

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

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

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. [332687]
2. Name of Operator [373910]		9. API Well No. 30-025-49861
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

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

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

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

NGMP Rec 03/08/2022**SL**

(Continued on page 2)

**Approval Date: 03/07/2022**
KZ
03/14/2022

*(Instructions on page 2)

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

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

Additional Operator Remarks

Location of Well

0. SHL: TR A / 210 FNL / 1062 FEL / TWSP: 26S / RANGE: 35E / SECTION: 1 / LAT: 32.078996 / LONG: -103.316151 (TVD: 0 feet, MD: 0 feet)
PPP: TR P / 0 FNL / 380 FEL / TWSP: 26S / RANGE: 35E / SECTION: 12 / LAT: 32.054151 / LONG: -103.313936 (TVD: 12380 feet, MD: 21400 feet)
PPP: TR A / 0 FNL / 380 FEL / TWSP: 26S / RANGE: 35E / SECTION: 12 / LAT: 32.065043 / LONG: -103.313941 (TVD: 12380 feet, MD: 17400 feet)
PPP: TR A / 619 FNL / 398 FEL / TWSP: 26S / RANGE: 35E / SECTION: 1 / LAT: 32.077872 / LONG: -103.314004 (TVD: 12380 feet, MD: 12746 feet)
BHL: TR P / 150 FSL / 380 FEL / TWSP: 26S / RANGE: 35E / SECTION: 12 / LAT: 32.050933 / LONG: -103.313934 (TVD: 12380 feet, MD: 22547 feet)

BLM Point of Contact

Name: TENILLE ORTIZ
Title: Legal Instruments Examiner
Phone: (575) 234-2224
Email: tortiz@blm.gov

CONFIDENTIAL

Review and Appeal Rights

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

CONFIDENTIAL

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

☐ AMENDED REPORT

**18 SURVEYOR
CERTIFICATION**

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

April 28, 2021

Date of Survey _____
Signature and Seal of Professional Surveyor: _____

The seal is a circular emblem with a red border. Inside the border, the text "PAUL BUCHELE" is written in red, uppercase letters along the top arc, and "NEW MEXICO" is written along the bottom arc. In the center of the seal, the number "23782" is printed in red. Below the number, the date "07-27-21" is printed in red. A blue ink signature, "Paul Buchele", is written across the center of the seal, overlapping the number and the date.

Certificate Number: _____

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Franklin Mountain Energy, LLC **OGRID:** 373910 **Date:** 03/08/2022

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
See Attached Well List						

IV. Central Delivery Point Name: Paul Foster CTB: (f#) fAPP2125739207 [See 19.15.27.9(D)(1) NMAC]

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

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

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

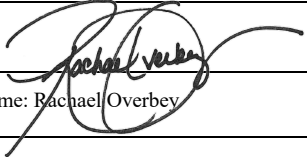
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

Signature: 
Printed Name: Rachael Overbey
Title: Director Operations Planning & Regulatory
E-mail Address: roverbey@fmelle.com
Date: 3/8/2022
Phone: 720-414-7868
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

NATURAL GAS MANAGEMENT PLAN

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API 14 Digit	ULSTR	Surface Location FTG	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
PF Fed Com 101H	TBD	D-1-26S-35E	650 FNL 1268 FWL	800 +/-	700 +/-	600 +/-
PF Fed Com 102H	TBD	C-1-26S-35E	650 FNL 1343 FWL	800 +/-	700 +/-	600 +/-
PF Fed Com 501H	TBD	D-1-26S-35E	650 FNL 1293 FWL	800 +/-	700 +/-	600 +/-
PF Fed Com 502H	TBD	D-1-26S-35E	650 FNL 1318 FWL	800 +/-	700 +/-	600 +/-
PF Fed Com 801H	TBD	D-1-26S-35E	575 FNL 1281 FWL	800 +/-	700 +/-	600 +/-
PF Fed Com 802H	TBD	D-1-26S-35E	575 FNL 1306 FWL	800 +/-	700 +/-	600 +/-
PF Fed Com 803H	TBD	C-1-26S-35E	575 FNL 1331 FWL	800 +/-	700 +/-	600 +/-
PF Fed Com 103H	TBD	A-1-26S-35E	285 FNL 1125 FEL	800 +/-	700 +/-	600 +/-
PF Fed Com 104H	TBD	A-1-26S-35E	285 FNL 1050 FEL	800 +/-	700 +/-	600 +/-
PF Fed Com 503H	TBD	A-1-26S-35E	285 FNL 1100 FEL	800 +/-	700 +/-	600 +/-
PF Fed Com 504H	TBD	A-1-26S-35E	285 FNL 1075 FEL	800 +/-	700 +/-	600 +/-
PF Fed Com 804H	TBD	A-1-26S-35E	210 FNL 1112 FEL	800 +/-	700 +/-	600 +/-
PF Fed Com 805H	TBD	A-1-26S-35E	210 FNL 1087 FEL	800 +/-	700 +/-	600 +/-
PF Fed Com 806H	TBD 30-025-49861	A-1-26S-35E	210 FNL 1062 FEL	800 +/-	700 +/-	600 +/-

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

Well Name	API 14 Digit	Spud Date (Batch Drilling)	TD Reached Date	Completion Commencement Date	Initial Flowback Date	First Production Date
PF Fed Com 101H	TBD	TBD	TBD	TBD	TBD	TBD
PF Fed Com 102H	TBD	TBD	TBD	TBD	TBD	TBD
PF Fed Com 501H	TBD	TBD	TBD	TBD	TBD	TBD
PF Fed Com 502H	TBD	TBD	TBD	TBD	TBD	TBD
PF Fed Com 801H	TBD	10/20/2022	12/20/2022	1/5/2023	1/25/2023	1/27/2023
PF Fed Com 802H	TBD	10/20/2022	12/20/2022	1/5/2023	1/25/2023	1/27/2023
PF Fed Com 803H	TBD	10/20/2022	12/20/2022	1/5/2023	1/25/2023	1/27/2023
PF Fed Com 103H	TBD	TBD	TBD	TBD	TBD	TBD
PF Fed Com 104H	TBD	9/28/2022	10/20/2022	12/20/2022	1/1/2023	1/3/2023
PF Fed Com 503H	TBD	TBD	TBD	TBD	TBD	TBD
PF Fed Com 504H	TBD	9/6/2022	9/27/2022	12/20/2022	1/1/2023	1/3/2023
PF Fed Com 804H	TBD	7/5/2022	9/5/2022	12/20/2022	1/1/2023	1/3/2023
PF Fed Com 805H	TBD	7/5/2022	9/5/2022	12/20/2022	1/1/2023	1/3/2023
PF Fed Com 806H	TBD 30-025-49861	7/5/2022	9/5/2022	12/20/2022	1/1/2023	1/3/2023



Natural Gas Management Plan

Items VI-VIII

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

- Data from surrounding wells is used to generate type curves which provides the basis for expected gas rates during initial production, peak production and then the natural decline.
- Separation equipment will be sized to provide adequate separation for peak production.
- Facility design includes multiple stages of separation to minimize gas waste. Wells flow through a high pressure 2-phase separator to remove bulk gas, liquid from the 2-phase separator is sent to a 3-phase separator where additional gas is separated. Gas from the 2 Phase and 3 Phase separators are then sent through a gas scrubber before being route to treatment and/or sales. As production declines the 2-phase separator may be removed.
- Industry standard sizing calculations are used for gas-liquid separation and liquid-liquid separation.

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

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



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

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

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



PF Fed Com 806H

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)	3,031'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2,001'	1,060'			Carbonates
Salado	1,509'	1,552'			Salt, Carbonate & Clastics
Base Salt	-391'	3,452'			Shaley Carbonate & Shale
Lamar	-1,955'	5,016'			Carbonate & Clastics
Bell Canyon	-2,055'	5,116'			Sandstone - oil/gas/water
Cherry Canyon	-2,862'	5,923'			Sandstone - oil/gas/water
Brushy Canyon	-4,257'	7,318'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,445'	8,506'			Shale/Carbonates - oil/gas
Avalon	-5,490'	8,551'			Shale/Carbonates - oil/gas
Chert Zone	-5,643'	8,704'			Carbonate/Chert
First Bone Spring Sand	-6,739'	9,800'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-6,825'	9,886'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7,195'	10,256'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-7,830'	10,891'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-8,586'	11,647'			Sandstone - oil/gas/water
Wolfcamp	-8,787'	11,848'			Overpressure shale/sand- Oil/Gas
Wolfcamp A	-8,852'	11,913'			Overpressure Shale - Oil/Gas
Wolfcamp B	-9,227'	12,288'			Overpressure Shale - Oil/Gas
HZ Target	-9,319'	12,380'			Overpressure Shale - Oil/Gas
Wolfcamp C	-9,443'	12,504'			Overpressure Shale - Oil/Gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	5,116'	Oil
Bone Spring	9,800'	Oil
Wolfcamp	11,848'	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 909	1300	1.18	1.67	4.99	5.32
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	BTC 1042	5050	1.80	1.79	3.03	3.45
Intermediate 7 5/8"	29.7	HCP-110	8280	7150	827	Stinger 564	11846	1.12	1.29	1.83	1.25
Long string 5 1/2"	23	P-110	14520	14520	729	Eagle 606 TVD	22547 12380	1.32	1.38	1.18	0.98 1.58



7 5/8" casing will be set at 11,846' MD/11,807' TVD at 0° Inc. Stress calculations on 5 1/2" casing performed assuming 22,547' depth. Actual max vertical depth is 12,380'.

Cementing Program:

Cementing Stage tool can be placed in the 1st 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 ³ /sk	Water gal/sk	TOC ft	Sacks	Type of cmt	Tail Yield ft ³ /sk	Water gal/sk	TOC	Excess
Surf	17.5	13.375	1300	795	Extenda Cem, 12.8 ppg Class C, 3lb/sk Kol-Seal	1.747	9.06	0	334	Tail, 14.8 ppg, Class C,	1.349	6.51	1000	100%
Int1	12.25	9.625	5050	1470	0.125pps Poly-E-Flake Lead, 12.8 ppg, Class C 5% Salt,	1.79	9.74	0	154	1% CaCl ₂ , 0.125pps Celo-Flake Tail, 14.8 ppg, Class C,	1.33	6.37	4750	100%
Int2	8.75	7.625	11846	365	0.125 pps Poly-E-Flake, 3lb/sk Kol-Seal Lite Fill, 9.5 ppg, Class C 3lb/sk	2.13	5.97	4050	94	NeoCem 14.8 ppg, Class C	1.33	6.29	10846	50%
Prod	6.75	5.5	22547	873	Bridgemaker Gel, 5% Salt, 5pps LCM, 0.25pps Cello-Flake Tail, 14.5 ppg, Gas Migration Control	1.34	6.22	10846		0.25 pps Cello-Flake, 2% CaCl ₂				20%

5. Minimum Specifications for Pressure Control:

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated, and the ram-type will be equipped with blind rams on bottom and 4 1/2" x 7" variable pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

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

Before drilling out of the second intermediate casing, the ram-type BOP and accessory equipment will be tested to 10,000/250 psig and the annular preventer to 5,000/250 psig. The second intermediate casing will be tested to 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' – 11,846'	Brine	8.8-10.2	28-34	N/c
11,846' – 22,547' Lateral	Oil Base	10.0-12.0	58-68	3 - 6

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

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

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

7. Auxiliary well control and monitoring equipment:

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

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

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

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

8. Logging, testing and coring program:

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

Open-hole logs are not planned for this well.

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

The estimated bottom-hole temperature at 12,547' TVD (deepest point of the well) is 195F with an estimated maximum bottom-hole pressure (BHP) at the same point of 8,368 psig (based on 13 ppg MW). Hydrogen sulfate may be present in the area. All necessary precautions will be taken before drilling operations commence. See Hydrogen Sulfide Plan below:

10. Hydrogen Sulfide Plan:

A. All personnel shall receive proper awareness H₂S training.

B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.

C. Required Emergency Equipment

a. Well Control Equipment

i. Flare line 150' from wellhead to be ignited by auto ignition sparking system.

ii. Choke manifold with a remotely operated hydraulic choke.

iii. Mud/gas separator

b. Protective equipment for essential personnel

i. Breathing Apparatus

1. Rescue packs (SCBA) – 1 unit shall be placed at each briefing area, 2 shall be stored in a safety trailer on site.

2. Work/Escapes packs – 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity



3. Emergency Escape Packs – 4 packs shall be stored in the doghouse for emergency evacuation.
- ii. Auxiliary Rescue Equipment
 1. Stretcher
 2. Two OSHA full body harnesses
 3. 100 feet of 5/8 inches OSHA approved rope
 4. 1-20# class ABC fire extinguisher
- c. H2S Detection and Monitoring Equipment
 - i. A stationary detector with three sensors will be placed in the doghouse if equipped, set to visually alarm at 10 ppm and audible at 14 ppm. The detector will be calibrated a minimum of every 30 days or as needed. The sensors will be placed in the following places:
 1. Rig Floor
 2. Below Rig Floor / Near BOPs
 3. End of flow line or where well bore fluid is being discharged (near shakers)
 - ii. If H2S is encountered, measured values and formations will be provided to the BLM.
- d. Visual Warning Systems
 - i. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - ii. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - iii. Two windsocks will be placed in strategic locations, visible from all angles.
- e. Mud Program
 - i. The Mud program will be designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.
- f. Metallurgy
 - i. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service at the anticipated operating pressures to prevent sour sulfide stress cracking.
- g. Communication
 - i. Communication will be via cell phones and walkie talkies on location.

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 Cactus Multi-Bowl WH system has been sent to the BLM office in Carlsbad.

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

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

A solid steel body pack-off will be utilized after running and cementing the intermediate casing strings. After installation of the first intermediate string the pack-off and lower flanges will be pressure tested to 5000 psi. After installation of the second intermediate string, the pack-off and upper flange will be pressure tested to 10,000 psi.

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

14. Additional variance requests**A. Casing.**

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

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

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Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: PF Fed Com
Well: Paul Foster Fed Com 806H
Wellbore: OH
Design: Plan #1



Azimuths to Grid North
True North: -0.54°
Magnetic North: 5.86°

Magnetic Field
Strength: 47427.4nT
Dip Angle: 59.80°
Date: 7/16/2021
Model: IGRF2020

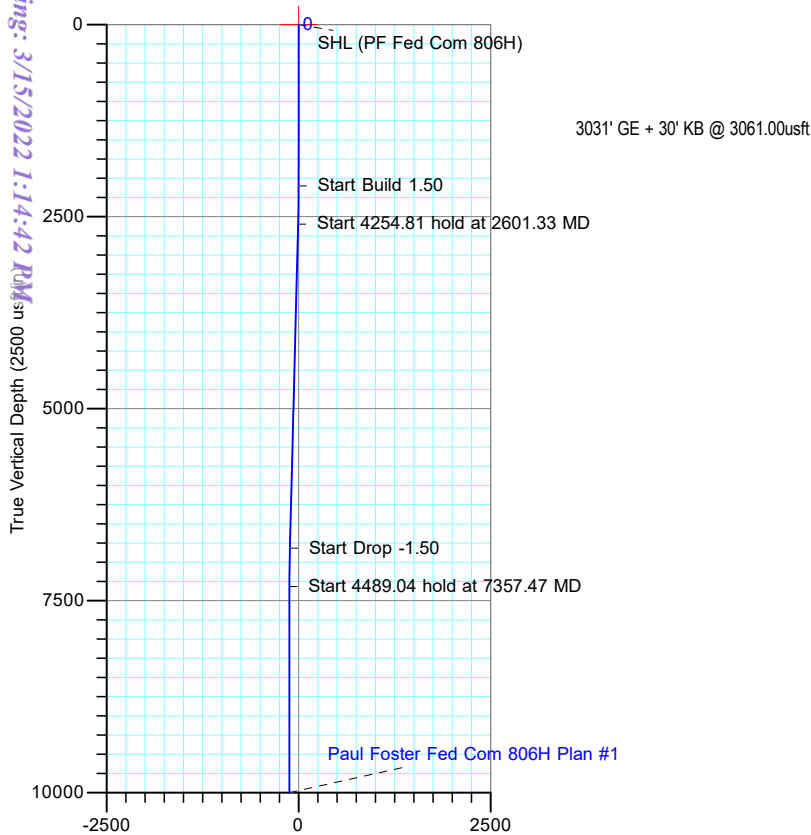
PROJECT DETAILS: Lea County, NM (NAD83)

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



Received by OCD: 3/8/2022 5:38:41 PM

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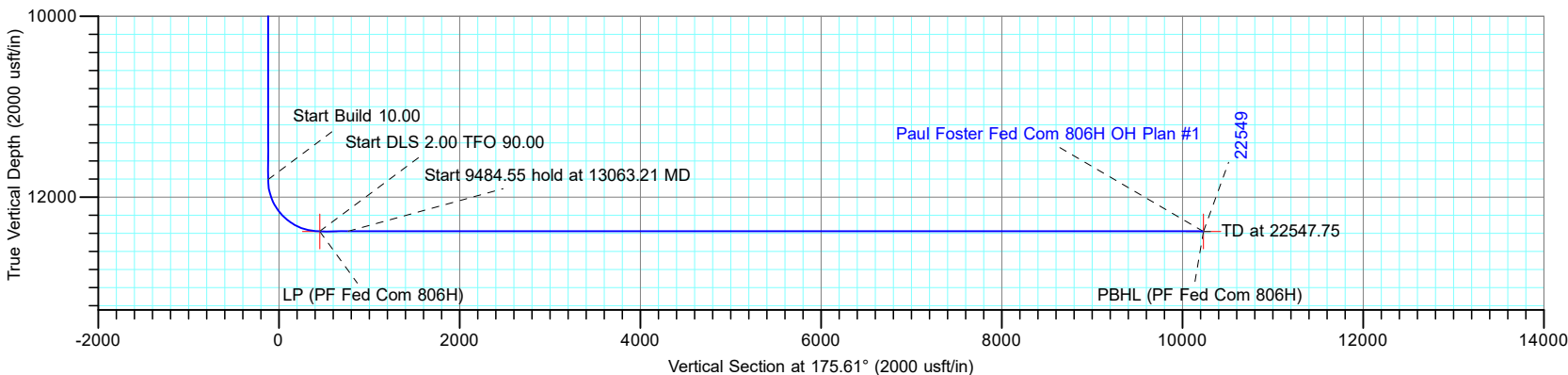
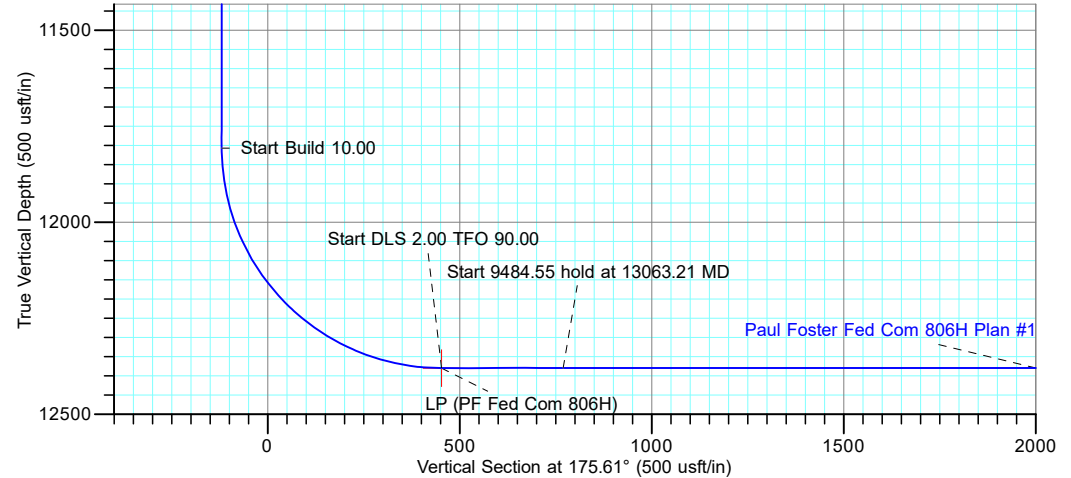


SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
2601.33	7.52	74.54	2599.89	8.76	31.66	1.50	74.54	-6.31	Start 4254.81 hold at 2601.33 MD
6856.14	7.52	74.54	6818.11	157.24	568.34	0.00	0.00	-113.29	Start Drop -1.50
7357.47	0.00	0.00	7318.00	166.00	600.00	1.50	180.00	-119.60	Start 4489.04 hold at 7357.47 MD
11846.51	0.00	0.00	11807.04	166.00	600.00	0.00	0.00	-119.60	Start Build 10.00
12746.51	90.00	173.10	12380.00	-402.81	668.83	10.00	173.10	452.81	Start DLS 2.00 TFO 90.00
13063.21	90.00	179.43	12380.00	-718.67	689.44	2.00	90.00	769.33	Start 9484.55 hold at 13063.21 MD
22547.75	90.00	179.43	12380.00	-10202.76	783.14	0.00	0.00	10232.77	TD at 22547.75

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
LP (PF Fed Com 806H)	12380.00	-402.81	668.83	32.077872	-103.314004
PBHL (PF Fed Com 806H)	12380.00	-10202.76	783.14	32.050933	-103.313934
SHL (PF Fed Com 806H)	0.00	0.00	0.00	32.078996	-103.316151



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

Plan: Plan #1 (Paul Foster Fed Com 806H/OH)
PF Fed Com
Created By: Dustin Ault
Date: 0:31, July 17 2021
Approved: _____
Date: _____

Released to Imaging: 3/15/2022 1:14:42 PM

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: PF Fed Com
Well: Paul Foster Fed Com 806H
Wellbore: OH
Design: Plan #1



Azimuths to Grid North
True North: -0.54°
Magnetic North: 5.86°
Magnetic Field
Strength: 47427.4nT
Dip Angle: 59.80°
Date: 7/16/2021
Model: IGRF2020



