1,551.51                | 209.71                    | 8.398             |                    |           |
| 23,500.00                         | 12,196.69             | 22,130.50             | 12,049.46             | 201.49           | 180.80        | 84.31                 | -10,749.19                          | -1,918.37    | 1,826.53               | 1,622.88                | 203.66                    | 8.969             |                    |           |
| 23,594.56                         | 12,197.93             | 22,130.50             | 12,049.46             | 203.02           | 180.80        | 84.31                 | -10,749.19                          | -1,918.37    | 1,891.09               | 1,692.96                | 198.13                    | 9.545             |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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            |           |
| 0.00                              | 0.00                  | 3.20                  | 3.20                  | 0.00             | 0.00          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               |                         |                           |                   |                    |           |
| 100.00                            | 100.00                | 103.20                | 103.20                | 0.13             | 0.15          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,852.30                | 0.20                      | 9,359.946         |                    |           |
| 200.00                            | 200.00                | 203.20                | 203.20                | 0.48             | 0.51          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,851.79                | 0.70                      | 2,630.717         |                    |           |
| 300.00                            | 300.00                | 303.20                | 303.20                | 0.84             | 0.87          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,851.28                | 1.21                      | 1,529.697         |                    |           |
| 400.00                            | 400.00                | 403.20                | 403.20                | 1.20             | 1.23          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,850.78                | 1.72                      | 1,078.330         |                    |           |
| 500.00                            | 500.00                | 503.20                | 503.20                | 1.56             | 1.59          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,850.27                | 2.22                      | 832.634           |                    |           |
| 600.00                            | 600.00                | 603.20                | 603.20                | 1.92             | 1.95          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,849.76                | 2.73                      | 678.122           |                    |           |
| 700.00                            | 700.00                | 703.20                | 703.20                | 2.28             | 2.30          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,849.26                | 3.24                      | 571.979           |                    |           |
| 800.00                            | 800.00                | 803.20                | 803.20                | 2.63             | 2.66          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,848.75                | 3.75                      | 494.567           |                    |           |
| 900.00                            | 900.00                | 903.20                | 903.20                | 2.99             | 3.02          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,848.24                | 4.25                      | 435.610           |                    |           |
| 1,000.00                          | 1,000.00              | 1,003.20              | 1,003.20              | 3.35             | 3.38          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,847.73                | 4.76                      | 389.213           |                    |           |
| 1,100.00                          | 1,100.00              | 1,103.20              | 1,103.20              | 3.71             | 3.74          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,847.23                | 5.27                      | 351.748           |                    |           |
| 1,200.00                          | 1,200.00              | 1,203.20              | 1,203.20              | 4.07             | 4.10          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,846.72                | 5.77                      | 320.862           |                    |           |
| 1,300.00                          | 1,300.00              | 1,303.20              | 1,303.20              | 4.43             | 4.45          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,846.21                | 6.28                      | 294.962           |                    |           |
| 1,400.00                          | 1,400.00              | 1,403.20              | 1,403.20              | 4.79             | 4.81          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,845.71                | 6.79                      | 272.931           |                    |           |
| 1,500.00                          | 1,500.00              | 1,503.20              | 1,503.20              | 5.14             | 5.17          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,845.20                | 7.29                      | 253.963           |                    |           |
| 1,600.00                          | 1,600.00              | 1,603.20              | 1,603.20              | 5.50             | 5.53          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,844.69                | 7.80                      | 237.459           |                    |           |
| 1,700.00                          | 1,700.00              | 1,703.20              | 1,703.20              | 5.86             | 5.89          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,844.19                | 8.31                      | 222.970           |                    |           |
| 1,800.00                          | 1,800.00              | 1,803.20              | 1,803.20              | 6.22             | 6.25          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,843.68                | 8.82                      | 210.147           |                    |           |
| 1,900.00                          | 1,900.00              | 1,903.20              | 1,903.20              | 6.58             | 6.61          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,843.17                | 9.32                      | 198.719           |                    |           |
| 2,000.00                          | 2,000.00              | 2,003.20              | 2,003.20              | 6.94             | 6.96          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,842.66                | 9.83                      | 188.470           |                    |           |
| 2,100.00                          | 2,100.00              | 2,103.20              | 2,103.20              | 7.29             | 7.32          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,842.16                | 10.34                     | 179.226           |                    |           |
| 2,200.00                          | 2,200.00              | 2,203.20              | 2,203.20              | 7.65             | 7.68          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,841.65                | 10.84                     | 170.846           |                    |           |
| 2,300.00                          | 2,300.00              | 2,303.20              | 2,303.20              | 8.01             | 8.04          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,841.14                | 11.35                     | 163.216           |                    |           |
| 2,400.00                          | 2,400.00              | 2,403.20              | 2,403.20              | 8.37             | 8.40          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,840.64                | 11.86                     | 156.237           |                    |           |
| 2,500.00                          | 2,500.00              | 2,503.20              | 2,503.20              | 8.73             | 8.76          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,840.13                | 12.36                     | 149.831           |                    |           |
| 2,600.00                          | 2,600.00              | 2,603.20              | 2,603.20              | 9.09             | 9.11          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,839.62                | 12.87                     | 143.929           |                    |           |
| 2,688.00                          | 2,688.00              | 2,691.20              | 2,691.20              | 9.40             | 9.43          | -92.45                | -79.20                              | -1,850.80    | 1,852.49               | 1,839.18                | 13.32                     | 139.108           |                    |           |
| 2,700.00                          | 2,700.00              | 2,703.20              | 2,703.20              | 9.44             | 9.47          | 23.33                 | -79.20                              | -1,850.80    | 1,852.48               | 1,839.10                | 13.38                     | 138.486           |                    |           |
| 2,800.00                          | 2,799.98              | 2,803.18              | 2,803.18              | 9.78             | 9.83          | 23.36                 | -79.20                              | -1,850.80    | 1,850.99               | 1,837.12                | 13.87                     | 133.496           |                    |           |
| 2,900.00                          | 2,899.89              | 2,903.09              | 2,903.09              | 10.11            | 10.19         | 23.44                 | -79.20                              | -1,850.80    | 1,847.09               | 1,832.74                | 14.36                     | 128.671           |                    |           |
| 3,000.00                          | 2,999.65              | 3,002.85              | 3,002.85              | 10.45            | 10.55         | 23.56                 | -79.20                              | -1,850.80    | 1,840.81               | 1,825.96                | 14.85                     | 123.997           |                    |           |
| 3,100.00                          | 3,099.20              | 3,102.40              | 3,102.40              | 10.79            | 10.90         | 23.73                 | -79.20                              | -1,850.80    | 1,832.13               | 1,816.80                | 15.34                     | 119.465           |                    |           |
| 3,200.00                          | 3,198.47              | 3,201.67              | 3,201.67              | 11.14            | 11.26         | 23.95                 | -79.20                              | -1,850.80    | 1,821.08               | 1,805.26                | 15.83                     | 115.062           |                    |           |
| 3,281.62                          | 3,279.24              | 3,282.44              | 3,282.44              | 11.43            | 11.55         | 24.17                 | -79.20                              | -1,850.80    | 1,810.32               | 1,794.09                | 16.23                     | 111.558           |                    |           |
| 3,300.00                          | 3,297.39              | 3,300.59              | 3,300.59              | 11.49            | 11.61         | 24.20                 | -79.20                              | -1,850.80    | 1,807.72               | 1,791.40                | 16.32                     | 110.780           |                    |           |
| 3,400.00                          | 3,396.19              | 3,399.39              | 3,399.39              | 11.85            | 11.97         | 24.41                 | -79.20                              | -1,850.80    | 1,793.58               | 1,776.77                | 16.81                     | 106.702           |                    |           |
| 3,500.00                          | 3,494.98              | 3,498.18              | 3,498.18              | 12.22            | 12.32         | 24.61                 | -79.20                              | -1,850.80    | 1,779.47               | 1,762.16                | 17.30                     | 102.845           |                    |           |
| 3,600.00                          | 3,593.78              | 3,596.98              | 3,596.98              | 12.59            | 12.68         | 24.82                 | -79.20                              | -1,850.80    | 1,765.38               | 1,747.58                | 17.80                     | 99.193            |                    |           |
| 3,700.00                          | 3,692.57              | 3,695.77              | 3,695.77              | 12.96            | 13.03         | 25.03                 | -79.20                              | -1,850.80    | 1,751.31               | 1,733.02                | 18.29                     | 95.732            |                    |           |
| 3,800.00                          | 3,791.37              | 3,794.57              | 3,794.57              | 13.34            | 13.39         | 25.25                 | -79.20                              | -1,850.80    | 1,737.27               | 1,718.47                | 18.79                     | 92.446            |                    |           |
| 3,900.00                          | 3,890.16              | 3,893.36              | 3,893.36              | 13.72            | 13.74         | 25.47                 | -79.20                              | -1,850.80    | 1,723.25               | 1,703.96                | 19.29                     | 89.325            |                    |           |
| 4,000.00                          | 3,988.96              | 3,992.16              | 3,992.16              | 14.10            | 14.09         | 25.69                 | -79.20                              | -1,850.80    | 1,709.26               | 1,689.46                | 19.79                     | 86.356            |                    |           |
| 4,100.00                          | 4,087.75              | 4,090.95              | 4,090.95              | 14.49            | 14.45         | 25.92                 | -79.20                              | -1,850.80    | 1,695.29               | 1,674.99                | 20.30                     | 83.530            |                    |           |
| 4,200.00                          | 4,186.55              | 4,189.75              | 4,189.75              | 14.88            | 14.80         | 26.15                 | -79.20                              | -1,850.80    | 1,681.35               | 1,660.55                | 20.80                     | 80.836            |                    |           |
| 4,300.00                          | 4,285.34              | 4,288.54              | 4,288.54              | 15.27            | 15.16         | 26.38                 | -79.20                              | -1,850.80    | 1,667.44               | 1,646.13                | 21.30                     | 78.267            |                    |           |
| 4,400.00                          | 4,384.13              | 4,387.33              | 4,387.33              | 15.67            | 15.51         | 26.62                 | -79.20                              | -1,850.80    | 1,653.55               | 1,631.74                | 21.81                     | 75.814            |                    |           |
| 4,500.00                          | 4,482.93              | 4,486.13              | 4,486.13              | 16.06            | 15.86         | 26.86                 | -79.20                              | -1,850.80    | 1,639.69               | 1,617.37                | 22.32                     | 73.470            |                    |           |
| 4,600.00                          | 4,581.72              | 4,584.92              | 4,584.92              | 16.46            | 16.22         | 27.11                 | -79.20                              | -1,850.80    | 1,625.86               | 1,603.04                | 22.83                     | 71.228            |                    |           |
| 4,700.00                          | 4,680.52              | 4,708.43              | 4,708.42              | 16.86            | 16.64         | 27.37                 | -80.51                              | -1,850.00    | 1,611.42               | 1,588.05                | 23.38                     | 68.936            |                    |           |
| 4,800.00                          | 4,779.31              | 4,836.03              | 4,835.88              | 17.27            | 17.06         | 27.53                 | -85.42                              | -1,847.00    | 1,595.24               | 1,571.33                | 23.91                     | 66.722            |                    |           |
| 4,900.00                          | 4,878.11              | 4,962.98              | 4,962.43              | 17.67            | 17.47         | 27.55                 | -93.90                              | -1,841.81    | 1,577.27               | 1,552.84                | 24.43                     | 64.551            |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                        |              |                        |                         |                           |                   | Judge Baylor Fed Com - Judge Baylor Fed Com 701H - OH - Plan #3 |         | 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) |                        |                         |                           |                   |                                                                 |         |                              |  |
| 5,000.00                          | 4,976.90              | 5,069.43              | 5,068.32              | 18.08            | 17.83         | 27.49                 | -103.25                | -1,836.10    | 1,557.98               | 1,533.05                | 24.93                     | 62.493            |                                                                 |         |                              |  |
| 5,100.00                          | 5,075.70              | 5,167.52              | 5,165.87              | 18.49            | 18.15         | 27.43                 | -112.01                | -1,830.75    | 1,538.62               | 1,513.20                | 25.42                     | 60.533            |                                                                 |         |                              |  |
| 5,200.00                          | 5,174.49              | 5,265.62              | 5,263.43              | 18.90            | 18.48         | 27.37                 | -120.76                | -1,825.40    | 1,519.26               | 1,493.35                | 25.91                     | 58.643            |                                                                 |         |                              |  |
| 5,300.00                          | 5,273.29              | 5,363.71              | 5,360.98              | 19.31            | 18.81         | 27.30                 | -129.52                | -1,820.05    | 1,499.89               | 1,473.50                | 26.40                     | 56.818            |                                                                 |         |                              |  |
| 5,400.00                          | 5,372.08              | 5,461.80              | 5,458.54              | 19.72            | 19.14         | 27.24                 | -138.28                | -1,814.70    | 1,480.53               | 1,453.64                | 26.89                     | 55.056            |                                                                 |         |                              |  |
| 5,500.00                          | 5,470.88              | 5,559.90              | 5,556.09              | 20.13            | 19.48         | 27.17                 | -147.03                | -1,809.35    | 1,461.18               | 1,433.79                | 27.39                     | 53.354            |                                                                 |         |                              |  |
| 5,600.00                          | 5,569.67              | 5,657.99              | 5,653.65              | 20.54            | 19.82         | 27.10                 | -155.79                | -1,804.00    | 1,441.82               | 1,413.94                | 27.88                     | 51.709            |                                                                 |         |                              |  |
| 5,700.00                          | 5,668.47              | 5,756.08              | 5,751.20              | 20.96            | 20.16         | 27.03                 | -164.54                | -1,798.64    | 1,422.47               | 1,394.09                | 28.38                     | 50.119            |                                                                 |         |                              |  |
| 5,800.00                          | 5,767.26              | 5,854.18              | 5,848.76              | 21.38            | 20.50         | 26.95                 | -173.30                | -1,793.29    | 1,403.12               | 1,374.23                | 28.88                     | 48.582            |                                                                 |         |                              |  |
| 5,900.00                          | 5,866.06              | 5,952.27              | 5,946.31              | 21.79            | 20.84         | 26.88                 | -182.06                | -1,787.94    | 1,383.77               | 1,354.38                | 29.38                     | 47.094            |                                                                 |         |                              |  |
| 6,000.00                          | 5,964.85              | 6,050.36              | 6,043.87              | 22.21            | 21.18         | 26.80                 | -190.81                | -1,782.59    | 1,364.42               | 1,334.53                | 29.89                     | 45.655            |                                                                 |         |                              |  |
| 6,100.00                          | 6,063.65              | 6,148.46              | 6,141.43              | 22.63            | 21.53         | 26.72                 | -199.57                | -1,777.24    | 1,345.08               | 1,314.69                | 30.39                     | 44.261            |                                                                 |         |                              |  |
| 6,200.00                          | 6,162.44              | 6,246.55              | 6,238.98              | 23.05            | 21.88         | 26.63                 | -208.32                | -1,771.89    | 1,325.74               | 1,294.84                | 30.89                     | 42.911            |                                                                 |         |                              |  |
| 6,300.00                          | 6,261.24              | 6,344.64              | 6,336.54              | 23.47            | 22.23         | 26.55                 | -217.08                | -1,766.54    | 1,306.40               | 1,275.00                | 31.40                     | 41.603            |                                                                 |         |                              |  |
| 6,400.00                          | 6,360.03              | 6,442.74              | 6,434.09              | 23.89            | 22.58         | 26.46                 | -225.84                | -1,761.19    | 1,287.06               | 1,255.15                | 31.91                     | 40.336            |                                                                 |         |                              |  |
| 6,500.00                          | 6,458.83              | 6,540.83              | 6,531.65              | 24.31            | 22.93         | 26.37                 | -234.59                | -1,755.84    | 1,267.73               | 1,235.31                | 32.42                     | 39.107            |                                                                 |         |                              |  |
| 6,600.00                          | 6,557.62              | 6,638.92              | 6,629.20              | 24.73            | 23.28         | 26.28                 | -243.35                | -1,750.49    | 1,248.40               | 1,215.47                | 32.93                     | 37.915            |                                                                 |         |                              |  |
| 6,700.00                          | 6,656.42              | 6,737.02              | 6,726.76              | 25.15            | 23.63         | 26.18                 | -252.11                | -1,745.13    | 1,229.07               | 1,195.64                | 33.44                     | 36.758            |                                                                 |         |                              |  |
| 6,800.00                          | 6,755.21              | 6,835.11              | 6,824.31              | 25.57            | 23.99         | 26.08                 | -260.86                | -1,739.78    | 1,209.75               | 1,175.80                | 33.95                     | 35.636            |                                                                 |         |                              |  |
| 6,900.00                          | 6,854.01              | 6,933.20              | 6,921.87              | 26.00            | 24.34         | 25.98                 | -269.62                | -1,734.43    | 1,190.43               | 1,155.97                | 34.46                     | 34.546            |                                                                 |         |                              |  |
| 7,000.00                          | 6,952.80              | 7,031.30              | 7,019.42              | 26.42            | 24.70         | 25.87                 | -278.37                | -1,729.08    | 1,171.12               | 1,136.14                | 34.97                     | 33.487            |                                                                 |         |                              |  |
| 7,100.00                          | 7,051.59              | 7,129.39              | 7,116.98              | 26.85            | 25.06         | 25.76                 | -287.13                | -1,723.73    | 1,151.80               | 1,116.32                | 35.49                     | 32.458            |                                                                 |         |                              |  |
| 7,200.00                          | 7,150.39              | 7,227.48              | 7,214.53              | 27.27            | 25.42         | 25.65                 | -295.89                | -1,718.38    | 1,132.50               | 1,096.50                | 36.00                     | 31.458            |                                                                 |         |                              |  |
| 7,300.00                          | 7,249.18              | 7,325.58              | 7,312.09              | 27.70            | 25.78         | 25.53                 | -304.64                | -1,713.03    | 1,113.19               | 1,076.68                | 36.51                     | 30.486            |                                                                 |         |                              |  |
| 7,400.00                          | 7,347.98              | 7,418.64              | 7,404.65              | 28.12            | 26.12         | 25.42                 | -312.82                | -1,708.03    | 1,093.99               | 1,056.96                | 37.03                     | 29.544            |                                                                 |         |                              |  |
| 7,411.16                          | 7,359.00              | 7,428.20              | 7,414.17              | 28.17            | 26.15         | 25.41                 | -313.59                | -1,707.56    | 1,091.89               | 1,054.81                | 37.09                     | 29.442            |                                                                 |         |                              |  |
| 7,500.00                          | 7,446.93              | 7,500.00              | 7,485.72              | 28.54            | 26.42         | 25.28                 | -318.72                | -1,704.42    | 1,076.64               | 1,039.10                | 37.54                     | 28.682            |                                                                 |         |                              |  |
| 7,600.00                          | 7,546.22              | 7,591.29              | 7,576.82              | 28.94            | 26.74         | 25.17                 | -323.59                | -1,701.45    | 1,062.73               | 1,024.69                | 38.04                     | 27.935            |                                                                 |         |                              |  |
| 7,700.00                          | 7,645.78              | 7,678.43              | 7,663.90              | 29.33            | 27.05         | 25.13                 | -326.50                | -1,699.67    | 1,052.34               | 1,013.80                | 38.54                     | 27.307            |                                                                 |         |                              |  |
| 7,800.00                          | 7,745.56              | 7,765.91              | 7,751.37              | 29.70            | 27.35         | 25.16                 | -327.72                | -1,698.92    | 1,045.47               | 1,006.44                | 39.02                     | 26.790            |                                                                 |         |                              |  |
| 7,900.00                          | 7,845.47              | 7,863.22              | 7,848.67              | 30.05            | 27.69         | 25.22                 | -327.76                | -1,698.90    | 1,041.78               | 1,002.26                | 39.52                     | 26.361            |                                                                 |         |                              |  |
| 8,004.78                          | 7,950.24              | 7,967.99              | 7,953.44              | 30.40            | 28.05         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 1,000.44                | 40.03                     | 25.992            |                                                                 |         |                              |  |
| 8,100.00                          | 8,045.46              | 8,063.20              | 8,048.66              | 30.70            | 28.39         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 999.99                  | 40.49                     | 25.697            |                                                                 |         |                              |  |
| 8,200.00                          | 8,145.46              | 8,163.20              | 8,148.66              | 31.02            | 28.73         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 999.50                  | 40.97                     | 25.394            |                                                                 |         |                              |  |
| 8,300.00                          | 8,245.46              | 8,263.20              | 8,248.66              | 31.34            | 29.08         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 999.02                  | 41.46                     | 25.098            |                                                                 |         |                              |  |
| 8,400.00                          | 8,345.46              | 8,363.20              | 8,348.66              | 31.66            | 29.43         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 998.53                  | 41.94                     | 24.808            |                                                                 |         |                              |  |
| 8,500.00                          | 8,445.46              | 8,463.20              | 8,448.66              | 31.98            | 29.78         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 998.05                  | 42.43                     | 24.525            |                                                                 |         |                              |  |
| 8,600.00                          | 8,545.46              | 8,563.20              | 8,548.66              | 32.31            | 30.13         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 997.56                  | 42.91                     | 24.248            |                                                                 |         |                              |  |
| 8,700.00                          | 8,645.46              | 8,663.20              | 8,648.66              | 32.63            | 30.48         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 997.08                  | 43.40                     | 23.976            |                                                                 |         |                              |  |
| 8,800.00                          | 8,745.46              | 8,763.20              | 8,748.66              | 32.96            | 30.83         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 996.59                  | 43.88                     | 23.711            |                                                                 |         |                              |  |
| 8,900.00                          | 8,845.46              | 8,863.20              | 8,848.66              | 33.28            | 31.18         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 996.11                  | 44.37                     | 23.451            |                                                                 |         |                              |  |
| 9,000.00                          | 8,945.46              | 8,963.20              | 8,948.66              | 33.61            | 31.53         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 995.62                  | 44.86                     | 23.196            |                                                                 |         |                              |  |
| 9,100.00                          | 9,045.46              | 9,063.20              | 9,048.66              | 33.93            | 31.88         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 995.13                  | 45.34                     | 22.947            |                                                                 |         |                              |  |
| 9,200.00                          | 9,145.46              | 9,163.20              | 9,148.66              | 34.26            | 32.23         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 994.64                  | 45.83                     | 22.702            |                                                                 |         |                              |  |
| 9,300.00                          | 9,245.46              | 9,263.20              | 9,248.66              | 34.59            | 32.58         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 994.16                  | 46.32                     | 22.463            |                                                                 |         |                              |  |
| 9,400.00                          | 9,345.46              | 9,363.20              | 9,348.66              | 34.92            | 32.93         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 993.67                  | 46.81                     | 22.228            |                                                                 |         |                              |  |
| 9,500.00                          | 9,445.46              | 9,463.20              | 9,448.66              | 35.24            | 33.28         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 993.18                  | 47.30                     | 21.999            |                                                                 |         |                              |  |
| 9,600.00                          | 9,545.46              | 9,563.20              | 9,548.66              | 35.57            | 33.63         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 992.69                  | 47.79                     | 21.773            |                                                                 |         |                              |  |
| 9,700.00                          | 9,645.46              | 9,663.20              | 9,648.66              | 35.90            | 33.98         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 992.20                  | 48.28                     | 21.552            |                                                                 |         |                              |  |
| 9,800.00                          | 9,745.46              | 9,763.20              | 9,748.66              | 36.23            | 34.33         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 991.71                  | 48.77                     | 21.336            |                                                                 |         |                              |  |
| 9,900.00                          | 9,845.46              | 9,863.20              | 9,848.66              | 36.57            | 34.68         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 991.22                  | 49.26                     | 21.123            |                                                                 |         |                              |  |
| 10,000.00                         | 9,945.46              | 9,963.20              | 9,948.66              | 36.90            | 35.03         | -90.53                | -327.76                | -1,698.90    | 1,040.48               | 990.73                  | 49.75                     | 20.915            |                                                                 |         |                              |  |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 10,100.00                         | 10,045.46             | 10,063.20             | 10,048.66             | 37.23            | 35.39         | -90.53                | -327.76                             | -1,698.90    | 1,040.48               | 990.24                  | 50.24                     | 20.710            |                    |           |
| 10,200.00                         | 10,145.46             | 10,163.20             | 10,148.66             | 37.56            | 35.74         | -90.53                | -327.76                             | -1,698.90    | 1,040.48               | 989.74                  | 50.73                     | 20.510            |                    |           |
| 10,300.00                         | 10,245.46             | 10,263.20             | 10,248.66             | 37.89            | 36.09         | -90.53                | -327.76                             | -1,698.90    | 1,040.48               | 989.25                  | 51.22                     | 20.313            |                    |           |
| 10,400.00                         | 10,345.46             | 10,363.20             | 10,348.66             | 38.23            | 36.44         | -90.53                | -327.76                             | -1,698.90    | 1,040.48               | 988.76                  | 51.71                     | 20.120            |                    |           |
| 10,500.00                         | 10,445.46             | 10,463.20             | 10,448.66             | 38.56            | 36.79         | -90.53                | -327.76                             | -1,698.90    | 1,040.48               | 988.27                  | 52.21                     | 19.930            |                    |           |
| 10,600.00                         | 10,545.46             | 10,563.20             | 10,548.66             | 38.90            | 37.15         | -90.53                | -327.76                             | -1,698.90    | 1,040.48               | 987.78                  | 52.70                     | 19.744            |                    |           |
| 10,700.00                         | 10,645.46             | 10,663.20             | 10,648.66             | 39.23            | 37.50         | -90.53                | -327.76                             | -1,698.90    | 1,040.48               | 987.28                  | 53.19                     | 19.561            |                    |           |
| 10,800.00                         | 10,745.46             | 10,763.20             | 10,748.66             | 39.57            | 37.85         | -90.53                | -327.76                             | -1,698.90    | 1,040.48               | 986.79                  | 53.69                     | 19.381            |                    |           |
| 10,900.00                         | 10,845.46             | 10,863.20             | 10,848.66             | 39.90            | 38.20         | -90.53                | -327.76                             | -1,698.90    | 1,040.48               | 986.30                  | 54.18                     | 19.204            |                    |           |
| 11,000.00                         | 10,945.46             | 10,963.20             | 10,948.66             | 40.24            | 38.56         | -90.53                | -327.76                             | -1,698.90    | 1,040.48               | 985.80                  | 54.67                     | 19.031            |                    |           |
| 11,100.00                         | 11,045.46             | 11,063.20             | 11,048.66             | 40.57            | 38.91         | -90.53                | -327.76                             | -1,698.90    | 1,040.48               | 985.31                  | 55.17                     | 18.861            |                    |           |
| 11,200.00                         | 11,145.46             | 11,163.20             | 11,148.66             | 40.91            | 39.26         | -90.53                | -327.76                             | -1,698.90    | 1,040.48               | 984.81                  | 55.66                     | 18.693            |                    |           |
| 11,300.00                         | 11,245.46             | 11,263.20             | 11,248.66             | 41.25            | 39.62         | -90.53                | -327.76                             | -1,698.90    | 1,040.48               | 984.32                  | 56.16                     | 18.529            |                    |           |
| 11,400.00                         | 11,345.46             | 11,363.20             | 11,348.66             | 41.59            | 39.97         | -90.53                | -327.76                             | -1,698.90    | 1,040.48               | 983.83                  | 56.65                     | 18.367            |                    |           |
| 11,500.00                         | 11,445.46             | 11,463.20             | 11,448.66             | 41.92            | 40.32         | -90.53                | -327.76                             | -1,698.90    | 1,040.48               | 983.33                  | 57.14                     | 18.208            |                    |           |
| 11,532.54                         | 11,478.00             | 11,495.75             | 11,481.20             | 42.03            | 40.44         | -90.53                | -327.76                             | -1,698.90    | 1,040.48               | 983.17                  | 57.31                     | 18.157            |                    |           |
| 11,550.00                         | 11,495.46             | 11,513.20             | 11,498.66             | 42.09            | 40.50         | 89.98                 | -327.76                             | -1,698.90    | 1,040.48               | 983.08                  | 57.39                     | 18.129            |                    |           |
| 11,558.55                         | 11,504.00             | 11,521.74             | 11,507.20             | 42.12            | 40.53         | 90.00                 | -327.76                             | -1,698.90    | 1,040.48               | 983.04                  | 57.43                     | 18.116 CC         |                    |           |
| 11,600.00                         | 11,545.30             | 11,563.05             | 11,548.50             | 42.26            | 40.67         | 90.18                 | -327.76                             | -1,698.90    | 1,040.48               | 982.84                  | 57.64                     | 18.051            |                    |           |
| 11,650.00                         | 11,594.64             | 11,612.38             | 11,597.84             | 42.43            | 40.85         | 90.62                 | -327.76                             | -1,698.90    | 1,040.54               | 982.64                  | 57.90                     | 17.972            |                    |           |
| 11,700.00                         | 11,643.08             | 11,660.83             | 11,646.28             | 42.61            | 41.02         | 91.25                 | -327.76                             | -1,698.90    | 1,040.75               | 982.59                  | 58.16                     | 17.895            |                    |           |
| 11,750.00                         | 11,690.27             | 11,710.21             | 11,695.64             | 42.79            | 41.19         | 92.05                 | -328.63                             | -1,698.89    | 1,041.22               | 982.80                  | 58.42                     | 17.822            |                    |           |
| 11,800.00                         | 11,735.85             | 11,761.88             | 11,747.05             | 42.97            | 41.37         | 92.88                 | -333.81                             | -1,698.85    | 1,041.94               | 983.24                  | 58.70                     | 17.751            |                    |           |
| 11,850.00                         | 11,779.46             | 11,815.24             | 11,799.40             | 43.15            | 41.56         | 93.71                 | -343.99                             | -1,698.76    | 1,042.89               | 983.91                  | 58.98                     | 17.684            |                    |           |
| 11,900.00                         | 11,820.78             | 11,870.40             | 11,852.29             | 43.34            | 41.76         | 94.52                 | -359.58                             | -1,698.62    | 1,044.04               | 984.79                  | 59.26                     | 17.619            |                    |           |
| 11,950.00                         | 11,859.49             | 11,927.49             | 11,905.18             | 43.52            | 41.97         | 95.31                 | -380.99                             | -1,698.44    | 1,045.37               | 985.83                  | 59.54                     | 17.559            |                    |           |
| 12,000.00                         | 11,895.30             | 11,986.61             | 11,957.43             | 43.71            | 42.19         | 96.07                 | -408.60                             | -1,698.20    | 1,046.83               | 987.02                  | 59.81                     | 17.502            |                    |           |
| 12,050.00                         | 11,927.93             | 12,047.83             | 12,008.24             | 43.90            | 42.43         | 96.80                 | -442.70                             | -1,697.90    | 1,048.38               | 988.29                  | 60.08                     | 17.449            |                    |           |
| 12,100.00                         | 11,957.13             | 12,111.19             | 12,056.69             | 44.09            | 42.68         | 97.49                 | -483.49                             | -1,697.55    | 1,049.95               | 989.60                  | 60.35                     | 17.399            |                    |           |
| 12,150.00                         | 11,982.69             | 12,176.68             | 12,101.71             | 44.29            | 42.94         | 98.11                 | -530.99                             | -1,697.14    | 1,051.48               | 990.88                  | 60.61                     | 17.350            |                    |           |
| 12,200.00                         | 12,004.41             | 12,244.19             | 12,142.14             | 44.50            | 43.23         | 98.67                 | -585.01                             | -1,696.67    | 1,052.91               | 992.05                  | 60.86                     | 17.299            |                    |           |
| 12,250.00                         | 12,022.12             | 12,313.56             | 12,176.77             | 44.72            | 43.53         | 99.14                 | -645.07                             | -1,696.14    | 1,054.17               | 993.05                  | 61.13                     | 17.246            |                    |           |
| 12,300.00                         | 12,035.70             | 12,384.54             | 12,204.42             | 44.95            | 43.85         | 99.52                 | -710.38                             | -1,695.58    | 1,055.20               | 993.80                  | 61.41                     | 17.184            |                    |           |
| 12,350.00                         | 12,045.02             | 12,456.76             | 12,224.06             | 45.18            | 44.19         | 99.79                 | -779.83                             | -1,694.97    | 1,055.95               | 994.23                  | 61.71                     | 17.111            |                    |           |
| 12,400.00                         | 12,050.03             | 12,529.81             | 12,234.89             | 45.42            | 44.54         | 99.93                 | -852.02                             | -1,694.35    | 1,056.37               | 994.31                  | 62.05                     | 17.024            |                    |           |
| 12,425.00                         | 12,050.91             | 12,566.49             | 12,236.83             | 45.55            | 44.72         | 99.96                 | -888.65                             | -1,694.03    | 1,056.45               | 994.21                  | 62.23                     | 16.976            |                    |           |
| 12,500.00                         | 12,051.90             | 12,643.36             | 12,237.69             | 45.94            | 45.11         | 99.95                 | -965.51                             | -1,693.36    | 1,056.42               | 993.65                  | 62.77                     | 16.829            |                    |           |
| 12,600.00                         | 12,053.21             | 12,743.36             | 12,238.77             | 46.50            | 45.66         | 99.94                 | -1,065.50                           | -1,692.49    | 1,056.39               | 992.84                  | 63.55                     | 16.622            |                    |           |
| 12,700.00                         | 12,054.53             | 12,843.36             | 12,239.86             | 47.12            | 46.26         | 99.93                 | -1,165.49                           | -1,691.63    | 1,056.36               | 991.95                  | 64.40                     | 16.402            |                    |           |
| 12,800.00                         | 12,055.84             | 12,943.36             | 12,240.94             | 47.78            | 46.91         | 99.92                 | -1,265.48                           | -1,690.76    | 1,056.32               | 991.00                  | 65.33                     | 16.170            |                    |           |
| 12,900.00                         | 12,057.16             | 13,043.36             | 12,242.02             | 48.50            | 47.61         | 99.90                 | -1,365.47                           | -1,689.89    | 1,056.29               | 989.97                  | 66.32                     | 15.928            |                    |           |
| 13,000.00                         | 12,058.48             | 13,143.36             | 12,243.10             | 49.26            | 48.35         | 99.89                 | -1,465.46                           | -1,689.02    | 1,056.26               | 988.88                  | 67.37                     | 15.678            |                    |           |
| 13,100.00                         | 12,059.79             | 13,243.36             | 12,244.18             | 50.06            | 49.14         | 99.88                 | -1,565.45                           | -1,688.15    | 1,056.22               | 987.73                  | 68.49                     | 15.422            |                    |           |
| 13,200.00                         | 12,061.11             | 13,343.36             | 12,245.26             | 50.90            | 49.98         | 99.87                 | -1,665.44                           | -1,687.28    | 1,056.19               | 986.53                  | 69.66                     | 15.161            |                    |           |
| 13,300.00                         | 12,062.43             | 13,443.36             | 12,246.34             | 51.78            | 50.85         | 99.85                 | -1,765.43                           | -1,686.42    | 1,056.16               | 985.26                  | 70.90                     | 14.897            |                    |           |
| 13,400.00                         | 12,063.74             | 13,543.36             | 12,247.43             | 52.70            | 51.76         | 99.84                 | -1,865.42                           | -1,685.55    | 1,056.12               | 983.95                  | 72.18                     | 14.632            |                    |           |
| 13,500.00                         | 12,065.06             | 13,643.36             | 12,248.51             | 53.65            | 52.71         | 99.83                 | -1,965.41                           | -1,684.68    | 1,056.09               | 982.58                  | 73.51                     | 14.366            |                    |           |
| 13,600.00                         | 12,066.37             | 13,743.36             | 12,249.59             | 54.64            | 53.69         | 99.82                 | -2,065.40                           | -1,683.81    | 1,056.06               | 981.16                  | 74.89                     | 14.101            |                    |           |
| 13,700.00                         | 12,067.69             | 13,843.36             | 12,250.67             | 55.66            | 54.70         | 99.80                 | -2,165.39                           | -1,682.94    | 1,056.03               | 979.70                  | 76.32                     | 13.837            |                    |           |
| 13,800.00                         | 12,069.01             | 13,943.36             | 12,251.75             | 56.71            | 55.74         | 99.79                 | -2,265.38                           | -1,682.07    | 1,055.99               | 978.20                  | 77.79                     | 13.575            |                    |           |
| 13,900.00                         | 12,070.32             | 14,043.36             | 12,252.83             | 57.78            | 56.82         | 99.78                 | -2,365.37                           | -1,681.21    | 1,055.96               | 976.66                  | 79.30                     | 13.316            |                    |           |
| 14,000.00                         | 12,071.64             | 14,143.36             | 12,253.91             | 58.89            | 57.92         | 99.76                 | -2,465.36                           | -1,680.34    | 1,055.93               | 975.08                  | 80.85                     | 13.061            |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 14,100.00                         | 12,072.96             | 14,243.36             | 12,254.99             | 60.02            | 59.04         | 99.75                 | -2,565.35                           | -1,679.47    | 1,055.89               | 973.47                  | 82.43                     | 12.810            |                    |           |
| 14,200.00                         | 12,074.27             | 14,343.36             | 12,256.08             | 61.17            | 60.19         | 99.74                 | -2,665.34                           | -1,678.60    | 1,055.86               | 971.82                  | 84.05                     | 12.563            |                    |           |
| 14,300.00                         | 12,075.59             | 14,443.36             | 12,257.16             | 62.34            | 61.37         | 99.73                 | -2,765.33                           | -1,677.73    | 1,055.83               | 970.13                  | 85.69                     | 12.321            |                    |           |
| 14,400.00                         | 12,076.90             | 14,543.36             | 12,258.24             | 63.54            | 62.56         | 99.71                 | -2,865.32                           | -1,676.87    | 1,055.80               | 968.42                  | 87.37                     | 12.084            |                    |           |
| 14,500.00                         | 12,078.22             | 14,643.36             | 12,259.32             | 64.76            | 63.77         | 99.70                 | -2,965.31                           | -1,676.00    | 1,055.76               | 966.68                  | 89.08                     | 11.852            |                    |           |
| 14,600.00                         | 12,079.54             | 14,743.35             | 12,260.40             | 65.99            | 65.01         | 99.69                 | -3,065.30                           | -1,675.13    | 1,055.73               | 964.92                  | 90.81                     | 11.625            |                    |           |
| 14,700.00                         | 12,080.85             | 14,843.35             | 12,261.48             | 67.25            | 66.26         | 99.68                 | -3,165.29                           | -1,674.26    | 1,055.70               | 963.13                  | 92.57                     | 11.404            |                    |           |
| 14,800.00                         | 12,082.17             | 14,943.35             | 12,262.56             | 68.52            | 67.53         | 99.66                 | -3,265.28                           | -1,673.39    | 1,055.67               | 961.31                  | 94.36                     | 11.188            |                    |           |
| 14,900.00                         | 12,083.49             | 15,043.35             | 12,263.65             | 69.80            | 68.82         | 99.65                 | -3,365.27                           | -1,672.52    | 1,055.64               | 959.48                  | 96.16                     | 10.978            |                    |           |
| 15,000.00                         | 12,084.80             | 15,143.35             | 12,264.73             | 71.10            | 70.12         | 99.64                 | -3,465.26                           | -1,671.66    | 1,055.60               | 957.62                  | 97.99                     | 10.773            |                    |           |
| 15,100.00                         | 12,086.12             | 15,243.35             | 12,265.81             | 72.42            | 71.43         | 99.63                 | -3,565.25                           | -1,670.79    | 1,055.57               | 955.74                  | 99.83                     | 10.573            |                    |           |
| 15,200.00                         | 12,087.43             | 15,343.35             | 12,266.89             | 73.75            | 72.76         | 99.61                 | -3,665.24                           | -1,669.92    | 1,055.54               | 953.84                  | 101.70                    | 10.379            |                    |           |
| 15,300.00                         | 12,088.75             | 15,443.35             | 12,267.97             | 75.09            | 74.11         | 99.60                 | -3,765.23                           | -1,669.05    | 1,055.51               | 951.93                  | 103.58                    | 10.190            |                    |           |
| 15,400.00                         | 12,090.07             | 15,543.35             | 12,269.05             | 76.44            | 75.46         | 99.59                 | -3,865.22                           | -1,668.18    | 1,055.47               | 949.99                  | 105.48                    | 10.006            |                    |           |
| 15,500.00                         | 12,091.38             | 15,643.35             | 12,270.13             | 77.81            | 76.83         | 99.58                 | -3,965.21                           | -1,667.31    | 1,055.44               | 948.05                  | 107.40                    | 9.827             |                    |           |
| 15,600.00                         | 12,092.70             | 15,743.35             | 12,271.22             | 79.19            | 78.21         | 99.56                 | -4,065.20                           | -1,666.45    | 1,055.41               | 946.08                  | 109.33                    | 9.654             |                    |           |
| 15,700.00                         | 12,094.02             | 15,843.35             | 12,272.30             | 80.57            | 79.59         | 99.55                 | -4,165.19                           | -1,665.58    | 1,055.38               | 944.10                  | 111.28                    | 9.484             |                    |           |
| 15,800.00                         | 12,095.33             | 15,943.35             | 12,273.38             | 81.97            | 80.99         | 99.54                 | -4,265.18                           | -1,664.71    | 1,055.35               | 942.11                  | 113.24                    | 9.320             |                    |           |
| 15,900.00                         | 12,096.65             | 16,043.35             | 12,274.46             | 83.38            | 82.40         | 99.52                 | -4,365.17                           | -1,663.84    | 1,055.32               | 940.11                  | 115.21                    | 9.160             |                    |           |
| 16,000.00                         | 12,097.97             | 16,143.35             | 12,275.54             | 84.79            | 83.81         | 99.51                 | -4,465.16                           | -1,662.97    | 1,055.28               | 938.09                  | 117.19                    | 9.005             |                    |           |
| 16,100.00                         | 12,099.28             | 16,243.35             | 12,276.62             | 86.21            | 85.24         | 99.50                 | -4,565.15                           | -1,662.10    | 1,055.25               | 936.06                  | 119.19                    | 8.853             |                    |           |
| 16,200.00                         | 12,100.60             | 16,343.35             | 12,277.70             | 87.65            | 86.67         | 99.49                 | -4,665.14                           | -1,661.24    | 1,055.22               | 934.02                  | 121.20                    | 8.706             |                    |           |
| 16,300.00                         | 12,101.91             | 16,443.35             | 12,278.79             | 89.08            | 88.11         | 99.47                 | -4,765.13                           | -1,660.37    | 1,055.19               | 931.97                  | 123.22                    | 8.563             |                    |           |
| 16,400.00                         | 12,103.23             | 16,543.35             | 12,279.87             | 90.53            | 89.56         | 99.46                 | -4,865.12                           | -1,659.50    | 1,055.16               | 929.91                  | 125.25                    | 8.424             |                    |           |
| 16,500.00                         | 12,104.55             | 16,643.35             | 12,280.95             | 91.98            | 91.02         | 99.45                 | -4,965.11                           | -1,658.63    | 1,055.13               | 927.84                  | 127.29                    | 8.289             |                    |           |
| 16,600.00                         | 12,105.86             | 16,743.35             | 12,282.03             | 93.44            | 92.48         | 99.44                 | -5,065.10                           | -1,657.76    | 1,055.09               | 925.76                  | 129.34                    | 8.158             |                    |           |
| 16,700.00                         | 12,107.18             | 16,843.35             | 12,283.11             | 94.91            | 93.95         | 99.42                 | -5,165.09                           | -1,656.90    | 1,055.06               | 923.67                  | 131.39                    | 8.030             |                    |           |
| 16,800.00                         | 12,108.50             | 16,943.35             | 12,284.19             | 96.38            | 95.42         | 99.41                 | -5,265.08                           | -1,656.03    | 1,055.03               | 921.58                  | 133.46                    | 7.905             |                    |           |
| 16,900.00                         | 12,109.81             | 17,043.35             | 12,285.27             | 97.86            | 96.90         | 99.40                 | -5,365.07                           | -1,655.16    | 1,055.00               | 919.47                  | 135.53                    | 7.784             |                    |           |
| 17,000.00                         | 12,111.13             | 17,143.35             | 12,286.36             | 99.34            | 98.38         | 99.39                 | -5,465.06                           | -1,654.29    | 1,054.97               | 917.36                  | 137.61                    | 7.666             |                    |           |
| 17,100.00                         | 12,112.44             | 17,243.35             | 12,287.44             | 100.83           | 99.87         | 99.37                 | -5,565.05                           | -1,653.42    | 1,054.94               | 915.24                  | 139.70                    | 7.552             |                    |           |
| 17,200.00                         | 12,113.76             | 17,343.35             | 12,288.52             | 102.33           | 101.37        | 99.36                 | -5,665.04                           | -1,652.55    | 1,054.91               | 913.11                  | 141.79                    | 7.440             |                    |           |
| 17,300.00                         | 12,115.08             | 17,443.35             | 12,289.60             | 103.83           | 102.87        | 99.35                 | -5,765.03                           | -1,651.69    | 1,054.88               | 910.98                  | 143.90                    | 7.331             |                    |           |
| 17,400.00                         | 12,116.39             | 17,543.35             | 12,290.68             | 105.33           | 104.37        | 99.33                 | -5,865.02                           | -1,650.82    | 1,054.85               | 908.84                  | 146.00                    | 7.225             |                    |           |
| 17,500.00                         | 12,117.71             | 17,643.35             | 12,291.76             | 106.84           | 105.88        | 99.32                 | -5,965.01                           | -1,649.95    | 1,054.81               | 906.70                  | 148.12                    | 7.121             |                    |           |
| 17,600.00                         | 12,119.03             | 17,743.35             | 12,292.84             | 108.35           | 107.40        | 99.31                 | -6,065.00                           | -1,649.08    | 1,054.78               | 904.54                  | 150.24                    | 7.021             |                    |           |
| 17,700.00                         | 12,120.34             | 17,843.35             | 12,293.93             | 109.86           | 108.91        | 99.30                 | -6,164.99                           | -1,648.21    | 1,054.75               | 902.39                  | 152.36                    | 6.923             |                    |           |
| 17,800.00                         | 12,121.66             | 17,943.35             | 12,295.01             | 111.38           | 110.44        | 99.28                 | -6,264.98                           | -1,647.34    | 1,054.72               | 900.23                  | 154.50                    | 6.827             |                    |           |
| 17,900.00                         | 12,122.97             | 18,043.35             | 12,296.09             | 112.91           | 111.96        | 99.27                 | -6,364.97                           | -1,646.48    | 1,054.69               | 898.06                  | 156.63                    | 6.734             |                    |           |
| 18,000.00                         | 12,124.29             | 18,143.35             | 12,297.17             | 114.43           | 113.49        | 99.26                 | -6,464.96                           | -1,645.61    | 1,054.66               | 895.89                  | 158.77                    | 6.643             |                    |           |
| 18,100.00                         | 12,125.61             | 18,243.35             | 12,298.25             | 115.96           | 115.02        | 99.25                 | -6,564.95                           | -1,644.74    | 1,054.63               | 893.71                  | 160.92                    | 6.554             |                    |           |
| 18,200.00                         | 12,126.92             | 18,343.35             | 12,299.33             | 117.50           | 116.56        | 99.23                 | -6,664.94                           | -1,643.87    | 1,054.60               | 891.53                  | 163.07                    | 6.467             |                    |           |
| 18,300.00                         | 12,128.24             | 18,443.34             | 12,300.41             | 119.04           | 118.10        | 99.22                 | -6,764.93                           | -1,643.00    | 1,054.57               | 889.35                  | 165.22                    | 6.383             |                    |           |
| 18,400.00                         | 12,129.56             | 18,543.34             | 12,301.49             | 120.58           | 119.64        | 99.21                 | -6,864.92                           | -1,642.13    | 1,054.54               | 887.16                  | 167.38                    | 6.300             |                    |           |
| 18,500.00                         | 12,130.87             | 18,643.34             | 12,302.58             | 122.12           | 121.18        | 99.20                 | -6,964.91                           | -1,641.27    | 1,054.51               | 884.96                  | 169.55                    | 6.220             |                    |           |
| 18,600.00                         | 12,132.19             | 18,743.34             | 12,303.66             | 123.66           | 122.73        | 99.18                 | -7,064.90                           | -1,640.40    | 1,054.48               | 882.76                  | 171.71                    | 6.141             |                    |           |
| 18,700.00                         | 12,133.50             | 18,843.34             | 12,304.74             | 125.21           | 124.28        | 99.17                 | -7,164.89                           | -1,639.53    | 1,054.45               | 880.56                  | 173.88                    | 6.064             |                    |           |
| 18,800.00                         | 12,134.82             | 18,943.34             | 12,305.82             | 126.76           | 125.83        | 99.16                 | -7,264.88                           | -1,638.66    | 1,054.42               | 878.36                  | 176.06                    | 5.989             |                    |           |
| 18,900.00                         | 12,136.14             | 19,043.34             | 12,306.90             | 128.32           | 127.39        | 99.14                 | -7,364.87                           | -1,637.79    | 1,054.39               | 876.15                  | 178.24                    | 5.916             |                    |           |
| 19,000.00                         | 12,137.45             | 19,143.34             | 12,307.98             | 129.87           | 128.94        | 99.13                 | -7,464.86                           | -1,636.92    | 1,054.36               | 873.94                  | 180.42                    | 5.844             |                    |           |
| 19,100.00                         | 12,138.77             | 19,243.34             | 12,309.06             | 131.43           | 130.50        | 99.12                 | -7,564.85                           | -1,636.06    | 1,054.33               | 871.72                  | 182.60                    | 5.774             |                    |           |
| 19,200.00                         | 12,140.09             | 19,343.34             | 12,310.15             | 132.99           | 132.07        | 99.11                 | -7,664.84                           | -1,635.19    | 1,054.30               | 869.51                  | 184.79                    | 5.705             |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |         |           |
| 19,300.00                         | 12,141.40             | 19,443.34             | 12,311.23             | 134.56           | 133.63        | 99.09                 | -7,764.83                           | -1,634.32    | 1,054.27               | 867.28                  | 186.98                    | 5.638             |                    |         |           |
| 19,400.00                         | 12,142.72             | 19,543.34             | 12,312.31             | 136.12           | 135.20        | 99.08                 | -7,864.82                           | -1,633.45    | 1,054.24               | 865.06                  | 189.18                    | 5.573             |                    |         |           |
| 19,500.00                         | 12,144.03             | 19,643.34             | 12,313.39             | 137.69           | 136.76        | 99.07                 | -7,964.81                           | -1,632.58    | 1,054.21               | 862.84                  | 191.37                    | 5.509             |                    |         |           |
| 19,600.00                         | 12,145.35             | 19,743.34             | 12,314.47             | 139.26           | 138.33        | 99.06                 | -8,064.80                           | -1,631.72    | 1,054.18               | 860.61                  | 193.57                    | 5.446             |                    |         |           |
| 19,700.00                         | 12,146.67             | 19,843.34             | 12,315.55             | 140.83           | 139.91        | 99.04                 | -8,164.79                           | -1,630.85    | 1,054.15               | 858.37                  | 195.77                    | 5.385             |                    |         |           |
| 19,800.00                         | 12,147.98             | 19,943.34             | 12,316.63             | 142.40           | 141.48        | 99.03                 | -8,264.78                           | -1,629.98    | 1,054.12               | 856.14                  | 197.98                    | 5.324             |                    |         |           |
| 19,900.00                         | 12,149.30             | 20,043.34             | 12,317.72             | 143.98           | 143.06        | 99.02                 | -8,364.77                           | -1,629.11    | 1,054.09               | 853.90                  | 200.18                    | 5.266             |                    |         |           |
| 20,000.00                         | 12,150.62             | 20,143.34             | 12,318.80             | 145.55           | 144.63        | 99.01                 | -8,464.76                           | -1,628.24    | 1,054.06               | 851.66                  | 202.39                    | 5.208             |                    |         |           |
| 20,100.00                         | 12,151.93             | 20,243.34             | 12,319.88             | 147.13           | 146.21        | 98.99                 | -8,564.75                           | -1,627.37    | 1,054.03               | 849.42                  | 204.61                    | 5.151             |                    |         |           |
| 20,200.00                         | 12,153.25             | 20,343.34             | 12,320.96             | 148.71           | 147.79        | 98.98                 | -8,664.74                           | -1,626.51    | 1,054.00               | 847.18                  | 206.82                    | 5.096             |                    |         |           |
| 20,300.00                         | 12,154.56             | 20,443.34             | 12,322.04             | 150.29           | 149.38        | 98.97                 | -8,764.73                           | -1,625.64    | 1,053.97               | 844.93                  | 209.04                    | 5.042             |                    |         |           |
| 20,400.00                         | 12,155.88             | 20,543.34             | 12,323.12             | 151.87           | 150.96        | 98.95                 | -8,864.72                           | -1,624.77    | 1,053.94               | 842.69                  | 211.25                    | 4.989             |                    |         |           |
| 20,500.00                         | 12,157.20             | 20,643.34             | 12,324.20             | 153.46           | 152.55        | 98.94                 | -8,964.71                           | -1,623.90    | 1,053.91               | 840.44                  | 213.47                    | 4.937             |                    |         |           |
| 20,600.00                         | 12,158.51             | 20,743.34             | 12,325.29             | 155.04           | 154.13        | 98.93                 | -9,064.70                           | -1,623.03    | 1,053.88               | 838.18                  | 215.70                    | 4.886             |                    |         |           |
| 20,700.00                         | 12,159.83             | 20,843.34             | 12,326.37             | 156.63           | 155.72        | 98.92                 | -9,164.69                           | -1,622.16    | 1,053.85               | 835.93                  | 217.92                    | 4.836             |                    |         |           |
| 20,800.00                         | 12,161.15             | 20,943.34             | 12,327.45             | 158.22           | 157.31        | 98.90                 | -9,264.68                           | -1,621.30    | 1,053.82               | 833.68                  | 220.15                    | 4.787             |                    |         |           |
| 20,900.00                         | 12,162.46             | 21,043.34             | 12,328.53             | 159.81           | 158.90        | 98.89                 | -9,364.67                           | -1,620.43    | 1,053.79               | 831.42                  | 222.38                    | 4.739             |                    |         |           |
| 21,000.00                         | 12,163.78             | 21,143.34             | 12,329.61             | 161.40           | 160.49        | 98.88                 | -9,464.66                           | -1,619.56    | 1,053.77               | 829.16                  | 224.60                    | 4.692             |                    |         |           |
| 21,100.00                         | 12,165.10             | 21,243.34             | 12,330.69             | 162.99           | 162.09        | 98.87                 | -9,564.65                           | -1,618.69    | 1,053.74               | 826.90                  | 226.84                    | 4.645             |                    |         |           |
| 21,200.00                         | 12,166.41             | 21,343.34             | 12,331.77             | 164.58           | 163.68        | 98.85                 | -9,664.64                           | -1,617.82    | 1,053.71               | 824.64                  | 229.07                    | 4.600             |                    |         |           |
| 21,300.00                         | 12,167.73             | 21,443.34             | 12,332.86             | 166.18           | 165.28        | 98.84                 | -9,764.63                           | -1,616.95    | 1,053.68               | 822.37                  | 231.30                    | 4.555             |                    |         |           |
| 21,400.00                         | 12,169.04             | 21,543.34             | 12,333.94             | 167.77           | 166.87        | 98.83                 | -9,864.62                           | -1,616.09    | 1,053.65               | 820.11                  | 233.54                    | 4.512             |                    |         |           |
| 21,500.00                         | 12,170.36             | 21,643.34             | 12,335.02             | 169.37           | 168.47        | 98.82                 | -9,964.61                           | -1,615.22    | 1,053.62               | 817.84                  | 235.78                    | 4.469             |                    |         |           |
| 21,600.00                         | 12,171.68             | 21,743.34             | 12,336.10             | 170.97           | 170.07        | 98.80                 | -10,064.61                          | -1,614.35    | 1,053.59               | 815.57                  | 238.02                    | 4.427             |                    |         |           |
| 21,700.00                         | 12,172.99             | 21,843.34             | 12,337.18             | 172.57           | 171.67        | 98.79                 | -10,164.60                          | -1,613.48    | 1,053.56               | 813.31                  | 240.26                    | 4.385             |                    |         |           |
| 21,800.00                         | 12,174.31             | 21,943.34             | 12,338.26             | 174.17           | 173.27        | 98.78                 | -10,264.59                          | -1,612.61    | 1,053.53               | 811.03                  | 242.50                    | 4.344             |                    |         |           |
| 21,900.00                         | 12,175.63             | 22,043.33             | 12,339.34             | 175.77           | 174.87        | 98.76                 | -10,364.58                          | -1,611.75    | 1,053.51               | 808.76                  | 244.74                    | 4.305             |                    |         |           |
| 22,000.00                         | 12,176.94             | 22,143.33             | 12,340.43             | 177.37           | 176.47        | 98.75                 | -10,464.57                          | -1,610.88    | 1,053.48               | 806.49                  | 246.99                    | 4.265             |                    |         |           |
| 22,100.00                         | 12,178.26             | 22,243.33             | 12,341.51             | 178.97           | 178.08        | 98.74                 | -10,564.56                          | -1,610.01    | 1,053.45               | 804.21                  | 249.23                    | 4.227             |                    |         |           |
| 22,200.00                         | 12,179.57             | 22,343.33             | 12,342.59             | 180.58           | 179.68        | 98.73                 | -10,664.55                          | -1,609.14    | 1,053.42               | 801.94                  | 251.48                    | 4.189             |                    |         |           |
| 22,280.97                         | 12,180.64             | 22,424.01             | 12,343.46             | 181.87           | 180.98        | 98.72                 | -10,745.21                          | -1,608.44    | 1,053.40               | 800.10                  | 253.30                    | 4.159             |                    |         |           |
| 22,300.00                         | 12,180.89             | 22,424.01             | 12,343.46             | 182.18           | 180.98        | 98.72                 | -10,745.21                          | -1,608.44    | 1,053.57               | 799.99                  | 253.58                    | 4.155 ES, SF      |                    |         |           |
| 22,400.00                         | 12,182.21             | 22,424.01             | 12,343.46             | 183.79           | 180.98        | 98.72                 | -10,745.21                          | -1,608.44    | 1,060.10               | 806.69                  | 253.41                    | 4.183             |                    |         |           |