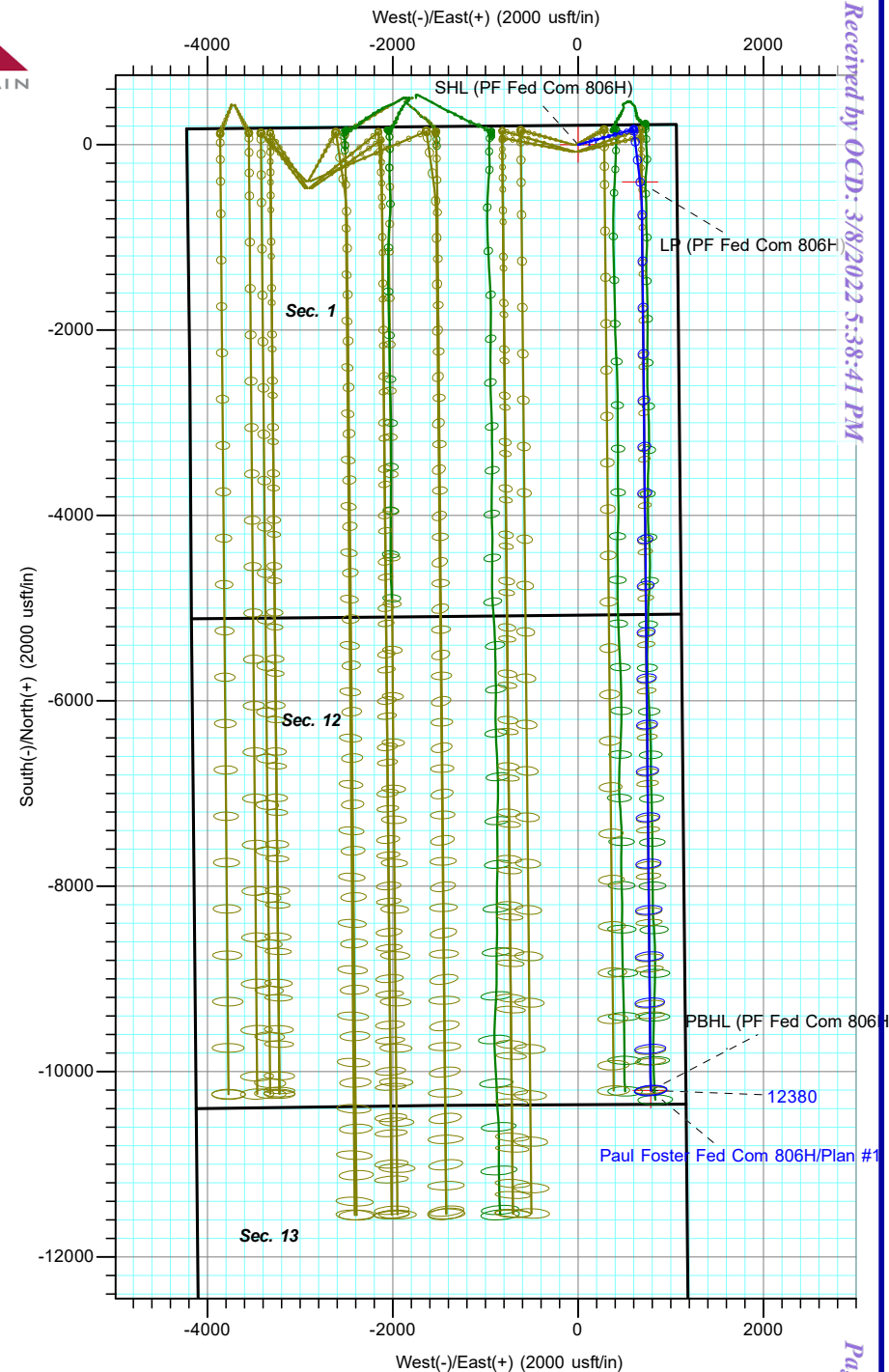
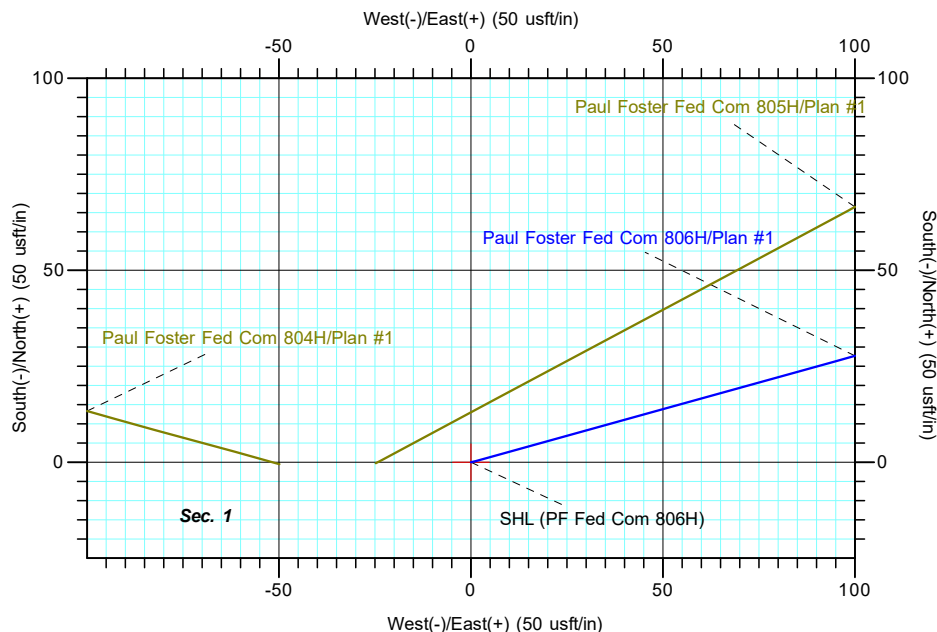
PROJECT DETAILS: Lea County, NM (NAD83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP (PF Fed Com 806H)	12380.00	-402.81	668.83	393558.45	857057.34	32.077872	-103.314004
PBHL (PF Fed Com 806H)	12380.00	-10202.76	783.14	383758.50	857171.65	32.050933	-103.313934
SHL (PF Fed Com 806H)	0.00	0.00	0.00	393961.26	856388.51	32.078996	-103.316151

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	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
2601.33	7.52	74.54	2599.89	8.76	31.66	1.50	74.54	-6.31	Start 4254.81 hold at 2601.33 MD
6856.14	7.52	74.54	6818.11	157.24	568.34	0.00	0.00	-113.29	Start Drop -1.50
7357.47	0.00	0.00	7318.00	166.00	600.00	1.50	180.00	-119.60	Start 4489.04 hold at 7357.47 MD
11846.51	0.00	0.00	11807.04	166.00	600.00	0.00	0.00	-119.60	Start Build 10.00
12746.51	90.00	173.10	12380.00	-402.81	668.83	10.00	173.10	452.81	Start DLS 2.00 TFO 90.00
13063.21	90.00	179.43	12380.00	-718.67	689.44	2.00	90.00	769.33	Start 9484.55 hold at 13063.21 MD
22547.75	90.00	179.43	12380.00-10202.76	783.14	0.00	0.00	10232.77		TD at 22547.75



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

Plan: Plan #1 (Paul Foster Fed Com 806H/OH)
PF Fed Com
Created By: Dustin Ault
Date: 0:32, July 17 2021
Approved: _____
Date: _____

Received by OCD: 3/8/2022 5:38:41 PM

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Franklin Mountain Energy

Lea County, NM (NAD83)

PF Fed Com

Paul Foster Fed Com 806H

OH

Plan: Plan #1

Standard Planning Report

17 July, 2021





Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Company:	Franklin Mountain Energy	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site:	PF Fed Com	North Reference:	Grid
Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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

Site	PF Fed Com			
Site Position:		Northing:	393,493.72 usft	Latitude: 32.077787
From:	Lat/Long	Easting:	853,440.15 usft	Longitude: -103.325683
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.54 °

Well	Paul Foster Fed Com 806H			
Well Position	+N/-S	467.54 usft	Northing:	393,961.26 usft
	+E/-W	2,948.36 usft	Easting:	856,388.51 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:		Ground Level: 3,031.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/16/2021	6.41	59.80	47,427.41936062

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	175.61

Plan Survey Tool Program	Date	7/17/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,547.76 Plan #1 (OH)	OWSG (Rev2) MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,601.33	7.52	74.54	2,599.89	8.76	31.66	1.50	1.50	0.00	74.54	
6,856.14	7.52	74.54	6,818.11	157.24	568.34	0.00	0.00	0.00	0.00	
7,357.47	0.00	0.00	7,318.00	166.00	600.00	1.50	-1.50	0.00	180.00	
11,846.51	0.00	0.00	11,807.04	166.00	600.00	0.00	0.00	0.00	0.00	
12,746.51	90.00	173.10	12,380.00	-402.81	668.83	10.00	10.00	0.00	173.10	
13,063.21	90.00	179.43	12,380.00	-718.67	689.44	2.00	0.00	2.00	90.00	
22,547.76	90.00	179.43	12,380.00	-10,202.76	783.14	0.00	0.00	0.00	0.00	PBHL (PF Fed Com 8



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Company:	Franklin Mountain Energy	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site:	PF Fed Com	North Reference:	Grid
Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (PF Fed Com 806H)									
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
Start Build 1.50									
2,200.00	1.50	74.54	2,199.99	0.35	1.26	-0.25	1.50	1.50	0.00
2,300.00	3.00	74.54	2,299.91	1.40	5.05	-1.01	1.50	1.50	0.00
2,400.00	4.50	74.54	2,399.69	3.14	11.35	-2.26	1.50	1.50	0.00
2,500.00	6.00	74.54	2,499.27	5.58	20.17	-4.02	1.50	1.50	0.00
2,601.33	7.52	74.54	2,599.89	8.76	31.66	-6.31	1.50	1.50	0.00
Start 4254.81 hold at 2601.33 MD									
2,700.00	7.52	74.54	2,697.71	12.20	44.11	-8.79	0.00	0.00	0.00
2,800.00	7.52	74.54	2,796.85	15.69	56.72	-11.31	0.00	0.00	0.00
2,900.00	7.52	74.54	2,895.99	19.18	69.33	-13.82	0.00	0.00	0.00
3,000.00	7.52	74.54	2,995.13	22.67	81.95	-16.33	0.00	0.00	0.00
3,100.00	7.52	74.54	3,094.27	26.16	94.56	-18.85	0.00	0.00	0.00
3,200.00	7.52	74.54	3,193.41	29.65	107.18	-21.36	0.00	0.00	0.00
3,300.00	7.52	74.54	3,292.55	33.14	119.79	-23.88	0.00	0.00	0.00
3,400.00	7.52	74.54	3,391.69	36.63	132.40	-26.39	0.00	0.00	0.00
3,500.00	7.52	74.54	3,490.83	40.12	145.02	-28.91	0.00	0.00	0.00
3,600.00	7.52	74.54	3,589.97	43.61	157.63	-31.42	0.00	0.00	0.00
3,700.00	7.52	74.54	3,689.11	47.10	170.24	-33.93	0.00	0.00	0.00
3,800.00	7.52	74.54	3,788.25	50.59	182.86	-36.45	0.00	0.00	0.00
3,900.00	7.52	74.54	3,887.39	54.08	195.47	-38.96	0.00	0.00	0.00
4,000.00	7.52	74.54	3,986.53	57.57	208.08	-41.48	0.00	0.00	0.00
4,100.00	7.52	74.54	4,085.67	61.06	220.70	-43.99	0.00	0.00	0.00
4,200.00	7.52	74.54	4,184.81	64.55	233.31	-46.51	0.00	0.00	0.00
4,300.00	7.52	74.54	4,283.95	68.04	245.92	-49.02	0.00	0.00	0.00
4,400.00	7.52	74.54	4,383.09	71.53	258.54	-51.53	0.00	0.00	0.00
4,500.00	7.52	74.54	4,482.23	75.02	271.15	-54.05	0.00	0.00	0.00
4,600.00	7.52	74.54	4,581.37	78.51	283.76	-56.56	0.00	0.00	0.00
4,700.00	7.52	74.54	4,680.51	82.00	296.38	-59.08	0.00	0.00	0.00
4,800.00	7.52	74.54	4,779.65	85.49	308.99	-61.59	0.00	0.00	0.00
4,900.00	7.52	74.54	4,878.79	88.98	321.60	-64.10	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Company:	Franklin Mountain Energy	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site:	PF Fed Com	North Reference:	Grid
Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.00	7.52	74.54	4,977.93	92.47	334.22	-66.62	0.00	0.00	0.00
5,100.00	7.52	74.54	5,077.07	95.96	346.83	-69.13	0.00	0.00	0.00
5,200.00	7.52	74.54	5,176.21	99.45	359.44	-71.65	0.00	0.00	0.00
5,300.00	7.52	74.54	5,275.35	102.94	372.06	-74.16	0.00	0.00	0.00
5,400.00	7.52	74.54	5,374.49	106.43	384.67	-76.68	0.00	0.00	0.00
5,500.00	7.52	74.54	5,473.63	109.91	397.28	-79.19	0.00	0.00	0.00
5,600.00	7.52	74.54	5,572.77	113.40	409.90	-81.70	0.00	0.00	0.00
5,700.00	7.52	74.54	5,671.91	116.89	422.51	-84.22	0.00	0.00	0.00
5,800.00	7.52	74.54	5,771.05	120.38	435.12	-86.73	0.00	0.00	0.00
5,900.00	7.52	74.54	5,870.19	123.87	447.74	-89.25	0.00	0.00	0.00
6,000.00	7.52	74.54	5,969.33	127.36	460.35	-91.76	0.00	0.00	0.00
6,100.00	7.52	74.54	6,068.47	130.85	472.96	-94.27	0.00	0.00	0.00
6,200.00	7.52	74.54	6,167.61	134.34	485.58	-96.79	0.00	0.00	0.00
6,300.00	7.52	74.54	6,266.75	137.83	498.19	-99.30	0.00	0.00	0.00
6,400.00	7.52	74.54	6,365.89	141.32	510.80	-101.82	0.00	0.00	0.00
6,500.00	7.52	74.54	6,465.03	144.81	523.42	-104.33	0.00	0.00	0.00
6,600.00	7.52	74.54	6,564.17	148.30	536.03	-106.85	0.00	0.00	0.00
6,700.00	7.52	74.54	6,663.31	151.79	548.64	-109.36	0.00	0.00	0.00
6,800.00	7.52	74.54	6,762.45	155.28	561.26	-111.87	0.00	0.00	0.00
6,856.14	7.52	74.54	6,818.11	157.24	568.34	-113.29	0.00	0.00	0.00
Start Drop -1.50									
6,900.00	6.86	74.54	6,861.62	158.70	573.63	-114.34	1.50	-1.50	0.00
7,000.00	5.36	74.54	6,961.05	161.54	583.89	-116.39	1.50	-1.50	0.00
7,100.00	3.86	74.54	7,060.72	163.69	591.64	-117.93	1.50	-1.50	0.00
7,200.00	2.36	74.54	7,160.57	165.13	596.87	-118.97	1.50	-1.50	0.00
7,300.00	0.86	74.54	7,260.53	165.88	599.58	-119.51	1.50	-1.50	0.00
7,357.47	0.00	0.00	7,318.00	166.00	600.00	-119.60	1.50	-1.50	0.00
Start 4489.04 hold at 7357.47 MD									
7,400.00	0.00	0.00	7,360.53	166.00	600.00	-119.60	0.00	0.00	0.00
7,500.00	0.00	0.00	7,460.53	166.00	600.00	-119.60	0.00	0.00	0.00
7,600.00	0.00	0.00	7,560.53	166.00	600.00	-119.60	0.00	0.00	0.00
7,700.00	0.00	0.00	7,660.53	166.00	600.00	-119.60	0.00	0.00	0.00
7,800.00	0.00	0.00	7,760.53	166.00	600.00	-119.60	0.00	0.00	0.00
7,900.00	0.00	0.00	7,860.53	166.00	600.00	-119.60	0.00	0.00	0.00
8,000.00	0.00	0.00	7,960.53	166.00	600.00	-119.60	0.00	0.00	0.00
8,100.00	0.00	0.00	8,060.53	166.00	600.00	-119.60	0.00	0.00	0.00
8,200.00	0.00	0.00	8,160.53	166.00	600.00	-119.60	0.00	0.00	0.00
8,300.00	0.00	0.00	8,260.53	166.00	600.00	-119.60	0.00	0.00	0.00
8,400.00	0.00	0.00	8,360.53	166.00	600.00	-119.60	0.00	0.00	0.00
8,500.00	0.00	0.00	8,460.53	166.00	600.00	-119.60	0.00	0.00	0.00
8,600.00	0.00	0.00	8,560.53	166.00	600.00	-119.60	0.00	0.00	0.00
8,700.00	0.00	0.00	8,660.53	166.00	600.00	-119.60	0.00	0.00	0.00
8,800.00	0.00	0.00	8,760.53	166.00	600.00	-119.60	0.00	0.00	0.00
8,900.00	0.00	0.00	8,860.53	166.00	600.00	-119.60	0.00	0.00	0.00
9,000.00	0.00	0.00	8,960.53	166.00	600.00	-119.60	0.00	0.00	0.00
9,100.00	0.00	0.00	9,060.53	166.00	600.00	-119.60	0.00	0.00	0.00
9,200.00	0.00	0.00	9,160.53	166.00	600.00	-119.60	0.00	0.00	0.00
9,300.00	0.00	0.00	9,260.53	166.00	600.00	-119.60	0.00	0.00	0.00
9,400.00	0.00	0.00	9,360.53	166.00	600.00	-119.60	0.00	0.00	0.00
9,500.00	0.00	0.00	9,460.53	166.00	600.00	-119.60	0.00	0.00	0.00
9,600.00	0.00	0.00	9,560.53	166.00	600.00	-119.60	0.00	0.00	0.00
9,700.00	0.00	0.00	9,660.53	166.00	600.00	-119.60	0.00	0.00	0.00
9,800.00	0.00	0.00	9,760.53	166.00	600.00	-119.60	0.00	0.00	0.00
9,900.00	0.00	0.00	9,860.53	166.00	600.00	-119.60	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Company:	Franklin Mountain Energy	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site:	PF Fed Com	North Reference:	Grid
Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,000.00	0.00	0.00	9,960.53	166.00	600.00	-119.60	0.00	0.00	0.00
10,100.00	0.00	0.00	10,060.53	166.00	600.00	-119.60	0.00	0.00	0.00
10,200.00	0.00	0.00	10,160.53	166.00	600.00	-119.60	0.00	0.00	0.00
10,300.00	0.00	0.00	10,260.53	166.00	600.00	-119.60	0.00	0.00	0.00
10,400.00	0.00	0.00	10,360.53	166.00	600.00	-119.60	0.00	0.00	0.00
10,500.00	0.00	0.00	10,460.53	166.00	600.00	-119.60	0.00	0.00	0.00
10,600.00	0.00	0.00	10,560.53	166.00	600.00	-119.60	0.00	0.00	0.00
10,700.00	0.00	0.00	10,660.53	166.00	600.00	-119.60	0.00	0.00	0.00
10,800.00	0.00	0.00	10,760.53	166.00	600.00	-119.60	0.00	0.00	0.00
10,900.00	0.00	0.00	10,860.53	166.00	600.00	-119.60	0.00	0.00	0.00
11,000.00	0.00	0.00	10,960.53	166.00	600.00	-119.60	0.00	0.00	0.00
11,100.00	0.00	0.00	11,060.53	166.00	600.00	-119.60	0.00	0.00	0.00
11,200.00	0.00	0.00	11,160.53	166.00	600.00	-119.60	0.00	0.00	0.00
11,300.00	0.00	0.00	11,260.53	166.00	600.00	-119.60	0.00	0.00	0.00
11,400.00	0.00	0.00	11,360.53	166.00	600.00	-119.60	0.00	0.00	0.00
11,500.00	0.00	0.00	11,460.53	166.00	600.00	-119.60	0.00	0.00	0.00
11,600.00	0.00	0.00	11,560.53	166.00	600.00	-119.60	0.00	0.00	0.00
11,700.00	0.00	0.00	11,660.53	166.00	600.00	-119.60	0.00	0.00	0.00
11,800.00	0.00	0.00	11,760.53	166.00	600.00	-119.60	0.00	0.00	0.00
11,846.51	0.00	0.00	11,807.04	166.00	600.00	-119.60	0.00	0.00	0.00
Start Build 10.00									
11,850.00	0.35	173.10	11,810.53	165.99	600.00	-119.59	10.00	10.00	0.00
11,900.00	5.35	173.10	11,860.45	163.52	600.30	-117.10	10.00	10.00	0.00
11,950.00	10.35	173.10	11,909.97	156.75	601.12	-110.29	10.00	10.00	0.00
12,000.00	15.35	173.10	11,958.70	145.71	602.46	-99.18	10.00	10.00	0.00
12,050.00	20.35	173.10	12,006.28	130.50	604.30	-83.87	10.00	10.00	0.00
12,100.00	25.35	173.10	12,052.34	111.23	606.63	-64.48	10.00	10.00	0.00
12,150.00	30.35	173.10	12,096.54	88.05	609.43	-41.16	10.00	10.00	0.00
12,200.00	35.35	173.10	12,138.53	61.14	612.69	-14.07	10.00	10.00	0.00
12,250.00	40.35	173.10	12,178.00	30.69	616.37	16.57	10.00	10.00	0.00
12,300.00	45.35	173.10	12,214.64	-3.06	620.46	50.53	10.00	10.00	0.00
12,350.00	50.35	173.10	12,248.19	-39.85	624.91	87.55	10.00	10.00	0.00
12,400.00	55.35	173.10	12,278.37	-79.40	629.70	127.35	10.00	10.00	0.00
12,450.00	60.35	173.10	12,304.97	-121.41	634.78	169.63	10.00	10.00	0.00
12,500.00	65.35	173.10	12,327.78	-165.56	640.12	214.06	10.00	10.00	0.00
12,550.00	70.35	173.10	12,346.63	-211.52	645.69	260.31	10.00	10.00	0.00
12,600.00	75.35	173.10	12,361.37	-258.94	651.42	308.03	10.00	10.00	0.00
12,650.00	80.35	173.10	12,371.89	-307.45	657.29	356.85	10.00	10.00	0.00
12,700.00	85.35	173.10	12,378.11	-356.68	663.25	406.40	10.00	10.00	0.00
12,746.51	90.00	173.10	12,380.00	-402.81	668.83	452.81	10.00	10.00	0.00
Start DLS 2.00 TFO 90.00 - LP (PF Fed Com 806H)									
12,800.00	90.00	174.17	12,380.00	-455.97	674.76	506.27	2.00	0.00	2.00
12,900.00	90.00	176.17	12,380.00	-555.61	683.18	606.26	2.00	0.00	2.00
13,000.00	90.00	178.17	12,380.00	-655.48	688.12	706.22	2.00	0.00	2.00
13,063.21	90.00	179.43	12,380.00	-718.67	689.44	769.33	2.00	0.00	2.00
Start 9484.55 hold at 13063.21 MD									
13,100.00	90.00	179.43	12,380.00	-755.46	689.81	806.04	0.00	0.00	0.00
13,200.00	90.00	179.43	12,380.00	-855.46	690.79	905.81	0.00	0.00	0.00
13,300.00	90.00	179.43	12,380.00	-955.45	691.78	1,005.59	0.00	0.00	0.00
13,400.00	90.00	179.43	12,380.00	-1,055.45	692.77	1,105.37	0.00	0.00	0.00
13,500.00	90.00	179.43	12,380.00	-1,155.44	693.76	1,205.15	0.00	0.00	0.00
13,600.00	90.00	179.43	12,380.00	-1,255.44	694.75	1,304.92	0.00	0.00	0.00
13,700.00	90.00	179.43	12,380.00	-1,355.43	695.73	1,404.70	0.00	0.00	0.00