| 22,500.00                         | 12,183.52             | 22,424.01             | 12,343.46             | 185.39           | 180.98        | 98.72                 | -10,745.21                          | -1,608.44    | 1,075.93               | 825.23                  | 250.69                    | 4.292             |                    |         |           |
| 22,600.00                         | 12,184.84             | 22,424.01             | 12,343.46             | 187.00           | 180.98        | 98.72                 | -10,745.21                          | -1,608.44    | 1,100.65               | 854.87                  | 245.78                    | 4.478             |                    |         |           |
| 22,700.00                         | 12,186.16             | 22,424.01             | 12,343.46             | 188.61           | 180.98        | 98.72                 | -10,745.21                          | -1,608.44    | 1,133.68               | 894.50                  | 239.18                    | 4.740             |                    |         |           |
| 22,800.00                         | 12,187.47             | 22,424.01             | 12,343.46             | 190.21           | 180.98        | 98.72                 | -10,745.21                          | -1,608.44    | 1,174.32               | 942.87                  | 231.46                    | 5.074             |                    |         |           |
| 22,900.00                         | 12,188.79             | 22,424.01             | 12,343.46             | 191.82           | 180.98        | 98.72                 | -10,745.21                          | -1,608.44    | 1,221.82               | 998.71                  | 223.11                    | 5.476             |                    |         |           |
| 23,000.00                         | 12,190.10             | 22,424.01             | 12,343.46             | 193.43           | 180.98        | 98.72                 | -10,745.21                          | -1,608.44    | 1,275.40               | 1,060.86                | 214.54                    | 5.945             |                    |         |           |
| 23,100.00                         | 12,191.42             | 22,424.01             | 12,343.46             | 195.04           | 180.98        | 98.72                 | -10,745.21                          | -1,608.44    | 1,334.34               | 1,128.27                | 206.06                    | 6.475             |                    |         |           |
| 23,200.00                         | 12,192.74             | 22,424.01             | 12,343.46             | 196.66           | 180.98        | 98.72                 | -10,745.21                          | -1,608.44    | 1,397.95               | 1,200.07                | 197.88                    | 7.065             |                    |         |           |
| 23,300.00                         | 12,194.05             | 22,424.01             | 12,343.46             | 198.27           | 180.98        | 98.72                 | -10,745.21                          | -1,608.44    | 1,465.63               | 1,275.53                | 190.10                    | 7.710             |                    |         |           |
| 23,400.00                         | 12,195.37             | 22,424.01             | 12,343.46             | 199.88           | 180.98        | 98.72                 | -10,745.21                          | -1,608.44    | 1,536.84               | 1,354.02                | 182.81                    | 8.407             |                    |         |           |
| 23,500.00                         | 12,196.69             | 22,424.01             | 12,343.46             | 201.49           | 180.98        | 98.72                 | -10,745.21                          | -1,608.44    | 1,611.11               | 1,435.07                | 176.04                    | 9.152             |                    |         |           |
| 23,594.56                         | 12,197.93             | 22,424.01             | 12,343.46             | 203.02           | 180.98        | 98.72                 | -10,745.21                          | -1,608.44    | 1,683.79               | 1,513.70                | 170.09                    | 9.899             |                    |         |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 0.00                              | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | 90.95                 | -39.65                              | 2,388.88     | 2,389.47               |                         |                           |                   |                    |           |
| 100.00                            | 100.00                | 65.00                 | 65.00                 | 0.13             | 0.09          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,389.05                | 0.16                      | N/A               |                    |           |
| 200.00                            | 200.00                | 165.00                | 165.00                | 0.48             | 0.37          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,388.60                | 0.61                      | 3,904.050         |                    |           |
| 300.00                            | 300.00                | 265.00                | 265.00                | 0.84             | 0.73          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,388.09                | 1.12                      | 2,139.500         |                    |           |
| 400.00                            | 400.00                | 365.00                | 365.00                | 1.20             | 1.09          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,387.59                | 1.62                      | 1,472.246         |                    |           |
| 500.00                            | 500.00                | 465.00                | 465.00                | 1.56             | 1.45          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,387.08                | 2.13                      | 1,122.037         |                    |           |
| 600.00                            | 600.00                | 565.00                | 565.00                | 1.92             | 1.81          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,386.57                | 2.64                      | 906.365           |                    |           |
| 700.00                            | 700.00                | 665.00                | 665.00                | 2.28             | 2.17          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,386.07                | 3.14                      | 760.215           |                    |           |
| 800.00                            | 800.00                | 765.00                | 765.00                | 2.63             | 2.53          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,385.56                | 3.65                      | 654.644           |                    |           |
| 900.00                            | 900.00                | 865.00                | 865.00                | 2.99             | 2.88          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,385.05                | 4.16                      | 574.815           |                    |           |
| 1,000.00                          | 1,000.00              | 965.00                | 965.00                | 3.35             | 3.24          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,384.55                | 4.66                      | 512.336           |                    |           |
| 1,100.00                          | 1,100.00              | 1,065.00              | 1,065.00              | 3.71             | 3.60          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,384.04                | 5.17                      | 462.107           |                    |           |
| 1,200.00                          | 1,200.00              | 1,165.00              | 1,165.00              | 4.07             | 3.96          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,383.53                | 5.68                      | 420.846           |                    |           |
| 1,300.00                          | 1,300.00              | 1,265.00              | 1,265.00              | 4.43             | 4.32          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,383.03                | 6.18                      | 386.349           |                    |           |
| 1,400.00                          | 1,400.00              | 1,365.00              | 1,365.00              | 4.79             | 4.68          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,382.52                | 6.69                      | 357.079           |                    |           |
| 1,500.00                          | 1,500.00              | 1,465.00              | 1,465.00              | 5.14             | 5.03          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,382.01                | 7.20                      | 331.931           |                    |           |
| 1,600.00                          | 1,600.00              | 1,565.00              | 1,565.00              | 5.50             | 5.39          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,381.50                | 7.70                      | 310.092           |                    |           |
| 1,700.00                          | 1,700.00              | 1,665.00              | 1,665.00              | 5.86             | 5.75          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,381.00                | 8.21                      | 290.949           |                    |           |
| 1,800.00                          | 1,800.00              | 1,765.00              | 1,765.00              | 6.22             | 6.11          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,380.49                | 8.72                      | 274.033           |                    |           |
| 1,900.00                          | 1,900.00              | 1,865.00              | 1,865.00              | 6.58             | 6.47          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,379.98                | 9.23                      | 258.975           |                    |           |
| 2,000.00                          | 2,000.00              | 1,965.00              | 1,965.00              | 6.94             | 6.83          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,379.48                | 9.73                      | 245.486           |                    |           |
| 2,100.00                          | 2,100.00              | 2,065.00              | 2,065.00              | 7.29             | 7.19          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,378.97                | 10.24                     | 233.332           |                    |           |
| 2,200.00                          | 2,200.00              | 2,165.00              | 2,165.00              | 7.65             | 7.54          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,378.46                | 10.75                     | 222.325           |                    |           |
| 2,300.00                          | 2,300.00              | 2,265.00              | 2,265.00              | 8.01             | 7.90          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,377.96                | 11.25                     | 212.310           |                    |           |
| 2,400.00                          | 2,400.00              | 2,365.00              | 2,365.00              | 8.37             | 8.26          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,377.45                | 11.76                     | 203.158           |                    |           |
| 2,500.00                          | 2,500.00              | 2,465.00              | 2,465.00              | 8.73             | 8.62          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,376.94                | 12.27                     | 194.763           |                    |           |
| 2,600.00                          | 2,600.00              | 2,565.00              | 2,565.00              | 9.09             | 8.98          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,376.43                | 12.77                     | 187.033           |                    |           |
| 2,688.00                          | 2,688.00              | 2,653.00              | 2,653.00              | 9.40             | 9.29          | 90.95                 | -39.65                              | 2,388.88     | 2,389.21               | 2,375.99                | 13.22                     | 180.722 CC        |                    |           |
| 2,700.00                          | 2,700.00              | 2,665.00              | 2,665.00              | 9.44             | 9.34          | -153.27               | -39.65                              | 2,388.88     | 2,389.23               | 2,375.95                | 13.28                     | 179.911 ES        |                    |           |
| 2,800.00                          | 2,799.98              | 2,764.98              | 2,764.98              | 9.78             | 9.69          | -153.28               | -39.65                              | 2,388.88     | 2,390.68               | 2,376.91                | 13.77                     | 173.631           |                    |           |
| 2,900.00                          | 2,899.89              | 2,864.89              | 2,864.89              | 10.11            | 10.05         | -153.30               | -39.65                              | 2,388.88     | 2,394.46               | 2,380.21                | 14.26                     | 167.934           |                    |           |
| 3,000.00                          | 2,999.65              | 2,964.65              | 2,964.65              | 10.45            | 10.41         | -153.33               | -39.65                              | 2,388.88     | 2,400.59               | 2,385.84                | 14.75                     | 162.767           |                    |           |
| 3,100.00                          | 3,099.20              | 3,064.20              | 3,064.20              | 10.79            | 10.77         | -153.37               | -39.65                              | 2,388.88     | 2,409.06               | 2,393.82                | 15.24                     | 158.082           |                    |           |
| 3,200.00                          | 3,198.47              | 3,163.47              | 3,163.47              | 11.14            | 11.12         | -153.43               | -39.65                              | 2,388.88     | 2,419.86               | 2,404.13                | 15.73                     | 153.836           |                    |           |
| 3,281.62                          | 3,279.24              | 3,244.24              | 3,244.24              | 11.43            | 11.41         | -153.48               | -39.65                              | 2,388.88     | 2,430.41               | 2,414.28                | 16.13                     | 150.668           |                    |           |
| 3,300.00                          | 3,297.39              | 3,262.39              | 3,262.39              | 11.49            | 11.48         | -153.51               | -39.65                              | 2,388.88     | 2,432.96               | 2,416.74                | 16.22                     | 149.984           |                    |           |
| 3,400.00                          | 3,396.19              | 3,361.19              | 3,361.19              | 11.85            | 11.83         | -153.67               | -39.65                              | 2,388.88     | 2,446.86               | 2,430.15                | 16.71                     | 146.406           |                    |           |
| 3,500.00                          | 3,494.98              | 3,459.98              | 3,459.98              | 12.22            | 12.19         | -153.83               | -39.65                              | 2,388.88     | 2,460.77               | 2,443.57                | 17.21                     | 143.017           |                    |           |
| 3,600.00                          | 3,593.78              | 3,558.78              | 3,558.78              | 12.59            | 12.54         | -153.99               | -39.65                              | 2,388.88     | 2,474.71               | 2,457.01                | 17.70                     | 139.805           |                    |           |
| 3,700.00                          | 3,692.57              | 3,657.57              | 3,657.57              | 12.96            | 12.89         | -154.14               | -39.65                              | 2,388.88     | 2,488.66               | 2,470.46                | 18.20                     | 136.757           |                    |           |
| 3,800.00                          | 3,791.37              | 3,756.37              | 3,756.37              | 13.34            | 13.25         | -154.30               | -39.65                              | 2,388.88     | 2,502.63               | 2,483.93                | 18.70                     | 133.862           |                    |           |
| 3,900.00                          | 3,890.16              | 3,855.16              | 3,855.16              | 13.72            | 13.60         | -154.45               | -39.65                              | 2,388.88     | 2,516.62               | 2,497.42                | 19.19                     | 131.109           |                    |           |
| 4,000.00                          | 3,988.96              | 3,953.96              | 3,953.96              | 14.10            | 13.96         | -154.60               | -39.65                              | 2,388.88     | 2,530.62               | 2,510.93                | 19.70                     | 128.489           |                    |           |
| 4,100.00                          | 4,087.75              | 4,052.75              | 4,052.75              | 14.49            | 14.31         | -154.75               | -39.65                              | 2,388.88     | 2,544.64               | 2,524.45                | 20.20                     | 125.993           |                    |           |
| 4,200.00                          | 4,186.55              | 4,151.55              | 4,151.55              | 14.88            | 14.67         | -154.90               | -39.65                              | 2,388.88     | 2,558.68               | 2,537.98                | 20.70                     | 123.613           |                    |           |
| 4,300.00                          | 4,285.34              | 4,250.34              | 4,250.34              | 15.27            | 15.02         | -155.04               | -39.65                              | 2,388.88     | 2,572.74               | 2,551.53                | 21.20                     | 121.342           |                    |           |
| 4,400.00                          | 4,384.13              | 4,349.13              | 4,349.13              | 15.67            | 15.37         | -155.19               | -39.65                              | 2,388.88     | 2,586.81               | 2,565.10                | 21.71                     | 119.172           |                    |           |
| 4,500.00                          | 4,482.93              | 4,447.93              | 4,447.93              | 16.06            | 15.73         | -155.33               | -39.65                              | 2,388.88     | 2,600.90               | 2,578.68                | 22.21                     | 117.097           |                    |           |
| 4,600.00                          | 4,581.72              | 4,546.72              | 4,546.72              | 16.46            | 16.08         | -155.47               | -39.65                              | 2,388.88     | 2,615.00               | 2,592.28                | 22.72                     | 115.111           |                    |           |
| 4,700.00                          | 4,680.52              | 4,645.52              | 4,645.52              | 16.86            | 16.44         | -155.61               | -39.65                              | 2,388.88     | 2,629.12               | 2,605.89                | 23.22                     | 113.210           |                    |           |
| 4,800.00                          | 4,779.31              | 4,744.31              | 4,744.31              | 17.27            | 16.79         | -155.75               | -39.65                              | 2,388.88     | 2,643.25               | 2,619.52                | 23.73                     | 111.387           |                    |           |
| 4,900.00                          | 4,878.11              | 4,843.11              | 4,843.11              | 17.67            | 17.14         | -155.89               | -39.65                              | 2,388.88     | 2,657.40               | 2,633.16                | 24.24                     | 109.639           |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - Plan #3 |           | 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 |                                                               |           |                    |           |
| 5,000.00                          | 4,976.90              | 4,941.90              | 4,941.90              | 18.08            | 17.50         | -156.02               | -39.65                              | 2,388.88     | 2,671.56               | 2,646.82                | 24.75                     | 107.961           |                                                               |           |                    |           |
| 5,100.00                          | 5,075.70              | 5,040.70              | 5,040.70              | 18.49            | 17.85         | -156.16               | -39.65                              | 2,388.88     | 2,685.74               | 2,660.49                | 25.25                     | 106.350           |                                                               |           |                    |           |
| 5,200.00                          | 5,174.49              | 5,139.49              | 5,139.49              | 18.90            | 18.21         | -156.29               | -39.65                              | 2,388.88     | 2,699.93               | 2,674.17                | 25.76                     | 104.800           |                                                               |           |                    |           |
| 5,300.00                          | 5,273.29              | 5,238.29              | 5,238.29              | 19.31            | 18.56         | -156.42               | -39.65                              | 2,388.88     | 2,714.14               | 2,687.87                | 26.27                     | 103.310           |                                                               |           |                    |           |
| 5,400.00                          | 5,372.08              | 5,337.08              | 5,337.08              | 19.72            | 18.92         | -156.55               | -39.65                              | 2,388.88     | 2,728.36               | 2,701.58                | 26.78                     | 101.875           |                                                               |           |                    |           |
| 5,500.00                          | 5,470.88              | 5,435.88              | 5,435.88              | 20.13            | 19.27         | -156.68               | -39.65                              | 2,388.88     | 2,742.59               | 2,715.30                | 27.29                     | 100.493           |                                                               |           |                    |           |
| 5,600.00                          | 5,569.67              | 5,558.39              | 5,558.39              | 20.54            | 19.70         | -156.83               | -40.03                              | 2,388.65     | 2,756.69               | 2,728.83                | 27.86                     | 98.947            |                                                               |           |                    |           |
| 5,700.00                          | 5,668.47              | 5,725.82              | 5,725.69              | 20.96            | 20.25         | -156.93               | -45.34                              | 2,385.40     | 2,768.88               | 2,740.36                | 28.52                     | 97.092            |                                                               |           |                    |           |
| 5,800.00                          | 5,767.26              | 5,894.31              | 5,893.61              | 21.38            | 20.80         | -156.91               | -57.00                              | 2,378.28     | 2,778.60               | 2,749.43                | 29.16                     | 95.278            |                                                               |           |                    |           |
| 5,900.00                          | 5,866.06              | 6,023.60              | 6,022.01              | 21.79            | 21.23         | -156.82               | -69.87                              | 2,370.42     | 2,786.25               | 2,756.53                | 29.72                     | 93.750            |                                                               |           |                    |           |
| 6,000.00                          | 5,964.85              | 6,123.24              | 6,120.91              | 22.21            | 21.56         | -156.73               | -80.23                              | 2,364.09     | 2,793.67               | 2,763.46                | 30.22                     | 92.454            |                                                               |           |                    |           |
| 6,100.00                          | 6,063.65              | 6,222.88              | 6,219.81              | 22.63            | 21.89         | -156.65               | -90.59                              | 2,357.76     | 2,801.11               | 2,770.39                | 30.72                     | 91.194            |                                                               |           |                    |           |
| 6,200.00                          | 6,162.44              | 6,322.53              | 6,318.72              | 23.05            | 22.23         | -156.57               | -100.95                             | 2,351.43     | 2,808.55               | 2,777.33                | 31.22                     | 89.969            |                                                               |           |                    |           |
| 6,300.00                          | 6,261.24              | 6,422.17              | 6,417.62              | 23.47            | 22.56         | -156.49               | -111.32                             | 2,345.10     | 2,815.99               | 2,784.27                | 31.72                     | 88.777            |                                                               |           |                    |           |
| 6,400.00                          | 6,360.03              | 6,521.82              | 6,516.52              | 23.89            | 22.90         | -156.41               | -121.68                             | 2,338.78     | 2,823.44               | 2,791.22                | 32.22                     | 87.618            |                                                               |           |                    |           |
| 6,500.00                          | 6,458.83              | 6,621.46              | 6,615.42              | 24.31            | 23.25         | -156.33               | -132.04                             | 2,332.45     | 2,830.90               | 2,798.17                | 32.73                     | 86.490            |                                                               |           |                    |           |
| 6,600.00                          | 6,557.62              | 6,721.10              | 6,714.32              | 24.73            | 23.59         | -156.25               | -142.40                             | 2,326.12     | 2,838.36               | 2,805.12                | 33.24                     | 85.392            |                                                               |           |                    |           |
| 6,700.00                          | 6,656.42              | 6,820.75              | 6,813.22              | 25.15            | 23.94         | -156.17               | -152.76                             | 2,319.79     | 2,845.83               | 2,812.08                | 33.75                     | 84.323            |                                                               |           |                    |           |
| 6,800.00                          | 6,755.21              | 6,920.39              | 6,912.12              | 25.57            | 24.29         | -156.09               | -163.13                             | 2,313.46     | 2,853.30               | 2,819.04                | 34.26                     | 83.283            |                                                               |           |                    |           |
| 6,900.00                          | 6,854.01              | 7,020.04              | 7,011.03              | 26.00            | 24.64         | -156.01               | -173.49                             | 2,307.13     | 2,860.78               | 2,826.00                | 34.77                     | 82.270            |                                                               |           |                    |           |
| 7,000.00                          | 6,952.80              | 7,119.68              | 7,109.93              | 26.42            | 24.99         | -155.94               | -183.85                             | 2,300.80     | 2,868.26               | 2,832.97                | 35.29                     | 81.283            |                                                               |           |                    |           |
| 7,100.00                          | 7,051.59              | 7,219.32              | 7,208.83              | 26.85            | 25.35         | -155.86               | -194.21                             | 2,294.47     | 2,875.75               | 2,839.95                | 35.80                     | 80.322            |                                                               |           |                    |           |
| 7,200.00                          | 7,150.39              | 7,318.97              | 7,307.73              | 27.27            | 25.70         | -155.78               | -204.57                             | 2,288.14     | 2,883.24               | 2,846.92                | 36.32                     | 79.385            |                                                               |           |                    |           |
| 7,300.00                          | 7,249.18              | 7,418.61              | 7,406.63              | 27.70            | 26.06         | -155.70               | -214.94                             | 2,281.81     | 2,890.74               | 2,853.90                | 36.84                     | 78.472            |                                                               |           |                    |           |
| 7,400.00                          | 7,347.98              | 7,518.26              | 7,505.53              | 28.12            | 26.42         | -155.63               | -225.30                             | 2,275.48     | 2,898.24               | 2,860.89                | 37.36                     | 77.582            |                                                               |           |                    |           |
| 7,411.16                          | 7,359.00              | 7,529.37              | 7,516.57              | 28.17            | 26.46         | -155.62               | -226.45                             | 2,274.78     | 2,899.08               | 2,861.67                | 37.42                     | 77.484            |                                                               |           |                    |           |
| 7,500.00                          | 7,446.93              | 7,617.95              | 7,604.48              | 28.54            | 26.78         | -155.58               | -235.66                             | 2,269.15     | 2,904.81               | 2,866.94                | 37.88                     | 76.691            |                                                               |           |                    |           |
| 7,600.00                          | 7,546.22              | 7,717.71              | 7,703.50              | 28.94            | 27.14         | -155.50               | -246.04                             | 2,262.81     | 2,909.03               | 2,870.63                | 38.39                     | 75.768            |                                                               |           |                    |           |
| 7,700.00                          | 7,645.78              | 7,817.49              | 7,802.53              | 29.33            | 27.50         | -155.39               | -256.41                             | 2,256.47     | 2,910.87               | 2,871.96                | 38.91                     | 74.813            |                                                               |           |                    |           |
| 7,800.00                          | 7,745.56              | 7,917.20              | 7,901.50              | 29.70            | 27.87         | -155.24               | -266.78                             | 2,250.14     | 2,910.35               | 2,870.93                | 39.42                     | 73.828            |                                                               |           |                    |           |
| 7,900.00                          | 7,845.47              | 7,987.94              | 7,971.79              | 30.05            | 28.13         | -155.11               | -273.59                             | 2,245.99     | 2,907.97               | 2,868.12                | 39.86                     | 72.961            |                                                               |           |                    |           |
| 8,004.78                          | 7,950.24              | 8,062.15              | 8,045.67              | 30.40            | 28.39         | 89.24                 | -279.53                             | 2,242.36     | 2,904.01               | 2,863.71                | 40.30                     | 72.060            |                                                               |           |                    |           |
| 8,100.00                          | 8,045.46              | 8,129.73              | 8,113.06              | 30.70            | 28.63         | 89.32                 | -283.87                             | 2,239.71     | 2,900.19               | 2,859.50                | 40.69                     | 71.270            |                                                               |           |                    |           |
| 8,200.00                          | 8,145.46              | 8,200.00              | 8,183.22              | 31.02            | 28.88         | 89.39                 | -287.30                             | 2,237.61     | 2,897.15               | 2,856.05                | 41.10                     | 70.490            |                                                               |           |                    |           |
| 8,300.00                          | 8,245.46              | 8,272.15              | 8,255.31              | 31.34            | 29.13         | 89.44                 | -289.69                             | 2,236.15     | 2,895.11               | 2,853.60                | 41.51                     | 69.750            |                                                               |           |                    |           |
| 8,400.00                          | 8,345.46              | 8,343.50              | 8,326.64              | 31.66            | 29.38         | 89.46                 | -290.90                             | 2,235.41     | 2,894.05               | 2,852.15                | 41.91                     | 69.056            |                                                               |           |                    |           |
| 8,476.70                          | 8,422.16              | 8,404.01              | 8,387.16              | 31.91            | 29.59         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,851.66                | 42.23                     | 68.523            |                                                               |           |                    |           |
| 8,500.00                          | 8,445.46              | 8,427.31              | 8,410.46              | 31.98            | 29.67         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,851.55                | 42.35                     | 68.340            |                                                               |           |                    |           |
| 8,600.00                          | 8,545.46              | 8,527.31              | 8,510.46              | 32.31            | 30.02         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,851.06                | 42.83                     | 67.565            |                                                               |           |                    |           |
| 8,700.00                          | 8,645.46              | 8,627.31              | 8,610.46              | 32.63            | 30.37         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,850.58                | 43.32                     | 66.807            |                                                               |           |                    |           |
| 8,800.00                          | 8,745.46              | 8,727.31              | 8,710.46              | 32.96            | 30.72         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,850.09                | 43.80                     | 66.065            |                                                               |           |                    |           |
| 8,900.00                          | 8,845.46              | 8,827.31              | 8,810.46              | 33.28            | 31.07         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,849.60                | 44.29                     | 65.338            |                                                               |           |                    |           |
| 9,000.00                          | 8,945.46              | 8,927.31              | 8,910.46              | 33.61            | 31.42         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,849.12                | 44.78                     | 64.627            |                                                               |           |                    |           |
| 9,100.00                          | 9,045.46              | 9,027.31              | 9,010.46              | 33.93            | 31.77         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,848.63                | 45.27                     | 63.930            |                                                               |           |                    |           |
| 9,200.00                          | 9,145.46              | 9,127.31              | 9,110.46              | 34.26            | 32.13         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,848.14                | 45.75                     | 63.248            |                                                               |           |                    |           |
| 9,300.00                          | 9,245.46              | 9,227.31              | 9,210.46              | 34.59            | 32.48         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,847.65                | 46.24                     | 62.579            |                                                               |           |                    |           |
| 9,400.00                          | 9,345.46              | 9,327.31              | 9,310.46              | 34.92            | 32.83         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,847.16                | 46.73                     | 61.924            |                                                               |           |                    |           |
| 9,500.00                          | 9,445.46              | 9,427.31              | 9,410.46              | 35.24            | 33.18         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,846.67                | 47.22                     | 61.282            |                                                               |           |                    |           |
| 9,600.00                          | 9,545.46              | 9,527.31              | 9,510.46              | 35.57            | 33.53         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,846.18                | 47.71                     | 60.653            |                                                               |           |                    |           |
| 9,700.00                          | 9,645.46              | 9,627.31              | 9,610.46              | 35.90            | 33.88         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,845.69                | 48.20                     | 60.036            |                                                               |           |                    |           |
| 9,800.00                          | 9,745.46              | 9,727.31              | 9,710.46              | 36.23            | 34.23         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,845.20                | 48.69                     | 59.432            |                                                               |           |                    |           |
| 9,900.00                          | 9,845.46              | 9,827.31              | 9,810.46              | 36.57            | 34.59         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,844.71                | 49.18                     | 58.838            |                                                               |           |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - Plan #3 |  | 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                                                       |  |                              |  |
| 10,000.00                         | 9,945.46              | 9,927.31              | 9,910.46              | 36.90            | 34.94         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,844.22                | 49.68                     | 58.257            |                                                               |  |                              |  |
| 10,100.00                         | 10,045.46             | 10,027.31             | 10,010.46             | 37.23            | 35.29         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,843.73                | 50.17                     | 57.686            |                                                               |  |                              |  |
| 10,200.00                         | 10,145.46             | 10,127.31             | 10,110.46             | 37.56            | 35.64         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,843.24                | 50.66                     | 57.126            |                                                               |  |                              |  |
| 10,300.00                         | 10,245.46             | 10,227.31             | 10,210.46             | 37.89            | 35.99         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,842.75                | 51.15                     | 56.576            |                                                               |  |                              |  |
| 10,400.00                         | 10,345.46             | 10,327.31             | 10,310.46             | 38.23            | 36.35         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,842.25                | 51.64                     | 56.037            |                                                               |  |                              |  |
| 10,500.00                         | 10,445.46             | 10,427.31             | 10,410.46             | 38.56            | 36.70         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,841.76                | 52.14                     | 55.507            |                                                               |  |                              |  |
| 10,600.00                         | 10,545.46             | 10,527.31             | 10,510.46             | 38.90            | 37.05         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,841.27                | 52.63                     | 54.987            |                                                               |  |                              |  |
| 10,700.00                         | 10,645.46             | 10,627.31             | 10,610.46             | 39.23            | 37.40         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,840.77                | 53.12                     | 54.476            |                                                               |  |                              |  |
| 10,800.00                         | 10,745.46             | 10,727.31             | 10,710.46             | 39.57            | 37.76         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,840.28                | 53.62                     | 53.975            |                                                               |  |                              |  |
| 10,900.00                         | 10,845.46             | 10,827.31             | 10,810.46             | 39.90            | 38.11         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,839.79                | 54.11                     | 53.482            |                                                               |  |                              |  |
| 11,000.00                         | 10,945.46             | 10,927.31             | 10,910.46             | 40.24            | 38.46         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,839.29                | 54.60                     | 52.999            |                                                               |  |                              |  |
| 11,100.00                         | 11,045.46             | 11,027.31             | 11,010.46             | 40.57            | 38.82         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,838.80                | 55.10                     | 52.523            |                                                               |  |                              |  |
| 11,200.00                         | 11,145.46             | 11,127.31             | 11,110.46             | 40.91            | 39.17         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,838.30                | 55.59                     | 52.056            |                                                               |  |                              |  |
| 11,300.00                         | 11,245.46             | 11,227.31             | 11,210.46             | 41.25            | 39.52         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,837.81                | 56.09                     | 51.597            |                                                               |  |                              |  |
| 11,308.11                         | 11,253.57             | 11,235.42             | 11,218.57             | 41.28            | 39.55         | 89.47                 | -291.08                             | 2,235.30     | 2,893.90               | 2,837.77                | 56.13                     | 51.560            |                                                               |  |                              |  |
| 11,400.00                         | 11,345.46             | 11,327.24             | 11,310.38             | 41.59            | 39.88         | 89.48                 | -291.56                             | 2,235.30     | 2,893.90               | 2,837.32                | 56.58                     | 51.146            |                                                               |  |                              |  |
| 11,500.00                         | 11,445.46             | 11,425.17             | 11,407.41             | 41.92            | 40.22         | 89.72                 | -303.88                             | 2,235.43     | 2,893.93               | 2,836.86                | 57.07                     | 50.706            |                                                               |  |                              |  |
| 11,532.54                         | 11,478.00             | 11,455.82             | 11,437.19             | 42.03            | 40.33         | 89.86                 | -311.11                             | 2,235.50     | 2,893.98               | 2,836.75                | 57.23                     | 50.566            |                                                               |  |                              |  |
| 11,550.00                         | 11,495.46             | 11,471.98             | 11,452.72             | 42.09            | 40.39         | -89.55                | -315.57                             | 2,235.54     | 2,894.02               | 2,836.70                | 57.32                     | 50.492            |                                                               |  |                              |  |
| 11,600.00                         | 11,545.30             | 11,517.66             | 11,495.88             | 42.26            | 40.55         | -89.30                | -330.51                             | 2,235.69     | 2,894.17               | 2,836.61                | 57.56                     | 50.281            |                                                               |  |                              |  |
| 11,650.00                         | 11,594.64             | 11,562.51             | 11,536.96             | 42.43            | 40.72         | -89.06                | -348.48                             | 2,235.86     | 2,894.37               | 2,836.57                | 57.80                     | 50.072            |                                                               |  |                              |  |
| 11,700.00                         | 11,643.08             | 11,606.60             | 11,575.85             | 42.61            | 40.89         | -88.83                | -369.22                             | 2,236.07     | 2,894.63               | 2,836.57                | 58.05                     | 49.862            |                                                               |  |                              |  |
| 11,750.00                         | 11,690.27             | 11,650.00             | 11,612.47             | 42.79            | 41.05         | -88.60                | -392.49                             | 2,236.29     | 2,894.92               | 2,836.62                | 58.30                     | 49.654            |                                                               |  |                              |  |
| 11,800.00                         | 11,735.85             | 11,692.78             | 11,646.74             | 42.97            | 41.22         | -88.39                | -418.08                             | 2,236.54     | 2,895.24               | 2,836.69                | 58.55                     | 49.445            |                                                               |  |                              |  |
| 11,850.00                         | 11,779.46             | 11,735.00             | 11,678.59             | 43.15            | 41.38         | -88.18                | -445.78                             | 2,236.82     | 2,895.59               | 2,836.78                | 58.81                     | 49.237            |                                                               |  |                              |  |
| 11,900.00                         | 11,820.78             | 11,776.72             | 11,707.98             | 43.34            | 41.55         | -87.99                | -475.37                             | 2,237.11     | 2,895.95               | 2,836.88                | 59.07                     | 49.028            |                                                               |  |                              |  |
| 11,950.00                         | 11,859.49             | 11,818.00             | 11,734.87             | 43.52            | 41.73         | -87.81                | -506.68                             | 2,237.41     | 2,896.32               | 2,836.99                | 59.33                     | 48.819            |                                                               |  |                              |  |
| 12,000.00                         | 11,895.30             | 11,858.88             | 11,759.20             | 43.71            | 41.90         | -87.64                | -539.52                             | 2,237.73     | 2,896.68               | 2,837.09                | 59.59                     | 48.608            |                                                               |  |                              |  |
| 12,050.00                         | 11,927.93             | 11,900.00             | 11,781.26             | 43.90            | 42.08         | -87.49                | -574.21                             | 2,238.07     | 2,897.04               | 2,837.17                | 59.86                     | 48.394            |                                                               |  |                              |  |
| 12,100.00                         | 11,957.13             | 11,939.66             | 11,800.12             | 44.09            | 42.26         | -87.36                | -609.09                             | 2,238.42     | 2,897.37               | 2,837.23                | 60.14                     | 48.181            |                                                               |  |                              |  |
| 12,150.00                         | 11,982.69             | 11,979.65             | 11,816.65             | 44.29            | 42.44         | -87.24                | -645.49                             | 2,238.77     | 2,897.68               | 2,837.26                | 60.42                     | 47.963            |                                                               |  |                              |  |
| 12,200.00                         | 12,004.41             | 12,019.42             | 11,830.53             | 44.50            | 42.63         | -87.14                | -682.76                             | 2,239.14     | 2,897.96               | 2,837.26                | 60.70                     | 47.742            |                                                               |  |                              |  |
| 12,250.00                         | 12,022.12             | 12,059.03             | 11,841.75             | 44.72            | 42.81         | -87.06                | -720.73                             | 2,239.51     | 2,898.20               | 2,837.21                | 60.99                     | 47.519            |                                                               |  |                              |  |
| 12,300.00                         | 12,035.70             | 12,100.00             | 11,850.57             | 44.95            | 43.01         | -86.99                | -760.73                             | 2,239.90     | 2,898.40               | 2,837.10                | 61.29                     | 47.288            |                                                               |  |                              |  |
| 12,350.00                         | 12,045.02             | 12,137.88             | 11,856.16             | 45.18            | 43.20         | -86.95                | -798.18                             | 2,240.27     | 2,898.55               | 2,836.96                | 61.59                     | 47.065            |                                                               |  |                              |  |
| 12,400.00                         | 12,050.03             | 12,177.20             | 11,859.34             | 45.42            | 43.39         | -86.92                | -837.37                             | 2,240.65     | 2,898.65               | 2,836.76                | 61.89                     | 46.836            |                                                               |  |                              |  |
| 12,425.00                         | 12,050.91             | 12,197.80             | 11,859.94             | 45.55            | 43.49         | -86.92                | -857.96                             | 2,240.85     | 2,898.68               | 2,836.64                | 62.05                     | 46.718            |                                                               |  |                              |  |
| 12,500.00                         | 12,051.90             | 12,272.80             | 11,861.32             | 45.94            | 43.89         | -86.92                | -932.94                             | 2,241.59     | 2,898.74               | 2,836.14                | 62.60                     | 46.303            |                                                               |  |                              |  |
| 12,600.00                         | 12,053.21             | 12,372.80             | 11,863.15             | 46.50            | 44.46         | -86.93                | -1,032.92                           | 2,242.57     | 2,898.82               | 2,835.41                | 63.41                     | 45.714            |                                                               |  |                              |  |
| 12,700.00                         | 12,054.53             | 12,472.80             | 11,864.98             | 47.12            | 45.08         | -86.94                | -1,132.89                           | 2,243.55     | 2,898.89               | 2,834.60                | 64.29                     | 45.089            |                                                               |  |                              |  |
| 12,800.00                         | 12,055.84             | 12,572.80             | 11,866.82             | 47.78            | 45.75         | -86.95                | -1,232.87                           | 2,244.53     | 2,898.97               | 2,833.72                | 65.25                     | 44.431            |                                                               |  |                              |  |
| 12,900.00                         | 12,057.16             | 12,672.80             | 11,868.65             | 48.50            | 46.47         | -86.96                | -1,332.85                           | 2,245.51     | 2,899.05               | 2,832.78                | 66.27                     | 43.747            |                                                               |  |                              |  |
| 13,000.00                         | 12,058.48             | 12,772.80             | 11,870.48             | 49.26            | 47.24         | -86.98                | -1,432.83                           | 2,246.49     | 2,899.12               | 2,831.77                | 67.36                     | 43.042            |                                                               |  |                              |  |
| 13,100.00                         | 12,059.79             | 12,872.79             | 11,872.32             | 50.06            | 48.06         | -86.99                | -1,532.80                           | 2,247.46     | 2,899.20               | 2,830.70                | 68.50                     | 42.321            |                                                               |  |                              |  |
| 13,200.00                         | 12,061.11             | 12,972.79             | 11,874.15             | 50.90            | 48.91         | -87.00                | -1,632.78                           | 2,248.44     | 2,899.28               | 2,829.56                | 69.71                     | 41.588            |                                                               |  |                              |  |
| 13,300.00                         | 12,062.43             | 13,072.79             | 11,875.98             | 51.78            | 49.81         | -87.01                | -1,732.76                           | 2,249.42     | 2,899.35               | 2,828.37                | 70.98                     | 40.848            |                                                               |  |                              |  |
| 13,400.00                         | 12,063.74             | 13,172.79             | 11,877.82             | 52.70            | 50.74         | -87.02                | -1,832.73                           | 2,250.40     | 2,899.43               | 2,827.13                | 72.30                     | 40.104            |                                                               |  |                              |  |
| 13,500.00                         | 12,065.06             | 13,272.79             | 11,879.65             | 53.65            | 51.71         | -87.03                | -1,932.71                           | 2,251.38     | 2,899.51               | 2,825.84                | 73.67                     | 39.360            |                                                               |  |                              |  |
| 13,600.00                         | 12,066.37             | 13,372.79             | 11,881.48             | 54.64            | 52.71         | -87.04                | -2,032.69                           | 2,252.36     | 2,899.58               | 2,824.50                | 75.08                     | 38.618            |                                                               |  |                              |  |
| 13,700.00                         | 12,067.69             | 13,472.79             | 11,883.31             | 55.66            | 53.75         | -87.05                | -2,132.67                           | 2,253.34     | 2,899.66               | 2,823.12                | 76.55                     | 37.881            |                                                               |  |                              |  |
| 13,800.00                         | 12,069.01             | 13,572.78             | 11,885.15             | 56.71            | 54.82         | -87.06                | -2,232.64                           | 2,254.32     | 2,899.74               | 2,821.69                | 78.05                     | 37.152            |                                                               |  |                              |  |
| 13,900.00                         | 12,070.32             | 13,672.78             | 11,886.98             | 57.78            | 55.91         | -87.07                | -2,332.62                           | 2,255.30     | 2,899.82               | 2,820.22                | 79.59                     | 36.433            |                                                               |  |                              |  |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 14,000.00                         | 12,071.64             | 13,772.78             | 11,888.81             | 58.89            | 57.03         | -87.08                | -2,432.60                           | 2,256.28     | 2,899.89               | 2,818.72                | 81.18                     | 35.724            |                    |           |
| 14,100.00                         | 12,072.96             | 13,872.78             | 11,890.65             | 60.02            | 58.18         | -87.09                | -2,532.57                           | 2,257.26     | 2,899.97               | 2,817.18                | 82.79                     | 35.026            |                    |           |
| 14,200.00                         | 12,074.27             | 13,972.78             | 11,892.48             | 61.17            | 59.35         | -87.10                | -2,632.55                           | 2,258.24     | 2,900.05               | 2,815.60                | 84.44                     | 34.342            |                    |           |
| 14,300.00                         | 12,075.59             | 14,072.78             | 11,894.31             | 62.34            | 60.54         | -87.11                | -2,732.53                           | 2,259.22     | 2,900.13               | 2,814.00                | 86.13                     | 33.672            |                    |           |
| 14,400.00                         | 12,076.90             | 14,172.78             | 11,896.15             | 63.54            | 61.76         | -87.12                | -2,832.50                           | 2,260.20     | 2,900.21               | 2,812.36                | 87.84                     | 33.017            |                    |           |
| 14,500.00                         | 12,078.22             | 14,272.77             | 11,897.98             | 64.76            | 62.99         | -87.13                | -2,932.48                           | 2,261.18     | 2,900.28               | 2,810.70                | 89.58                     | 32.376            |                    |           |
| 14,600.00                         | 12,079.54             | 14,372.77             | 11,899.81             | 65.99            | 64.24         | -87.14                | -3,032.46                           | 2,262.16     | 2,900.36               | 2,809.01                | 91.35                     | 31.750            |                    |           |
| 14,700.00                         | 12,080.85             | 14,472.77             | 11,901.64             | 67.25            | 65.51         | -87.15                | -3,132.44                           | 2,263.14     | 2,900.44               | 2,807.30                | 93.14                     | 31.140            |                    |           |
| 14,800.00                         | 12,082.17             | 14,572.77             | 11,903.48             | 68.52            | 66.80         | -87.16                | -3,232.41                           | 2,264.12     | 2,900.52               | 2,805.56                | 94.96                     | 30.545            |                    |           |
| 14,900.00                         | 12,083.49             | 14,672.77             | 11,905.31             | 69.80            | 68.10         | -87.17                | -3,332.39                           | 2,265.10     | 2,900.60               | 2,803.80                | 96.80                     | 29.966            |                    |           |
| 15,000.00                         | 12,084.80             | 14,772.77             | 11,907.14             | 71.10            | 69.42         | -87.18                | -3,432.37                           | 2,266.07     | 2,900.67               | 2,802.02                | 98.66                     | 29.402            |                    |           |
| 15,100.00                         | 12,086.12             | 14,872.77             | 11,908.98             | 72.42            | 70.75         | -87.19                | -3,532.34                           | 2,267.05     | 2,900.75               | 2,800.22                | 100.54                    | 28.853            |                    |           |
| 15,200.00                         | 12,087.43             | 14,972.77             | 11,910.81             | 73.75            | 72.10         | -87.20                | -3,632.32                           | 2,268.03     | 2,900.83               | 2,798.40                | 102.43                    | 28.319            |                    |           |
| 15,300.00                         | 12,088.75             | 15,072.76             | 11,912.64             | 75.09            | 73.46         | -87.21                | -3,732.30                           | 2,269.01     | 2,900.91               | 2,796.56                | 104.35                    | 27.800            |                    |           |
| 15,400.00                         | 12,090.07             | 15,172.76             | 11,914.47             | 76.44            | 74.83         | -87.22                | -3,832.27                           | 2,269.99     | 2,900.99               | 2,794.71                | 106.28                    | 27.295            |                    |           |
| 15,500.00                         | 12,091.38             | 15,272.76             | 11,916.31             | 77.81            | 76.21         | -87.23                | -3,932.25                           | 2,270.97     | 2,901.07               | 2,792.84                | 108.23                    | 26.804            |                    |           |
| 15,600.00                         | 12,092.70             | 15,372.76             | 11,918.14             | 79.19            | 77.60         | -87.24                | -4,032.23                           | 2,271.95     | 2,901.15               | 2,790.95                | 110.20                    | 26.327            |                    |           |
| 15,700.00                         | 12,094.02             | 15,472.76             | 11,919.97             | 80.57            | 79.00         | -87.25                | -4,132.21                           | 2,272.93     | 2,901.23               | 2,789.05                | 112.17                    | 25.863            |                    |           |
| 15,800.00                         | 12,095.33             | 15,572.76             | 11,921.81             | 81.97            | 80.41         | -87.26                | -4,232.18                           | 2,273.91     | 2,901.31               | 2,787.14                | 114.17                    | 25.413            |                    |           |
| 15,900.00                         | 12,096.65             | 15,672.76             | 11,923.64             | 83.38            | 81.83         | -87.27                | -4,332.16                           | 2,274.89     | 2,901.38               | 2,785.21                | 116.17                    | 24.975            |                    |           |
| 16,000.00                         | 12,097.97             | 15,772.75             | 11,925.47             | 84.79            | 83.26         | -87.28                | -4,432.14                           | 2,275.87     | 2,901.46               | 2,783.28                | 118.19                    | 24.550            |                    |           |
| 16,100.00                         | 12,099.28             | 15,872.75             | 11,927.31             | 86.21            | 84.70         | -87.29                | -4,532.11                           | 2,276.85     | 2,901.54               | 2,781.33                | 120.22                    | 24.136            |                    |           |
| 16,200.00                         | 12,100.60             | 15,972.75             | 11,929.14             | 87.65            | 86.14         | -87.30                | -4,632.09                           | 2,277.83     | 2,901.62               | 2,779.37                | 122.26                    | 23.734            |                    |           |
| 16,300.00                         | 12,101.91             | 16,072.75             | 11,930.97             | 89.08            | 87.59         | -87.32                | -4,732.07                           | 2,278.81     | 2,901.70               | 2,777.40                | 124.31                    | 23.343            |                    |           |
| 16,400.00                         | 12,103.23             | 16,172.75             | 11,932.80             | 90.53            | 89.05         | -87.33                | -4,832.04                           | 2,279.79     | 2,901.78               | 2,775.42                | 126.37                    | 22.963            |                    |           |
| 16,500.00                         | 12,104.55             | 16,272.75             | 11,934.64             | 91.98            | 90.52         | -87.34                | -4,932.02                           | 2,280.77     | 2,901.86               | 2,773.43                | 128.44                    | 22.594            |                    |           |
| 16,600.00                         | 12,105.86             | 16,372.75             | 11,936.47             | 93.44            | 91.99         | -87.35                | -5,032.00                           | 2,281.75     | 2,901.94               | 2,771.43                | 130.51                    | 22.235            |                    |           |
| 16,700.00                         | 12,107.18             | 16,472.74             | 11,938.30             | 94.91            | 93.47         | -87.36                | -5,131.98                           | 2,282.73     | 2,902.02               | 2,769.42                | 132.60                    | 21.885            |                    |           |
| 16,800.00                         | 12,108.50             | 16,572.74             | 11,940.14             | 96.38            | 94.95         | -87.37                | -5,231.95                           | 2,283.70     | 2,902.10               | 2,767.41                | 134.70                    | 21.546            |                    |           |
| 16,900.00                         | 12,109.81             | 16,672.74             | 11,941.97             | 97.86            | 96.44         | -87.38                | -5,331.93                           | 2,284.68     | 2,902.18               | 2,765.38                | 136.80                    | 21.215            |                    |           |
| 17,000.00                         | 12,111.13             | 16,772.74             | 11,943.80             | 99.34            | 97.94         | -87.39                | -5,431.91                           | 2,285.66     | 2,902.26               | 2,763.35                | 138.91                    | 20.893            |                    |           |
| 17,100.00                         | 12,112.44             | 16,872.74             | 11,945.64             | 100.83           | 99.44         | -87.40                | -5,531.88                           | 2,286.64     | 2,902.34               | 2,761.32                | 141.03                    | 20.580            |                    |           |
| 17,200.00                         | 12,113.76             | 16,972.74             | 11,947.47             | 102.33           | 100.94        | -87.41                | -5,631.86                           | 2,287.62     | 2,902.42               | 2,759.27                | 143.15                    | 20.275            |                    |           |
| 17,300.00                         | 12,115.08             | 17,072.74             | 11,949.30             | 103.83           | 102.45        | -87.42                | -5,731.84                           | 2,288.60     | 2,902.50               | 2,757.22                | 145.28                    | 19.978            |                    |           |
| 17,400.00                         | 12,116.39             | 17,172.73             | 11,951.13             | 105.33           | 103.96        | -87.43                | -5,831.81                           | 2,289.58     | 2,902.59               | 2,755.17                | 147.42                    | 19.689            |                    |           |
| 17,500.00                         | 12,117.71             | 17,272.73             | 11,952.97             | 106.84           | 105.48        | -87.44                | -5,931.79                           | 2,290.56     | 2,902.67               | 2,753.10                | 149.56                    | 19.408            |                    |           |
| 17,600.00                         | 12,119.03             | 17,372.73             | 11,954.80             | 108.35           | 107.00        | -87.45                | -6,031.77                           | 2,291.54     | 2,902.75               | 2,751.04                | 151.71                    | 19.133            |                    |           |
| 17,700.00                         | 12,120.34             | 17,472.73             | 11,956.63             | 109.86           | 108.53        | -87.46                | -6,131.75                           | 2,292.52     | 2,902.83               | 2,748.96                | 153.87                    | 18.866            |                    |           |
| 17,800.00                         | 12,121.66             | 17,572.73             | 11,958.47             | 111.38           | 110.06        | -87.47                | -6,231.72                           | 2,293.50     | 2,902.91               | 2,746.88                | 156.03                    | 18.605            |                    |           |
| 17,900.00                         | 12,122.97             | 17,672.73             | 11,960.30             | 112.91           | 111.59        | -87.48                | -6,331.70                           | 2,294.48     | 2,902.99               | 2,744.80                | 158.19                    | 18.351            |                    |           |
| 18,000.00                         | 12,124.29             | 17,772.73             | 11,962.13             | 114.43           | 113.12        | -87.49                | -6,431.68                           | 2,295.46     | 2,903.07               | 2,742.71                | 160.36                    | 18.103            |                    |           |
| 18,100.00                         | 12,125.61             | 17,872.72             | 11,963.97             | 115.96           | 114.66        | -87.50                | -6,531.65                           | 2,296.44     | 2,903.15               | 2,740.62                | 162.53                    | 17.862            |                    |           |
| 18,200.00                         | 12,126.92             | 17,972.72             | 11,965.80             | 117.50           | 116.21        | -87.51                | -6,631.63                           | 2,297.42     | 2,903.23               | 2,738.52                | 164.71                    | 17.626            |                    |           |
| 18,300.00                         | 12,128.24             | 18,072.72             | 11,967.63             | 119.04           | 117.75        | -87.52                | -6,731.61                           | 2,298.40     | 2,903.32               | 2,736.42                | 166.90                    | 17.396            |                    |           |
| 18,400.00                         | 12,129.56             | 18,172.72             | 11,969.46             | 120.58           | 119.30        | -87.53                | -6,831.58                           | 2,299.38     | 2,903.40               | 2,734.31                | 169.08                    | 17.171            |                    |           |
| 18,500.00                         | 12,130.87             | 18,272.72             | 11,971.30             | 122.12           | 120.85        | -87.54                | -6,931.56                           | 2,300.36     | 2,903.48               | 2,732.21                | 171.27                    | 16.952            |                    |           |
| 18,600.00                         | 12,132.19             | 18,372.72             | 11,973.13             | 123.66           | 122.40        | -87.55                | -7,031.54                           | 2,301.33     | 2,903.56               | 2,730.09                | 173.47                    | 16.738            |                    |           |
| 18,700.00                         | 12,133.50             | 18,472.72             | 11,974.96             | 125.21           | 123.96        | -87.56                | -7,131.52                           | 2,302.31     | 2,903.64               | 2,727.98                | 175.67                    | 16.529            |                    |           |
| 18,800.00                         | 12,134.82             | 18,572.72             | 11,976.80             | 126.76           | 125.52        | -87.57                | -7,231.49                           | 2,303.29     | 2,903.73               | 2,725.86                | 177.87                    | 16.325            |                    |           |
| 18,900.00                         | 12,136.14             | 18,672.71             | 11,978.63             | 128.32           | 127.08        | -87.58                | -7,331.47                           | 2,304.27     | 2,903.81               | 2,723.73                | 180.08                    | 16.125            |                    |           |
| 19,000.00                         | 12,137.45             | 18,772.71             | 11,980.46             | 129.87           | 128.64        | -87.59                | -7,431.45                           | 2,305.25     | 2,903.89               | 2,721.61                | 182.28                    | 15.931            |                    |           |
| 19,100.00                         | 12,138.77             | 18,872.71             | 11,982.30             | 131.43           | 130.21        | -87.60                | -7,531.42                           | 2,306.23     | 2,903.97               | 2,719.48                | 184.50                    | 15.740            |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 19,200.00                         | 12,140.09             | 18,972.71             | 11,984.13             | 132.99           | 131.78        | -87.61                | -7,631.40                           | 2,307.21     | 2,904.05               | 2,717.34                | 186.71                    | 15.554            |                    |           |
| 19,300.00                         | 12,141.40             | 19,072.71             | 11,985.96             | 134.56           | 133.35        | -87.62                | -7,731.38                           | 2,308.19     | 2,904.14               | 2,715.21                | 188.93                    | 15.372            |                    |           |
| 19,400.00                         | 12,142.72             | 19,172.71             | 11,987.79             | 136.12           | 134.92        | -87.63                | -7,831.35                           | 2,309.17     | 2,904.22               | 2,713.07                | 191.15                    | 15.193            |                    |           |
| 19,500.00                         | 12,144.03             | 19,272.71             | 11,989.63             | 137.69           | 136.49        | -87.64                | -7,931.33                           | 2,310.15     | 2,904.30               | 2,710.93                | 193.37                    | 15.019            |                    |           |
| 19,600.00                         | 12,145.35             | 19,372.70             | 11,991.46             | 139.26           | 138.07        | -87.65                | -8,031.31                           | 2,311.13     | 2,904.38               | 2,708.78                | 195.60                    | 14.849            |                    |           |
| 19,700.00                         | 12,146.67             | 19,472.70             | 11,993.29             | 140.83           | 139.64        | -87.66                | -8,131.29                           | 2,312.11     | 2,904.47               | 2,706.64                | 197.83                    | 14.682            |                    |           |
| 19,800.00                         | 12,147.98             | 19,572.70             | 11,995.13             | 142.40           | 141.22        | -87.67                | -8,231.26                           | 2,313.09     | 2,904.55               | 2,704.49                | 200.06                    | 14.518            |                    |           |
| 19,900.00                         | 12,149.30             | 19,672.70             | 11,996.96             | 143.98           | 142.80        | -87.69                | -8,331.24                           | 2,314.07     | 2,904.63               | 2,702.34                | 202.29                    | 14.358            |                    |           |
| 20,000.00                         | 12,150.62             | 19,772.70             | 11,998.79             | 145.55           | 144.39        | -87.70                | -8,431.22                           | 2,315.05     | 2,904.72               | 2,700.19                | 204.53                    | 14.202            |                    |           |
| 20,100.00                         | 12,151.93             | 19,872.70             | 12,000.63             | 147.13           | 145.97        | -87.71                | -8,531.19                           | 2,316.03     | 2,904.80               | 2,698.03                | 206.77                    | 14.049            |                    |           |
| 20,200.00                         | 12,153.25             | 19,972.70             | 12,002.46             | 148.71           | 147.55        | -87.72                | -8,631.17                           | 2,317.01     | 2,904.88               | 2,695.87                | 209.01                    | 13.898            |                    |           |
| 20,300.00                         | 12,154.56             | 20,072.69             | 12,004.29             | 150.29           | 149.14        | -87.73                | -8,731.15                           | 2,317.99     | 2,904.97               | 2,693.71                | 211.25                    | 13.751            |                    |           |
| 20,400.00                         | 12,155.88             | 20,172.69             | 12,006.12             | 151.87           | 150.73        | -87.74                | -8,831.12                           | 2,318.96     | 2,905.05               | 2,691.55                | 213.50                    | 13.607            |                    |           |
| 20,500.00                         | 12,157.20             | 20,272.69             | 12,007.96             | 153.46           | 152.32        | -87.75                | -8,931.10                           | 2,319.94     | 2,905.13               | 2,689.39                | 215.74                    | 13.466            |                    |           |
| 20,600.00                         | 12,158.51             | 20,372.69             | 12,009.79             | 155.04           | 153.91        | -87.76                | -9,031.08                           | 2,320.92     | 2,905.22               | 2,687.23                | 217.99                    | 13.327            |                    |           |