Total Directional Services

Planning Report



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Company:	Franklin Mountain Energy	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3031' GE + 30' KB @ 3061.00usft
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Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,800.00	90.00	179.43	12,380.00	-1,455.43	696.72	1,504.48	0.00	0.00	0.00
13,900.00	90.00	179.43	12,380.00	-1,555.42	697.71	1,604.26	0.00	0.00	0.00
14,000.00	90.00	179.43	12,380.00	-1,655.42	698.70	1,704.03	0.00	0.00	0.00
14,100.00	90.00	179.43	12,380.00	-1,755.41	699.68	1,803.81	0.00	0.00	0.00
14,200.00	90.00	179.43	12,380.00	-1,855.41	700.67	1,903.59	0.00	0.00	0.00
14,300.00	90.00	179.43	12,380.00	-1,955.40	701.66	2,003.37	0.00	0.00	0.00
14,400.00	90.00	179.43	12,380.00	-2,055.40	702.65	2,103.14	0.00	0.00	0.00
14,500.00	90.00	179.43	12,380.00	-2,155.39	703.64	2,202.92	0.00	0.00	0.00
14,600.00	90.00	179.43	12,380.00	-2,255.39	704.62	2,302.70	0.00	0.00	0.00
14,700.00	90.00	179.43	12,380.00	-2,355.38	705.61	2,402.48	0.00	0.00	0.00
14,800.00	90.00	179.43	12,380.00	-2,455.38	706.60	2,502.25	0.00	0.00	0.00
14,900.00	90.00	179.43	12,380.00	-2,555.37	707.59	2,602.03	0.00	0.00	0.00
15,000.00	90.00	179.43	12,380.00	-2,655.37	708.58	2,701.81	0.00	0.00	0.00
15,100.00	90.00	179.43	12,380.00	-2,755.37	709.56	2,801.59	0.00	0.00	0.00
15,200.00	90.00	179.43	12,380.00	-2,855.36	710.55	2,901.36	0.00	0.00	0.00
15,300.00	90.00	179.43	12,380.00	-2,955.36	711.54	3,001.14	0.00	0.00	0.00
15,400.00	90.00	179.43	12,380.00	-3,055.35	712.53	3,100.92	0.00	0.00	0.00
15,500.00	90.00	179.43	12,380.00	-3,155.35	713.52	3,200.70	0.00	0.00	0.00
15,600.00	90.00	179.43	12,380.00	-3,255.34	714.50	3,300.47	0.00	0.00	0.00
15,700.00	90.00	179.43	12,380.00	-3,355.34	715.49	3,400.25	0.00	0.00	0.00
15,800.00	90.00	179.43	12,380.00	-3,455.33	716.48	3,500.03	0.00	0.00	0.00
15,900.00	90.00	179.43	12,380.00	-3,555.33	717.47	3,599.81	0.00	0.00	0.00
16,000.00	90.00	179.43	12,380.00	-3,655.32	718.46	3,699.58	0.00	0.00	0.00
16,100.00	90.00	179.43	12,380.00	-3,755.32	719.44	3,799.36	0.00	0.00	0.00
16,200.00	90.00	179.43	12,380.00	-3,855.31	720.43	3,899.14	0.00	0.00	0.00
16,300.00	90.00	179.43	12,380.00	-3,955.31	721.42	3,998.92	0.00	0.00	0.00
16,400.00	90.00	179.43	12,380.00	-4,055.30	722.41	4,098.69	0.00	0.00	0.00
16,500.00	90.00	179.43	12,380.00	-4,155.30	723.39	4,198.47	0.00	0.00	0.00
16,600.00	90.00	179.43	12,380.00	-4,255.29	724.38	4,298.25	0.00	0.00	0.00
16,700.00	90.00	179.43	12,380.00	-4,355.29	725.37	4,398.03	0.00	0.00	0.00
16,800.00	90.00	179.43	12,380.00	-4,455.28	726.36	4,497.80	0.00	0.00	0.00
16,900.00	90.00	179.43	12,380.00	-4,555.28	727.35	4,597.58	0.00	0.00	0.00
17,000.00	90.00	179.43	12,380.00	-4,655.27	728.33	4,697.36	0.00	0.00	0.00
17,100.00	90.00	179.43	12,380.00	-4,755.27	729.32	4,797.14	0.00	0.00	0.00
17,200.00	90.00	179.43	12,380.00	-4,855.26	730.31	4,896.91	0.00	0.00	0.00
17,300.00	90.00	179.43	12,380.00	-4,955.26	731.30	4,996.69	0.00	0.00	0.00
17,400.00	90.00	179.43	12,380.00	-5,055.25	732.29	5,096.47	0.00	0.00	0.00
17,500.00	90.00	179.43	12,380.00	-5,155.25	733.27	5,196.25	0.00	0.00	0.00
17,600.00	90.00	179.43	12,380.00	-5,255.24	734.26	5,296.02	0.00	0.00	0.00
17,700.00	90.00	179.43	12,380.00	-5,355.24	735.25	5,395.80	0.00	0.00	0.00
17,800.00	90.00	179.43	12,380.00	-5,455.23	736.24	5,495.58	0.00	0.00	0.00
17,900.00	90.00	179.43	12,380.00	-5,555.23	737.23	5,595.36	0.00	0.00	0.00
18,000.00	90.00	179.43	12,380.00	-5,655.22	738.21	5,695.13	0.00	0.00	0.00
18,100.00	90.00	179.43	12,380.00	-5,755.22	739.20	5,794.91	0.00	0.00	0.00
18,200.00	90.00	179.43	12,380.00	-5,855.21	740.19	5,894.69	0.00	0.00	0.00
18,300.00	90.00	179.43	12,380.00	-5,955.21	741.18	5,994.47	0.00	0.00	0.00
18,400.00	90.00	179.43	12,380.00	-6,055.20	742.17	6,094.24	0.00	0.00	0.00
18,500.00	90.00	179.43	12,380.00	-6,155.20	743.15	6,194.02	0.00	0.00	0.00
18,600.00	90.00	179.43	12,380.00	-6,255.19	744.14	6,293.80	0.00	0.00	0.00
18,700.00	90.00	179.43	12,380.00	-6,355.19	745.13	6,393.58	0.00	0.00	0.00
18,800.00	90.00	179.43	12,380.00	-6,455.18	746.12	6,493.35	0.00	0.00	0.00
18,900.00	90.00	179.43	12,380.00	-6,555.18	747.10	6,593.13	0.00	0.00	0.00
19,000.00	90.00	179.43	12,380.00	-6,655.17	748.09	6,692.91	0.00	0.00	0.00
19,100.00	90.00	179.43	12,380.00	-6,755.17	749.08	6,792.69	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Company:	Franklin Mountain Energy	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site:	PF Fed Com	North Reference:	Grid
Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
19,200.00	90.00	179.43	12,380.00	-6,855.17	750.07	6,892.46	0.00	0.00	0.00	
19,300.00	90.00	179.43	12,380.00	-6,955.16	751.06	6,992.24	0.00	0.00	0.00	
19,400.00	90.00	179.43	12,380.00	-7,055.16	752.04	7,092.02	0.00	0.00	0.00	
19,500.00	90.00	179.43	12,380.00	-7,155.15	753.03	7,191.80	0.00	0.00	0.00	
19,600.00	90.00	179.43	12,380.00	-7,255.15	754.02	7,291.57	0.00	0.00	0.00	
19,700.00	90.00	179.43	12,380.00	-7,355.14	755.01	7,391.35	0.00	0.00	0.00	
19,800.00	90.00	179.43	12,380.00	-7,455.14	756.00	7,491.13	0.00	0.00	0.00	
19,900.00	90.00	179.43	12,380.00	-7,555.13	756.98	7,590.91	0.00	0.00	0.00	
20,000.00	90.00	179.43	12,380.00	-7,655.13	757.97	7,690.68	0.00	0.00	0.00	
20,100.00	90.00	179.43	12,380.00	-7,755.12	758.96	7,790.46	0.00	0.00	0.00	
20,200.00	90.00	179.43	12,380.00	-7,855.12	759.95	7,890.24	0.00	0.00	0.00	
20,300.00	90.00	179.43	12,380.00	-7,955.11	760.94	7,990.02	0.00	0.00	0.00	
20,400.00	90.00	179.43	12,380.00	-8,055.11	761.92	8,089.79	0.00	0.00	0.00	
20,500.00	90.00	179.43	12,380.00	-8,155.10	762.91	8,189.57	0.00	0.00	0.00	
20,600.00	90.00	179.43	12,380.00	-8,255.10	763.90	8,289.35	0.00	0.00	0.00	
20,700.00	90.00	179.43	12,380.00	-8,355.09	764.89	8,389.13	0.00	0.00	0.00	
20,800.00	90.00	179.43	12,380.00	-8,455.09	765.88	8,488.90	0.00	0.00	0.00	
20,900.00	90.00	179.43	12,380.00	-8,555.08	766.86	8,588.68	0.00	0.00	0.00	
21,000.00	90.00	179.43	12,380.00	-8,655.08	767.85	8,688.46	0.00	0.00	0.00	
21,100.00	90.00	179.43	12,380.00	-8,755.07	768.84	8,788.24	0.00	0.00	0.00	
21,200.00	90.00	179.43	12,380.00	-8,855.07	769.83	8,888.01	0.00	0.00	0.00	
21,300.00	90.00	179.43	12,380.00	-8,955.06	770.81	8,987.79	0.00	0.00	0.00	
21,400.00	90.00	179.43	12,380.00	-9,055.06	771.80	9,087.57	0.00	0.00	0.00	
21,500.00	90.00	179.43	12,380.00	-9,155.05	772.79	9,187.35	0.00	0.00	0.00	
21,600.00	90.00	179.43	12,380.00	-9,255.05	773.78	9,287.12	0.00	0.00	0.00	
21,700.00	90.00	179.43	12,380.00	-9,355.04	774.77	9,386.90	0.00	0.00	0.00	
21,800.00	90.00	179.43	12,380.00	-9,455.04	775.75	9,486.68	0.00	0.00	0.00	
21,900.00	90.00	179.43	12,380.00	-9,555.03	776.74	9,586.46	0.00	0.00	0.00	
22,000.00	90.00	179.43	12,380.00	-9,655.03	777.73	9,686.23	0.00	0.00	0.00	
22,100.00	90.00	179.43	12,380.00	-9,755.02	778.72	9,786.01	0.00	0.00	0.00	
22,200.00	90.00	179.43	12,380.00	-9,855.02	779.71	9,885.79	0.00	0.00	0.00	
22,300.00	90.00	179.43	12,380.00	-9,955.01	780.69	9,985.57	0.00	0.00	0.00	
22,400.00	90.00	179.43	12,380.00	-10,055.01	781.68	10,085.34	0.00	0.00	0.00	
22,500.00	90.00	179.43	12,380.00	-10,155.00	782.67	10,185.12	0.00	0.00	0.00	
22,547.76	90.00	179.43	12,380.00	-10,202.76	783.14	10,232.77	0.00	0.00	0.00	
TD at 22547.75 - PBHL (PF Fed Com 806H)										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL (PF Fed Com 806H) - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	393,961.26	856,388.51	32.078996	-103.316151	
PBHL (PF Fed Com 806) - plan hits target center - Point	0.00	0.00	12,380.00	-10,202.76	783.14	383,758.50	857,171.65	32.050933	-103.313934	
LP (PF Fed Com 806H) - plan hits target center - Point	0.00	0.00	12,380.00	-402.81	668.83	393,558.45	857,057.34	32.077872	-103.314004	



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Company:	Franklin Mountain Energy	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site:	PF Fed Com	North Reference:	Grid
Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,100.00	2,100.00	0.00	0.00	Start Build 1.50
2,601.33	2,599.89	8.76	31.66	Start 4254.81 hold at 2601.33 MD
6,856.14	6,818.11	157.24	568.34	Start Drop -1.50
7,357.47	7,318.00	166.00	600.00	Start 4489.04 hold at 7357.47 MD
11,846.51	11,807.04	166.00	600.00	Start Build 10.00
12,746.51	12,380.00	-402.81	668.83	Start DLS 2.00 TFO 90.00
13,063.21	12,380.00	-718.67	689.44	Start 9484.55 hold at 13063.21 MD
22,547.76	12,380.00	-10,202.76	783.14	TD at 22547.75



Franklin Mountain Energy

Lea County, NM (NAD83)
PF Fed Com
Paul Foster Fed Com 806H

OH
Plan #1

Anticollision Report

17 July, 2021





Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	7/16/2021
From (usft)	To (usft)	Survey (Wellbore)
0.00	22,547.76	Plan #1 (OH)
		Tool Name
		OWSG (Rev2) MWD
		Description
		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 - OH	0.00	26.22	1,887.87			
Bus Driver Fed Com 602H - OH - OH	1,400.00	1,425.00	1,891.17	1,884.48	282.595	ES
Bus Driver Fed Com 602H - OH - OH	17,500.00	16,643.00	2,793.26	2,659.56	20.891	SF
Bus Driver Fed Com 602H - OH - Plan #6	0.00	26.22	1,887.87			
Bus Driver Fed Com 602H - OH - Plan #6	1,400.00	1,425.00	1,891.17	1,884.48	282.595	ES
Bus Driver Fed Com 602H - OH - Plan #6	22,548.65	22,002.10	2,752.10	2,500.85	10.954	SF
Bus Driver Fed Com 702H - OH - OH	0.00	16.00	1,921.43			
Bus Driver Fed Com 702H - OH - OH	12,150.00	11,985.00	3,141.17	3,083.68	54.641	SF
Bus Driver Fed Com 702H - OH - Plan #5	0.00	16.00	1,921.43			
Bus Driver Fed Com 702H - OH - Plan #5	22,548.65	22,233.38	3,212.63	2,961.95	12.816	SF
Kaston Fed Com 603H - OH - OH	8,420.17	8,490.44	1,527.47	1,487.21	37.941	CC
Kaston Fed Com 603H - OH - OH	22,548.65	22,056.31	1,688.38	1,440.37	6.808	ES, SF
Kaston Fed Com 703H - OH - OH	0.00	25.05	1,854.28			
Kaston Fed Com 703H - OH - OH	12,000.00	11,899.00	2,138.31	2,081.57	37.689	SF
Kaston Fed Com 703H - OH - Plan #9	0.00	25.05	1,854.28			
Kaston Fed Com 703H - OH - Plan #9	22,548.65	22,192.90	2,246.77	1,998.50	9.050	SF
Judge Baylor Fed Com						
Judge Baylor Fed Com 601H - OH - Plan #5	2,100.00	2,139.00	3,763.97	3,753.55	361.369	CC, ES
Judge Baylor Fed Com 601H - OH - Plan #5	22,548.65	22,101.01	4,569.25	4,318.70	18.237	SF
Judge Baylor Fed Com 701H - OH - Plan #5	2,100.00	2,139.00	3,729.24	3,718.83	358.035	CC, ES
Judge Baylor Fed Com 701H - OH - Plan #5	22,548.65	22,390.53	4,246.25	3,994.84	16.890	SF
LHS Wildcat Fed Com						
LHS Wildcat Fed Com 604H - OH - OH	6,130.07	6,114.87	122.35	93.42	4.229	CC, ES
LHS Wildcat Fed Com 604H - OH - OH	22,548.65	21,859.66	428.44	260.49	2.551	SF
LHS Wildcat Fed Com 705H - OH - OH	19,653.60	19,229.61	96.93	-1.88	0.981	Level 1, CC, ES, SF

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

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						
PF Fed Com						
Paul Foster Fed Com 103H - OH - Plan #1	2,000.00	2,000.00	97.43	87.62	9.932	CC, ES
Paul Foster Fed Com 103H - OH - Plan #1	2,200.00	2,197.39	101.07	90.27	9.362	SF
Paul Foster Fed Com 104H - OH - Plan #1	2,100.00	2,100.00	76.01	65.70	7.368	CC
Paul Foster Fed Com 104H - OH - Plan #1	3,500.00	3,500.56	81.19	63.59	4.613	ES
Paul Foster Fed Com 104H - OH - Plan #1	7,900.00	7,906.68	113.40	72.09	2.745	SF
Paul Foster Fed Com 503H - OH - Plan #1	2,100.00	2,100.00	83.80	73.48	8.122	CC, ES
Paul Foster Fed Com 503H - OH - Plan #1	2,300.00	2,298.75	88.62	77.32	7.841	SF
Paul Foster Fed Com 504H - OH - Plan #1	4,788.90	4,794.86	47.91	23.10	1.931	CC
Paul Foster Fed Com 504H - OH - Plan #1	5,000.00	5,005.86	48.37	22.49	1.869	ES
Paul Foster Fed Com 504H - OH - Plan #1	9,900.00	9,916.26	79.61	29.86	1.600	SF
Paul Foster Fed Com 804H - OH - Plan #1	2,000.00	2,000.00	49.87	40.06	5.084	CC, ES
Paul Foster Fed Com 804H - OH - Plan #1	2,100.00	2,098.74	51.11	40.81	4.960	SF
Paul Foster Fed Com 805H - OH - Plan #1	2,100.00	2,100.00	24.78	14.46	2.402	CC, ES, SF
PF Fed Com 101H - OH - Plan #1	1,907.27	1,929.27	2,985.20	2,975.81	317.731	CC
PF Fed Com 101H - OH - Plan #1	2,000.00	2,016.16	2,985.23	2,975.38	303.057	ES
PF Fed Com 101H - OH - Plan #1	9,000.00	8,600.00	3,972.86	3,929.09	90.770	SF
PF Fed Com 102H - OH - Plan #1	6,615.49	7,032.11	2,721.99	2,686.79	77.339	CC
PF Fed Com 102H - OH - Plan #1	8,200.00	8,250.00	2,726.06	2,684.12	64.996	ES
PF Fed Com 102H - OH - Plan #1	22,548.65	18,767.26	4,690.79	4,522.52	27.875	SF
PF Fed Com 501H - OH - Plan #1	2,007.27	2,029.27	2,960.70	2,950.79	298.990	CC
PF Fed Com 501H - OH - Plan #1	2,100.00	2,116.60	2,960.72	2,950.36	285.825	ES
PF Fed Com 501H - OH - Plan #1	22,548.65	20,792.10	4,384.66	4,159.16	19.444	SF
PF Fed Com 502H - OH - Plan #1	6,507.90	6,937.90	2,739.76	2,704.73	78.203	CC
PF Fed Com 502H - OH - Plan #1	10,320.78	10,432.77	2,751.49	2,699.25	52.671	ES
PF Fed Com 502H - OH - Plan #1	22,548.65	20,735.20	3,383.65	3,175.75	16.276	SF
PF Fed Com 801H - OH - Plan #1	1,907.26	1,929.26	2,962.79	2,953.39	315.345	CC
PF Fed Com 801H - OH - Plan #1	2,000.00	2,000.00	2,962.87	2,953.06	302.044	ES
PF Fed Com 801H - OH - Plan #1	22,548.65	22,715.49	4,108.30	3,864.54	16.854	SF
PF Fed Com 802H - OH - Plan #1	2,100.00	2,122.00	2,937.89	2,927.52	283.239	CC, ES
PF Fed Com 802H - OH - Plan #1	22,548.65	22,617.87	3,186.22	2,942.25	13.060	SF
PF Fed Com 803H - OH - Plan #1	12,612.23	13,100.00	2,215.82	2,152.52	35.005	CC
PF Fed Com 803H - OH - Plan #1	22,548.65	22,820.84	2,222.74	1,978.94	9.117	ES, SF

Offset Design Bus Driver/Kaston Fed Com - Bus Driver Fed Com 602H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 112-OWSG (Rev2) MWD, 1352-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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	26.22	26.22	0.00	0.03	-74.49	504.83	-1,819.12	1,887.87				
100.00	100.00	125.50	125.50	0.13	0.19	-74.48	505.05	-1,819.10	1,887.91	1,887.68	0.23	8,184.243	
200.00	200.00	221.80	221.80	0.48	0.53	-74.48	505.17	-1,819.15	1,887.99	1,887.28	0.72	2,632.704	
300.00	300.00	300.56	300.55	0.84	0.81	-74.46	505.90	-1,819.63	1,888.83	1,887.66	1.17	1,616.028	
400.00	400.00	379.50	379.47	1.20	1.09	-74.43	507.27	-1,820.86	1,890.79	1,889.16	1.62	1,164.589	
500.00	500.00	478.59	478.52	1.56	1.45	-74.41	508.78	-1,823.28	1,893.54	1,891.41	2.13	890.599	
600.00	600.00	588.13	588.02	1.92	1.84	-74.43	508.75	-1,825.80	1,895.75	1,893.09	2.65	714.787	
700.00	700.00	685.08	684.92	2.28	2.18	-74.51	506.75	-1,828.25	1,897.64	1,894.49	3.15	603.341	
800.00	800.00	868.08	867.57	2.63	2.82	-74.83	496.14	-1,829.99	1,896.50	1,892.65	3.85	492.583	
900.00	900.00	941.02	940.27	2.99	3.07	-75.00	490.42	-1,830.77	1,895.36	1,891.08	4.29	442.143	
1,000.00	1,000.00	1,045.00	1,044.05	3.35	3.44	-75.20	483.87	-1,831.17	1,894.11	1,889.30	4.80	394.320	
1,100.00	1,100.00	1,147.66	1,146.55	3.71	3.81	-75.37	478.11	-1,831.71	1,893.19	1,887.87	5.32	355.972	

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kaston Fed Com - Bus Driver Fed Com 602H - OH - OH		Offset Site Error:	0.00 usft
Survey Program: 112-OWSG (Rev2) MWD, 1352-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
6,300.00	6,266.75	6,206.21	6,189.01	23.62	18.19	-161.81	244.99	-1,973.29	2,476.00	2,447.28	28.72	86.207				
6,400.00	6,365.89	6,280.51	6,262.90	24.03	18.47	-162.04	238.20	-1,977.09	2,493.14	2,463.98	29.16	85.509				
6,500.00	6,465.03	6,365.92	6,347.75	24.44	18.79	-162.32	229.87	-1,982.14	2,511.12	2,481.50	29.63	84.762				
6,600.00	6,564.17	6,468.42	6,449.58	24.84	19.19	-162.65	219.88	-1,988.22	2,529.21	2,499.06	30.15	83.887				
6,700.00	6,663.31	6,571.58	6,552.05	25.25	19.58	-162.98	209.55	-1,994.13	2,547.16	2,516.48	30.68	83.030				
6,800.00	6,762.45	6,682.13	6,661.93	25.66	20.00	-163.32	198.92	-2,000.10	2,564.87	2,533.64	31.23	82.133				
6,856.14	6,818.11	6,742.34	6,721.83	25.89	20.23	-163.49	193.65	-2,003.07	2,574.60	2,543.07	31.53	81.653				
6,900.00	6,861.62	6,786.87	6,766.16	26.06	20.40	-163.64	189.89	-2,005.23	2,581.93	2,550.17	31.76	81.298				
7,000.00	6,961.05	6,878.41	6,857.30	26.46	20.74	-163.93	182.63	-2,009.71	2,596.96	2,564.72	32.24	80.541				
7,100.00	7,060.72	6,959.41	6,937.98	26.84	21.05	-164.15	177.01	-2,014.05	2,610.00	2,577.31	32.69	79.840				
7,200.00	7,160.57	7,056.06	7,034.31	27.20	21.40	-164.34	171.62	-2,019.78	2,621.12	2,587.94	33.18	78.992				
7,300.00	7,260.53	7,166.94	7,144.88	27.55	21.81	-164.51	166.17	-2,026.02	2,629.45	2,595.73	33.72	77.989				
7,357.47	7,318.00	7,229.86	7,207.64	27.74	22.04	-90.06	163.15	-2,029.35	2,632.91	2,598.89	34.02	77.401				
7,400.00	7,360.53	7,276.21	7,253.88	27.88	22.21	-90.11	161.11	-2,031.72	2,635.09	2,600.85	34.24	76.965				
7,500.00	7,460.53	7,370.00	7,347.46	28.21	22.55	-90.19	157.24	-2,036.63	2,640.34	2,605.63	34.71	76.071				
7,600.00	7,560.53	7,504.25	7,481.47	28.54	23.03	-90.30	152.16	-2,042.91	2,645.05	2,609.75	35.31	74.920				
7,700.00	7,660.53	7,682.02	7,659.13	28.87	23.64	-90.37	148.99	-2,047.64	2,647.84	2,611.83	36.01	73.531				
7,800.00	7,760.53	7,811.49	7,788.60	29.20	24.06	-90.35	149.72	-2,047.98	2,648.03	2,611.47	36.55	72.441				
7,900.00	7,860.53	7,924.25	7,901.36	29.53	24.41	-90.35	149.98	-2,047.69	2,647.78	2,610.72	37.06	71.455				
8,000.00	7,960.53	8,043.24	8,020.34	29.87	24.79	-90.35	149.71	-2,046.62	2,646.88	2,609.31	37.57	70.444				
8,100.00	8,060.53	8,156.47	8,133.56	30.20	25.16	-90.37	149.12	-2,044.85	2,645.31	2,607.23	38.08	69.466				
8,200.00	8,160.53	8,243.98	8,221.05	30.53	25.44	-90.38	148.61	-2,043.34	2,643.61	2,605.08	38.53	68.614				
8,300.00	8,260.53	8,312.00	8,289.07	30.87	25.67	-90.39	148.20	-2,042.94	2,643.00	2,604.07	38.93	67.888				
8,302.04	8,262.57	8,312.00	8,289.07	30.88	25.67	-90.39	148.20	-2,042.94	2,643.00	2,604.06	38.94	67.880				
8,400.00	8,360.53	8,370.95	8,348.02	31.20	25.87	-90.39	147.96	-2,043.41	2,643.76	2,604.45	39.31	67.258				
8,500.00	8,460.53	8,465.52	8,442.56	31.54	26.18	-90.39	147.93	-2,045.25	2,645.69	2,605.91	39.78	66.513				
8,600.00	8,560.53	8,594.87	8,571.90	31.88	26.62	-90.39	148.20	-2,046.66	2,646.77	2,606.43	40.34	65.618				
8,700.00	8,660.53	8,694.99	8,672.02	32.21	26.95	-90.38	148.60	-2,047.24	2,647.34	2,606.52	40.82	64.860				
8,800.00	8,760.53	8,796.22	8,773.25	32.55	27.28	-90.37	148.99	-2,047.76	2,647.85	2,606.55	41.30	64.113				
8,900.00	8,860.53	8,885.82	8,862.84	32.89	27.58	-90.36	149.29	-2,048.40	2,648.57	2,606.81	41.75	63.432				
9,000.00	8,960.53	8,974.95	8,951.97	33.23	27.88	-90.35	149.60	-2,049.41	2,649.69	2,607.48	42.21	62.775				
9,100.00	9,060.53	9,070.30	9,047.32	33.56	28.20	-90.34	150.18	-2,050.76	2,651.11	2,608.43	42.68	62.116				
9,200.00	9,160.53	9,171.49	9,148.48	33.90	28.54	-90.32	151.16	-2,052.25	2,652.58	2,609.41	43.17	61.452				
9,300.00	9,260.53	9,269.92	9,246.90	34.24	28.86	-90.29	152.38	-2,053.71	2,654.05	2,610.41	43.64	60.813				
9,400.00	9,360.53	9,365.17	9,342.12	34.58	29.18	-90.27	153.66	-2,055.24	2,655.65	2,611.54	44.11	60.202				
9,500.00	9,460.53	9,459.25	9,436.18	34.92	29.49	-90.24	155.00	-2,056.94	2,657.45	2,612.87	44.58	59.612				
9,600.00	9,560.53	9,555.12	9,532.02	35.26	29.82	-90.21	156.43	-2,058.88	2,659.47	2,614.42	45.05	59.032				
9,700.00	9,660.53	9,658.54	9,635.41	35.60	30.16	-90.18	157.83	-2,060.93	2,661.44	2,615.90	45.54	58.435				
9,800.00	9,760.53	9,750.89	9,727.73	35.94	30.47	-90.15	158.90	-2,062.79	2,663.46	2,617.46	46.01	57.890				
9,900.00	9,860.53	9,985.23	9,962.01	36.29	31.26	-90.14	159.32	-2,063.57	2,664.63	2,617.80	46.83	56.902				
10,000.00	9,960.53	10,093.62	10,070.34	36.63	31.61	-90.16	158.49	-2,060.16	2,661.48	2,614.15	47.33	56.234				
10,100.00	10,060.53	10,196.08	10,172.76	36.97	31.94	-90.17	158.28	-2,056.92	2,658.31	2,610.50	47.81	55.596				
10,200.00	10,160.53	10,286.49	10,263.12	37.31	32.23	-90.17	158.22	-2,054.16	2,655.26	2,606.98	48.28	55.002				
10,300.00	10,260.53	10,359.79	10,336.40	37.65	32.47	-90.17	158.13	-2,052.40	2,652.87	2,604.17	48.70	54.476				
10,400.00	10,360.53	10,457.92	10,434.52	38.00	32.79	-90.17	157.96	-2,050.80	2,651.24	2,602.06	49.18	53.912				
10,500.00	10,460.53	10,556.88	10,533.46	38.34	33.12	-90.19	157.34	-2,048.98	2,649.40	2,599.74	49.66	53.351				
10,600.00	10,560.53	10,648.99	10,625.55	38.68	33.43	-90.20	156.56	-2,047.49	2,647.79	2,597.66	50.13	52.821				
10,700.00	10,660.53	10,736.86	10,713.42	39.03	33.72	-90.22	155.85	-2,046.40	2,646.55	2,595.96	50.59	52.318				
10,800.00	10,760.53	10,833.65	10,810.20	39.37	34.05	-90.24	155.10	-2,045.55	2,645.67	2,594.61	51.07	51.808				
10,900.00	10,860.53	10,929.46	10,906.00	39.72	34.37	-90.25	154.36	-2,044.75	2,644.85	2,593.30	51.55	51.311				
11,000.00	10,960.53	11,035.67	11,012.20	40.06	34.73	-90.28	153.28	-2,043.92	2,644.07	2,592.02	52.05	50.797				
11,100.00	11,060.53	11,114.35	11,090.86	40.41	35.00	-90.31	151.92	-2,043.42	2,643.46	2,590.97	52.49	50.360				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 112-OWSG (Rev2) MWD, 1352-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,115.13	11,075.66	11,125.65	11,102.16	40.46	35.04	-90.31	151.66	-2,043.41	2,643.45	2,590.89	52.56	50.298		
11,200.00	11,160.53	11,203.64	11,180.13	40.75	35.32	-90.36	149.55	-2,043.55	2,643.61	2,590.65	52.96	49.918		
11,300.00	11,260.53	11,399.11	11,373.38	41.10	36.04	-90.90	124.46	-2,039.88	2,641.62	2,587.90	53.71	49.179		
11,400.00	11,360.53	11,491.67	11,461.38	41.44	36.42	-91.52	96.12	-2,036.70	2,638.68	2,584.45	54.23	48.661		
11,500.00	11,460.53	11,565.00	11,527.37	41.79	36.73	-92.21	64.35	-2,034.02	2,636.29	2,581.59	54.69	48.201		
11,567.09	11,527.62	11,598.22	11,556.09	42.02	36.88	-92.57	47.68	-2,033.01	2,635.67	2,580.71	54.96	47.957		
11,600.00	11,560.53	11,612.00	11,567.79	42.13	36.94	-92.73	40.42	-2,032.72	2,635.78	2,580.70	55.08	47.855		
11,700.00	11,660.53	11,640.89	11,591.85	42.48	37.08	-93.08	24.44	-2,032.43	2,637.95	2,582.57	55.39	47.629		
11,800.00	11,760.53	11,714.81	11,650.23	42.83	37.44	-94.06	-20.86	-2,032.55	2,642.72	2,586.88	55.84	47.325		
11,846.51	11,807.04	11,745.27	11,672.71	42.99	37.59	-94.51	-41.41	-2,032.28	2,645.33	2,589.29	56.04	47.207		
11,850.00	11,810.53	11,747.44	11,674.26	43.00	37.60	92.34	-42.92	-2,032.26	2,645.55	2,589.50	56.05	47.199		
11,900.00	11,860.45	11,767.36	11,688.27	43.16	37.71	91.70	-57.09	-2,032.04	2,649.03	2,592.84	56.20	47.140		
11,950.00	11,909.97	11,785.16	11,700.32	43.31	37.80	91.02	-70.18	-2,031.93	2,653.34	2,597.01	56.32	47.109		
12,000.00	11,958.70	11,801.00	11,710.68	43.46	37.88	90.31	-82.16	-2,031.88	2,658.38	2,601.95	56.44	47.105		
12,050.00	12,006.28	11,801.00	11,710.68	43.61	37.88	89.72	-82.16	-2,031.88	2,664.28	2,607.81	56.47	47.181		
12,100.00	12,052.34	11,829.54	11,728.09	43.75	38.04	88.76	-104.76	-2,032.00	2,670.59	2,613.97	56.62	47.164		
12,150.00	12,096.54	11,848.00	11,738.32	43.87	38.14	87.86	-120.12	-2,032.25	2,677.65	2,620.93	56.73	47.203		
12,200.00	12,138.53	11,848.00	11,738.32	43.99	38.14	87.09	-120.12	-2,032.25	2,685.26	2,628.52	56.74	47.326		
12,250.00	12,178.00	11,873.83	11,751.49	44.10	38.28	86.08	-142.33	-2,032.81	2,693.20	2,636.33	56.87	47.357		
12,300.00	12,214.64	11,895.00	11,761.43	44.21	38.40	85.10	-161.01	-2,033.45	2,701.54	2,644.56	56.98	47.413		
12,350.00	12,248.19	11,895.00	11,761.43	44.30	38.40	84.23	-161.01	-2,033.45	2,710.16	2,653.17	56.99	47.556		
12,400.00	12,278.37	11,926.95	11,775.30	44.39	38.59	83.22	-189.76	-2,034.72	2,718.78	2,661.62	57.16	47.566		
12,450.00	12,304.97	12,004.58	11,803.41	44.48	39.06	82.13	-262.02	-2,037.21	2,727.29	2,669.74	57.55	47.386		
12,500.00	12,327.78	12,088.88	11,823.39	44.58	39.58	81.04	-343.83	-2,036.35	2,734.43	2,676.46	57.98	47.164		
12,550.00	12,346.63	12,131.24	11,829.35	44.68	39.85	80.23	-385.73	-2,034.82	2,740.64	2,682.43	58.22	47.078		
12,600.00	12,361.37	12,176.58	11,833.38	44.79	40.14	79.49	-430.83	-2,032.73	2,746.21	2,687.74	58.47	46.967		
12,650.00	12,371.89	12,195.00	11,834.32	44.91	40.26	78.93	-449.21	-2,031.75	2,751.22	2,692.60	58.62	46.934		
12,700.00	12,378.11	12,241.84	11,835.36	45.04	40.58	78.40	-495.97	-2,029.27	2,755.56	2,696.65	58.91	46.774		
12,746.51	12,380.00	12,269.32	11,835.21	45.17	40.77	78.02	-523.41	-2,027.92	2,759.24	2,700.11	59.12	46.670		
12,800.00	12,380.00	12,290.00	11,834.72	45.34	40.91	78.03	-544.06	-2,026.94	2,762.95	2,703.63	59.32	46.575		
12,900.00	12,380.00	12,331.03	11,833.13	45.69	41.21	78.03	-585.04	-2,025.58	2,768.93	2,709.19	59.75	46.345		
13,000.00	12,380.00	12,384.00	11,830.18	46.08	41.60	78.00	-637.92	-2,025.35	2,774.06	2,713.80	60.26	46.038		
13,063.21	12,380.00	12,384.00	11,830.18	46.35	41.60	78.01	-637.92	-2,025.35	2,776.47	2,716.05	60.42	45.952		
13,100.00	12,380.00	12,408.34	11,828.75	46.52	41.79	77.98	-662.22	-2,025.78	2,777.93	2,717.28	60.65	45.801		
13,200.00	12,380.00	12,479.00	11,826.42	47.00	42.35	77.95	-732.78	-2,028.55	2,783.23	2,721.89	61.34	45.374		
13,300.00	12,380.00	12,522.70	11,825.99	47.54	42.71	77.96	-776.40	-2,031.16	2,789.89	2,727.97	61.92	45.057		
13,400.00	12,380.00	12,729.00	11,829.83	48.13	44.51	78.09	-982.28	-2,042.86	2,796.70	2,733.08	63.62	43.961		
13,500.00	12,380.00	12,856.00	11,833.60	48.77	45.71	78.18	-1,109.19	-2,045.28	2,798.70	2,733.79	64.91	43.120		
13,600.00	12,380.00	12,950.00	11,834.97	49.45	46.63	78.22	-1,203.15	-2,047.30	2,801.46	2,735.45	66.02	42.434		
13,700.00	12,380.00	13,125.33	11,841.43	50.18	48.45	78.37	-1,378.33	-2,049.10	2,802.48	2,734.64	67.85	41.307		
13,800.00	12,380.00	13,236.82	11,845.95	50.95	49.66	78.46	-1,489.73	-2,048.87	2,802.44	2,733.20	69.25	40.471		
13,900.00	12,380.00	13,329.00	11,849.02	51.77	50.69	78.53	-1,581.86	-2,048.45	2,802.30	2,731.77	70.54	39.728		
13,912.94	12,380.00	13,342.65	11,849.40	51.88	50.85	78.53	-1,595.50	-2,048.39	2,802.30	2,731.57	70.72	39.623		
14,000.00	12,380.00	13,423.00	11,851.69	52.62	51.76	78.58	-1,675.82	-2,048.17	2,802.41	2,730.52	71.89	38.984		
14,100.00	12,380.00	13,613.00	11,858.06	53.51	54.00	78.70	-1,865.63	-2,043.51	2,799.65	2,725.52	74.14	37.764		
14,200.00	12,380.00	13,670.63	11,858.23	54.44	54.70	78.70	-1,923.22	-2,041.46	2,797.23	2,721.97	75.26	37.170		
14,300.00	12,380.00	13,733.54	11,857.07	55.40	55.46	78.67	-1,986.11	-2,040.31	2,796.64	2,720.20	76.44	36.587		
14,400.00	12,380.00	13,925.02	11,860.03	56.39	57.85	78.72	-2,177.48	-2,035.77	2,795.08	2,716.22	78.86	35.445		
14,500.00	12,380.00	13,992.00	11,861.42	57.41	58.70	78.74	-2,244.41	-2,033.42	2,792.23	2,712.06	80.16	34.832		
14,600.00	12,380.00	14,078.92	11,862.69	58.46	59.82	78.76	-2,331.28	-2,031.00	2,790.19	2,708.51	81.68	34.159		
14,700.00	12,380.00	14,134.50	11,863.14	59.54	60.55	78.77	-2,386.85	-2,029.95	2,789.18	2,706.27	82.91	33.640		
14,709.36	12,380.00	14,139.42	11,863.14	59.64	60.61	78.77	-2,391.77	-2,029.90	2,789.18	2,706.15	83.03	33.594		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 112-OWSG (Rev2) MWD, 1352-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		
14,800.00	12,380.00	14,191.01	11,862.73	60.64	61.28	78.76	-2,443.36	-2,029.73	2,789.87	2,705.71	84.16	33.150		
14,900.00	12,380.00	14,401.94	11,866.31	61.77	64.09	78.83	-2,654.20	-2,028.36	2,790.51	2,703.50	87.01	32.070		
15,000.00	12,380.00	14,492.03	11,869.92	62.92	65.31	78.90	-2,744.18	-2,025.90	2,788.04	2,699.35	88.69	31.437		
15,100.00	12,380.00	14,575.12	11,872.55	64.09	66.45	78.95	-2,827.21	-2,024.06	2,786.21	2,695.90	90.31	30.853		
15,200.00	12,380.00	14,689.71	11,876.04	65.28	68.03	79.01	-2,941.72	-2,021.39	2,784.30	2,692.03	92.28	30.174		
15,300.00	12,380.00	14,774.84	11,878.55	66.50	69.22	79.06	-3,026.78	-2,019.18	2,782.21	2,688.25	93.96	29.611		
15,400.00	12,380.00	14,844.00	11,879.83	67.73	70.18	79.09	-3,095.92	-2,018.29	2,781.44	2,685.96	95.48	29.132		
15,413.60	12,380.00	14,844.00	11,879.83	67.90	70.18	79.09	-3,095.92	-2,018.29	2,781.40	2,685.82	95.58	29.099		
15,500.00	12,380.00	14,934.77	11,880.65	68.98	71.46	79.10	-3,186.69	-2,017.61	2,781.47	2,684.23	97.24	28.604		
15,600.00	12,380.00	15,033.00	11,882.40	70.24	72.85	79.14	-3,284.89	-2,016.85	2,781.34	2,682.24	99.11	28.064		
15,700.00	12,380.00	15,128.00	11,885.31	71.52	74.20	79.20	-3,379.85	-2,016.42	2,781.29	2,680.33	100.96	27.548		
15,704.52	12,380.00	15,134.82	11,885.51	71.58	74.30	79.20	-3,386.67	-2,016.39	2,781.29	2,680.22	101.08	27.517		
15,800.00	12,380.00	15,223.00	11,887.09	72.82	75.57	79.24	-3,474.83	-2,016.07	2,781.54	2,678.71	102.83	27.051		
15,900.00	12,380.00	15,280.91	11,888.05	74.13	76.40	79.26	-3,532.72	-2,016.36	2,782.64	2,678.37	104.28	26.686		
16,000.00	12,380.00	15,371.16	11,891.37	75.46	77.71	79.34	-3,622.90	-2,018.19	2,784.89	2,678.77	106.12	26.243		
16,100.00	12,380.00	15,461.28	11,895.93	76.79	79.02	79.44	-3,712.89	-2,020.05	2,786.99	2,679.01	107.98	25.810		
16,200.00	12,380.00	15,580.35	11,901.79	78.14	80.76	79.57	-3,831.77	-2,022.60	2,789.18	2,678.97	110.21	25.308		
16,300.00	12,380.00	15,734.08	11,909.74	79.50	83.03	79.74	-3,985.29	-2,022.73	2,788.91	2,676.03	112.87	24.708		
16,310.73	12,380.00	15,741.95	11,910.11	79.65	83.14	79.75	-3,993.15	-2,022.71	2,788.90	2,675.84	113.06	24.668		
16,400.00	12,380.00	15,815.92	11,913.09	80.87	84.24	79.81	-4,067.07	-2,022.83	2,789.25	2,674.57	114.68	24.322		
16,500.00	12,380.00	15,928.64	11,917.96	82.25	85.91	79.91	-4,179.68	-2,023.00	2,789.61	2,672.74	116.87	23.870		
16,600.00	12,380.00	16,035.56	11,923.43	83.64	87.51	80.03	-4,286.46	-2,022.79	2,789.50	2,670.49	119.00	23.441		
16,700.00	12,380.00	16,168.25	11,932.13	85.04	89.51	80.21	-4,418.86	-2,022.27	2,789.01	2,667.55	121.47	22.961		
16,800.00	12,380.00	16,245.54	11,937.28	86.45	90.67	80.31	-4,495.98	-2,021.69	2,788.11	2,664.83	123.28	22.616		
16,900.00	12,380.00	16,411.82	11,946.43	87.87	93.19	80.50	-4,661.96	-2,019.96	2,787.60	2,661.46	126.14	22.099		
17,000.00	12,380.00	16,548.00	11,954.14	89.30	95.26	80.64	-4,797.76	-2,013.78	2,782.83	2,654.19	128.64	21.633		
17,100.00	12,380.00	16,596.64	11,955.08	90.73	96.00	80.65	-4,846.35	-2,011.84	2,779.57	2,649.41	130.16	21.354		
17,200.00	12,380.00	16,643.00	11,955.45	92.17	96.71	80.66	-4,892.70	-2,010.80	2,778.22	2,646.60	131.63	21.107		
17,210.35	12,380.00	16,643.00	11,955.45	92.32	96.71	80.66	-4,892.70	-2,010.80	2,778.20	2,646.48	131.72	21.092		
17,300.00	12,380.00	16,643.00	11,955.45	93.62	96.71	80.66	-4,892.70	-2,010.80	2,779.65	2,647.19	132.46	20.985		
17,400.00	12,380.00	16,643.00	11,955.45	95.07	96.71	80.66	-4,892.70	-2,010.80	2,784.67	2,651.52	133.15	20.914		
17,500.00	12,380.00	16,643.00	11,955.45	96.53	96.71	80.66	-4,892.70	-2,010.80	2,793.26	2,659.56	133.70	20.891 SF		
17,600.00	12,380.00	16,643.00	11,955.45	98.00	96.71	80.66	-4,892.70	-2,010.80	2,805.39	2,671.27	134.12	20.917		
17,700.00	12,380.00	16,643.00	11,955.45	99.47	96.71	80.66	-4,892.70	-2,010.80	2,821.02	2,686.62	134.40	20.990		
17,800.00	12,380.00	16,643.00	11,955.45	100.95	96.71	80.66	-4,892.70	-2,010.80	2,840.09	2,705.54	134.54	21.109		
17,900.00	12,380.00	16,643.00	11,955.45	102.43	96.71	80.66	-4,892.70	-2,010.80	2,862.52	2,727.97	134.56	21.274		