| 20,700.00                         | 12,159.83             | 20,472.69             | 12,011.62             | 156.63           | 155.50        | -87.77                | -9,131.06                           | 2,321.90     | 2,905.30               | 2,685.06                | 220.24                    | 13.191            |                    |           |
| 20,800.00                         | 12,161.15             | 20,572.69             | 12,013.46             | 158.22           | 157.10        | -87.78                | -9,231.03                           | 2,322.88     | 2,905.39               | 2,682.89                | 222.49                    | 13.058            |                    |           |
| 20,900.00                         | 12,162.46             | 20,672.69             | 12,015.29             | 159.81           | 158.69        | -87.79                | -9,331.01                           | 2,323.86     | 2,905.47               | 2,680.72                | 224.75                    | 12.928            |                    |           |
| 21,000.00                         | 12,163.78             | 20,772.68             | 12,017.12             | 161.40           | 160.29        | -87.80                | -9,430.99                           | 2,324.84     | 2,905.55               | 2,678.55                | 227.00                    | 12.800            |                    |           |
| 21,100.00                         | 12,165.10             | 20,872.68             | 12,018.96             | 162.99           | 161.88        | -87.81                | -9,530.96                           | 2,325.82     | 2,905.64               | 2,676.38                | 229.26                    | 12.674            |                    |           |
| 21,200.00                         | 12,166.41             | 20,972.68             | 12,020.79             | 164.58           | 163.48        | -87.82                | -9,630.94                           | 2,326.80     | 2,905.72               | 2,674.20                | 231.52                    | 12.551            |                    |           |
| 21,300.00                         | 12,167.73             | 21,072.68             | 12,022.62             | 166.18           | 165.08        | -87.83                | -9,730.92                           | 2,327.78     | 2,905.81               | 2,672.02                | 233.78                    | 12.430            |                    |           |
| 21,400.00                         | 12,169.04             | 21,172.68             | 12,024.45             | 167.77           | 166.68        | -87.84                | -9,830.90                           | 2,328.76     | 2,905.89               | 2,669.85                | 236.04                    | 12.311            |                    |           |
| 21,500.00                         | 12,170.36             | 21,272.68             | 12,026.29             | 169.37           | 168.28        | -87.85                | -9,930.87                           | 2,329.74     | 2,905.97               | 2,667.67                | 238.31                    | 12.194            |                    |           |
| 21,600.00                         | 12,171.68             | 21,372.68             | 12,028.12             | 170.97           | 169.88        | -87.86                | -10,030.85                          | 2,330.72     | 2,906.06               | 2,665.49                | 240.57                    | 12.080            |                    |           |
| 21,700.00                         | 12,172.99             | 21,472.67             | 12,029.95             | 172.57           | 171.49        | -87.87                | -10,130.83                          | 2,331.70     | 2,906.14               | 2,663.31                | 242.84                    | 11.967            |                    |           |
| 21,800.00                         | 12,174.31             | 21,572.67             | 12,031.79             | 174.17           | 173.09        | -87.88                | -10,230.80                          | 2,332.68     | 2,906.23               | 2,661.12                | 245.11                    | 11.857            |                    |           |
| 21,900.00                         | 12,175.63             | 21,672.67             | 12,033.62             | 175.77           | 174.70        | -87.89                | -10,330.78                          | 2,333.66     | 2,906.31               | 2,658.94                | 247.38                    | 11.749            |                    |           |
| 22,000.00                         | 12,176.94             | 21,772.67             | 12,035.45             | 177.37           | 176.30        | -87.90                | -10,430.76                          | 2,334.64     | 2,906.40               | 2,656.75                | 249.65                    | 11.642            |                    |           |
| 22,100.00                         | 12,178.26             | 21,872.67             | 12,037.29             | 178.97           | 177.91        | -87.91                | -10,530.73                          | 2,335.62     | 2,906.48               | 2,654.57                | 251.92                    | 11.537            |                    |           |
| 22,200.00                         | 12,179.57             | 21,972.67             | 12,039.12             | 180.58           | 179.52        | -87.92                | -10,630.71                          | 2,336.60     | 2,906.57               | 2,652.38                | 254.19                    | 11.435            |                    |           |
| 22,201.59                         | 12,179.59             | 21,974.26             | 12,039.15             | 180.60           | 179.54        | -87.92                | -10,632.30                          | 2,336.61     | 2,906.57               | 2,652.34                | 254.23                    | 11.433            |                    |           |
| 22,300.00                         | 12,180.89             | 22,051.09             | 12,040.56             | 182.18           | 180.78        | -87.93                | -10,709.12                          | 2,337.36     | 2,906.73               | 2,650.59                | 256.14                    | 11.348            |                    |           |
| 22,400.00                         | 12,182.21             | 22,051.09             | 12,040.56             | 183.79           | 180.78        | -87.93                | -10,709.12                          | 2,337.36     | 2,909.28               | 2,652.53                | 256.75                    | 11.331 SF         |                    |           |
| 22,500.00                         | 12,183.52             | 22,051.09             | 12,040.56             | 185.39           | 180.78        | -87.93                | -10,709.12                          | 2,337.36     | 2,915.26               | 2,658.20                | 257.06                    | 11.341            |                    |           |
| 22,600.00                         | 12,184.84             | 22,051.09             | 12,040.56             | 187.00           | 180.78        | -87.93                | -10,709.12                          | 2,337.36     | 2,924.64               | 2,667.58                | 257.07                    | 11.377            |                    |           |
| 22,700.00                         | 12,186.16             | 22,051.09             | 12,040.56             | 188.61           | 180.78        | -87.93                | -10,709.12                          | 2,337.36     | 2,937.40               | 2,680.63                | 256.78                    | 11.439            |                    |           |
| 22,800.00                         | 12,187.47             | 22,051.09             | 12,040.56             | 190.21           | 180.78        | -87.93                | -10,709.12                          | 2,337.36     | 2,953.50               | 2,697.29                | 256.21                    | 11.528            |                    |           |
| 22,900.00                         | 12,188.79             | 22,051.09             | 12,040.56             | 191.82           | 180.78        | -87.93                | -10,709.12                          | 2,337.36     | 2,972.87               | 2,717.49                | 255.38                    | 11.641            |                    |           |
| 23,000.00                         | 12,190.10             | 22,051.09             | 12,040.56             | 193.43           | 180.78        | -87.93                | -10,709.12                          | 2,337.36     | 2,995.46               | 2,741.17                | 254.29                    | 11.780            |                    |           |
| 23,100.00                         | 12,191.42             | 22,051.09             | 12,040.56             | 195.04           | 180.78        | -87.93                | -10,709.12                          | 2,337.36     | 3,021.19               | 2,768.24                | 252.95                    | 11.944            |                    |           |
| 23,200.00                         | 12,192.74             | 22,051.09             | 12,040.56             | 196.66           | 180.78        | -87.93                | -10,709.12                          | 2,337.36     | 3,049.98               | 2,798.59                | 251.40                    | 12.132            |                    |           |
| 23,300.00                         | 12,194.05             | 22,051.09             | 12,040.56             | 198.27           | 180.78        | -87.93                | -10,709.12                          | 2,337.36     | 3,081.75               | 2,832.11                | 249.65                    | 12.345            |                    |           |
| 23,400.00                         | 12,195.37             | 22,051.09             | 12,040.56             | 199.88           | 180.78        | -87.93                | -10,709.12                          | 2,337.36     | 3,116.41               | 2,868.70                | 247.71                    | 12.581            |                    |           |
| 23,500.00                         | 12,196.69             | 22,051.09             | 12,040.56             | 201.49           | 180.78        | -87.93                | -10,709.12                          | 2,337.36     | 3,153.86               | 2,908.24                | 245.62                    | 12.841            |                    |           |
| 23,594.56                         | 12,197.93             | 22,051.09             | 12,040.56             | 203.02           | 180.78        | -87.93                | -10,709.12                          | 2,337.36     | 3,191.75               | 2,948.25                | 243.50                    | 13.108            |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | LHS Wildcat Fed Com - LHS Wildcat Fed Com 705H - OH - Plan #3 |         | 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 |                                                               |         |                    |  |           |  |
| 0.00                              | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | 90.93                 | -39.34                              | 2,423.88     | 2,424.45               |                         |                           |                   |                                                               |         |                    |  |           |  |
| 100.00                            | 100.00                | 65.40                 | 65.40                 | 0.13             | 0.09          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,424.04                | 0.16                      | N/A               |                                                               |         |                    |  |           |  |
| 200.00                            | 200.00                | 165.40                | 165.40                | 0.48             | 0.38          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,423.59                | 0.61                      | 3,955.545         |                                                               |         |                    |  |           |  |
| 300.00                            | 300.00                | 265.40                | 265.40                | 0.84             | 0.73          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,423.08                | 1.12                      | 2,169.004         |                                                               |         |                    |  |           |  |
| 400.00                            | 400.00                | 365.40                | 365.40                | 1.20             | 1.09          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,422.58                | 1.62                      | 1,492.920         |                                                               |         |                    |  |           |  |
| 500.00                            | 500.00                | 465.40                | 465.40                | 1.56             | 1.45          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,422.07                | 2.13                      | 1,137.948         |                                                               |         |                    |  |           |  |
| 600.00                            | 600.00                | 565.40                | 565.40                | 1.92             | 1.81          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,421.56                | 2.64                      | 919.296           |                                                               |         |                    |  |           |  |
| 700.00                            | 700.00                | 665.40                | 665.40                | 2.28             | 2.17          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,421.06                | 3.14                      | 771.106           |                                                               |         |                    |  |           |  |
| 800.00                            | 800.00                | 765.40                | 765.40                | 2.63             | 2.53          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,420.55                | 3.65                      | 664.051           |                                                               |         |                    |  |           |  |
| 900.00                            | 900.00                | 865.40                | 865.40                | 2.99             | 2.89          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,420.04                | 4.16                      | 583.093           |                                                               |         |                    |  |           |  |
| 1,000.00                          | 1,000.00              | 965.40                | 965.40                | 3.35             | 3.24          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,419.53                | 4.66                      | 519.728           |                                                               |         |                    |  |           |  |
| 1,100.00                          | 1,100.00              | 1,065.40              | 1,065.40              | 3.71             | 3.60          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,419.03                | 5.17                      | 468.784           |                                                               |         |                    |  |           |  |
| 1,200.00                          | 1,200.00              | 1,165.40              | 1,165.40              | 4.07             | 3.96          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,418.52                | 5.68                      | 426.934           |                                                               |         |                    |  |           |  |
| 1,300.00                          | 1,300.00              | 1,265.40              | 1,265.40              | 4.43             | 4.32          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,418.01                | 6.19                      | 391.944           |                                                               |         |                    |  |           |  |
| 1,400.00                          | 1,400.00              | 1,365.40              | 1,365.40              | 4.79             | 4.68          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,417.51                | 6.69                      | 362.254           |                                                               |         |                    |  |           |  |
| 1,500.00                          | 1,500.00              | 1,465.40              | 1,465.40              | 5.14             | 5.04          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,417.00                | 7.20                      | 336.745           |                                                               |         |                    |  |           |  |
| 1,600.00                          | 1,600.00              | 1,565.40              | 1,565.40              | 5.50             | 5.39          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,416.49                | 7.71                      | 314.592           |                                                               |         |                    |  |           |  |
| 1,700.00                          | 1,700.00              | 1,665.40              | 1,665.40              | 5.86             | 5.75          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,415.99                | 8.21                      | 295.174           |                                                               |         |                    |  |           |  |
| 1,800.00                          | 1,800.00              | 1,765.40              | 1,765.40              | 6.22             | 6.11          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,415.48                | 8.72                      | 278.014           |                                                               |         |                    |  |           |  |
| 1,900.00                          | 1,900.00              | 1,865.40              | 1,865.40              | 6.58             | 6.47          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,414.97                | 9.23                      | 262.739           |                                                               |         |                    |  |           |  |
| 2,000.00                          | 2,000.00              | 1,965.40              | 1,965.40              | 6.94             | 6.83          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,414.47                | 9.73                      | 249.055           |                                                               |         |                    |  |           |  |
| 2,100.00                          | 2,100.00              | 2,065.40              | 2,065.40              | 7.29             | 7.19          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,413.96                | 10.24                     | 236.726           |                                                               |         |                    |  |           |  |
| 2,200.00                          | 2,200.00              | 2,165.40              | 2,165.40              | 7.65             | 7.55          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,413.45                | 10.75                     | 225.560           |                                                               |         |                    |  |           |  |
| 2,300.00                          | 2,300.00              | 2,265.40              | 2,265.40              | 8.01             | 7.90          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,412.94                | 11.25                     | 215.400           |                                                               |         |                    |  |           |  |
| 2,400.00                          | 2,400.00              | 2,365.40              | 2,365.40              | 8.37             | 8.26          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,412.44                | 11.76                     | 206.116           |                                                               |         |                    |  |           |  |
| 2,500.00                          | 2,500.00              | 2,465.40              | 2,465.40              | 8.73             | 8.62          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,411.93                | 12.27                     | 197.599           |                                                               |         |                    |  |           |  |
| 2,600.00                          | 2,600.00              | 2,565.40              | 2,565.40              | 9.09             | 8.98          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,411.42                | 12.78                     | 189.758           |                                                               |         |                    |  |           |  |
| 2,688.00                          | 2,688.00              | 2,653.40              | 2,653.40              | 9.40             | 9.29          | 90.93                 | -39.34                              | 2,423.88     | 2,424.20               | 2,410.98                | 13.22                     | 183.355 CC        |                                                               |         |                    |  |           |  |
| 2,700.00                          | 2,700.00              | 2,665.40              | 2,665.40              | 9.44             | 9.34          | -153.29               | -39.34                              | 2,423.88     | 2,424.22               | 2,410.94                | 13.28                     | 182.532 ES        |                                                               |         |                    |  |           |  |
| 2,800.00                          | 2,799.98              | 2,765.38              | 2,765.38              | 9.78             | 9.70          | -153.30               | -39.34                              | 2,423.88     | 2,425.67               | 2,411.90                | 13.77                     | 176.160           |                                                               |         |                    |  |           |  |
| 2,900.00                          | 2,899.89              | 2,865.29              | 2,865.29              | 10.11            | 10.05         | -153.32               | -39.34                              | 2,423.88     | 2,429.45               | 2,415.20                | 14.26                     | 170.376           |                                                               |         |                    |  |           |  |
| 3,000.00                          | 2,999.65              | 2,965.05              | 2,965.05              | 10.45            | 10.41         | -153.35               | -39.34                              | 2,423.88     | 2,435.58               | 2,420.83                | 14.75                     | 165.128           |                                                               |         |                    |  |           |  |
| 3,100.00                          | 3,099.20              | 3,064.60              | 3,064.60              | 10.79            | 10.77         | -153.39               | -39.34                              | 2,423.88     | 2,444.05               | 2,428.81                | 15.24                     | 160.368           |                                                               |         |                    |  |           |  |
| 3,200.00                          | 3,198.47              | 3,163.87              | 3,163.87              | 11.14            | 11.12         | -153.44               | -39.34                              | 2,423.88     | 2,454.85               | 2,439.12                | 15.73                     | 156.051           |                                                               |         |                    |  |           |  |
| 3,281.62                          | 3,279.24              | 3,244.64              | 3,244.64              | 11.43            | 11.41         | -153.49               | -39.34                              | 2,423.88     | 2,465.41               | 2,449.28                | 16.13                     | 152.828           |                                                               |         |                    |  |           |  |
| 3,300.00                          | 3,297.39              | 3,262.79              | 3,262.79              | 11.49            | 11.48         | -153.52               | -39.34                              | 2,423.88     | 2,467.96               | 2,451.74                | 16.22                     | 152.132           |                                                               |         |                    |  |           |  |
| 3,400.00                          | 3,396.19              | 3,361.59              | 3,361.59              | 11.85            | 11.83         | -153.68               | -39.34                              | 2,423.88     | 2,481.86               | 2,465.14                | 16.71                     | 148.491           |                                                               |         |                    |  |           |  |
| 3,500.00                          | 3,494.98              | 3,460.38              | 3,460.38              | 12.22            | 12.19         | -153.84               | -39.34                              | 2,423.88     | 2,495.77               | 2,478.57                | 17.21                     | 145.043           |                                                               |         |                    |  |           |  |
| 3,600.00                          | 3,593.78              | 3,559.18              | 3,559.18              | 12.59            | 12.54         | -153.99               | -39.34                              | 2,423.88     | 2,509.71               | 2,492.01                | 17.70                     | 141.774           |                                                               |         |                    |  |           |  |
| 3,700.00                          | 3,692.57              | 3,657.97              | 3,657.97              | 12.96            | 12.90         | -154.15               | -39.34                              | 2,423.88     | 2,523.66               | 2,505.46                | 18.20                     | 138.673           |                                                               |         |                    |  |           |  |
| 3,800.00                          | 3,791.37              | 3,756.77              | 3,756.77              | 13.34            | 13.25         | -154.30               | -39.34                              | 2,423.88     | 2,537.63               | 2,518.93                | 18.70                     | 135.727           |                                                               |         |                    |  |           |  |
| 3,900.00                          | 3,890.16              | 3,855.56              | 3,855.56              | 13.72            | 13.60         | -154.45               | -39.34                              | 2,423.88     | 2,551.62               | 2,532.42                | 19.20                     | 132.926           |                                                               |         |                    |  |           |  |
| 4,000.00                          | 3,988.96              | 3,954.36              | 3,954.36              | 14.10            | 13.96         | -154.60               | -39.34                              | 2,423.88     | 2,565.62               | 2,545.93                | 19.70                     | 130.260           |                                                               |         |                    |  |           |  |
| 4,100.00                          | 4,087.75              | 4,053.15              | 4,053.15              | 14.49            | 14.31         | -154.75               | -39.34                              | 2,423.88     | 2,579.64               | 2,559.45                | 20.20                     | 127.720           |                                                               |         |                    |  |           |  |
| 4,200.00                          | 4,186.55              | 4,151.95              | 4,151.95              | 14.88            | 14.67         | -154.89               | -39.34                              | 2,423.88     | 2,593.68               | 2,572.98                | 20.70                     | 125.298           |                                                               |         |                    |  |           |  |
| 4,300.00                          | 4,285.34              | 4,250.74              | 4,250.74              | 15.27            | 15.02         | -155.04               | -39.34                              | 2,423.88     | 2,607.74               | 2,586.53                | 21.20                     | 122.986           |                                                               |         |                    |  |           |  |
| 4,400.00                          | 4,384.13              | 4,349.53              | 4,349.53              | 15.67            | 15.37         | -155.18               | -39.34                              | 2,423.88     | 2,621.81               | 2,600.10                | 21.71                     | 120.778           |                                                               |         |                    |  |           |  |
| 4,500.00                          | 4,482.93              | 4,448.33              | 4,448.33              | 16.06            | 15.73         | -155.32               | -39.34                              | 2,423.88     | 2,635.89               | 2,613.68                | 22.21                     | 118.667           |                                                               |         |                    |  |           |  |
| 4,600.00                          | 4,581.72              | 4,535.51              | 4,535.51              | 16.46            | 16.04         | -155.44               | -39.48                              | 2,423.96     | 2,650.10               | 2,627.42                | 22.68                     | 116.836           |                                                               |         |                    |  |           |  |
| 4,700.00                          | 4,680.52              | 4,600.00              | 4,599.99              | 16.86            | 16.26         | -155.51               | -40.48                              | 2,424.53     | 2,665.12               | 2,642.04                | 23.08                     | 115.449           |                                                               |         |                    |  |           |  |
| 4,800.00                          | 4,779.31              | 4,684.19              | 4,684.12              | 17.27            | 16.53         | -155.56               | -43.20                              | 2,426.07     | 2,681.01               | 2,657.48                | 23.53                     | 113.942           |                                                               |         |                    |  |           |  |
| 4,900.00                          | 4,878.11              | 4,758.31              | 4,758.11              | 17.67            | 16.77         | -155.59               | -46.93                              | 2,428.20     | 2,697.81               | 2,673.87                | 23.95                     | 112.655           |                                                               |         |                    |  |           |  |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design LHS Wildcat Fed Com - LHS Wildcat Fed Com 705H - OH - Plan #3 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | 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 |                    |           |
| 5,000.00                                                                    | 4,976.90              | 4,832.20              | 4,831.78              | 18.08            | 17.01         | -155.58               | -51.89                              | 2,431.02     | 2,715.52               | 2,691.15                | 24.36                     | 111.456           |                    |           |
| 5,100.00                                                                    | 5,075.70              | 4,900.00              | 4,899.27              | 18.49            | 17.24         | -155.55               | -57.53                              | 2,434.22     | 2,734.12               | 2,709.36                | 24.76                     | 110.415           |                    |           |
| 5,200.00                                                                    | 5,174.49              | 4,983.31              | 4,982.03              | 18.90            | 17.51         | -155.48               | -65.85                              | 2,438.96     | 2,753.58               | 2,728.37                | 25.21                     | 109.246           |                    |           |
| 5,300.00                                                                    | 5,273.29              | 5,081.24              | 5,079.23              | 19.31            | 17.84         | -155.39               | -76.23                              | 2,444.85     | 2,773.36               | 2,747.66                | 25.69                     | 107.940           |                    |           |
| 5,400.00                                                                    | 5,372.08              | 5,179.18              | 5,176.43              | 19.72            | 18.17         | -155.30               | -86.60                              | 2,450.75     | 2,793.14               | 2,766.96                | 26.18                     | 106.673           |                    |           |
| 5,500.00                                                                    | 5,470.88              | 5,277.11              | 5,273.63              | 20.13            | 18.50         | -155.22               | -96.98                              | 2,456.65     | 2,812.94               | 2,786.26                | 26.68                     | 105.443           |                    |           |
| 5,600.00                                                                    | 5,569.67              | 5,375.04              | 5,370.84              | 20.54            | 18.83         | -155.13               | -107.35                             | 2,462.55     | 2,832.74               | 2,805.56                | 27.17                     | 104.249           |                    |           |
| 5,700.00                                                                    | 5,668.47              | 5,472.97              | 5,468.04              | 20.96            | 19.17         | -155.05               | -117.73                             | 2,468.45     | 2,852.54               | 2,824.87                | 27.67                     | 103.091           |                    |           |
| 5,800.00                                                                    | 5,767.26              | 5,570.90              | 5,565.24              | 21.38            | 19.51         | -154.96               | -128.10                             | 2,474.35     | 2,872.35               | 2,844.18                | 28.17                     | 101.966           |                    |           |
| 5,900.00                                                                    | 5,866.06              | 5,668.84              | 5,662.44              | 21.79            | 19.85         | -154.88               | -138.48                             | 2,480.25     | 2,892.17               | 2,863.50                | 28.67                     | 100.874           |                    |           |
| 6,000.00                                                                    | 5,964.85              | 5,766.77              | 5,759.64              | 22.21            | 20.20         | -154.80               | -148.85                             | 2,486.15     | 2,911.99               | 2,882.81                | 29.17                     | 99.813            |                    |           |
| 6,100.00                                                                    | 6,063.65              | 5,864.70              | 5,856.85              | 22.63            | 20.54         | -154.72               | -159.23                             | 2,492.05     | 2,931.82               | 2,902.14                | 29.68                     | 98.783            |                    |           |
| 6,200.00                                                                    | 6,162.44              | 5,962.63              | 5,954.05              | 23.05            | 20.89         | -154.64               | -169.60                             | 2,497.95     | 2,951.65               | 2,921.46                | 30.19                     | 97.783            |                    |           |
| 6,300.00                                                                    | 6,261.24              | 6,060.56              | 6,051.25              | 23.47            | 21.24         | -154.56               | -179.98                             | 2,503.85     | 2,971.49               | 2,940.79                | 30.69                     | 96.810            |                    |           |
| 6,400.00                                                                    | 6,360.03              | 6,158.50              | 6,148.45              | 23.89            | 21.59         | -154.48               | -190.35                             | 2,509.74     | 2,991.33               | 2,960.13                | 31.20                     | 95.865            |                    |           |
| 6,500.00                                                                    | 6,458.83              | 6,256.43              | 6,245.65              | 24.31            | 21.95         | -154.41               | -200.73                             | 2,515.64     | 3,011.18               | 2,979.47                | 31.71                     | 94.946            |                    |           |
| 6,600.00                                                                    | 6,557.62              | 6,354.36              | 6,342.86              | 24.73            | 22.30         | -154.33               | -211.10                             | 2,521.54     | 3,031.03               | 2,998.81                | 32.23                     | 94.052            |                    |           |
| 6,700.00                                                                    | 6,656.42              | 6,452.29              | 6,440.06              | 25.15            | 22.66         | -154.26               | -221.48                             | 2,527.44     | 3,050.89               | 3,018.15                | 32.74                     | 93.183            |                    |           |
| 6,800.00                                                                    | 6,755.21              | 6,550.22              | 6,537.26              | 25.57            | 23.02         | -154.18               | -231.85                             | 2,533.34     | 3,070.76               | 3,037.50                | 33.26                     | 92.337            |                    |           |
| 6,900.00                                                                    | 6,854.01              | 6,648.16              | 6,634.46              | 26.00            | 23.38         | -154.11               | -242.23                             | 2,539.24     | 3,090.63               | 3,056.85                | 33.77                     | 91.514            |                    |           |
| 7,000.00                                                                    | 6,952.80              | 6,746.09              | 6,731.67              | 26.42            | 23.74         | -154.04               | -252.60                             | 2,545.14     | 3,110.50               | 3,076.21                | 34.29                     | 90.713            |                    |           |
| 7,100.00                                                                    | 7,051.59              | 6,844.02              | 6,828.87              | 26.85            | 24.10         | -153.97               | -262.98                             | 2,551.04     | 3,130.38               | 3,095.57                | 34.81                     | 89.933            |                    |           |
| 7,200.00                                                                    | 7,150.39              | 6,942.41              | 6,926.40              | 27.27            | 24.47         | -153.91               | -273.37                             | 2,556.94     | 3,149.27               | 3,113.73                | 35.34                     | 89.166            |                    |           |
| 7,300.00                                                                    | 7,249.18              | 7,040.80              | 7,024.39              | 27.70            | 24.84         | -153.85               | -283.76                             | 2,562.84     | 3,168.16               | 3,132.88                | 35.87                     | 88.411            |                    |           |
| 7,400.00                                                                    | 7,347.98              | 7,139.19              | 7,122.38              | 28.12            | 25.21         | -153.79               | -294.15                             | 2,568.74     | 3,187.05               | 3,151.82                | 36.40                     | 87.666            |                    |           |
| 7,411.16                                                                    | 7,359.00              | 7,340.74              | 7,324.40              | 28.17            | 25.87         | -154.13               | -288.01                             | 2,565.27     | 3,182.30               | 3,145.32                | 36.98                     | 86.052            |                    |           |
| 7,500.00                                                                    | 7,446.93              | 7,428.66              | 7,412.33              | 28.54            | 26.18         | -154.30               | -288.01                             | 2,565.27     | 3,193.79               | 3,156.36                | 37.43                     | 85.321            |                    |           |
| 7,600.00                                                                    | 7,546.22              | 7,527.95              | 7,511.62              | 28.94            | 26.52         | -154.46               | -288.01                             | 2,565.27     | 3,204.51               | 3,166.57                | 37.94                     | 84.467            |                    |           |
| 7,700.00                                                                    | 7,645.78              | 7,627.51              | 7,611.18              | 29.33            | 26.87         | -154.59               | -288.01                             | 2,565.27     | 3,212.89               | 3,174.45                | 38.44                     | 83.580            |                    |           |