18,000.00	12,380.00	16,643.00	11,955.45	103.92	96.71	80.66	-4,892.70	-2,010.80	2,888.24	2,753.79	134.45	21.482		
18,100.00	12,380.00	16,643.00	11,955.45	105.41	96.71	80.66	-4,892.70	-2,010.80	2,917.17	2,782.94	134.23	21.732		
18,200.00	12,380.00	16,643.00	11,955.45	106.91	96.71	80.66	-4,892.70	-2,010.80	2,949.21	2,815.31	133.90	22.026		
18,300.00	12,380.00	16,643.00	11,955.45	108.41	96.71	80.66	-4,892.70	-2,010.80	2,984.25	2,850.78	133.47	22.359		
18,400.00	12,380.00	16,643.00	11,955.45	109.92	96.71	80.66	-4,892.70	-2,010.80	3,022.20	2,889.24	132.95	22.731		
18,500.00	12,380.00	16,643.00	11,955.45	111.43	96.71	80.66	-4,892.70	-2,010.80	3,062.94	2,930.59	132.35	23.142		
18,600.00	12,380.00	16,643.00	11,955.45	112.94	96.71	80.66	-4,892.70	-2,010.80	3,106.37	2,974.69	131.68	23.590		
18,700.00	12,380.00	16,643.00	11,955.45	114.46	96.71	80.66	-4,892.70	-2,010.80	3,152.37	3,021.43	130.95	24.073		
18,800.00	12,380.00	16,643.00	11,955.45	115.98	96.71	80.66	-4,892.70	-2,010.80	3,200.84	3,070.68	130.16	24.591		
18,900.00	12,380.00	16,643.00	11,955.45	117.51	96.71	80.66	-4,892.70	-2,010.80	3,251.67	3,122.33	129.33	25.142		
19,000.00	12,380.00	16,643.00	11,955.45	119.04	96.71	80.66	-4,892.70	-2,010.80	3,304.73	3,176.27	128.46	25.725		
19,100.00	12,380.00	16,643.00	11,955.45	120.57	96.71	80.66	-4,892.70	-2,010.80	3,359.94	3,232.37	127.57	26.339		
19,200.00	12,380.00	16,643.00	11,955.45	122.11	96.71	80.66	-4,892.70	-2,010.80	3,417.18	3,290.54	126.64	26.983		
19,300.00	12,380.00	16,643.00	11,955.45	123.64	96.71	80.66	-4,892.70	-2,010.80	3,476.36	3,350.65	125.70	27.656		
19,400.00	12,380.00	16,643.00	11,955.45	125.18	96.71	80.66	-4,892.70	-2,010.80	3,537.37	3,412.62	124.75	28.356		
19,500.00	12,380.00	16,643.00	11,955.45	126.73	96.71	80.66	-4,892.70	-2,010.80	3,600.13	3,476.33	123.79	29.082		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kaston Fed Com - Bus Driver Fed Com 602H - OH - OH		Offset Site Error:	0.00 usft
Survey Program:		112-OWSG (Rev2) MWD, 1352-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				
19,600.00	12,380.00	16,643.00	11,955.45	128.27	96.71	80.66	-4,892.70	-2,010.80	3,664.54	3,541.70	122.83	29.833				
19,700.00	12,380.00	16,643.00	11,955.45	129.82	96.71	80.66	-4,892.70	-2,010.80	3,730.52	3,608.64	121.88	30.609				
19,800.00	12,380.00	16,643.00	11,955.45	131.38	96.71	80.66	-4,892.70	-2,010.80	3,797.99	3,677.06	120.92	31.408				
19,900.00	12,380.00	16,643.00	11,955.45	132.93	96.71	80.66	-4,892.70	-2,010.80	3,866.86	3,746.88	119.98	32.230				
20,000.00	12,380.00	16,643.00	11,955.45	134.49	96.71	80.66	-4,892.70	-2,010.80	3,937.07	3,818.03	119.04	33.073				
20,100.00	12,380.00	16,643.00	11,955.45	136.04	96.71	80.66	-4,892.70	-2,010.80	4,008.55	3,890.43	118.12	33.936				
20,200.00	12,380.00	16,643.00	11,955.45	137.61	96.71	80.66	-4,892.70	-2,010.80	4,081.23	3,964.02	117.21	34.819				
20,300.00	12,380.00	16,643.00	11,955.45	139.17	96.71	80.66	-4,892.70	-2,010.80	4,155.04	4,038.72	116.32	35.721				
20,400.00	12,380.00	16,643.00	11,955.45	140.73	96.71	80.66	-4,892.70	-2,010.80	4,229.93	4,114.48	115.44	36.640				
20,500.00	12,380.00	16,643.00	11,955.45	142.30	96.71	80.66	-4,892.70	-2,010.80	4,305.83	4,191.25	114.59	37.577				
20,600.00	12,380.00	16,643.00	11,955.45	143.87	96.71	80.66	-4,892.70	-2,010.80	4,382.71	4,268.96	113.75	38.529				
20,700.00	12,380.00	16,643.00	11,955.45	145.44	96.71	80.66	-4,892.70	-2,010.80	4,460.50	4,347.57	112.93	39.498				
20,800.00	12,380.00	16,643.00	11,955.45	147.01	96.71	80.66	-4,892.70	-2,010.80	4,539.16	4,427.03	112.13	40.481				
20,900.00	12,380.00	16,643.00	11,955.45	148.59	96.71	80.66	-4,892.70	-2,010.80	4,618.65	4,507.30	111.35	41.478				
21,000.00	12,380.00	16,643.00	11,955.45	150.16	96.71	80.66	-4,892.70	-2,010.80	4,698.92	4,588.33	110.59	42.489				
21,100.00	12,380.00	16,643.00	11,955.45	151.74	96.71	80.66	-4,892.70	-2,010.80	4,779.94	4,670.08	109.85	43.513				
21,200.00	12,380.00	16,643.00	11,955.45	153.32	96.71	80.66	-4,892.70	-2,010.80	4,861.66	4,752.53	109.13	44.549				
21,300.00	12,380.00	16,643.00	11,955.45	154.90	96.71	80.66	-4,892.70	-2,010.80	4,944.05	4,835.62	108.43	45.596				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 112-OWSG (Rev2) MWD, 1425-OWSG (Rev2) MWD, 12083-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	26.22	26.22	0.00	0.03	-74.49	504.83	-1,819.12	1,887.87					
100.00	100.00	125.50	125.50	0.13	0.19	-74.48	505.05	-1,819.10	1,887.91	1,887.68	0.23	8,184.243		
200.00	200.00	221.80	221.80	0.48	0.53	-74.48	505.17	-1,819.15	1,887.99	1,887.28	0.72	2,632.704		
300.00	300.00	300.56	300.55	0.84	0.81	-74.46	505.90	-1,819.63	1,888.83	1,887.66	1.17	1,616.028		
400.00	400.00	379.50	379.47	1.20	1.09	-74.43	507.27	-1,820.86	1,890.79	1,889.16	1.62	1,164.589		
500.00	500.00	478.59	478.52	1.56	1.45	-74.41	508.78	-1,823.28	1,893.54	1,891.41	2.13	890.599		
600.00	600.00	588.13	588.02	1.92	1.84	-74.43	508.75	-1,825.80	1,895.75	1,893.09	2.65	714.787		
700.00	700.00	685.08	684.92	2.28	2.18	-74.51	506.75	-1,828.25	1,897.64	1,894.49	3.15	603.341		
800.00	800.00	868.08	867.57	2.63	2.82	-74.83	496.14	-1,829.99	1,896.50	1,892.65	3.85	492.583		
900.00	900.00	941.02	940.27	2.99	3.07	-75.00	490.42	-1,830.77	1,895.36	1,891.08	4.29	442.143		
1,000.00	1,000.00	1,045.00	1,044.05	3.35	3.44	-75.20	483.87	-1,831.17	1,894.11	1,889.30	4.80	394.320		
1,100.00	1,100.00	1,147.66	1,146.55	3.71	3.81	-75.37	478.11	-1,831.71	1,893.19	1,887.87	5.32	355.972		
1,200.00	1,200.00	1,242.61	1,241.38	4.07	4.15	-75.51	473.51	-1,831.70	1,891.97	1,886.15	5.81	325.461		
1,300.00	1,300.00	1,336.04	1,334.75	4.43	4.49	-75.61	470.11	-1,831.95	1,891.32	1,885.02	6.30	300.038		
1,397.19	1,397.19	1,425.00	1,423.68	4.78	4.68	-75.67	468.19	-1,832.30	1,891.17	1,884.49	6.68	282.900		
1,400.00	1,400.00	1,425.00	1,423.68	4.79	4.68	-75.67	468.19	-1,832.30	1,891.17	1,884.48	6.69	282.595 ES		
1,500.00	1,500.00	1,506.34	1,505.02	5.14	4.70	-75.70	467.28	-1,832.98	1,891.73	1,884.76	6.97	271.554		
1,600.00	1,600.00	1,601.34	1,600.01	5.50	4.74	-75.69	467.81	-1,834.16	1,893.07	1,885.80	7.26	260.703		
1,700.00	1,700.00	1,699.39	1,698.03	5.86	4.80	-75.65	469.63	-1,835.16	1,894.52	1,886.94	7.58	250.043		
1,800.00	1,800.00	1,800.13	1,798.74	6.22	4.89	-75.59	471.92	-1,836.13	1,896.01	1,888.09	7.91	239.624		
1,900.00	1,900.00	1,903.63	1,902.22	6.58	5.01	-75.52	474.25	-1,837.01	1,897.40	1,889.13	8.27	229.467		
2,000.00	2,000.00	2,016.62	2,015.17	6.94	5.17	-75.45	476.83	-1,837.41	1,898.31	1,889.66	8.65	219.465		
2,100.00	2,100.00	2,123.99	2,122.51	7.29	5.34	-75.37	479.55	-1,837.13	1,898.69	1,889.65	9.04	210.033		
2,200.00	2,199.99	2,227.48	2,225.95	7.65	5.53	-149.83	482.46	-1,836.47	1,899.92	1,890.49	9.43	201.411		
2,300.00	2,299.91	2,327.44	2,325.87	7.99	5.72	-149.77	485.46	-1,835.69	1,903.32	1,893.49	9.83	193.661		
2,400.00	2,399.69	2,427.39	2,425.76	8.34	5.93	-149.72	488.70	-1,834.89	1,909.02	1,898.78	10.23	186.555		
2,500.00	2,499.27	2,548.75	2,547.07	8.70	6.20	-149.73	491.95	-1,833.54	1,916.57	1,905.89	10.67	179.556		
2,601.33	2,599.89	2,651.00	2,649.29	9.06	6.45	-149.78	493.56	-1,831.64	1,925.48	1,914.37	11.10	173.425		
2,700.00	2,697.71	2,734.43	2,732.71	9.42	6.65	-149.92	494.19	-1,830.59	1,935.69	1,924.19	11.50	168.298		
2,800.00	2,796.85	2,826.37	2,824.64	9.78	6.87	-150.11	493.84	-1,830.50	1,946.85	1,934.93	11.92	163.352		
2,900.00	2,895.99	2,939.03	2,937.30	10.15	7.16	-150.32	493.76	-1,830.12	1,957.90	1,945.52	12.37	158.228		
3,000.00	2,995.13	3,066.26	3,064.51	10.53	7.50	-150.52	494.72	-1,827.84	1,967.72	1,954.86	12.86	152.972		
3,100.00	3,094.27	3,160.08	3,158.29	10.90	7.76	-150.67	495.24	-1,825.48	1,976.87	1,963.56	13.30	148.583		
3,200.00	3,193.41	3,239.49	3,237.70	11.28	7.98	-150.83	494.44	-1,824.64	1,987.02	1,973.30	13.72	144.782		
3,300.00	3,292.55	3,333.39	3,331.51	11.67	8.25	-151.11	490.60	-1,824.76	1,997.67	1,983.50	14.17	140.988		
3,400.00	3,391.69	3,406.00	3,403.95	12.05	8.46	-151.38	485.73	-1,825.67	2,008.97	1,994.39	14.58	137.801		
3,500.00	3,490.83	3,473.47	3,471.17	12.44	8.65	-151.67	480.30	-1,827.71	2,021.76	2,006.78	14.98	134.971		
3,600.00	3,589.97	3,538.43	3,535.80	12.82	8.85	-151.96	474.73	-1,831.07	2,036.49	2,021.11	15.37	132.475		
3,700.00	3,689.11	3,611.51	3,608.48	13.21	9.07	-152.28	468.71	-1,835.84	2,052.70	2,036.92	15.78	130.070		
3,800.00	3,788.25	3,700.13	3,696.67	13.60	9.34	-152.64	462.60	-1,842.02	2,069.73	2,053.51	16.23	127.558		
3,900.00	3,887.39	3,784.00	3,780.22	13.99	9.60	-152.92	458.41	-1,848.03	2,087.40	2,070.74	16.66	125.292		
4,000.00	3,986.53	3,872.24	3,868.08	14.39	9.88	-153.22	454.02	-1,854.84	2,105.67	2,088.56	17.11	123.090		
4,100.00	4,085.67	3,988.66	3,983.69	14.78	10.26	-153.72	444.20	-1,864.29	2,123.79	2,106.16	17.63	120.482		
4,200.00	4,184.81	4,093.01	4,087.09	15.18	10.61	-154.23	432.91	-1,872.59	2,141.48	2,123.35	18.12	118.161		
4,300.00	4,283.95	4,194.26	4,187.65	15.57	10.95	-154.66	423.66	-1,879.89	2,158.85	2,140.24	18.61	115.980		
4,400.00	4,383.09	4,317.78	4,310.53	15.97	11.37	-155.13	414.37	-1,888.44	2,176.43	2,157.27	19.16	113.578		
4,500.00	4,482.23	4,460.71	4,453.05	16.37	11.85	-155.59	405.84	-1,894.59	2,191.57	2,171.81	19.76	110.923		
4,600.00	4,581.37	4,568.45	4,560.57	16.77	12.21	-155.91	399.62	-1,897.89	2,205.67	2,185.40	20.27	108.824		
4,700.00	4,680.51	4,653.77	4,645.59	17.17	12.51	-156.21	393.10	-1,900.94	2,220.08	2,199.35	20.73	107.112		
4,800.00	4,779.65	4,739.97	4,731.45	17.57	12.81	-156.51	386.38	-1,904.55	2,235.15	2,213.96	21.19	105.489		
4,900.00	4,878.79	4,835.17	4,826.29	17.97	13.14	-156.84	379.26	-1,908.77	2,250.57	2,228.90	21.67	103.838		
5,000.00	4,977.93	4,927.59	4,918.34	18.37	13.46	-157.15	372.21	-1,913.04	2,266.24	2,244.09	22.15	102.299		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 112-OWSG (Rev2) MWD, 1425-OWSG (Rev2) MWD, 12083-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		
5,100.00	5,077.07	5,014.60	5,004.94	18.77	13.77	-157.46	365.07	-1,917.48	2,282.38	2,259.76	22.62	100.905		
5,200.00	5,176.21	5,107.00	5,096.91	19.17	14.10	-157.77	357.79	-1,922.50	2,298.96	2,275.86	23.10	99.522		
5,300.00	5,275.35	5,203.55	5,192.96	19.57	14.45	-158.11	349.64	-1,927.95	2,315.77	2,292.17	23.59	98.150		
5,400.00	5,374.49	5,329.02	5,317.46	19.98	14.91	-158.63	335.53	-1,934.40	2,331.86	2,307.68	24.18	96.456		
5,500.00	5,473.63	5,432.45	5,420.01	20.38	15.30	-159.07	322.94	-1,939.26	2,347.60	2,322.90	24.70	95.057		
5,600.00	5,572.77	5,546.28	5,532.94	20.78	15.72	-159.54	309.52	-1,943.99	2,362.97	2,337.73	25.25	93.590		
5,700.00	5,671.91	5,626.50	5,612.58	21.19	16.02	-159.85	300.38	-1,947.08	2,378.24	2,352.53	25.70	92.521		
5,800.00	5,771.05	5,700.05	5,685.59	21.59	16.30	-160.14	292.20	-1,950.83	2,394.75	2,368.61	26.14	91.612		
5,900.00	5,870.19	5,800.66	5,785.47	22.00	16.68	-160.51	281.49	-1,956.39	2,411.85	2,385.20	26.66	90.483		
6,000.00	5,969.33	5,922.36	5,906.47	22.40	17.13	-160.92	269.92	-1,962.03	2,428.22	2,400.99	27.23	89.166		
6,100.00	6,068.47	6,025.08	6,008.70	22.81	17.52	-161.25	260.67	-1,966.19	2,444.13	2,416.37	27.75	88.068		
6,200.00	6,167.61	6,130.70	6,113.84	23.22	17.91	-161.58	251.47	-1,970.27	2,459.94	2,431.66	28.28	86.981		
6,300.00	6,266.75	6,206.21	6,189.01	23.62	18.19	-161.81	244.99	-1,973.29	2,476.00	2,447.28	28.72	86.207		
6,400.00	6,365.89	6,280.51	6,262.90	24.03	18.47	-162.04	238.20	-1,977.09	2,493.14	2,463.98	29.16	85.509		
6,500.00	6,465.03	6,365.92	6,347.75	24.44	18.79	-162.32	229.87	-1,982.14	2,511.12	2,481.50	29.63	84.762		
6,600.00	6,564.17	6,468.42	6,449.58	24.84	19.19	-162.65	219.88	-1,988.22	2,529.21	2,499.06	30.15	83.887		
6,700.00	6,663.31	6,571.58	6,552.05	25.25	19.58	-162.98	209.55	-1,994.13	2,547.16	2,516.48	30.68	83.030		
6,800.00	6,762.45	6,682.13	6,661.93	25.66	20.00	-163.32	198.92	-2,000.10	2,564.87	2,533.64	31.23	82.133		
6,856.14	6,818.11	6,742.34	6,721.83	25.89	20.23	-163.49	193.65	-2,003.07	2,574.60	2,543.07	31.53	81.653		
6,900.00	6,861.62	6,786.87	6,766.16	26.06	20.40	-163.64	189.89	-2,005.23	2,581.93	2,550.17	31.76	81.298		
7,000.00	6,961.05	6,878.41	6,857.30	26.46	20.74	-163.93	182.63	-2,009.71	2,596.96	2,564.72	32.24	80.541		
7,100.00	7,060.72	6,959.41	6,937.98	26.84	21.05	-164.15	177.01	-2,014.05	2,610.00	2,577.31	32.69	79.840		
7,200.00	7,160.57	7,056.06	7,034.31	27.20	21.40	-164.34	171.62	-2,019.78	2,621.12	2,587.94	33.18	78.992		
7,300.00	7,260.53	7,166.94	7,144.88	27.55	21.81	-164.51	166.17	-2,026.02	2,629.45	2,595.73	33.72	77.989		
7,357.47	7,318.00	7,229.86	7,207.64	27.74	22.04	-90.06	163.15	-2,029.35	2,632.91	2,598.89	34.02	77.401		
7,400.00	7,360.53	7,276.21	7,253.88	27.88	22.21	-90.11	161.11	-2,031.72	2,635.09	2,600.85	34.24	76.965		
7,500.00	7,460.53	7,370.00	7,347.46	28.21	22.55	-90.19	157.24	-2,036.63	2,640.34	2,605.63	34.71	76.071		
7,600.00	7,560.53	7,504.25	7,481.47	28.54	23.03	-90.30	152.16	-2,042.91	2,645.05	2,609.75	35.31	74.920		
7,700.00	7,660.53	7,682.02	7,659.13	28.87	23.64	-90.37	148.99	-2,047.64	2,647.84	2,611.83	36.01	73.531		
7,800.00	7,760.53	7,811.49	7,788.60	29.20	24.06	-90.35	149.72	-2,047.98	2,648.03	2,611.47	36.55	72.441		
7,900.00	7,860.53	7,924.25	7,901.36	29.53	24.41	-90.35	149.98	-2,047.69	2,647.78	2,610.72	37.06	71.455		
8,000.00	7,960.53	8,043.24	8,020.34	29.87	24.79	-90.35	149.71	-2,046.62	2,646.88	2,609.31	37.57	70.444		
8,100.00	8,060.53	8,156.47	8,133.56	30.20	25.16	-90.37	149.12	-2,044.85	2,645.31	2,607.23	38.08	69.466		
8,200.00	8,160.53	8,243.98	8,221.05	30.53	25.44	-90.38	148.61	-2,043.34	2,643.61	2,605.08	38.53	68.614		
8,300.00	8,260.53	8,312.00	8,289.07	30.87	25.67	-90.39	148.20	-2,042.94	2,643.00	2,604.07	38.93	67.888		
8,302.04	8,262.57	8,312.00	8,289.07	30.88	25.67	-90.39	148.20	-2,042.94	2,643.00	2,604.06	38.94	67.880		
8,400.00	8,360.53	8,370.95	8,348.02	31.20	25.87	-90.39	147.96	-2,043.41	2,643.76	2,604.45	39.31	67.258		
8,500.00	8,460.53	8,465.52	8,442.56	31.54	26.18	-90.39	147.93	-2,045.25	2,645.69	2,605.91	39.78	66.513		
8,600.00	8,560.53	8,594.87	8,571.90	31.88	26.62	-90.39	148.20	-2,046.66	2,646.77	2,606.43	40.34	65.618		
8,700.00	8,660.53	8,694.99	8,672.02	32.21	26.95	-90.38	148.60	-2,047.24	2,647.34	2,606.52	40.82	64.860		
8,800.00	8,760.53	8,796.22	8,773.25	32.55	27.28	-90.37	148.99	-2,047.76	2,647.85	2,606.55	41.30	64.113		
8,900.00	8,860.53	8,885.82	8,862.84	32.89	27.58	-90.36	149.29	-2,048.40	2,648.57	2,606.81	41.75	63.432		
9,000.00	8,960.53	8,974.95	8,951.97	33.23	27.88	-90.35	149.60	-2,049.41	2,649.69	2,607.48	42.21	62.775		
9,100.00	9,060.53	9,070.30	9,047.32	33.56	28.20	-90.34	150.18	-2,050.76	2,651.11	2,608.43	42.68	62.116		
9,200.00	9,160.53	9,171.49	9,148.48	33.90	28.54	-90.32	151.16	-2,052.25	2,652.58	2,609.41	43.17	61.452		
9,300.00	9,260.53	9,269.92	9,246.90	34.24	28.86	-90.29	152.38	-2,053.71	2,654.05	2,610.41	43.64	60.813		
9,400.00	9,360.53	9,365.17	9,342.12	34.58	29.18	-90.27	153.66	-2,055.24	2,655.65	2,611.54	44.11	60.202		
9,500.00	9,460.53	9,459.25	9,436.18	34.92	29.49	-90.24	155.00	-2,056.94	2,657.45	2,612.87	44.58	59.612		
9,600.00	9,560.53	9,555.12	9,532.02	35.26	29.82	-90.21	156.43	-2,058.88	2,659.47	2,614.42	45.05	59.032		
9,700.00	9,660.53	9,658.54	9,635.41	35.60	30.16	-90.18	157.83	-2,060.93	2,661.44	2,615.90	45.54	58.435		
9,800.00	9,760.53	9,750.89	9,727.73	35.94	30.47	-90.15	158.90	-2,062.79	2,663.46	2,617.46	46.01	57.890		
9,900.00	9,860.53	9,985.23	9,962.01	36.29	31.26	-90.14	159.32	-2,063.57	2,664.63	2,617.80	46.83	56.902		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 112-OWSG (Rev2) MWD, 1425-OWSG (Rev2) MWD, 12083-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	9,960.53	10,093.62	10,070.34	36.63	31.61	-90.16	158.49	-2,060.16	2,661.48	2,614.15	47.33	56.234		
10,100.00	10,060.53	10,196.08	10,172.76	36.97	31.94	-90.17	158.28	-2,056.92	2,658.31	2,610.50	47.81	55.596		
10,200.00	10,160.53	10,286.49	10,263.12	37.31	32.23	-90.17	158.22	-2,054.16	2,655.26	2,606.98	48.28	55.002		
10,300.00	10,260.53	10,359.79	10,336.40	37.65	32.47	-90.17	158.13	-2,052.40	2,652.87	2,604.17	48.70	54.476		
10,400.00	10,360.53	10,457.92	10,434.52	38.00	32.79	-90.17	157.96	-2,050.80	2,651.24	2,602.06	49.18	53.912		