| 7,800.00                                                                    | 7,745.56              | 7,727.29              | 7,710.96              | 29.70            | 27.21         | -154.68               | -288.01                             | 2,565.27     | 3,218.92               | 3,179.98                | 38.94                     | 82.661            |                    |           |
| 7,900.00                                                                    | 7,845.47              | 7,827.20              | 7,810.87              | 30.05            | 27.56         | -154.73               | -288.01                             | 2,565.27     | 3,222.58               | 3,183.14                | 39.44                     | 81.714            |                    |           |
| 8,004.78                                                                    | 7,950.24              | 7,931.97              | 7,915.64              | 30.40            | 27.93         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,183.93                | 39.95                     | 80.699            |                    |           |
| 8,100.00                                                                    | 8,045.46              | 8,027.19              | 8,010.86              | 30.70            | 28.26         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,183.47                | 40.41                     | 79.781            |                    |           |
| 8,200.00                                                                    | 8,145.46              | 8,127.19              | 8,110.86              | 31.02            | 28.61         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,182.99                | 40.89                     | 78.837            |                    |           |
| 8,300.00                                                                    | 8,245.46              | 8,227.19              | 8,210.86              | 31.34            | 28.96         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,182.50                | 41.38                     | 77.915            |                    |           |
| 8,400.00                                                                    | 8,345.46              | 8,327.19              | 8,310.86              | 31.66            | 29.31         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,182.02                | 41.86                     | 77.012            |                    |           |
| 8,500.00                                                                    | 8,445.46              | 8,427.19              | 8,410.86              | 31.98            | 29.66         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,181.53                | 42.35                     | 76.130            |                    |           |
| 8,600.00                                                                    | 8,545.46              | 8,527.19              | 8,510.86              | 32.31            | 30.01         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,181.05                | 42.83                     | 75.266            |                    |           |
| 8,700.00                                                                    | 8,645.46              | 8,627.19              | 8,610.86              | 32.63            | 30.36         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,180.56                | 43.32                     | 74.422            |                    |           |
| 8,800.00                                                                    | 8,745.46              | 8,727.19              | 8,710.86              | 32.96            | 30.71         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,180.07                | 43.81                     | 73.595            |                    |           |
| 8,900.00                                                                    | 8,845.46              | 8,827.19              | 8,810.86              | 33.28            | 31.06         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,179.59                | 44.29                     | 72.785            |                    |           |
| 9,000.00                                                                    | 8,945.46              | 8,927.19              | 8,910.86              | 33.61            | 31.41         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,179.10                | 44.78                     | 71.993            |                    |           |
| 9,100.00                                                                    | 9,045.46              | 9,027.19              | 9,010.86              | 33.93            | 31.76         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,178.61                | 45.27                     | 71.216            |                    |           |
| 9,200.00                                                                    | 9,145.46              | 9,127.19              | 9,110.86              | 34.26            | 32.11         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,178.12                | 45.76                     | 70.456            |                    |           |
| 9,300.00                                                                    | 9,245.46              | 9,227.19              | 9,210.86              | 34.59            | 32.46         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,177.63                | 46.25                     | 69.711            |                    |           |
| 9,400.00                                                                    | 9,345.46              | 9,327.19              | 9,310.86              | 34.92            | 32.81         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,177.14                | 46.74                     | 68.982            |                    |           |
| 9,500.00                                                                    | 9,445.46              | 9,427.19              | 9,410.86              | 35.24            | 33.17         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,176.66                | 47.22                     | 68.266            |                    |           |
| 9,600.00                                                                    | 9,545.46              | 9,527.19              | 9,510.86              | 35.57            | 33.52         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,176.17                | 47.71                     | 67.565            |                    |           |
| 9,700.00                                                                    | 9,645.46              | 9,627.19              | 9,610.86              | 35.90            | 33.87         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,175.67                | 48.21                     | 66.878            |                    |           |
| 9,800.00                                                                    | 9,745.46              | 9,727.19              | 9,710.86              | 36.23            | 34.22         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,175.18                | 48.70                     | 66.204            |                    |           |
| 9,900.00                                                                    | 9,845.46              | 9,827.19              | 9,810.86              | 36.57            | 34.57         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,174.69                | 49.19                     | 65.543            |                    |           |
| 10,000.00                                                                   | 9,945.46              | 9,927.19              | 9,910.86              | 36.90            | 34.93         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,174.20                | 49.68                     | 64.895            |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 10,100.00                         | 10,045.46             | 10,027.19             | 10,010.86             | 37.23            | 35.28         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,173.71                | 50.17                     | 64.259            |                    |           |
| 10,200.00                         | 10,145.46             | 10,127.19             | 10,110.86             | 37.56            | 35.63         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,173.22                | 50.66                     | 63.635            |                    |           |
| 10,300.00                         | 10,245.46             | 10,227.19             | 10,210.86             | 37.89            | 35.98         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,172.73                | 51.15                     | 63.023            |                    |           |
| 10,400.00                         | 10,345.46             | 10,327.19             | 10,310.86             | 38.23            | 36.34         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,172.23                | 51.65                     | 62.422            |                    |           |
| 10,500.00                         | 10,445.46             | 10,427.19             | 10,410.86             | 38.56            | 36.69         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,171.74                | 52.14                     | 61.832            |                    |           |
| 10,600.00                         | 10,545.46             | 10,527.19             | 10,510.86             | 38.90            | 37.04         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,171.25                | 52.63                     | 61.253            |                    |           |
| 10,700.00                         | 10,645.46             | 10,627.19             | 10,610.86             | 39.23            | 37.40         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,170.75                | 53.13                     | 60.684            |                    |           |
| 10,800.00                         | 10,745.46             | 10,727.19             | 10,710.86             | 39.57            | 37.75         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,170.26                | 53.62                     | 60.125            |                    |           |
| 10,900.00                         | 10,845.46             | 10,827.19             | 10,810.86             | 39.90            | 38.10         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,169.77                | 54.11                     | 59.577            |                    |           |
| 11,000.00                         | 10,945.46             | 10,927.19             | 10,910.86             | 40.24            | 38.45         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,169.27                | 54.61                     | 59.038            |                    |           |
| 11,100.00                         | 11,045.46             | 11,027.19             | 11,010.86             | 40.57            | 38.81         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,168.78                | 55.10                     | 58.508            |                    |           |
| 11,200.00                         | 11,145.46             | 11,127.19             | 11,110.86             | 40.91            | 39.16         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,168.28                | 55.60                     | 57.988            |                    |           |
| 11,300.00                         | 11,245.46             | 11,227.19             | 11,210.86             | 41.25            | 39.52         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,167.79                | 56.09                     | 57.476            |                    |           |
| 11,400.00                         | 11,345.46             | 11,327.19             | 11,310.86             | 41.59            | 39.87         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,167.29                | 56.59                     | 56.973            |                    |           |
| 11,500.00                         | 11,445.46             | 11,427.19             | 11,410.86             | 41.92            | 40.22         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,166.80                | 57.08                     | 56.479            |                    |           |
| 11,532.54                         | 11,478.00             | 11,459.73             | 11,443.40             | 42.03            | 40.34         | 89.47                 | -288.01                             | 2,565.27     | 3,223.88               | 3,166.64                | 57.24                     | 56.320            |                    |           |
| 11,550.00                         | 11,495.46             | 11,477.19             | 11,460.86             | 42.09            | 40.40         | -90.04                | -288.01                             | 2,565.27     | 3,223.88               | 3,166.55                | 57.33                     | 56.236            |                    |           |
| 11,600.00                         | 11,545.30             | 11,527.10             | 11,510.76             | 42.26            | 40.58         | -90.10                | -288.23                             | 2,565.27     | 3,223.88               | 3,166.31                | 57.57                     | 55.996            |                    |           |
| 11,650.00                         | 11,594.64             | 11,577.29             | 11,560.81             | 42.43            | 40.75         | -90.18                | -291.80                             | 2,565.31     | 3,223.90               | 3,166.08                | 57.82                     | 55.754            |                    |           |
| 11,700.00                         | 11,643.08             | 11,627.88             | 11,610.75             | 42.61            | 40.93         | -90.26                | -299.82                             | 2,565.39     | 3,223.92               | 3,165.85                | 58.08                     | 55.509            |                    |           |
| 11,750.00                         | 11,690.27             | 11,678.88             | 11,660.17             | 42.79            | 41.11         | -90.33                | -312.33                             | 2,565.51     | 3,223.96               | 3,165.62                | 58.34                     | 55.259            |                    |           |
| 11,800.00                         | 11,735.85             | 11,730.29             | 11,708.66             | 42.97            | 41.30         | -90.41                | -329.34                             | 2,565.67     | 3,224.00               | 3,165.39                | 58.61                     | 55.005            |                    |           |
| 11,850.00                         | 11,779.46             | 11,782.10             | 11,755.80             | 43.15            | 41.49         | -90.48                | -350.81                             | 2,565.89     | 3,224.06               | 3,165.17                | 58.89                     | 54.746            |                    |           |
| 11,900.00                         | 11,820.78             | 11,834.32             | 11,801.15             | 43.34            | 41.69         | -90.54                | -376.66                             | 2,566.14     | 3,224.12               | 3,164.94                | 59.18                     | 54.483            |                    |           |
| 11,950.00                         | 11,859.49             | 11,886.92             | 11,844.26             | 43.52            | 41.89         | -90.61                | -406.76                             | 2,566.43     | 3,224.19               | 3,164.72                | 59.47                     | 54.216            |                    |           |
| 12,000.00                         | 11,895.30             | 11,939.90             | 11,884.71             | 43.71            | 42.10         | -90.67                | -440.95                             | 2,566.77     | 3,224.26               | 3,164.49                | 59.77                     | 53.944            |                    |           |
| 12,050.00                         | 11,927.93             | 11,993.23             | 11,922.06             | 43.90            | 42.32         | -90.72                | -478.99                             | 2,567.14     | 3,224.34               | 3,164.26                | 60.08                     | 53.667            |                    |           |
| 12,100.00                         | 11,957.13             | 12,046.90             | 11,955.91             | 44.09            | 42.54         | -90.77                | -520.60                             | 2,567.55     | 3,224.42               | 3,164.01                | 60.40                     | 53.384            |                    |           |
| 12,150.00                         | 11,982.69             | 12,100.86             | 11,985.88             | 44.29            | 42.77         | -90.81                | -565.46                             | 2,567.99     | 3,224.49               | 3,163.76                | 60.73                     | 53.096            |                    |           |
| 12,200.00                         | 12,004.41             | 12,155.10             | 12,011.61             | 44.50            | 43.02         | -90.85                | -613.17                             | 2,568.45     | 3,224.57               | 3,163.50                | 61.07                     | 52.801            |                    |           |
| 12,250.00                         | 12,022.12             | 12,209.56             | 12,032.80             | 44.72            | 43.26         | -90.88                | -663.32                             | 2,568.95     | 3,224.65               | 3,163.23                | 61.42                     | 52.502            |                    |           |
| 12,300.00                         | 12,035.70             | 12,264.21             | 12,049.17             | 44.95            | 43.52         | -90.90                | -715.44                             | 2,569.46     | 3,224.72               | 3,162.94                | 61.78                     | 52.200            |                    |           |
| 12,350.00                         | 12,045.02             | 12,319.01             | 12,060.54             | 45.18            | 43.78         | -90.91                | -769.02                             | 2,569.98     | 3,224.79               | 3,162.65                | 62.14                     | 51.894            |                    |           |
| 12,400.00                         | 12,050.03             | 12,373.90             | 12,066.74             | 45.42            | 44.05         | -90.92                | -823.54                             | 2,570.51     | 3,224.85               | 3,162.34                | 62.51                     | 51.589            |                    |           |
| 12,425.00                         | 12,050.91             | 12,401.37             | 12,067.87             | 45.55            | 44.18         | -90.92                | -850.98                             | 2,570.78     | 3,224.88               | 3,162.18                | 62.70                     | 51.437            |                    |           |
| 12,500.00                         | 12,051.90             | 12,476.26             | 12,069.34             | 45.94            | 44.57         | -90.93                | -925.85                             | 2,571.52     | 3,224.96               | 3,161.71                | 63.25                     | 50.987            |                    |           |
| 12,600.00                         | 12,053.21             | 12,576.26             | 12,071.29             | 46.50            | 45.13         | -90.94                | -1,025.82                           | 2,572.50     | 3,225.08               | 3,161.02                | 64.05                     | 50.349            |                    |           |
| 12,700.00                         | 12,054.53             | 12,676.25             | 12,073.25             | 47.12            | 45.74         | -90.95                | -1,125.80                           | 2,573.48     | 3,225.19               | 3,160.26                | 64.93                     | 49.671            |                    |           |
| 12,800.00                         | 12,055.84             | 12,776.25             | 12,075.20             | 47.78            | 46.40         | -90.96                | -1,225.77                           | 2,574.45     | 3,225.31               | 3,159.43                | 65.88                     | 48.957            |                    |           |
| 12,900.00                         | 12,057.16             | 12,876.25             | 12,077.16             | 48.50            | 47.11         | -90.97                | -1,325.74                           | 2,575.43     | 3,225.42               | 3,158.52                | 66.90                     | 48.214            |                    |           |
| 13,000.00                         | 12,058.48             | 12,976.25             | 12,079.11             | 49.26            | 47.86         | -90.98                | -1,425.72                           | 2,576.41     | 3,225.54               | 3,157.56                | 67.98                     | 47.448            |                    |           |
| 13,100.00                         | 12,059.79             | 13,076.25             | 12,081.07             | 50.06            | 48.67         | -90.99                | -1,525.69                           | 2,577.39     | 3,225.65               | 3,156.53                | 69.12                     | 46.664            |                    |           |
| 13,200.00                         | 12,061.11             | 13,176.24             | 12,083.02             | 50.90            | 49.51         | -91.00                | -1,625.67                           | 2,578.37     | 3,225.77               | 3,155.44                | 70.33                     | 45.868            |                    |           |
| 13,300.00                         | 12,062.43             | 13,276.24             | 12,084.98             | 51.78            | 50.39         | -91.02                | -1,725.64                           | 2,579.35     | 3,225.88               | 3,154.29                | 71.59                     | 45.062            |                    |           |
| 13,400.00                         | 12,063.74             | 13,376.24             | 12,086.93             | 52.70            | 51.31         | -91.03                | -1,825.61                           | 2,580.33     | 3,226.00               | 3,153.10                | 72.90                     | 44.252            |                    |           |
| 13,500.00                         | 12,065.06             | 13,476.24             | 12,088.89             | 53.65            | 52.27         | -91.04                | -1,925.59                           | 2,581.31     | 3,226.11               | 3,151.85                | 74.26                     | 43.442            |                    |           |
| 13,600.00                         | 12,066.37             | 13,576.24             | 12,090.84             | 54.64            | 53.26         | -91.05                | -2,025.56                           | 2,582.29     | 3,226.23               | 3,150.55                | 75.67                     | 42.634            |                    |           |
| 13,700.00                         | 12,067.69             | 13,676.23             | 12,092.80             | 55.66            | 54.28         | -91.06                | -2,125.54                           | 2,583.27     | 3,226.34               | 3,149.21                | 77.13                     | 41.831            |                    |           |
| 13,800.00                         | 12,069.01             | 13,776.23             | 12,094.75             | 56.71            | 55.34         | -91.07                | -2,225.51                           | 2,584.25     | 3,226.46               | 3,147.83                | 78.63                     | 41.035            |                    |           |
| 13,900.00                         | 12,070.32             | 13,876.23             | 12,096.71             | 57.78            | 56.42         | -91.08                | -2,325.48                           | 2,585.22     | 3,226.57               | 3,146.41                | 80.17                     | 40.249            |                    |           |
| 14,000.00                         | 12,071.64             | 13,976.23             | 12,098.66             | 58.89            | 57.53         | -91.10                | -2,425.46                           | 2,586.20     | 3,226.69               | 3,144.95                | 81.74                     | 39.474            |                    |           |
| 14,100.00                         | 12,072.96             | 14,076.23             | 12,100.62             | 60.02            | 58.67         | -91.11                | -2,525.43                           | 2,587.18     | 3,226.81               | 3,143.45                | 83.35                     | 38.712            |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 14,200.00                         | 12,074.27             | 14,176.22             | 12,102.57             | 61.17            | 59.83         | -91.12                | -2,625.41                           | 2,588.16     | 3,226.92               | 3,141.92                | 85.00                     | 37.964            |                    |           |
| 14,300.00                         | 12,075.59             | 14,276.22             | 12,104.53             | 62.34            | 61.01         | -91.13                | -2,725.38                           | 2,589.14     | 3,227.04               | 3,140.36                | 86.68                     | 37.231            |                    |           |
| 14,400.00                         | 12,076.90             | 14,376.22             | 12,106.48             | 63.54            | 62.21         | -91.14                | -2,825.35                           | 2,590.12     | 3,227.15               | 3,138.77                | 88.38                     | 36.513            |                    |           |
| 14,500.00                         | 12,078.22             | 14,476.22             | 12,108.44             | 64.76            | 63.43         | -91.15                | -2,925.33                           | 2,591.10     | 3,227.27               | 3,137.15                | 90.12                     | 35.811            |                    |           |
| 14,600.00                         | 12,079.54             | 14,576.21             | 12,110.39             | 65.99            | 64.68         | -91.16                | -3,025.30                           | 2,592.08     | 3,227.39               | 3,135.51                | 91.88                     | 35.126            |                    |           |
| 14,700.00                         | 12,080.85             | 14,676.21             | 12,112.35             | 67.25            | 65.94         | -91.17                | -3,125.28                           | 2,593.06     | 3,227.50               | 3,133.84                | 93.67                     | 34.457            |                    |           |
| 14,800.00                         | 12,082.17             | 14,776.21             | 12,114.30             | 68.52            | 67.22         | -91.19                | -3,225.25                           | 2,594.04     | 3,227.62               | 3,132.14                | 95.48                     | 33.805            |                    |           |
| 14,900.00                         | 12,083.49             | 14,876.21             | 12,116.26             | 69.80            | 68.51         | -91.20                | -3,325.22                           | 2,595.02     | 3,227.74               | 3,130.43                | 97.31                     | 33.169            |                    |           |
| 15,000.00                         | 12,084.80             | 14,976.21             | 12,118.21             | 71.10            | 69.82         | -91.21                | -3,425.20                           | 2,595.99     | 3,227.85               | 3,128.69                | 99.17                     | 32.550            |                    |           |
| 15,100.00                         | 12,086.12             | 15,076.20             | 12,120.17             | 72.42            | 71.14         | -91.22                | -3,525.17                           | 2,596.97     | 3,227.97               | 3,126.93                | 101.04                    | 31.947            |                    |           |
| 15,200.00                         | 12,087.43             | 15,176.20             | 12,122.12             | 73.75            | 72.48         | -91.23                | -3,625.15                           | 2,597.95     | 3,228.09               | 3,125.16                | 102.93                    | 31.361            |                    |           |
| 15,300.00                         | 12,088.75             | 15,276.20             | 12,124.08             | 75.09            | 73.83         | -91.24                | -3,725.12                           | 2,598.93     | 3,228.21               | 3,123.36                | 104.85                    | 30.790            |                    |           |
| 15,400.00                         | 12,090.07             | 15,376.20             | 12,126.03             | 76.44            | 75.19         | -91.25                | -3,825.09                           | 2,599.91     | 3,228.32               | 3,121.55                | 106.77                    | 30.235            |                    |           |
| 15,500.00                         | 12,091.38             | 15,476.20             | 12,127.99             | 77.81            | 76.56         | -91.26                | -3,925.07                           | 2,600.89     | 3,228.44               | 3,119.72                | 108.72                    | 29.696            |                    |           |
| 15,600.00                         | 12,092.70             | 15,576.19             | 12,129.94             | 79.19            | 77.95         | -91.28                | -4,025.04                           | 2,601.87     | 3,228.56               | 3,117.88                | 110.68                    | 29.171            |                    |           |
| 15,700.00                         | 12,094.02             | 15,676.19             | 12,131.90             | 80.57            | 79.34         | -91.29                | -4,125.02                           | 2,602.85     | 3,228.68               | 3,116.03                | 112.65                    | 28.661            |                    |           |
| 15,800.00                         | 12,095.33             | 15,776.19             | 12,133.85             | 81.97            | 80.75         | -91.30                | -4,224.99                           | 2,603.83     | 3,228.80               | 3,114.16                | 114.64                    | 28.165            |                    |           |
| 15,900.00                         | 12,096.65             | 15,876.19             | 12,135.81             | 83.38            | 82.16         | -91.31                | -4,324.96                           | 2,604.81     | 3,228.91               | 3,112.28                | 116.64                    | 27.683            |                    |           |
| 16,000.00                         | 12,097.97             | 15,976.19             | 12,137.76             | 84.79            | 83.58         | -91.32                | -4,424.94                           | 2,605.79     | 3,229.03               | 3,110.38                | 118.65                    | 27.215            |                    |           |
| 16,100.00                         | 12,099.28             | 16,076.18             | 12,139.72             | 86.21            | 85.01         | -91.33                | -4,524.91                           | 2,606.77     | 3,229.15               | 3,108.48                | 120.67                    | 26.759            |                    |           |
| 16,200.00                         | 12,100.60             | 16,176.18             | 12,141.67             | 87.65            | 86.45         | -91.34                | -4,624.89                           | 2,607.74     | 3,229.27               | 3,106.56                | 122.71                    | 26.316            |                    |           |
| 16,300.00                         | 12,101.91             | 16,276.18             | 12,143.63             | 89.08            | 87.90         | -91.36                | -4,724.86                           | 2,608.72     | 3,229.39               | 3,104.63                | 124.76                    | 25.886            |                    |           |
| 16,400.00                         | 12,103.23             | 16,376.18             | 12,145.58             | 90.53            | 89.35         | -91.37                | -4,824.83                           | 2,609.70     | 3,229.51               | 3,102.70                | 126.81                    | 25.467            |                    |           |
| 16,500.00                         | 12,104.55             | 16,476.17             | 12,147.54             | 91.98            | 90.81         | -91.38                | -4,924.81                           | 2,610.68     | 3,229.63               | 3,100.75                | 128.88                    | 25.060            |                    |           |
| 16,600.00                         | 12,105.86             | 16,576.17             | 12,149.49             | 93.44            | 92.28         | -91.39                | -5,024.78                           | 2,611.66     | 3,229.75               | 3,098.79                | 130.95                    | 24.664            |                    |           |
| 16,700.00                         | 12,107.18             | 16,676.17             | 12,151.45             | 94.91            | 93.75         | -91.40                | -5,124.76                           | 2,612.64     | 3,229.86               | 3,096.83                | 133.03                    | 24.278            |                    |           |
| 16,800.00                         | 12,108.50             | 16,776.17             | 12,153.40             | 96.38            | 95.23         | -91.41                | -5,224.73                           | 2,613.62     | 3,229.98               | 3,094.86                | 135.13                    | 23.904            |                    |           |
| 16,900.00                         | 12,109.81             | 16,876.17             | 12,155.36             | 97.86            | 96.71         | -91.42                | -5,324.70                           | 2,614.60     | 3,230.10               | 3,092.88                | 137.22                    | 23.539            |                    |           |
| 17,000.00                         | 12,111.13             | 16,976.16             | 12,157.31             | 99.34            | 98.20         | -91.43                | -5,424.68                           | 2,615.58     | 3,230.22               | 3,090.89                | 139.33                    | 23.184            |                    |           |
| 17,100.00                         | 12,112.44             | 17,076.16             | 12,159.27             | 100.83           | 99.70         | -91.45                | -5,524.65                           | 2,616.56     | 3,230.34               | 3,088.90                | 141.45                    | 22.838            |                    |           |
| 17,200.00                         | 12,113.76             | 17,176.16             | 12,161.22             | 102.33           | 101.20        | -91.46                | -5,624.63                           | 2,617.54     | 3,230.46               | 3,086.90                | 143.57                    | 22.502            |                    |           |
| 17,300.00                         | 12,115.08             | 17,276.16             | 12,163.18             | 103.83           | 102.70        | -91.47                | -5,724.60                           | 2,618.51     | 3,230.58               | 3,084.89                | 145.69                    | 22.174            |                    |           |
| 17,400.00                         | 12,116.39             | 17,376.16             | 12,165.13             | 105.33           | 104.21        | -91.48                | -5,824.57                           | 2,619.49     | 3,230.70               | 3,082.88                | 147.83                    | 21.855            |                    |           |
| 17,500.00                         | 12,117.71             | 17,476.15             | 12,167.09             | 106.84           | 105.72        | -91.49                | -5,924.55                           | 2,620.47     | 3,230.82               | 3,080.86                | 149.97                    | 21.544            |                    |           |
| 17,600.00                         | 12,119.03             | 17,576.15             | 12,169.04             | 108.35           | 107.24        | -91.50                | -6,024.52                           | 2,621.45     | 3,230.94               | 3,078.83                | 152.11                    | 21.241            |                    |           |
| 17,700.00                         | 12,120.34             | 17,676.15             | 12,171.00             | 109.86           | 108.76        | -91.51                | -6,124.50                           | 2,622.43     | 3,231.06               | 3,076.80                | 154.26                    | 20.945            |                    |           |
| 17,800.00                         | 12,121.66             | 17,776.15             | 12,172.95             | 111.38           | 110.29        | -91.52                | -6,224.47                           | 2,623.41     | 3,231.18               | 3,074.77                | 156.42                    | 20.657            |                    |           |
| 17,900.00                         | 12,122.97             | 17,876.15             | 12,174.91             | 112.91           | 111.81        | -91.54                | -6,324.44                           | 2,624.39     | 3,231.31               | 3,072.72                | 158.58                    | 20.376            |                    |           |
| 18,000.00                         | 12,124.29             | 17,976.14             | 12,176.86             | 114.43           | 113.35        | -91.55                | -6,424.42                           | 2,625.37     | 3,231.43               | 3,070.68                | 160.75                    | 20.103            |                    |           |
| 18,100.00                         | 12,125.61             | 18,076.14             | 12,178.82             | 115.96           | 114.88        | -91.56                | -6,524.39                           | 2,626.35     | 3,231.55               | 3,068.63                | 162.92                    | 19.835            |                    |           |
| 18,200.00                         | 12,126.92             | 18,176.14             | 12,180.77             | 117.50           | 116.42        | -91.57                | -6,624.37                           | 2,627.33     | 3,231.67               | 3,066.58                | 165.09                    | 19.575            |                    |           |
| 18,300.00                         | 12,128.24             | 18,276.14             | 12,182.73             | 119.04           | 117.96        | -91.58                | -6,724.34                           | 2,628.31     | 3,231.79               | 3,064.52                | 167.27                    | 19.320            |                    |           |
| 18,400.00                         | 12,129.56             | 18,376.14             | 12,184.68             | 120.58           | 119.51        | -91.59                | -6,824.31                           | 2,629.28     | 3,231.91               | 3,062.45                | 169.46                    | 19.072            |                    |           |
| 18,500.00                         | 12,130.87             | 18,476.13             | 12,186.64             | 122.12           | 121.05        | -91.60                | -6,924.29                           | 2,630.26     | 3,232.03               | 3,060.39                | 171.64                    | 18.830            |                    |           |
| 18,600.00                         | 12,132.19             | 18,576.13             | 12,188.59             | 123.66           | 122.60        | -91.61                | -7,024.26                           | 2,631.24     | 3,232.15               | 3,058.32                | 173.84                    | 18.593            |                    |           |
| 18,700.00                         | 12,133.50             | 18,676.13             | 12,190.55             | 125.21           | 124.16        | -91.63                | -7,124.24                           | 2,632.22     | 3,232.28               | 3,056.25                | 176.03                    | 18.362            |                    |           |
| 18,800.00                         | 12,134.82             | 18,776.13             | 12,192.50             | 126.76           | 125.71        | -91.64                | -7,224.21                           | 2,633.20     | 3,232.40               | 3,054.17                | 178.23                    | 18.136            |                    |           |
| 18,900.00                         | 12,136.14             | 18,876.12             | 12,194.46             | 128.32           | 127.27        | -91.65                | -7,324.18                           | 2,634.18     | 3,232.52               | 3,052.09                | 180.43                    | 17.915            |                    |           |
| 19,000.00                         | 12,137.45             | 18,976.12             | 12,196.41             | 129.87           | 128.83        | -91.66                | -7,424.16                           | 2,635.16     | 3,232.64               | 3,050.00                | 182.64                    | 17.700            |                    |           |
| 19,100.00                         | 12,138.77             | 19,076.12             | 12,198.37             | 131.43           | 130.39        | -91.67                | -7,524.13                           | 2,636.14     | 3,232.76               | 3,047.92                | 184.85                    | 17.489            |                    |           |
| 19,200.00                         | 12,140.09             | 19,176.12             | 12,200.32             | 132.99           | 131.96        | -91.68                | -7,624.11                           | 2,637.12     | 3,232.89               | 3,045.83                | 187.06                    | 17.283            |                    |           |
| 19,300.00                         | 12,141.40             | 19,276.12             | 12,202.28             | 134.56           | 133.52        | -91.69                | -7,724.08                           | 2,638.10     | 3,233.01               | 3,043.74                | 189.27                    | 17.081            |                    |           |

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 Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <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 |                    |           |
| 19,400.00                         | 12,142.72             | 19,376.11             | 12,204.23             | 136.12           | 135.09        | -91.70                | -7,824.05                           | 2,639.08     | 3,233.13               | 3,041.64                | 191.49                    | 16.884            |                    |           |
| 19,500.00                         | 12,144.03             | 19,476.11             | 12,206.19             | 137.69           | 136.66        | -91.72                | -7,924.03                           | 2,640.05     | 3,233.25               | 3,039.54                | 193.71                    | 16.691            |                    |           |
| 19,600.00                         | 12,145.35             | 19,576.11             | 12,208.14             | 139.26           | 138.24        | -91.73                | -8,024.00                           | 2,641.03     | 3,233.38               | 3,037.44                | 195.93                    | 16.502            |                    |           |
| 19,700.00                         | 12,146.67             | 19,676.11             | 12,210.10             | 140.83           | 139.81        | -91.74                | -8,123.98                           | 2,642.01     | 3,233.50               | 3,035.34                | 198.16                    | 16.318            |                    |           |
| 19,800.00                         | 12,147.98             | 19,776.11             | 12,212.05             | 142.40           | 141.39        | -91.75                | -8,223.95                           | 2,642.99     | 3,233.62               | 3,033.24                | 200.39                    | 16.137            |                    |           |
| 19,900.00                         | 12,149.30             | 19,876.10             | 12,214.01             | 143.98           | 142.97        | -91.76                | -8,323.92                           | 2,643.97     | 3,233.75               | 3,031.13                | 202.62                    | 15.960            |                    |           |
| 20,000.00                         | 12,150.62             | 19,976.10             | 12,215.96             | 145.55           | 144.55        | -91.77                | -8,423.90                           | 2,644.95     | 3,233.87               | 3,029.02                | 204.85                    | 15.787            |                    |           |
| 20,100.00                         | 12,151.93             | 20,076.10             | 12,217.92             | 147.13           | 146.13        | -91.78                | -8,523.87                           | 2,645.93     | 3,233.99               | 3,026.91                | 207.09                    | 15.617            |                    |           |
| 20,200.00                         | 12,153.25             | 20,176.10             | 12,219.87             | 148.71           | 147.71        | -91.79                | -8,623.85                           | 2,646.91     | 3,234.12               | 3,024.80                | 209.32                    | 15.450            |                    |           |
| 20,300.00                         | 12,154.56             | 20,276.10             | 12,221.83             | 150.29           | 149.30        | -91.81                | -8,723.82                           | 2,647.89     | 3,234.24               | 3,022.68                | 211.56                    | 15.287            |                    |           |
| 20,400.00                         | 12,155.88             | 20,376.09             | 12,223.78             | 151.87           | 150.88        | -91.82                | -8,823.79                           | 2,648.87     | 3,234.37               | 3,020.56                | 213.80                    | 15.128            |                    |           |
| 20,500.00                         | 12,157.20             | 20,476.09             | 12,225.74             | 153.46           | 152.47        | -91.83                | -8,923.77                           | 2,649.85     | 3,234.49               | 3,018.44                | 216.05                    | 14.971            |                    |           |
| 20,600.00                         | 12,158.51             | 20,576.09             | 12,227.69             | 155.04           | 154.06        | -91.84                | -9,023.74                           | 2,650.83     | 3,234.61               | 3,016.32                | 218.29                    | 14.818            |                    |           |
| 20,700.00                         | 12,159.83             | 20,676.09             | 12,229.65             | 156.63           | 155.65        | -91.85                | -9,123.72                           | 2,651.80     | 3,234.74               | 3,014.20                | 220.54                    | 14.668            |                    |           |
| 20,800.00                         | 12,161.15             | 20,776.08             | 12,231.60             | 158.22           | 157.24        | -91.86                | -9,223.69                           | 2,652.78     | 3,234.86               | 3,012.08                | 222.79                    | 14.520            |                    |           |
| 20,900.00                         | 12,162.46             | 20,876.08             | 12,233.56             | 159.81           | 158.83        | -91.87                | -9,323.66                           | 2,653.76     | 3,234.99               | 3,009.95                | 225.04                    | 14.375            |                    |           |
| 21,000.00                         | 12,163.78             | 20,976.08             | 12,235.51             | 161.40           | 160.42        | -91.88                | -9,423.64                           | 2,654.74     | 3,235.11               | 3,007.82                | 227.29                    | 14.234            |                    |           |
| 21,100.00                         | 12,165.10             | 21,076.08             | 12,237.47             | 162.99           | 162.02        | -91.90                | -9,523.61                           | 2,655.72     | 3,235.24               | 3,005.70                | 229.54                    | 14.094            |                    |           |
| 21,200.00                         | 12,166.41             | 21,176.08             | 12,239.42             | 164.58           | 163.62        | -91.91                | -9,623.59                           | 2,656.70     | 3,235.36               | 3,003.56                | 231.80                    | 13.958            |                    |           |
| 21,300.00                         | 12,167.73             | 21,276.07             | 12,241.38             | 166.18           | 165.21        | -91.92                | -9,723.56                           | 2,657.68     | 3,235.49               | 3,001.43                | 234.05                    | 13.824            |                    |           |
| 21,400.00                         | 12,169.04             | 21,376.07             | 12,243.33             | 167.77           | 166.81        | -91.93                | -9,823.53                           | 2,658.66     | 3,235.61               | 2,999.30                | 236.31                    | 13.692            |                    |           |
| 21,500.00                         | 12,170.36             | 21,476.07             | 12,245.29             | 169.37           | 168.41        | -91.94                | -9,923.51                           | 2,659.64     | 3,235.74               | 2,997.17                | 238.57                    | 13.563            |                    |           |
| 21,600.00                         | 12,171.68             | 21,576.07             | 12,247.24             | 170.97           | 170.01        | -91.95                | -10,023.48                          | 2,660.62     | 3,235.86               | 2,995.03                | 240.83                    | 13.436            |                    |           |
| 21,700.00                         | 12,172.99             | 21,676.07             | 12,249.20             | 172.57           | 171.61        | -91.96                | -10,123.46                          | 2,661.60     | 3,235.99               | 2,992.89                | 243.09                    | 13.312            |                    |           |
| 21,800.00                         | 12,174.31             | 21,776.06             | 12,251.15             | 174.17           | 173.22        | -91.97                | -10,223.43                          | 2,662.57     | 3,236.11               | 2,990.76                | 245.36                    | 13.189            |                    |           |
| 21,900.00                         | 12,175.63             | 21,876.06             | 12,253.11             | 175.77           | 174.82        | -91.99                | -10,323.40                          | 2,663.55     | 3,236.24               | 2,988.62                | 247.62                    | 13.069            |                    |           |
| 22,000.00                         | 12,176.94             | 21,976.06             | 12,255.06             | 177.37           | 176.42        | -92.00                | -10,423.38                          | 2,664.53     | 3,236.36               | 2,986.48                | 249.89                    | 12.951            |                    |           |
| 22,100.00                         | 12,178.26             | 22,076.06             | 12,257.02             | 178.97           | 178.03        | -92.01                | -10,523.35                          | 2,665.51     | 3,236.49               | 2,984.33                | 252.16                    | 12.835            |                    |           |
| 22,200.00                         | 12,179.57             | 22,176.06             | 12,258.97             | 180.58           | 179.63        | -92.02                | -10,623.33                          | 2,666.49     | 3,236.62               | 2,982.19                | 254.42                    | 12.721            |                    |           |
| 22,300.00                         | 12,180.89             | 22,276.06             | 12,260.93             | 182.18           | 181.24        | -92.03                | -10,723.30                          | 2,667.47     | 3,236.75               | 2,980.04                | 256.68                    | 12.607            |                    |           |
| 22,400.00                         | 12,182.21             | 22,376.06             | 12,262.88             | 183.79           | 182.85        | -92.03                | -10,823.28                          | 2,668.45     | 3,236.88               | 2,977.89                | 258.94                    | 12.493            |                    |           |
| 22,500.00                         | 12,183.52             | 22,476.06             | 12,264.84             | 185.39           | 184.45        | -92.03                | -10,923.25                          | 2,669.43     | 3,237.01               | 2,975.74                | 261.20                    | 12.379            |                    |           |
| 22,600.00                         | 12,184.84             | 22,576.06             | 12,266.80             | 187.00           | 186.06        | -92.03                | -11,023.23                          | 2,670.41     | 3,237.14               | 2,973.59                | 263.46                    | 12.265            |                    |           |
| 22,700.00                         | 12,186.16             | 22,676.06             | 12,268.76             | 188.61           | 187.67        | -92.03                | -11,123.20                          | 2,671.39     | 3,237.27               | 2,971.44                | 265.72                    | 12.151            |                    |           |
| 22,800.00                         | 12,187.47             | 22,776.06             | 12,270.72             | 190.21           | 189.27        | -92.03                | -11,223.18                          | 2,672.37     | 3,237.40               | 2,969.29                | 267.98                    | 12.037            |                    |           |
| 22,900.00                         | 12,188.79             | 22,876.06             | 12,272.68             | 191.82           | 190.88        | -92.03                | -11,323.15                          | 2,673.35     | 3,237.53               | 2,967.14                | 270.24                    | 11.923            |                    |           |
| 23,000.00                         | 12,190.10             | 22,976.06             | 12,274.64             | 193.43           | 192.49        | -92.03                | -11,423.13                          | 2,674.33     | 3,237.66               | 2,965.00                | 272.50                    | 11.809            |                    |           |
| 23,100.00                         | 12,191.42             | 23,076.06             | 12,276.60             | 195.04           | 194.10        | -92.03                | -11,523.10                          | 2,675.31     | 3,237.79               | 2,962.85                | 274.76                    | 11.695            |                    |           |
| 23,200.00                         | 12,192.74             | 23,176.06             | 12,278.56             | 196.66           | 195.72        | -92.03                | -11,623.08                          | 2,676.29     | 3,237.92               | 2,960.70                | 277.02                    | 11.581            |                    |           |
| 23,300.00                         | 12,194.05             | 23,276.06             | 12,280.52             | 198.27           | 197.33        | -92.03                | -11,723.05                          | 2,677.27     | 3,238.05               | 2,958.56                | 279.28                    | 11.467            |                    |           |
| 23,400.00                         | 12,195.37             | 23,376.06             | 12,282.48             | 199.88           | 198.94        | -92.03                | -11,823.03                          | 2,678.25     | 3,238.18               | 2,956.41                | 281.54                    | 11.353            |                    |           |
| 23,500.00                         | 12,196.69             | 23,476.06             | 12,284.44             | 201.49           | 200.55        | -92.03                | -11,923.00                          | 2,679.23     | 3,238.31               | 2,954.27                | 283.80                    | 11.239            |                    |           |
| 23,594.56                         | 12,197.93             | 23,576.06             | 12,286.40             | 203.02           | 202.08        | -92.03                | -12,023.00                          | 2,680.21     | 3,238.44               | 2,952.12                | 286.06                    | 11.125            |                    |           |