10,500.00	10,460.53	10,556.88	10,533.46	38.34	33.12	-90.19	157.34	-2,048.98	2,649.40	2,599.74	49.66	53.351		
10,600.00	10,560.53	10,648.99	10,625.55	38.68	33.43	-90.20	156.56	-2,047.49	2,647.79	2,597.66	50.13	52.821		
10,700.00	10,660.53	10,736.86	10,713.42	39.03	33.72	-90.22	155.85	-2,046.40	2,646.55	2,595.96	50.59	52.318		
10,800.00	10,760.53	10,833.65	10,810.20	39.37	34.05	-90.24	155.10	-2,045.55	2,645.67	2,594.61	51.07	51.808		
10,900.00	10,860.53	10,929.46	10,906.00	39.72	34.37	-90.25	154.36	-2,044.75	2,644.85	2,593.30	51.55	51.311		
11,000.00	10,960.53	11,035.67	11,012.20	40.06	34.73	-90.28	153.28	-2,043.92	2,644.07	2,592.02	52.05	50.797		
11,100.00	11,060.53	11,114.35	11,090.86	40.41	35.00	-90.31	151.92	-2,043.42	2,643.46	2,590.97	52.49	50.360		
11,115.13	11,075.66	11,125.65	11,102.16	40.46	35.04	-90.31	151.66	-2,043.41	2,643.45	2,590.89	52.56	50.298		
11,200.00	11,160.53	11,203.64	11,180.13	40.75	35.32	-90.36	149.55	-2,043.55	2,643.61	2,590.65	52.96	49.918		
11,300.00	11,260.53	11,399.11	11,373.38	41.10	36.04	-90.90	124.46	-2,039.88	2,641.62	2,587.90	53.71	49.179		
11,400.00	11,360.53	11,491.67	11,461.38	41.44	36.42	-91.52	96.12	-2,036.70	2,638.68	2,584.45	54.23	48.661		
11,500.00	11,460.53	11,565.00	11,527.37	41.79	36.73	-92.21	64.35	-2,034.02	2,636.29	2,581.59	54.69	48.201		
11,567.09	11,527.62	11,598.22	11,556.09	42.02	36.88	-92.57	47.68	-2,033.01	2,635.67	2,580.71	54.96	47.957		
11,600.00	11,560.53	11,612.00	11,567.79	42.13	36.94	-92.73	40.42	-2,032.72	2,635.78	2,580.70	55.08	47.855		
11,700.00	11,660.53	11,640.89	11,591.85	42.48	37.08	-93.08	24.44	-2,032.43	2,637.95	2,582.57	55.39	47.629		
11,800.00	11,760.53	11,714.81	11,650.23	42.83	37.44	-94.06	-20.86	-2,032.55	2,642.72	2,586.88	55.84	47.325		
11,846.51	11,807.04	11,745.27	11,672.71	42.99	37.59	-94.51	-41.41	-2,032.28	2,645.33	2,589.29	56.04	47.207		
11,850.00	11,810.53	11,747.44	11,674.26	43.00	37.60	92.34	-42.92	-2,032.26	2,645.55	2,589.50	56.05	47.199		
11,900.00	11,860.45	11,767.36	11,688.27	43.16	37.71	91.70	-57.09	-2,032.04	2,649.03	2,592.84	56.20	47.140		
11,950.00	11,909.97	11,785.16	11,700.32	43.31	37.80	91.02	-70.18	-2,031.93	2,653.34	2,597.01	56.32	47.109		
12,000.00	11,958.70	11,801.00	11,710.68	43.46	37.88	90.31	-82.16	-2,031.88	2,658.38	2,601.95	56.44	47.105		
12,050.00	12,006.28	11,801.00	11,710.68	43.61	37.88	89.72	-82.16	-2,031.88	2,664.28	2,607.81	56.47	47.181		
12,100.00	12,052.34	11,829.54	11,728.09	43.75	38.04	88.76	-104.76	-2,032.00	2,670.59	2,613.97	56.62	47.164		
12,150.00	12,096.54	11,848.00	11,738.32	43.87	38.14	87.86	-120.12	-2,032.25	2,677.65	2,620.93	56.73	47.203		
12,200.00	12,138.53	11,848.00	11,738.32	43.99	38.14	87.09	-120.12	-2,032.25	2,685.26	2,628.52	56.74	47.326		
12,250.00	12,178.00	11,873.83	11,751.49	44.10	38.28	86.08	-142.33	-2,032.81	2,693.20	2,636.33	56.87	47.357		
12,300.00	12,214.64	11,895.00	11,761.43	44.21	38.40	85.10	-161.01	-2,033.45	2,701.54	2,644.56	56.98	47.413		
12,350.00	12,248.19	11,895.00	11,761.43	44.30	38.40	84.23	-161.01	-2,033.45	2,710.16	2,653.17	56.99	47.556		
12,400.00	12,278.37	11,926.95	11,775.30	44.39	38.59	83.22	-189.76	-2,034.72	2,718.78	2,661.62	57.16	47.566		
12,450.00	12,304.97	12,004.58	11,803.41	44.48	39.06	82.13	-262.02	-2,037.21	2,727.29	2,669.74	57.55	47.386		
12,500.00	12,327.78	12,096.23	11,824.53	44.58	39.63	81.00	-351.08	-2,036.08	2,734.43	2,676.42	58.01	47.137		
12,550.00	12,346.63	12,160.20	11,830.83	44.68	40.03	80.06	-414.61	-2,032.45	2,740.03	2,681.69	58.33	46.972		
12,600.00	12,361.37	12,200.00	11,833.42	44.79	40.29	79.37	-454.26	-2,030.23	2,745.33	2,686.76	58.57	46.876		
12,650.00	12,371.89	12,200.00	11,833.42	44.91	40.29	78.89	-454.26	-2,030.23	2,750.18	2,691.55	58.63	46.904		
12,700.00	12,378.11	12,238.61	11,835.62	45.04	40.55	78.40	-492.78	-2,028.50	2,754.60	2,695.70	58.90	46.770		
12,746.51	12,380.00	12,263.19	11,836.87	45.17	40.72	78.05	-517.30	-2,027.62	2,758.34	2,699.25	59.10	46.673		
12,800.00	12,380.00	12,300.00	11,838.51	45.34	40.98	78.11	-554.06	-2,026.63	2,762.20	2,702.82	59.38	46.515		
12,900.00	12,380.00	12,344.24	11,840.13	45.69	41.31	78.18	-598.27	-2,025.95	2,768.03	2,708.20	59.84	46.261		
13,000.00	12,380.00	12,400.00	11,841.61	46.08	41.72	78.24	-654.01	-2,025.89	2,772.18	2,711.80	60.38	45.914		
13,063.21	12,380.00	12,430.56	11,842.15	46.35	41.96	78.26	-684.56	-2,026.24	2,773.91	2,713.19	60.72	45.685		
13,100.00	12,380.00	12,450.02	11,842.40	46.52	42.11	78.27	-704.02	-2,026.60	2,774.83	2,713.90	60.93	45.541		
13,200.00	12,380.00	12,500.00	11,842.69	47.00	42.51	78.28	-753.97	-2,028.01	2,778.50	2,716.99	61.51	45.170		
13,300.00	12,380.00	12,569.51	11,842.27	47.54	43.08	78.29	-823.41	-2,031.17	2,783.92	2,721.67	62.26	44.718		
13,400.00	12,380.00	12,643.17	11,841.30	48.13	43.72	78.29	-896.95	-2,035.24	2,790.45	2,727.37	63.07	44.241		
13,500.00	12,380.00	12,936.65	11,842.76	48.77	46.48	78.35	-1,190.28	-2,040.94	2,792.41	2,726.91	65.51	42.628		
13,600.00	12,380.00	13,036.63	11,844.67	49.45	47.50	78.39	-1,290.24	-2,040.06	2,792.13	2,725.44	66.69	41.865		
13,700.00	12,380.00	13,136.62	11,846.58	50.18	48.55	78.43	-1,390.20	-2,039.18	2,791.86	2,723.92	67.94	41.094		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Bus Driver/Kaston Fed Com - Bus Driver Fed Com 602H - OH - Plan #6													Offset Well Error:	0.00 usft
Survey Program: 112-OWSG (Rev2) MWD, 1425-OWSG (Rev2) MWD, 12083-OWSG (Rev2) MWD														
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		
13,800.00	12,380.00	13,236.60	11,848.49	50.95	49.63	78.47	-1,490.16	-2,038.30	2,791.58	2,722.34	69.24	40.319		
13,900.00	12,380.00	13,336.58	11,850.40	51.77	50.75	78.51	-1,590.11	-2,037.42	2,791.30	2,720.72	70.59	39.544		
14,000.00	12,380.00	13,436.56	11,852.32	52.62	51.89	78.55	-1,690.07	-2,036.54	2,791.03	2,719.04	71.99	38.771		
14,100.00	12,380.00	13,536.54	11,854.23	53.51	53.06	78.59	-1,790.03	-2,035.66	2,790.76	2,717.32	73.43	38.005		
14,200.00	12,380.00	13,636.52	11,856.14	54.44	54.25	78.63	-1,889.99	-2,034.78	2,790.48	2,715.56	74.92	37.246		
14,300.00	12,380.00	13,736.51	11,858.05	55.40	55.47	78.66	-1,989.95	-2,033.90	2,790.21	2,713.76	76.45	36.497		
14,400.00	12,380.00	13,836.49	11,859.96	56.39	56.71	78.70	-2,089.91	-2,033.02	2,789.95	2,711.93	78.02	35.760		
14,500.00	12,380.00	13,936.47	11,861.88	57.41	57.97	78.74	-2,189.87	-2,032.14	2,789.68	2,710.06	79.62	35.037		
14,600.00	12,380.00	14,036.45	11,863.79	58.46	59.25	78.78	-2,289.83	-2,031.27	2,789.41	2,708.15	81.26	34.327		
14,700.00	12,380.00	14,136.43	11,865.70	59.54	60.55	78.82	-2,389.79	-2,030.39	2,789.15	2,706.22	82.93	33.633		
14,800.00	12,380.00	14,236.41	11,867.61	60.64	61.86	78.86	-2,489.75	-2,029.51	2,788.88	2,704.25	84.63	32.954		
14,900.00	12,380.00	14,336.40	11,869.52	61.77	63.19	78.90	-2,589.71	-2,028.63	2,788.62	2,702.26	86.36	32.291		
15,000.00	12,380.00	14,436.38	11,871.43	62.92	64.54	78.94	-2,689.67	-2,027.75	2,788.36	2,700.24	88.11	31.645		
15,100.00	12,380.00	14,536.36	11,873.35	64.09	65.90	78.98	-2,789.63	-2,026.87	2,788.10	2,698.20	89.90	31.015		
15,200.00	12,380.00	14,636.34	11,875.26	65.28	67.27	79.01	-2,889.59	-2,025.99	2,787.84	2,696.14	91.70	30.401		
15,300.00	12,380.00	14,736.32	11,877.17	66.50	68.66	79.05	-2,989.55	-2,025.11	2,787.58	2,694.05	93.53	29.805		
15,400.00	12,380.00	14,836.30	11,879.08	67.73	70.05	79.09	-3,089.51	-2,024.23	2,787.33	2,691.95	95.38	29.224		
15,500.00	12,380.00	14,936.29	11,880.99	68.98	71.46	79.13	-3,189.47	-2,023.35	2,787.07	2,689.83	97.25	28.660		
15,600.00	12,380.00	15,036.27	11,882.91	70.24	72.87	79.17	-3,289.43	-2,022.47	2,786.82	2,687.69	99.13	28.112		
15,700.00	12,380.00	15,136.25	11,884.82	71.52	74.30	79.21	-3,389.39	-2,021.60	2,786.57	2,685.53	101.04	27.579		
15,800.00	12,380.00	15,236.23	11,886.73	72.82	75.74	79.25	-3,489.35	-2,020.72	2,786.32	2,683.35	102.96	27.062		
15,900.00	12,380.00	15,346.35	11,888.93	74.13	77.33	79.30	-3,599.43	-2,019.75	2,785.98	2,680.96	105.02	26.529		
16,000.00	12,380.00	15,447.06	11,893.44	75.46	78.80	79.39	-3,700.06	-2,018.86	2,785.35	2,678.35	107.00	26.032		
16,100.00	12,380.00	15,546.98	11,897.46	76.79	80.26	79.47	-3,799.89	-2,017.99	2,784.71	2,675.73	108.98	25.553		
16,200.00	12,380.00	15,646.90	11,901.49	78.14	81.73	79.55	-3,899.72	-2,017.11	2,784.09	2,673.11	110.98	25.087		
16,300.00	12,380.00	15,746.82	11,905.51	79.50	83.21	79.63	-3,999.56	-2,016.23	2,783.47	2,670.48	112.99	24.636		
16,400.00	12,380.00	15,846.74	11,909.53	80.87	84.69	79.71	-4,099.39	-2,015.35	2,782.85	2,667.84	115.01	24.197		
16,500.00	12,380.00	15,946.66	11,913.56	82.25	86.18	79.79	-4,199.22	-2,014.48	2,782.24	2,665.20	117.04	23.771		
16,600.00	12,380.00	16,046.58	11,917.58	83.64	87.67	79.88	-4,299.06	-2,013.60	2,781.64	2,662.55	119.09	23.358		
16,700.00	12,380.00	16,146.50	11,921.61	85.04	89.18	79.96	-4,398.89	-2,012.72	2,781.04	2,659.90	121.14	22.957		
16,800.00	12,380.00	16,246.42	11,925.63	86.45	90.68	80.04	-4,498.73	-2,011.85	2,780.45	2,657.24	123.21	22.567		
16,900.00	12,380.00	16,346.33	11,929.65	87.87	92.19	80.12	-4,598.56	-2,010.97	2,779.86	2,654.57	125.29	22.188		
17,000.00	12,380.00	16,446.25	11,933.68	89.30	93.71	80.20	-4,698.39	-2,010.09	2,779.28	2,651.91	127.37	21.820		
17,100.00	12,380.00	16,546.17	11,937.70	90.73	95.23	80.29	-4,798.23	-2,009.21	2,778.70	2,649.24	129.47	21.463		
17,200.00	12,380.00	16,646.09	11,941.72	92.17	96.75	80.37	-4,898.06	-2,008.34	2,778.13	2,646.56	131.57	21.115		
17,300.00	12,380.00	16,746.01	11,945.75	93.62	98.28	80.45	-4,997.90	-2,007.46	2,777.57	2,643.89	133.68	20.778		
17,400.00	12,380.00	16,845.93	11,949.77	95.07	99.81	80.53	-5,097.73	-2,006.58	2,777.01	2,641.21	135.80	20.449		
17,500.00	12,380.00	16,945.85	11,953.80	96.53	101.35	80.62	-5,197.56	-2,005.70	2,776.46	2,638.53	137.93	20.130		
17,600.00	12,380.00	17,045.77	11,957.82	98.00	102.89	80.70	-5,297.40	-2,004.83	2,775.91	2,635.85	140.06	19.819		
17,700.00	12,380.00	17,145.68	11,961.84	99.47	104.43	80.78	-5,397.23	-2,003.95	2,775.37	2,633.17	142.20	19.517		
17,800.00	12,380.00	17,245.60	11,965.87	100.95	105.98	80.86	-5,497.07	-2,003.07	2,774.84	2,630.49	144.35	19.223		
17,900.00	12,380.00	17,345.52	11,969.89	102.43	107.52	80.95	-5,596.90	-2,002.19	2,774.31	2,627.80	146.50	18.937		
18,000.00	12,380.00	17,445.44	11,973.92	103.92	109.08	81.03	-5,696.73	-2,001.32	2,773.78	2,625.12	148.66	18.658		
18,100.00	12,380.00	17,545.36	11,977.94	105.41	110.63	81.11	-5,796.57	-2,000.44	2,773.27	2,622.44	150.83	18.387		
18,200.00	12,380.00	17,645.28	11,981.96	106.91	112.19	81.19	-5,896.40	-1,999.56	2,772.75	2,619.75	153.00	18.122		
18,300.00	12,380.00	17,745.20	11,985.99	108.41	113.75	81.28	-5,996.24	-1,998.69	2,772.25	2,617.07	155.18	17.865		
18,400.00	12,380.00	17,845.12	11,990.01	109.92	115.31	81.36	-6,096.07	-1,997.81	2,771.75	2,614.39	157.36	17.614		
18,500.00	12,380.00	17,945.04	11,994.03	111.43	116.88	81.44	-6,195.90	-1,996.93	2,771.25	2,611.71	159.55	17.369		
18,600.00	12,380.00	18,044.95	11,998.06	112.94	118.44	81.52	-6,295.74	-1,996.05	2,770.76	2,609.02	161.74	17.131		
18,700.00	12,380.00	18,144.87	12,002.08	114.46	120.01	81.61	-6,395.57	-1,995.18	2,770.28	2,606.35	163.94	16.899		
18,800.00	12,380.00	18,244.79	12,006.11	115.98	121.59	81.69	-6,495.40	-1,994.30	2,769.80	2,603.67	166.14	16.672		
18,900.00	12,380.00	18,344.71	12,010.13	117.51	123.16	81.77	-6,595.24	-1,993.42	2,769.33	2,600.99	168.34	16.451		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kaston Fed Com - Bus Driver Fed Com 602H - OH - Plan #6		Offset Site Error:	0.00 usft
Survey Program:													112-OWSG (Rev2) MWD, 1425-OWSG (Rev2) MWD, 12083-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				
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)					
19,000.00	12,380.00	18,444.63	12,014.15	119.04	124.74	81.85	-6,695.07	-1,992.54	2,768.87	2,598.31	170.55	16.235				
19,100.00	12,380.00	18,544.55	12,018.18	120.57	126.31	81.94	-6,794.91	-1,991.67	2,768.41	2,595.64	172.77	16.024				
19,200.00	12,380.00	18,644.47	12,022.20	122.11	127.89	82.02	-6,894.74	-1,990.79	2,767.95	2,592.97	174.98	15.818				
19,300.00	12,380.00	18,744.39	12,026.22	123.64	129.47	82.10	-6,994.57	-1,989.91	2,767.50	2,590.30	177.20	15.618				
19,400.00	12,380.00	18,844.30	12,030.25	125.18	131.06	82.18	-7,094.41	-1,989.04	2,767.06	2,587.63	179.43	15.422				
19,500.00	12,380.00	18,944.22	12,034.27	126.73	132.64	82.27	-7,194.24	-1,988.16	2,766.62	2,584.97	181.66	15.230				
19,600.00	12,380.00	19,049.19	12,038.99	128.27	134.31	82.36	-7,299.10	-1,987.24	2,766.13	2,582.18	183.95	15.037				
19,700.00	12,380.00	19,149.05	12,044.38	129.82	135.89	82.48	-7,398.80	-1,986.36	2,765.53	2,579.33	186.20	14.853				
19,800.00	12,380.00	19,248.90	12,049.77	131.38	137.48	82.59	-7,498.51	-1,985.48	2,764.93	2,576.49	188.45	14.672				
19,900.00	12,380.00	19,348.75	12,055.16	132.93	139.07	82.70	-7,598.21	-1,984.61	2,764.35	2,573.65	190.70	14.496				
20,000.00	12,380.00	19,448.61	12,060.55	134.49	140.66	82.81	-7,697.92	-1,983.73	2,763.78	2,570.82	192.95	14.324				
20,100.00	12,380.00	19,548.46	12,065.93	136.04	142.26	82.92	-7,797.62	-1,982.86	2,763.21	2,568.01	195.21	14.155				
20,200.00	12,380.00	19,648.32	12,071.32	137.61	143.85	83.03	-7,897.33	-1,981.98	2,762.66	2,565.19	197.47	13.991				
20,300.00	12,380.00	19,748.17	12,076.71	139.17	145.45	83.14	-7,997.03	-1,981.10	2,762.12	2,562.39	199.73	13.829				
20,400.00	12,380.00	19,848.03	12,082.10	140.73	147.04	83.25	-8,096.74	-1,980.23	2,761.59	2,559.59	201.99	13.672				
20,500.00	12,380.00	19,947.88	12,087.49	142.30	148.64	83.37	-8,196.44	-1,979.35	2,761.06	2,556.81	204.26	13.518				
20,600.00	12,380.00	20,047.73	12,092.88	143.87	150.24	83.48	-8,296.15	-1,978.47	2,760.55	2,554.03	206.53	13.367				
20,700.00	12,380.00	20,147.59	12,098.27	145.44	151.84	83.59	-8,395.85	-1,977.60	2,760.05	2,551.26	208.80	13.219				
20,800.00	12,380.00	20,247.44	12,103.66	147.01	153.44	83.70	-8,495.56	-1,976.72	2,759.56	2,548.49	211.07	13.074				
20,900.00	12,380.00	20,347.30	12,109.05	148.59	155.04	83.81	-8,595.26	-1,975.85	2,759.08	2,545.74	213.35	12.932				
21,000.00	12,380.00	20,447.15	12,114.44	150.16	156.64	83.92	-8,694.97	-1,974.97	2,758.62	2,542.99	215.62	12.794				
21,100.00	12,380.00	20,547.00	12,119.82	151.74	158.25	84.03	-8,794.67	-1,974.09	2,758.16	2,540.25	217.90	12.658				
21,200.00	12,380.00	20,646.86	12,125.21	153.32	159.85	84.15	-8,894.38	-1,973.22	2,757.71	2,537.53	220.18	12.525				
21,300.00	12,380.00	20,746.71	12,130.60	154.90	161.46	84.26	-8,994.08	-1,972.34	2,757.27	2,534.81	222.47	12.394				
21,400.00	12,380.00	20,846.57	12,135.99	156.48	163.06	84.37	-9,093.79	-1,971.47	2,756.84	2,532.09	224.75	12.266				
21,500.00	12,380.00	20,946.42	12,141.38	158.06	164.67	84.48	-9,193.49	-1,970.59	2,756.43	2,529.39	227.04	12.141				
21,600.00	12,380.00	21,046.28	12,146.77	159.65	166.28	84.59	-9,293.20	-1,969.71	2,756.02	2,526.70	229.32	12.018				
21,700.00	12,380.00	21,146.13	12,152.16	161.23	167.89	84.70	-9,392.90	-1,968.84	2,755.63	2,524.01	231.61	11.897				
21,800.00	12,380.00	21,245.98	12,157.55	162.82	169.50	84.82	-9,492.61	-1,967.96	2,755.24	2,521.34	233.90	11.779				
21,900.00	12,380.00	21,345.84	12,162.94	164.41	171.11	84.93	-9,592.31	-1,967.08	2,754.87	2,518.67	236.20	11.663				
22,000.00	12,380.00	21,445.69	12,168.33	166.00	172.72	85.04	-9,692.01	-1,966.21	2,754.50	2,516.01	238.49	11.550				
22,100.00	12,380.00	21,545.55	12,173.71	167.59	174.33	85.15	-9,791.72	-1,965.33	2,754.15	2,513.37	240.78	11.438				
22,200.00	12,380.00	21,645.40	12,179.10	169.18	175.94	85.26	-9,891.42	-1,964.46	2,753.81	2,510.73	243.08	11.329				
22,300.00	12,380.00	21,745.26	12,184.49	170.77	177.55	85.38	-9,991.13	-1,963.58	2,753.48	2,508.10	245.38	11.221				
22,400.00	12,380.00	21,845.00	12,189.88	172.37	179.29	85.54	-10,098.59	-1,962.63	2,753.02	2,505.23	247.79	11.110				
22,500.00	12,380.00	21,953.67	12,201.80	173.96	180.92	85.73	-10,198.79	-1,961.75	2,752.40	2,502.27	250.12	11.004				
22,547.76	12,380.00	22,001.20	12,206.35	174.73	181.69	85.83	-10,246.11	-1,961.34	2,752.11	2,500.88	251.23	10.955				