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



# Total Directional Services

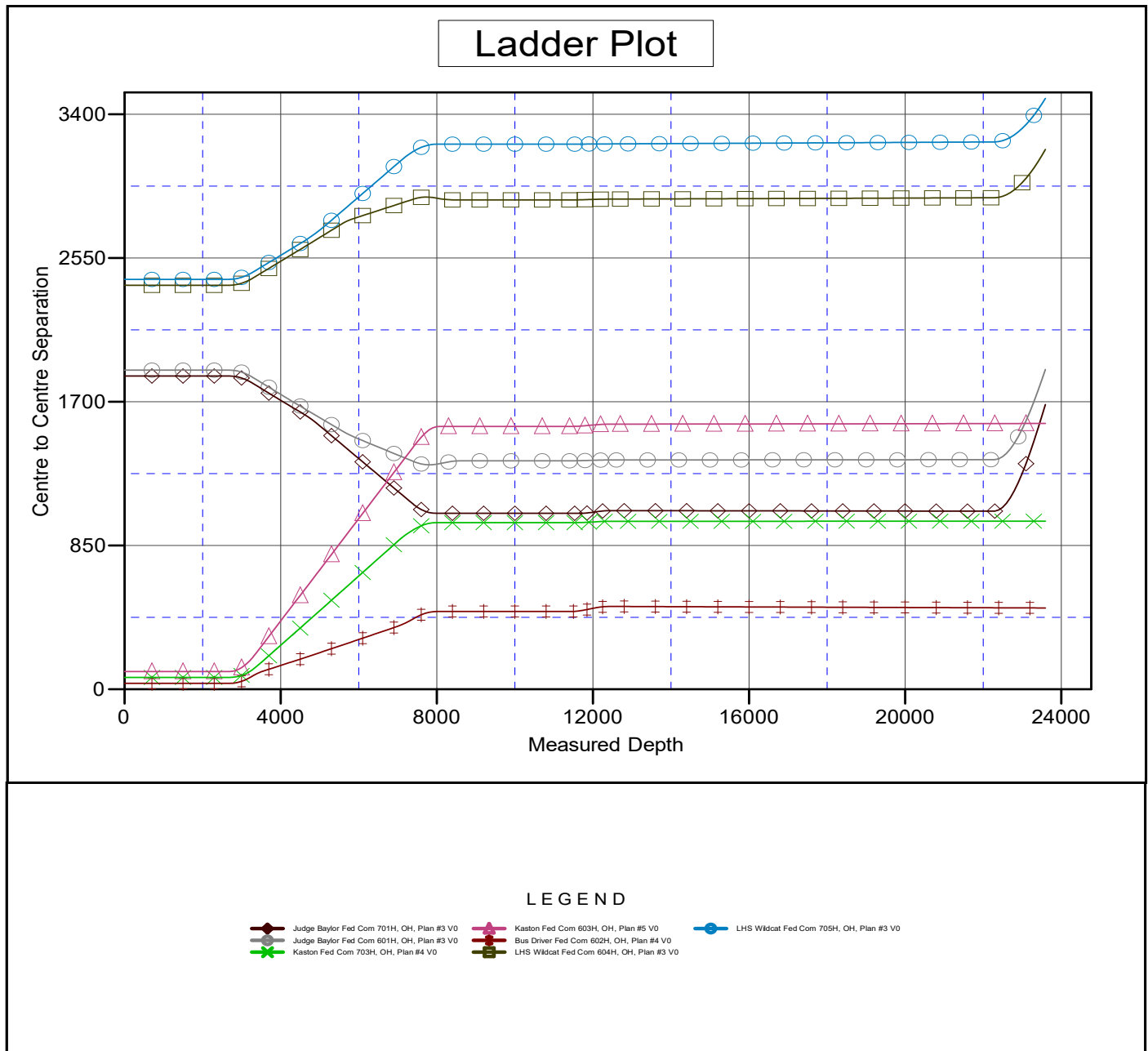
## Anticollision Report



|                           |                           |                                     |                                   |
|---------------------------|---------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy  | <b>Local Co-ordinate Reference:</b> | Well Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <b>Offset TVD Reference:</b>        | Offset Datum                      |

Reference Depths are relative to 3057.5' GE + 30' KB @ 3087.50usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -104.333334

Coordinates are relative to: Bus Driver Fed Com 702H  
 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

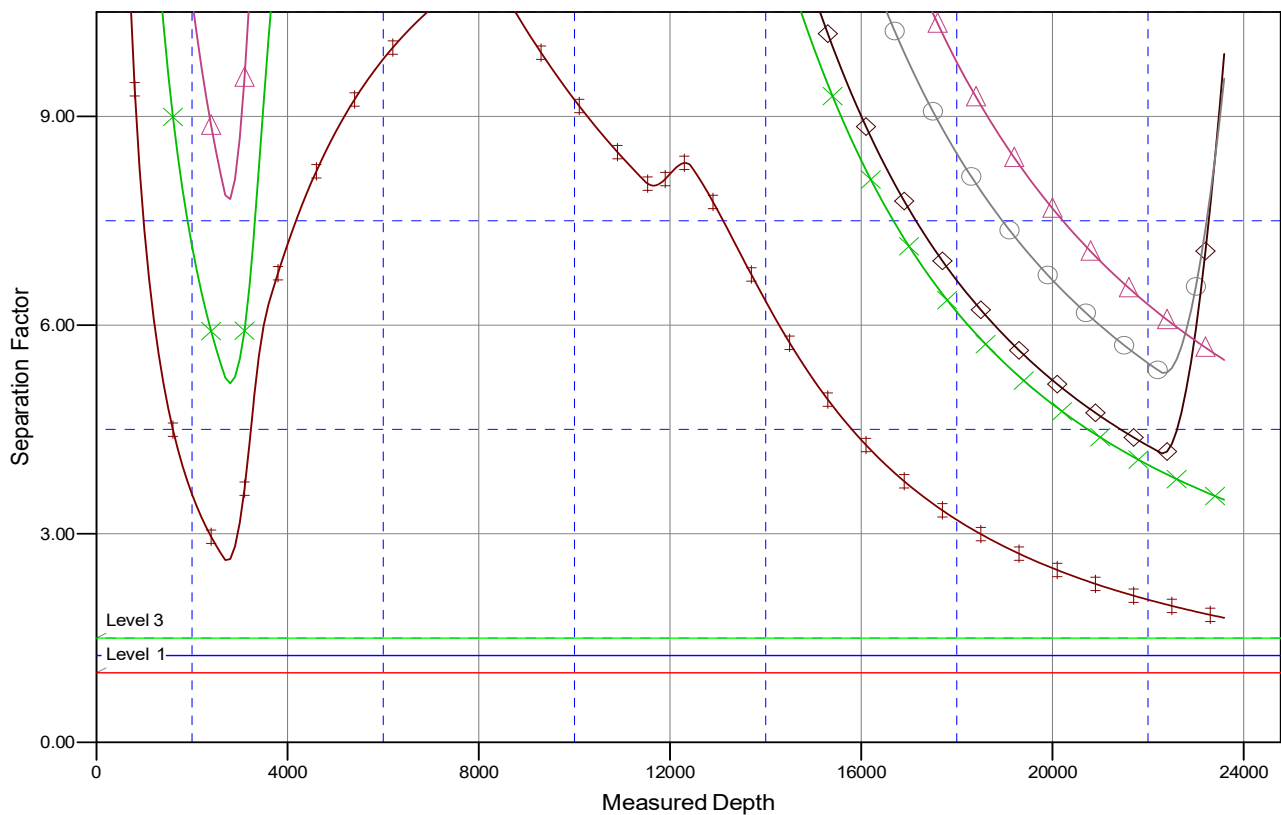


|                           |                           |                                     |                                   |
|---------------------------|---------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Franklin Mountain Energy  | <b>Local Co-ordinate Reference:</b> | Well Bus Driver Fed Com 702H      |
| <b>Project:</b>           | Lea County, NM (NAD83)    | <b>TVD Reference:</b>               | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Reference Site:</b>    | Bus Driver/Kaston Fed Com | <b>MD Reference:</b>                | 3057.5' GE + 30' KB @ 3087.50usft |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Bus Driver Fed Com 702H   | <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 #4                   | <b>Offset TVD Reference:</b>        | Offset Datum                      |

Reference Depths are relative to 3057.5' GE + 30' KB @ 3087.50usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -104.333334

Coordinates are relative to: Bus Driver Fed Com 702H  
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone  
 Grid Convergence at Surface is: 0.54°

## Separation Factor Plot



### LEGEND

|                                           |                                          |                                          |
|-------------------------------------------|------------------------------------------|------------------------------------------|
| Judge Baylor Fed Com 701H, OH, Plan #3 V0 | Kaston Fed Com 603H, OH, Plan #5 V0      | LHS Wildcat Fed Com 705H, OH, Plan #3 V0 |
| Judge Baylor Fed Com 601H, OH, Plan #3 V0 | Bus Driver Fed Com 602H, OH, Plan #4 V0  |                                          |
| Kaston Fed Com 703H, OH, Plan #4 V0       | LHS Wildcat Fed Com 604H, OH, Plan #3 V0 |                                          |

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

# FRANKLIN MOUNTAIN ENERGY



## Geologic Prognosis

|               |                                |
|---------------|--------------------------------|
| Well Name     | Bus Driver Fed Com 702H        |
| Operator      | Franklin Mountain Energy, LLC  |
| Project Area  | PF Unit                        |
| Well Type     | 11,000' Upper Wolfcamp Lateral |
| API           |                                |
| Permit Number |                                |
| Rig           |                                |

|                       |          |            |         |    |        |     |        |     |  |
|-----------------------|----------|------------|---------|----|--------|-----|--------|-----|--|
| State                 | NM       | County     | Lea     |    |        |     |        |     |  |
| SHL                   | Township | 25S/35E    | Section | 36 | 2,375' | FWL | 312'   | FSL |  |
| BHL                   | Township | 26S/35E    | Section | 13 | 1,700' | FWL | 1,170' | FNL |  |
| Surface Latitude      | NAD 83   | 32.080431  |         |    |        |     |        |     |  |
| Surface Longitude     | NAD 83   | 103.322121 |         |    |        |     |        |     |  |
| Bottom Hole Latitude  | NAD 83   | 32.04732   |         |    |        |     |        |     |  |
| Bottom Hole Longitude | NAD 83   | 103.324279 |         |    |        |     |        |     |  |
| Ground Level          | 3,058'   | Rig KB     | 30'     | KB | 3,088' |     |        |     |  |

| Formations                    | PROG SS        | PROG TVD       | Picked TVD | delta | Potential/Issues                        |
|-------------------------------|----------------|----------------|------------|-------|-----------------------------------------|
| Cenozoic Alluvium (surface)   | 3,058'         | 30'            | 30'        | 0     | Sand/Gravels/unconsolidated             |
| Rustler                       | 2,263'         | 825'           |            |       | Carbonates                              |
| Salado                        | 1,744'         | 1,344'         |            |       | Salt, Carbonate & Clastics              |
| Base Salt                     | 500'           | 2,588'         |            |       | Shaley Carbonate & Shale                |
| Lamar                         | -1,992'        | 5,080'         |            |       | Carbonate & Clastics                    |
| Bell Canyon                   | -2,029'        | 5,117'         |            |       | Sandstone - oil/gas/water               |
| Cherry Canyon                 | -2,879'        | 5,967'         |            |       | Sandstone - oil/gas/water               |
| Brushy Canyon                 | -4,271'        | 7,359'         |            |       | Sand/carb/shales - oil/gas/water        |
| Bone Spring Lime              | -5,654'        | 8,742'         |            |       | Shale/Carbonates - oil/gas              |
| Avalon                        | -5,678'        | 8,766'         |            |       | Shale/Carbonates - oil/gas              |
| First Bone Spring Sand        | -6,780'        | 9,868'         |            |       | Sandstone - oil/gas/water               |
| Second Bone Spring Carbonates | -6,919'        | 10,007'        |            |       | Shale/Carbonates - oil/gas              |
| Second Bone Spring Sand       | -7,304'        | 10,392'        |            |       | Sandstone - oil/gas/water               |
| Third Bone Spring Carbonates  | -8,004'        | 11,092'        |            |       | Shale/Carbonates - oil/gas              |
| Third Bone Spring Sand        | -8,675'        | 11,763'        |            |       | Sandstone - oil/gas/water               |
| Wolfcamp                      | -8,917'        | 12,005'        |            |       | Overpressure shale/sand- Oil/Gas        |
| <b>HZ Target</b>              | <b>-8,960'</b> | <b>12,048'</b> |            |       | <b>Overpressure shale/sand- Oil/Gas</b> |
| Wolfcamp A                    | -8,978'        | 12,066'        |            |       | Overpressure Shale - Oil/Gas            |
| Wolfcamp B                    | -9,198'        | 12,286'        |            |       | Overpressure Shale - Oil/Gas            |
|                               |                |                |            |       |                                         |
|                               |                |                |            |       |                                         |
|                               |                |                |            |       |                                         |
|                               |                |                |            |       |                                         |

Target interval is expected to have an average apparent dip of .75 degrees down along the lateral based on the Wolfcamp A structure

Target window tolerance is set at +/- 10'

Target Line: 12040' KBTVD @ 0' VS w/ 89.25° inc.  
Offset Log: Talco Unit 001 (300252674700)  
Updated 4/19/21

|                                                     |                                                                      |              |                                                            |              |
|-----------------------------------------------------|----------------------------------------------------------------------|--------------|------------------------------------------------------------|--------------|
| <b>FME Geologist</b>                                | Ben Kessel                                                           |              | <a href="mailto:bkessel@fmellc.com">bkessel@fmellc.com</a> |              |
|                                                     | Office                                                               | 720-414-7868 | Cell                                                       | 303.868.9946 |
| <b>FME Engineer</b>                                 |                                                                      |              |                                                            |              |
|                                                     |                                                                      |              |                                                            |              |
| <b>Electric Logs</b>                                |                                                                      |              |                                                            |              |
|                                                     |                                                                      |              | <b>From</b>                                                | <b>To</b>    |
| Open-Hole                                           |                                                                      |              |                                                            |              |
|                                                     | n/a                                                                  |              |                                                            |              |
|                                                     |                                                                      |              |                                                            |              |
| MWD/LWD                                             |                                                                      |              |                                                            |              |
|                                                     | MWD GR                                                               |              | Int. 1 Csg. Point                                          | TD           |
|                                                     |                                                                      |              |                                                            |              |
| <b>Mud Log:</b>                                     |                                                                      |              |                                                            |              |
| <b>Start logging at drill out of surface casing</b> |                                                                      |              |                                                            |              |
| Sampling:                                           | 10' samples in vertical and through curve, 30' samples in lateral    |              |                                                            |              |
| Samples:                                            | 1 set dry samples at footage frequency noted above                   |              |                                                            |              |
| Mud Gas:                                            | Continuous                                                           |              |                                                            |              |
| Daily Contact:                                      | Email distribution of mud log/daily report at 7:30am and 4:30 pm CST |              |                                                            |              |
| <b>Daily Mud Log Email Distribution List</b>        |                                                                      |              |                                                            |              |
|                                                     |                                                                      |              |                                                            |              |
| <b>Final Mud Log Distribution</b>                   |                                                                      |              |                                                            |              |
|                                                     | Ben Kessel (bkessel@fmellc.com)                                      |              |                                                            | email        |
|                                                     |                                                                      |              |                                                            |              |
| <b>Cuttings/Samples Shipment Information</b>        |                                                                      |              |                                                            |              |
|                                                     |                                                                      |              |                                                            |              |
|                                                     |                                                                      |              |                                                            |              |
|                                                     |                                                                      |              |                                                            |              |



# U. S. Steel Tubular Products

7/14/2020 11:41:19 AM

## 5.500" 23.00lbs/ft (0.415" Wall) P110 USS-EAGLE SFH®



| MECHANICAL PROPERTIES             | Pipe    | USS-EAGLE SFH™ |            |
|-----------------------------------|---------|----------------|------------|
| Minimum Yield Strength            | 110,000 | --             | psi        |
| Maximum Yield Strength            | 140,000 | --             | psi        |
| Minimum Tensile Strength          | 125,000 | --             | psi        |
| DIMENSIONS                        | Pipe    | USS-EAGLE SFH™ |            |
| Outside Diameter                  | 5.500   | 5.830          | in.        |
| Wall Thickness                    | 0.415   | --             | in.        |
| Inside Diameter                   | 4.670   | 4.585          | in.        |
| Standard Drift                    | 4.545   | 4.545          | in.        |
| Alternate Drift                   | --      | 4.545          | in.        |
| Nominal Linear Weight, T&C        | 23.00   | --             | lbs/ft     |
| Plain End Weight                  | 22.56   | --             | lbs/ft     |
| SECTION AREA                      | Pipe    | USS-EAGLE SFH™ |            |
| Critical Area                     | 6.630   | 5.507          | sq. in.    |
| Joint Efficiency                  | --      | 83.1           | %          |
| PERFORMANCE                       | Pipe    | USS-EAGLE SFH™ |            |
| Minimum Collapse Pressure         | 14,540  | 14,540         | psi        |
| External Pressure Leak Resistance | --      | 9,130          | psi        |
| Minimum Internal Yield Pressure   | 14,520  | 14,520         | psi        |
| Minimum Pipe Body Yield Strength  | 729,000 | --             | lbs        |
| Joint Strength                    | --      | 606,000        | lbs        |
| Compression Rating                | --      | 606,000        | lbs        |
| Reference Length                  | --      | 17,900         | ft         |
| Maximum Uniaxial Bend Rating      | --      | 76.2           | deg/100 ft |
| MAKE-UP DATA                      | Pipe    | USS-EAGLE SFH™ |            |
| Make-Up Loss                      | --      | 6.65           | in.        |
| Minimum Make-Up Torque            | --      | 16,600         | ft-lbs     |
| Maximum Make-Up Torque            | --      | 19,800         | ft-lbs     |
| Maximum Operating Torque          | --      | 28,000         | ft-lbs     |

### Legal Notice

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

U. S. Steel Tubular Products  
460 Wildwood Forest Drive, Suite 300S  
Spring, Texas 77380

1-877-893-9461  
connections@uss.com  
www.usstubular.com

**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**

COMMENTS  
  
Action 28422

COMMENTS

|                                                                                 |                                                      |
|---------------------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>Franklin Mountain Energy LLC<br>44 Cook Street<br>Denver, CO 80206 | OGRID:<br>373910                                     |
|                                                                                 | Action Number:<br>28422                              |
|                                                                                 | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

COMMENTS

| Created By | Comment             | Comment Date |
|------------|---------------------|--------------|
| jagarcia   | Accepted for record | 6/25/2021    |

**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 28422

CONDITIONS

|                                                                                     |                                                          |
|-------------------------------------------------------------------------------------|----------------------------------------------------------|
| Operator:<br><br>Franklin Mountain Energy LLC<br>44 Cook Street<br>Denver, CO 80206 | OGRID:<br><br>373910                                     |
|                                                                                     | Action Number:<br><br>28422                              |
|                                                                                     | Action Type:<br><br>[C-103] NOI Change of Plans (C-103A) |

CONDITIONS

|            |                         |                |
|------------|-------------------------|----------------|
| Created By | Condition               | Condition Date |
| jagarcia   | Adhere to previous COA. | 6/25/2021      |