22,548.65	12,380.00	22,002.10	12,206.43	174.75	181.70	85.83	-10,247.00	-1,961.33	2,752.10	2,500.85	251.25	10.954 SF				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD, 1424-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	16.00	16.00	0.00	0.00	-74.78	504.50	-1,853.99	1,921.43					
100.00	100.00	100.00	99.98	0.13	0.16	-74.76	505.37	-1,854.82	1,922.62	1,922.43	0.19	N/A		
200.00	200.00	203.11	203.07	0.48	0.50	-74.74	506.52	-1,856.21	1,924.22	1,923.53	0.69	2,773.735		
300.00	300.00	300.00	299.95	0.84	0.84	-74.73	507.05	-1,857.53	1,925.67	1,924.48	1.19	1,617.833		
400.00	400.00	382.93	382.86	1.20	1.14	-74.75	506.83	-1,859.15	1,927.49	1,925.84	1.65	1,166.019		
500.00	500.00	473.05	472.95	1.56	1.46	-74.77	506.81	-1,861.45	1,929.95	1,927.82	2.13	904.022		
600.00	600.00	551.00	550.84	1.92	1.74	-74.80	506.49	-1,864.40	1,933.45	1,930.87	2.59	747.157		
700.00	700.00	646.00	645.76	2.28	2.09	-74.84	506.18	-1,868.36	1,937.40	1,934.32	3.08	628.600		
800.00	800.00	782.45	782.11	2.63	2.58	-74.90	505.61	-1,873.36	1,940.90	1,937.22	3.68	527.525		
900.00	900.00	883.82	883.44	2.99	2.95	-74.94	504.80	-1,876.14	1,943.34	1,939.15	4.19	463.858		
1,000.00	1,000.00	994.61	994.19	3.35	3.34	-75.00	503.46	-1,878.65	1,945.22	1,940.49	4.72	411.876		
1,100.00	1,100.00	1,091.49	1,091.05	3.71	3.69	-75.05	502.04	-1,880.68	1,946.86	1,941.64	5.22	372.892		
1,200.00	1,200.00	1,193.47	1,192.98	4.07	4.06	-75.12	500.39	-1,883.19	1,948.83	1,943.09	5.73	339.943		
1,300.00	1,300.00	1,300.33	1,299.81	4.43	4.44	-75.16	499.47	-1,885.12	1,950.35	1,944.09	6.26	311.701		
1,400.00	1,400.00	1,406.57	1,406.04	4.79	4.65	-75.19	498.96	-1,886.63	1,951.60	1,944.95	6.66	293.144		
1,500.00	1,500.00	1,512.86	1,512.33	5.14	4.71	-75.19	498.96	-1,887.60	1,952.48	1,945.52	6.96	280.590		
1,600.00	1,600.00	1,616.68	1,616.15	5.50	4.76	-75.20	498.83	-1,888.30	1,953.11	1,945.84	7.26	268.874		
1,700.00	1,700.00	1,721.79	1,721.25	5.86	4.85	-75.21	498.73	-1,888.75	1,953.49	1,945.90	7.59	257.241		
1,800.00	1,800.00	1,822.27	1,821.74	6.22	4.96	-75.21	498.74	-1,889.00	1,953.74	1,945.80	7.94	246.051		
1,900.00	1,900.00	1,921.90	1,921.36	6.58	5.09	-75.21	498.86	-1,889.26	1,954.01	1,945.71	8.30	235.356		
2,000.00	2,000.00	2,023.71	2,023.17	6.94	5.24	-75.21	498.92	-1,889.44	1,954.21	1,945.53	8.68	225.131		
2,100.00	2,100.00	2,123.33	2,122.80	7.29	5.41	-75.20	499.28	-1,889.54	1,954.40	1,945.33	9.07	215.552		
2,200.00	2,199.99	2,224.86	2,224.32	7.65	5.59	-149.73	499.81	-1,889.57	1,955.69	1,946.23	9.46	206.738		
2,300.00	2,299.91	2,326.68	2,326.15	7.99	5.79	-149.74	500.41	-1,889.47	1,959.14	1,949.28	9.86	198.743		
2,400.00	2,399.69	2,427.69	2,427.15	8.34	6.00	-149.77	501.27	-1,889.22	1,964.77	1,954.50	10.26	191.426		
2,500.00	2,499.27	2,529.18	2,528.64	8.70	6.23	-149.82	502.21	-1,888.89	1,972.60	1,961.92	10.68	184.715		
2,601.33	2,599.89	2,614.60	2,614.05	9.06	6.43	-149.87	502.77	-1,888.83	1,983.05	1,971.97	11.08	178.911		
2,700.00	2,697.71	2,689.18	2,688.62	9.42	6.61	-150.04	502.25	-1,889.87	1,995.41	1,983.94	11.47	173.969		
2,800.00	2,796.85	2,769.20	2,768.59	9.78	6.82	-150.24	500.99	-1,892.17	2,009.15	1,997.28	11.87	169.253		
2,900.00	2,895.99	2,876.72	2,876.06	10.15	7.10	-150.50	499.48	-1,895.43	2,023.16	2,010.83	12.32	164.192		
3,000.00	2,995.13	2,974.20	2,973.50	10.53	7.37	-150.74	498.04	-1,897.83	2,036.62	2,023.86	12.76	159.579		
3,100.00	3,094.27	3,046.02	3,045.25	10.90	7.57	-150.93	496.20	-1,900.43	2,051.00	2,037.84	13.16	155.836		
3,200.00	3,193.41	3,122.00	3,121.03	11.28	7.78	-151.18	493.18	-1,904.87	2,067.11	2,053.54	13.57	152.341		
3,300.00	3,292.55	3,165.41	3,164.24	11.67	7.92	-151.34	490.93	-1,908.34	2,084.91	2,071.00	13.91	149.874		
3,400.00	3,391.69	3,217.00	3,215.48	12.05	8.07	-151.55	487.76	-1,913.44	2,104.77	2,090.51	14.26	147.568		
3,500.00	3,490.83	3,286.34	3,284.15	12.44	8.29	-151.85	482.71	-1,921.67	2,126.36	2,111.71	14.65	145.105		
3,600.00	3,589.97	3,362.01	3,358.84	12.82	8.54	-152.21	476.38	-1,931.93	2,149.40	2,134.34	15.06	142.719		
3,700.00	3,689.11	3,464.86	3,460.29	13.21	8.88	-152.69	467.52	-1,946.33	2,172.97	2,157.43	15.54	139.847		
3,800.00	3,788.25	3,562.02	3,556.31	13.60	9.21	-153.11	460.09	-1,959.19	2,196.09	2,180.09	16.01	137.205		
3,900.00	3,887.39	3,626.01	3,619.50	13.99	9.44	-153.39	455.12	-1,968.05	2,219.98	2,203.59	16.39	135.472		
4,000.00	3,986.53	3,689.00	3,681.42	14.39	9.67	-153.67	449.80	-1,978.28	2,245.88	2,229.12	16.76	133.982		
4,100.00	4,085.67	3,730.28	3,721.84	14.78	9.82	-153.86	446.15	-1,985.79	2,273.59	2,256.52	17.07	133.188		
4,200.00	4,184.81	3,783.00	3,773.32	15.18	10.02	-154.11	441.50	-1,996.15	2,303.14	2,285.73	17.41	132.318		
4,300.00	4,283.95	3,856.64	3,845.06	15.57	10.32	-154.45	435.23	-2,011.57	2,334.03	2,316.23	17.81	131.073		
4,400.00	4,383.09	3,935.57	3,921.84	15.97	10.64	-154.79	428.93	-2,028.73	2,365.85	2,347.62	18.23	129.807		
4,500.00	4,482.23	4,032.12	4,015.73	16.37	11.04	-155.19	421.53	-2,049.97	2,398.07	2,379.36	18.71	128.194		
4,600.00	4,581.37	4,300.88	4,278.36	16.77	12.16	-156.33	397.20	-2,101.14	2,428.56	2,408.80	19.76	122.884		
4,700.00	4,680.51	4,514.88	4,490.29	17.17	12.98	-157.06	381.19	-2,125.64	2,450.03	2,429.43	20.60	118.935		
4,800.00	4,779.65	4,607.22	4,582.06	17.57	13.32	-157.31	376.12	-2,134.55	2,470.95	2,449.87	21.08	117.240		
4,900.00	4,878.79	4,743.18	4,717.34	17.97	13.82	-157.65	370.04	-2,146.68	2,491.34	2,469.66	21.67	114.946		
5,000.00	4,977.93	4,832.39	4,806.16	18.37	14.15	-157.86	366.12	-2,154.01	2,511.07	2,488.93	22.14	113.408		
5,100.00	5,077.07	4,915.00	4,888.34	18.77	14.46	-158.07	362.03	-2,161.36	2,531.42	2,508.83	22.59	112.047		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD, 1424-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		
5,200.00	5,176.21	5,022.34	4,995.14	19.17	14.86	-158.33	356.71	-2,170.66	2,551.61	2,528.49	23.11	110.388		
5,300.00	5,275.35	5,105.00	5,077.29	19.57	15.17	-158.56	351.71	-2,178.38	2,572.36	2,548.79	23.57	109.151		
5,400.00	5,374.49	5,147.75	5,119.67	19.98	15.34	-158.68	348.57	-2,182.99	2,594.35	2,570.45	23.90	108.554		
5,500.00	5,473.63	5,199.00	5,170.33	20.38	15.55	-158.85	344.20	-2,189.43	2,618.15	2,593.90	24.25	107.967		
5,600.00	5,572.77	5,250.44	5,221.00	20.78	15.76	-159.03	339.33	-2,196.79	2,643.66	2,619.07	24.60	107.479		
5,700.00	5,671.91	5,308.06	5,277.58	21.19	16.01	-159.24	333.49	-2,206.00	2,670.78	2,645.82	24.96	107.001		
5,800.00	5,771.05	5,390.15	5,358.05	21.59	16.37	-159.54	324.85	-2,219.79	2,698.80	2,673.39	25.41	106.205		
5,900.00	5,870.19	5,483.47	5,449.44	22.00	16.78	-159.88	314.79	-2,235.72	2,727.17	2,701.26	25.90	105.278		
6,000.00	5,969.33	5,589.31	5,553.13	22.40	17.25	-160.26	303.27	-2,253.55	2,755.39	2,728.94	26.45	104.193		
6,100.00	6,068.47	5,674.34	5,636.42	22.81	17.63	-160.56	293.91	-2,267.89	2,783.73	2,756.82	26.91	103.450		
6,200.00	6,167.61	5,771.93	5,731.97	23.22	18.07	-160.90	283.09	-2,284.52	2,812.32	2,784.90	27.42	102.561		
6,300.00	6,266.75	5,932.19	5,889.33	23.62	18.78	-161.42	266.24	-2,309.71	2,839.71	2,811.54	28.16	100.826		
6,400.00	6,365.89	6,063.58	6,018.75	24.03	19.35	-161.83	252.82	-2,328.01	2,865.47	2,836.67	28.80	99.506		
6,500.00	6,465.03	6,173.02	6,126.57	24.44	19.82	-162.18	240.86	-2,342.44	2,890.59	2,861.24	29.35	98.484		
6,600.00	6,564.17	6,278.47	6,230.52	24.84	20.27	-162.51	229.27	-2,355.79	2,915.28	2,885.39	29.89	97.529		
6,700.00	6,663.31	6,371.10	6,321.84	25.25	20.67	-162.80	218.96	-2,367.50	2,940.03	2,909.65	30.39	96.753		
6,800.00	6,762.45	6,480.95	6,430.14	25.66	21.14	-163.13	206.99	-2,381.34	2,964.84	2,933.90	30.94	95.816		
6,856.14	6,818.11	6,543.14	6,491.61	25.89	21.40	-163.29	201.07	-2,388.79	2,978.44	2,947.19	31.26	95.292		
6,900.00	6,861.62	6,581.39	6,529.44	26.06	21.56	-163.43	197.84	-2,393.38	2,988.87	2,957.40	31.46	94.996		
7,000.00	6,961.05	6,685.83	6,613.01	26.46	21.91	-163.70	191.65	-2,403.72	3,011.15	2,979.23	31.92	94.326		
7,100.00	7,060.72	6,786.00	6,712.17	26.84	22.33	-163.96	185.04	-2,416.32	3,031.33	2,998.89	32.43	93.461		
7,200.00	7,160.57	6,908.74	6,853.61	27.20	22.91	-164.25	175.74	-2,433.09	3,048.27	3,015.18	33.09	92.121		
7,300.00	7,260.53	7,048.39	6,992.26	27.55	23.47	-164.49	167.22	-2,447.47	3,061.28	3,027.55	33.73	90.769		
7,357.47	7,318.00	7,110.59	7,054.09	27.74	23.71	-90.04	163.77	-2,453.31	3,067.10	3,033.07	34.03	90.134		
7,400.00	7,360.53	7,144.84	7,088.14	27.88	23.85	-90.07	162.08	-2,456.60	3,071.18	3,036.97	34.21	89.770		
7,500.00	7,460.53	7,234.50	7,177.28	28.21	24.20	-90.14	158.27	-2,465.51	3,081.13	3,046.46	34.67	88.862		
7,600.00	7,560.53	7,361.15	7,303.20	28.54	24.69	-90.25	152.75	-2,477.86	3,090.95	3,055.70	35.26	87.673		
7,700.00	7,660.53	7,513.55	7,454.98	28.87	25.26	-90.35	147.15	-2,490.31	3,099.07	3,063.16	35.91	86.295		
7,800.00	7,760.53	7,639.70	7,580.79	29.20	25.72	-90.40	144.57	-2,499.24	3,106.17	3,069.69	36.48	85.147		
7,900.00	7,860.53	7,816.68	7,757.49	29.53	26.34	-90.43	142.79	-2,508.96	3,111.74	3,074.56	37.18	83.687		
8,000.00	7,960.53	7,975.38	7,916.09	29.87	26.88	-90.46	140.94	-2,514.06	3,114.97	3,077.15	37.82	82.361		
8,100.00	8,060.53	8,103.40	8,044.09	30.20	27.29	-90.45	141.57	-2,516.17	3,116.56	3,078.19	38.37	81.229		
8,200.00	8,160.53	8,207.57	8,148.24	30.53	27.61	-90.42	142.95	-2,517.54	3,117.86	3,079.01	38.85	80.249		
8,300.00	8,260.53	8,323.65	8,264.31	30.87	27.97	-90.40	144.03	-2,518.72	3,118.88	3,079.51	39.37	79.230		
8,400.00	8,360.53	8,446.81	8,387.47	31.20	28.35	-90.39	144.62	-2,519.15	3,119.22	3,079.34	39.89	78.197		
8,500.00	8,460.53	8,559.87	8,500.53	31.54	28.68	-90.39	145.01	-2,518.85	3,118.95	3,078.56	40.38	77.235		
8,600.00	8,560.53	8,668.62	8,609.28	31.88	28.99	-90.38	145.29	-2,518.23	3,118.38	3,077.52	40.86	76.311		
8,700.00	8,660.53	8,794.89	8,735.53	32.21	29.35	-90.39	145.03	-2,516.85	3,117.29	3,075.91	41.38	75.331		
8,800.00	8,760.53	8,905.21	8,845.84	32.55	29.67	-90.39	144.82	-2,514.95	3,115.58	3,073.71	41.87	74.416		
8,900.00	8,860.53	9,008.18	8,948.79	32.89	29.96	-90.38	145.39	-2,512.92	3,113.60	3,071.27	42.34	73.542		
9,000.00	8,960.53	9,106.80	9,047.38	33.23	30.24	-90.36	146.34	-2,511.01	3,111.66	3,068.86	42.80	72.701		
9,100.00	9,060.53	9,210.32	9,150.87	33.56	30.54	-90.34	147.71	-2,508.97	3,109.68	3,066.41	43.27	71.861		
9,200.00	9,160.53	9,319.23	9,259.75	33.90	30.85	-90.31	149.25	-2,506.61	3,107.51	3,063.75	43.76	71.017		
9,300.00	9,260.53	9,419.34	9,359.82	34.24	31.14	-90.29	150.52	-2,504.23	3,105.12	3,060.89	44.22	70.212		
9,400.00	9,360.53	9,517.37	9,457.82	34.58	31.43	-90.26	151.97	-2,501.97	3,102.81	3,058.12	44.69	69.431		
9,500.00	9,460.53	9,576.70	9,517.13	34.92	31.60	-90.24	152.82	-2,500.89	3,101.07	3,055.99	45.08	68.789		
9,560.44	9,520.97	9,607.04	9,547.47	35.13	31.70	-90.24	153.25	-2,500.75	3,100.77	3,055.47	45.30	68.444		
9,600.00	9,560.53	9,631.00	9,571.42	35.26	31.77	-90.23	153.59	-2,500.84	3,100.90	3,055.45	45.46	68.216		
9,700.00	9,660.53	9,707.72	9,648.13	35.60	32.02	-90.21	154.75	-2,501.62	3,101.88	3,056.00	45.88	67.602		
9,800.00	9,760.53	9,826.54	9,766.92	35.94	32.40	-90.17	156.59	-2,502.89	3,102.97	3,056.56	46.41	66.859		
9,900.00	9,860.53	9,954.06	9,894.44	36.29	32.80	-90.14	158.19	-2,502.85	3,102.87	3,055.92	46.95	66.088		
10,000.00	9,960.53	10,047.02	9,987.39	36.63	33.09	-90.12	159.53	-2,502.80	3,102.81	3,055.39	47.41	65.442		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD, 1424-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		
10,077.24	10,037.77	10,123.91	10,064.27	36.89	33.33	-90.10	160.41	-2,502.78	3,102.78	3,055.00	47.78	64.934		
10,100.00	10,060.53	10,144.80	10,085.16	36.97	33.40	-90.10	160.45	-2,502.78	3,102.79	3,054.90	47.89	64.791		
10,200.00	10,160.53	10,229.06	10,169.42	37.31	33.67	-90.12	159.38	-2,502.98	3,103.03	3,054.69	48.34	64.193		
10,300.00	10,260.53	10,305.32	10,245.65	37.65	33.92	-90.15	157.84	-2,503.72	3,104.01	3,055.24	48.77	63.644		
10,400.00	10,360.53	10,394.44	10,334.74	38.00	34.23	-90.19	155.72	-2,505.10	3,105.55	3,056.32	49.24	63.073		
10,500.00	10,460.53	10,512.18	10,452.43	38.34	34.63	-90.24	152.77	-2,506.70	3,106.92	3,057.14	49.77	62.419		
10,600.00	10,560.53	10,621.32	10,561.54	38.68	34.99	-90.29	150.29	-2,507.73	3,107.88	3,057.59	50.29	61.800		
10,700.00	10,660.53	10,711.05	10,651.26	39.03	35.30	-90.31	149.37	-2,508.48	3,108.73	3,057.97	50.76	61.247		
10,800.00	10,760.53	10,790.53	10,730.72	39.37	35.57	-90.32	148.75	-2,509.70	3,110.26	3,059.06	51.20	60.748		
10,900.00	10,860.53	10,857.00	10,797.18	39.72	35.79	-90.34	147.81	-2,510.99	3,112.34	3,060.73	51.61	60.309		
11,000.00	10,960.53	10,952.00	10,892.13	40.06	36.13	-90.35	146.82	-2,513.87	3,115.37	3,063.28	52.09	59.810		
11,100.00	11,060.53	10,995.84	10,935.93	40.41	36.28	-90.36	146.41	-2,515.80	3,119.52	3,067.09	52.43	59.501		
11,200.00	11,160.53	11,100.49	11,040.38	40.75	36.66	-90.41	143.49	-2,521.32	3,124.84	3,071.90	52.94	59.025		
11,300.00	11,260.53	11,262.65	11,202.33	41.10	37.24	-90.52	137.37	-2,527.00	3,128.28	3,074.66	53.61	58.348		
11,400.00	11,360.53	11,399.42	11,338.89	41.44	37.72	-90.65	130.31	-2,529.77	3,130.34	3,076.13	54.21	57.745		
11,500.00	11,460.53	11,705.00	11,638.20	41.79	38.80	-91.63	77.02	-2,523.64	3,128.56	3,073.38	55.18	56.697		
11,600.00	11,560.53	11,733.89	11,665.58	42.13	38.91	-91.80	67.89	-2,522.46	3,124.98	3,069.44	55.54	56.263		
11,700.00	11,660.53	11,846.00	11,767.60	42.48	39.33	-92.64	22.09	-2,517.68	3,122.04	3,065.94	56.09	55.656		
11,800.00	11,760.53	11,846.00	11,767.60	42.83	39.33	-92.64	22.09	-2,517.68	3,121.06	3,064.70	56.36	55.373		
11,805.02	11,765.55	11,863.68	11,782.87	42.84	39.40	-92.81	13.19	-2,517.18	3,120.94	3,064.51	56.43	55.309		
11,846.51	11,807.04	11,874.75	11,792.35	42.99	39.45	-92.91	7.49	-2,516.97	3,121.27	3,064.71	56.56	55.183		
11,850.00	11,810.53	11,875.67	11,793.14	43.00	39.45	93.98	7.00	-2,516.96	3,121.32	3,064.75	56.57	55.173		
11,900.00	11,860.45	11,894.00	11,808.69	43.16	39.53	93.70	-2.70	-2,516.80	3,122.51	3,065.77	56.74	55.035		
11,950.00	11,909.97	11,894.00	11,808.69	43.31	39.53	93.49	-2.70	-2,516.80	3,124.61	3,067.77	56.84	54.974		
12,000.00	11,958.70	11,894.00	11,808.69	43.46	39.53	93.17	-2.70	-2,516.80	3,127.77	3,070.84	56.93	54.940		
12,050.00	12,006.28	11,932.47	11,840.15	43.61	39.70	92.57	-24.80	-2,517.11	3,131.20	3,074.05	57.15	54.791		
12,100.00	12,052.34	11,947.11	11,851.57	43.75	39.77	92.05	-33.95	-2,517.43	3,135.68	3,078.40	57.28	54.743		
12,150.00	12,096.54	11,985.00	11,879.58	43.87	39.94	91.38	-59.41	-2,518.82	3,141.17	3,083.68	57.49	54.641 SF		
12,200.00	12,138.53	11,985.00	11,879.58	43.99	39.94	90.81	-59.41	-2,518.82	3,146.80	3,089.24	57.56	54.670		
12,250.00	12,178.00	11,985.00	11,879.58	44.10	39.94	90.16	-59.41	-2,518.82	3,153.27	3,095.64	57.63	54.720		
12,300.00	12,214.64	11,985.00	11,879.58	44.21	39.94	89.42	-59.41	-2,518.82	3,160.53	3,102.84	57.69	54.786		
12,350.00	12,248.19	11,985.00	11,879.58	44.30	39.94	88.61	-59.41	-2,518.82	3,168.52	3,110.77	57.75	54.867		
12,400.00	12,278.37	11,985.00	11,879.58	44.39	39.94	87.74	-59.41	-2,518.82	3,177.17	3,119.36	57.81	54.960		
12,450.00	12,304.97	11,985.00	11,879.58	44.48	39.94	86.80	-59.41	-2,518.82	3,186.41	3,128.54	57.87	55.061		
12,500.00	12,327.78	11,985.00	11,879.58	44.58	39.94	85.80	-59.41	-2,518.82	3,196.17	3,138.24	57.93	55.169		
12,550.00	12,346.63	11,985.00	11,879.58	44.68	39.94	84.76	-59.41	-2,518.82	3,206.37	3,148.36	58.00	55.280		
12,600.00	12,361.37	11,985.00	11,879.58	44.79	39.94	83.69	-59.41	-2,518.82	3,216.92	3,158.85	58.07	55.393		
12,650.00	12,371.89	11,985.00	11,879.58	44.91	39.94	82.59	-59.41	-2,518.82	3,227.75	3,169.59	58.15	55.505		
12,700.00	12,378.11	11,985.00	11,879.58	45.04	39.94	81.47	-59.41	-2,518.82	3,238.76	3,180.53	58.23	55.616		
12,746.51	12,380.00	11,985.00	11,879.58	45.17	39.94	80.42	-59.41	-2,518.82	3,249.10	3,190.79	58.32	55.715		
12,800.00	12,380.00	11,985.00	11,879.58	45.34	39.94	80.46	-59.41	-2,518.82	3,260.96	3,202.54	58.42	55.822		
12,900.00	12,380.00	11,985.00	11,879.58	45.69	39.94	80.54	-59.41	-2,518.82	3,282.78	3,224.15	58.62	55.996		
13,000.00	12,380.00	11,985.00	11,879.58	46.08	39.94	80.61	-59.41	-2,518.82	3,304.14	3,245.29	58.86	56.139		
13,063.21	12,380.00	11,985.00	11,879.58	46.35	39.94	80.65	-59.41	-2,518.82	3,317.41	3,258.39	59.01	56.214		
13,100.00	12,380.00	11,985.00	11,879.58	46.52	39.94	80.65	-59.41	-2,518.82	3,325.26	3,266.15	59.11	56.257		
13,200.00	12,380.00	11,985.00	11,879.58	47.00	39.94	80.65	-59.41	-2,518.82	3,348.57	3,289.19	59.38	56.388		
13,300.00	12,380.00	11,985.00	11,879.58	47.54	39.94	80.65	-59.41	-2,518.82	3,374.68	3,315.00	59.68	56.548		
13,400.00	12,380.00	11,985.00	11,879.58	48.13	39.94	80.65	-59.41	-2,518.82	3,403.53	3,343.54	59.99	56.737		
13,500.00	12,380.00	11,985.00	11,879.58	48.77	39.94	80.65	-59.41	-2,518.82	3,435.05	3,374.73	60.31	56.955		
13,600.00	12,380.00	11,985.00	11,879.58	49.45	39.94	80.65	-59.41	-2,518.82	3,469.16	3,408.52	60.65	57.203		
13,700.00	12,380.00	11,985.00	11,879.58	50.18	39.94	80.65	-59.41	-2,518.82	3,505.80	3,444.81	60.99	57.482		
13,800.00	12,380.00	11,985.00	11,879.58	50.95	39.94	80.65	-59.41	-2,518.82	3,544.88	3,483.54	61.34	57.791		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kaston Fed Com - Bus Driver Fed Com 702H - OH - OH		Offset Site Error:	0.00 usft
Survey Program:													16-OWSG (Rev2) MWD, 1424-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	12,380.00	11,985.00	11,879.58	51.77	39.94	80.65	-59.41	-2,518.82	3,586.32	3,524.63	61.69	58.132				
14,000.00	12,380.00	11,985.00	11,879.58	52.62	39.94	80.65	-59.41	-2,518.82	3,630.05	3,568.00	62.05	58.503				
14,100.00	12,380.00	11,985.00	11,879.58	53.51	39.94	80.65	-59.41	-2,518.82	3,675.98	3,613.57	62.41	58.904				
14,200.00	12,380.00	11,985.00	11,879.58	54.44	39.94	80.65	-59.41	-2,518.82	3,724.02	3,661.26	62.76	59.335				
14,300.00	12,380.00	11,985.00	11,879.58	55.40	39.94	80.65	-59.41	-2,518.82	3,774.11	3,710.99	63.11	59.798				
14,400.00	12,380.00	11,985.00	11,879.58	56.39	39.94	80.65	-59.41	-2,518.82	3,826.15	3,762.69	63.46	60.291				
14,500.00	12,380.00	11,985.00	11,879.58	57.41	39.94	80.65	-59.41	-2,518.82	3,880.07	3,816.27	63.80	60.812				
14,600.00	12,380.00	11,985.00	11,879.58	58.46	39.94	80.65	-59.41	-2,518.82	3,935.80	3,871.66	64.14	61.362				
14,700.00	12,380.00	11,985.00	11,879.58	59.54	39.94	80.65	-59.41	-2,518.82	3,993.25	3,928.78	64.47	61.938				
14,800.00	12,380.00	11,985.00	11,879.58	60.64	39.94	80.65	-59.41	-2,518.82	4,052.36	3,987.56	64.79	62.542				
14,900.00	12,380.00	11,985.00	11,879.58	61.77	39.94	80.65	-59.41	-2,518.82	4,113.04	4,047.93	65.11	63.170				
15,000.00	12,380.00	11,985.00	11,879.58	62.92	39.94	80.65	-59.41	-2,518.82	4,175.25	4,109.83	65.42	63.824				
15,100.00	12,380.00	11,985.00	11,879.58	64.09	39.94	80.65	-59.41	-2,518.82	4,238.89	4,173.18	65.72	64.501				
15,200.00	12,380.00	11,985.00	11,879.58	65.28	39.94	80.65	-59.41	-2,518.82	4,303.92	4,237.92	66.01	65.202				
15,300.00	12,380.00	11,985.00	11,879.58	66.50	39.94	80.65	-59.41	-2,518.82	4,370.28	4,303.98	66.29	65.924				
15,400.00	12,380.00	11,985.00	11,879.58	67.73	39.94	80.65	-59.41	-2,518.82	4,437.89	4,371.32	66.57	66.668				
15,500.00	12,380.00	11,985.00	11,879.58	68.98	39.94	80.65	-59.41	-2,518.82	4,506.71	4,439.87	66.83	67.432				
15,600.00	12,380.00	11,985.00	11,879.58	70.24	39.94	80.65	-59.41	-2,518.82	4,576.67	4,509.58	67.09	68.215				
15,700.00	12,380.00	11,985.00	11,879.58	71.52	39.94	80.65	-59.41	-2,518.82	4,647.74	4,580.40	67.34	69.017				
15,800.00	12,380.00	11,985.00	11,879.58	72.82	39.94	80.65	-59.41	-2,518.82	4,719.85	4,652.27	67.58	69.837				
15,900.00	12,380.00	11,985.00	11,879.58	74.13	39.94	80.65	-59.41	-2,518.82	4,792.97	4,725.15	67.82	70.673				
16,000.00	12,380.00	11,985.00	11,879.58	75.46	39.94	80.65	-59.41	-2,518.82	4,867.04	4,799.00	68.05	71.526				
16,100.00	12,380.00	11,985.00	11,879.58	76.79	39.94	80.65	-59.41	-2,518.82	4,942.03	4,873.76	68.26	72.396				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 2745-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	16.00	16.00	0.00	0.00	-74.78	504.50	-1,853.99	1,921.43					
100.00	100.00	100.00	99.98	0.13	0.16	-74.76	505.37	-1,854.82	1,922.62	1,922.43	0.19	N/A		
200.00	200.00	203.11	203.07	0.48	0.50	-74.74	506.52	-1,856.21	1,924.22	1,923.53	0.69	2,773.735		
300.00	300.00	300.00	299.95	0.84	0.84	-74.73	507.05	-1,857.53	1,925.67	1,924.48	1.19	1,617.833		
400.00	400.00	382.93	382.86	1.20	1.14	-74.75	506.83	-1,859.15	1,927.49	1,925.84	1.65	1,166.019		
500.00	500.00	473.05	472.95	1.56	1.46	-74.77	506.81	-1,861.45	1,929.95	1,927.82	2.13	904.022		
600.00	600.00	551.00	550.84	1.92	1.74	-74.80	506.49	-1,864.40	1,933.45	1,930.87	2.59	747.157		
700.00	700.00	646.00	645.76	2.28	2.09	-74.84	506.18	-1,868.36	1,937.40	1,934.32	3.08	628.600		
800.00	800.00	782.45	782.11	2.63	2.58	-74.90	505.61	-1,873.36	1,940.90	1,937.22	3.68	527.525		
900.00	900.00	883.82	883.44	2.99	2.95	-74.94	504.80	-1,876.14	1,943.34	1,939.15	4.19	463.858		
1,000.00	1,000.00	994.61	994.19	3.35	3.34	-75.00	503.46	-1,878.65	1,945.22	1,940.49	4.72	411.876		
1,100.00	1,100.00	1,091.49	1,091.05	3.71	3.69	-75.05	502.04	-1,880.68	1,946.86	1,941.64	5.22	372.892		
1,200.00	1,200.00	1,193.47	1,192.98	4.07	4.06	-75.12	500.39	-1,883.19	1,948.83	1,943.09	5.73	339.943		
1,300.00	1,300.00	1,300.33	1,299.81	4.43	4.44	-75.16	499.47	-1,885.12	1,950.35	1,944.09	6.26	311.701		
1,400.00	1,400.00	1,406.57	1,406.04	4.79	4.65	-75.19	498.96	-1,886.63	1,951.60	1,944.95	6.66	293.144		
1,500.00	1,500.00	1,512.86	1,512.33	5.14	4.71	-75.19	498.96	-1,887.60	1,952.48	1,945.52	6.96	280.590		
1,600.00	1,600.00	1,616.68	1,616.15	5.50	4.76	-75.20	498.83	-1,888.30	1,953.11	1,945.84	7.26	268.874		
1,700.00	1,700.00	1,721.79	1,721.25	5.86	4.85	-75.21	498.73	-1,888.75	1,953.49	1,945.90	7.59	257.241		
1,800.00	1,800.00	1,822.27	1,821.74	6.22	4.96	-75.21	498.74	-1,889.00	1,953.74	1,945.80	7.94	246.051		
1,900.00	1,900.00	1,921.90	1,921.36	6.58	5.09	-75.21	498.86	-1,889.26	1,954.01	1,945.71	8.30	235.356		
2,000.00	2,000.00	2,023.71	2,023.17	6.94	5.24	-75.21	498.92	-1,889.44	1,954.21	1,945.53	8.68	225.131		
2,100.00	2,100.00	2,123.33	2,122.80	7.29	5.41	-75.20	499.28	-1,889.54	1,954.40	1,945.33	9.07	215.552		
2,200.00	2,199.99	2,224.86	2,224.32	7.65	5.59	-149.73	499.81	-1,889.57	1,955.69	1,946.23	9.46	206.738		
2,300.00	2,299.91	2,326.68	2,326.15	7.99	5.79	-149.74	500.41	-1,889.47	1,959.14	1,949.28	9.86	198.743		
2,400.00	2,399.69	2,427.69	2,427.15	8.34	6.00	-149.77	501.27	-1,889.22	1,964.77	1,954.50	10.26	191.426		
2,500.00	2,499.27	2,529.18	2,528.64	8.70	6.23	-149.82	502.21	-1,888.89	1,972.60	1,961.92	10.68	184.715		
2,601.33	2,599.89	2,614.60	2,614.05	9.06	6.43	-149.87	502.77	-1,888.83	1,983.05	1,971.97	11.08	178.911		
2,700.00	2,697.71	2,689.18	2,688.62	9.42	6.61	-150.04	502.25	-1,889.87	1,995.41	1,983.94	11.47	173.969		
2,800.00	2,796.85	2,768.65	2,768.04	9.78	6.81	-150.24	500.98	-1,892.16	2,009.15	1,997.28	11.87	169.270		
2,900.00	2,895.99	2,852.94	2,852.27	10.15	7.04	-150.46	499.36	-1,895.09	2,023.48	2,011.20	12.28	164.756		
3,000.00	2,995.13	2,924.20	2,923.41	10.53	7.23	-150.67	497.36	-1,898.61	2,039.01	2,026.34	12.67	160.883		
3,100.00	3,094.27	3,000.00	2,998.99	10.90	7.44	-150.92	494.49	-1,903.60	2,055.92	2,042.84	13.08	157.235		
3,200.00	3,193.41	3,065.11	3,063.81	11.28	7.63	-151.15	491.41	-1,908.91	2,074.17	2,060.71	13.46	154.122		
3,300.00	3,292.55	3,134.69	3,132.95	11.67	7.84	-151.42	487.49	-1,915.63	2,093.80	2,079.95	13.85	151.190		
3,400.00	3,391.69	3,200.00	3,197.71	12.05	8.04	-151.70	483.22	-1,922.92	2,114.81	2,100.58	14.23	148.625		
3,500.00	3,490.83	3,272.00	3,268.93	12.44	8.27	-152.02	477.85	-1,932.06	2,137.18	2,122.56	14.63	146.128		
3,600.00	3,589.97	3,367.81	3,363.56	12.82	8.59	-152.45	470.25	-1,944.99	2,160.32	2,145.24	15.08	143.229		
3,700.00	3,689.11	3,463.75	3,458.32	13.21	8.92	-152.88	462.64	-1,957.93	2,183.57	2,168.03	15.54	140.470		
3,800.00	3,788.25	3,559.69	3,553.08	13.60	9.25	-153.30	455.03	-1,970.87	2,206.94	2,190.93	16.01	137.844		
3,900.00	3,887.39	3,655.63	3,647.84	13.99	9.59	-153.71	447.42	-1,983.81	2,230.42	2,213.94	16.48	135.344		
4,000.00	3,986.53	3,751.57	3,742.59	14.39	9.94	-154.11	439.80	-1,996.76	2,254.01	2,237.06	16.95	132.963		
4,100.00	4,085.67	3,847.51	3,837.35	14.78	10.29	-154.50	432.19	-2,009.70	2,277.70	2,260.27	17.43	130.697		
4,200.00	4,184.81	3,943.45	3,932.11	15.18	10.65	-154.89	424.58	-2,022.64	2,301.50	2,283.59	17.91	128.538		
4,300.00	4,283.95	4,039.39	4,026.87	15.57	11.01	-155.27	416.97	-2,035.58	2,325.39	2,307.00	18.39	126.480		
4,400.00	4,383.09	4,135.33	4,121.62	15.97	11.37	-155.64	409.36	-2,048.52	2,349.38	2,330.51	18.87	124.518		
4,500.00	4,482.23	4,231.27	4,216.38	16.37	11.74	-156.00	401.75	-2,061.47	2,373.46	2,354.11	19.35	122.647		
4,600.00	4,581.37	4,327.21	4,311.14	16.77	12.12	-156.35	394.13	-2,074.41	2,397.63	2,377.79	19.84	120.861		
4,700.00	4,680.51	4,423.15	4,405.90	17.17	12.49	-156.70	386.52	-2,087.35	2,421.89	2,401.57	20.33	119.155		
4,800.00	4,779.65	4,519.09	4,500.66	17.57	12.87	-157.05	378.91	-2,100.29	2,446.24	2,425.42	20.81	117.525		
4,900.00	4,878.79	4,615.03	4,595.41	17.97	13.25	-157.38	371.30	-2,113.24	2,470.66	2,449.36	21.30	115.967		
5,000.00	4,977.93	4,710.97	4,690.17	18.37	13.64	-157.71	363.69	-2,126.18	2,495.17	2,473.37	21.80	114.476		
5,100.00	5,077.07	4,806.91	4,784.93	18.77	14.02	-158.03	356.08	-2,139.12	2,519.75	2,497.46	22.29	113.048		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 2745-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		
5,200.00	5,176.21	4,902.85	4,879.69	19.17	14.41	-158.35	348.46	-2,152.06	2,544.41	2,521.63	22.78	111.681		
5,300.00	5,275.35	4,998.79	4,974.44	19.57	14.80	-158.66	340.85	-2,165.00	2,569.14	2,545.86	23.28	110.370		
5,400.00	5,374.49	5,094.73	5,069.20	19.98	15.19	-158.96	333.24	-2,177.95	2,593.94	2,570.17	23.77	109.113		
5,500.00	5,473.63	5,190.67	5,163.96	20.38	15.59	-159.26	325.63	-2,190.89	2,618.81	2,594.54	24.27	107.906		
5,600.00	5,572.77	5,286.61	5,258.72	20.78	15.98	-159.56	318.02	-2,203.83	2,643.75	2,618.98	24.77	106.747		
5,700.00	5,671.91	5,382.55	5,353.47	21.19	16.38	-159.84	310.41	-2,216.77	2,668.75	2,643.49	25.26	105.634		
5,800.00	5,771.05	5,478.49	5,448.23	21.59	16.78	-160.13	302.79	-2,229.72	2,693.82	2,668.06	25.76	104.563		
5,900.00	5,870.19	5,574.43	5,542.99	22.00	17.18	-160.41	295.18	-2,242.66	2,718.95	2,692.69	26.26	103.533		
6,000.00	5,969.33	5,670.37	5,637.75	22.40	17.58	-160.68	287.57	-2,255.60	2,744.13	2,717.37	26.76	102.542		
6,100.00	6,068.47	5,766.31	5,732.51	22.81	17.98	-160.95	279.96	-2,268.54	2,769.38	2,742.12	27.26	101.587		
6,200.00	6,167.61	5,862.25	5,827.26	23.22	18.38	-161.21	272.35	-2,281.49	2,794.68	2,766.92	27.76	100.667		
6,300.00	6,266.75	5,958.19	5,922.02	23.62	18.78	-161.47	264.73	-2,294.43	2,820.04	2,791.78	28.26	99.780		
6,400.00	6,365.89	6,054.13	6,016.78	24.03	19.18	-161.72	257.12	-2,307.37	2,845.45	2,816.69	28.76	98.924		
6,500.00	6,465.03	6,150.07	6,111.54	24.44	19.59	-161.97	249.51	-2,320.31	2,870.91	2,841.65	29.27	98.098		
6,600.00	6,564.17	6,246.01	6,206.29	24.84	19.99	-162.22	241.90	-2,333.25	2,896.43	2,866.66	29.77	97.300		
6,700.00	6,663.31	6,341.95	6,301.05	25.25	20.40	-162.46	234.29	-2,346.20	2,921.99	2,891.72	30.27	96.530		
6,800.00	6,762.45	6,437.89	6,395.81	25.66	20.81	-162.69	226.68	-2,359.14	2,947.60	2,916.83	30.77	95.785		
6,856.14	6,818.11	6,491.75	6,449.00	25.89	21.03	-162.83	222.40	-2,366.40	2,962.00	2,930.95	31.06	95.377		
6,900.00	6,861.62	6,533.90	6,490.64	26.06	21.21	-162.98	219.06	-2,372.09	2,973.03	2,941.75	31.28	95.057		
7,000.00	6,961.05	6,630.49	6,586.04	26.46	21.62	-163.30	211.40	-2,385.12	2,996.45	2,964.67	31.78	94.288		
7,100.00	7,060.72	6,727.72	6,682.07	26.84	22.04	-163.59	203.68	-2,398.24	3,017.47	2,985.19	32.28	93.468		
7,200.00	7,160.57	6,825.52	6,778.66	27.20	22.45	-163.85	195.92	-2,411.43	3,036.06	3,003.27	32.79	92.599		
7,300.00	7,260.53	6,923.82	6,875.75	27.55	22.87	-164.08	188.12	-2,424.69	3,052.19	3,018.90	33.29	91.684		
7,357.47	7,318.00	6,980.52	6,931.75	27.74	23.11	-89.67	183.62	-2,432.34	3,060.35	3,026.77	33.58	91.141		
7,400.00	7,360.53	7,022.52	6,973.24	27.88	23.29	-89.73	180.29	-2,438.01	3,066.09	3,032.30	33.79	90.738		
7,500.00	7,460.53	7,121.29	7,070.79	28.21	23.72	-89.88	172.46	-2,451.33	3,079.60	3,045.31	34.29	89.809		
7,600.00	7,560.53	7,220.06	7,168.34	28.54	24.14	-90.03	164.62	-2,464.65	3,093.12	3,058.33	34.79	88.905		
7,700.00	7,660.53	7,317.94	7,265.57	28.87	24.78	-90.24	156.32	-2,478.86	3,105.82	3,070.34	35.48	87.531		
7,800.00	7,760.53	7,416.62	7,363.78	29.20	25.23	-90.53	147.27	-2,493.16	3,117.30	3,081.45	36.86	84.442		
7,900.00	7,860.53	7,514.89	7,461.03	29.53	25.78	-90.54	138.43	-2,507.58	3,127.72	3,091.21	37.51	82.975		
8,000.00	7,960.53	7,612.89	7,558.03	29.87	26.07	-90.54	130.43	-2,521.58	3,137.72	3,101.74	37.98	81.958		
8,100.00	8,060.53	7,710.89	7,656.03	30.20	26.37	-90.54	122.43	-2,535.58	3,147.72	3,111.74	38.45	80.962		
8,200.00	8,160.53	7,808.89	7,753.03	30.53	26.67	-90.54	114.43	-2,549.58	3,157.72	3,121.74	38.91	79.989		
8,300.00	8,260.53	7,906.89	7,849.03	30.87	26.96	-90.54	106.43	-2,563.58	3,167.72	3,131.74	39.38	79.036		
8,400.00	8,360.53	8,004.89	7,949.03	31.20	27.26	-90.54	98.43	-2,577.58	3,177.72	3,141.74	39.85	78.105		
8,500.00	8,460.53	8,102.89	8,047.03	31.54	27.56	-90.54	90.43	-2,591.58	3,187.72	3,151.74	40.32	77.193		
8,600.00	8,560.53	8,200.89	8,144.03	31.88	27.87	-90.54	82.43	-2,605.58	3,197.72	3,161.74	40.80	76.300		
8,700.00	8,660.53	8,298.89	8,240.03	32.21	28.17	-90.54	74.43	-2,619.58	3,207.72	3,171.74	41.27	75.427		
8,800.00	8,760.53	8,396.89	8,336.03	32.55	28.48	-90.54	66.43	-2,633.58	3,217.72	3,181.74	41.74	74.572		
8,900.00	8,860.53	8,494.89	8,434.03	32.89	28.78	-90.54	58.43	-2,647.58	3,227.72	3,191.74	42.22	73.734		
9,000.00	8,960.53	8,592.89	8,532.03	33.23	29.09	-90.54	50.43	-2,661.58	3,237.72	3,201.74	42.69	72.914		
9,100.00	9,060.53	8,690.89	8,628.03	33.56	29.40	-90.54	42.43	-2,675.58	3,247.72	3,211.74	43.17	72.111		
9,200.00	9,160.53	8,788.89	8,724.03	33.90	29.71	-90.54	34.43	-2,689.58	3,257.72	3,221.74	43.64	71.324		
9,300.00	9,260.53	8,886.89	8,822.03	34.24	30.02	-90.54	26.43	-2,703.58	3,267.72	3,231.74	44.12	70.553		
9,400.00	9,360.53	8,984.89	8,918.03	34.58	30.33	-90.54	18.43	-2,717.58	3,277.72	3,241.74	44.60	69.798		
9,500.00	9,460.53	9,082.89	9,016.03	34.92	30.64	-90.54	10.43	-2,731.58	3,287.72	3,251.74	45.07	69.057		
9,600.00	9,560.53	9,180.89	9,114.03	35.26	30.95	-90.54	2.43	-2,745.58	3,297.72	3,261.74	45.55	68.331		
9,700.00	9,660.53	9,278.89	9,212.03	35.60	31.27	-90.54	-6.43	-2,759.58	3,307.72	3,271.74	46.03	67.620		
9,800.00	9,760.53	9,376.89	9,309.03	35.94	31.58	-90.54	-14.43	-2,773.58	3,317.72	3,281.74	46.51	66.922		
9,900.00	9,860.53	9,474.89	9,407.03	36.29	31.90	-90.54	-22.43	-2,787.58	3,327.72	3,291.74	46.99	66.237		
10,000.00	9,960.53	9,572.89	9,504.03	36.63	32.22	-90.54	-30.43	-2,801.58	3,337.72	3,301.74	47.47	65.566		
10,100.00	10,060.53	9,670.89	9,602.03	36.97	32.54	-90.54	-38.43	-2,815.58	3,347.72	3,311.74	47.96	64.907		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 2745-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		
10,200.00	10,160.53	10,241.89	10,187.03	37.31	33.85	-90.54	136.43	-2,512.58	3,112.72	3,064.28	48.44	64.261		
10,300.00	10,260.53	10,341.89	10,287.03	37.65	34.17	-90.54	136.43	-2,512.58	3,112.72	3,063.80	48.92	63.627		
10,400.00	10,360.53	10,441.89	10,387.03	38.00	34.49	-90.54	136.43	-2,512.58	3,112.72	3,063.32	49.40	63.005		
10,500.00	10,460.53	10,541.89	10,487.03	38.34	34.82	-90.54	136.43	-2,512.58	3,112.72	3,062.83	49.89	62.394		
10,600.00	10,560.53	10,641.89	10,587.03	38.68	35.14	-90.54	136.43	-2,512.58	3,112.72	3,062.35	50.37	61.795		
10,700.00	10,660.53	10,741.89	10,687.03	39.03	35.46	-90.54	136.43	-2,512.58	3,112.72	3,061.87	50.86	61.206		
10,800.00	10,760.53	10,841.89	10,787.03	39.37	35.78	-90.54	136.43	-2,512.58	3,112.72	3,061.38	51.34	60.628		
10,900.00	10,860.53	10,941.89	10,887.03	39.72	36.11	-90.54	136.43	-2,512.58	3,112.72	3,060.90	51.83	60.060		
11,000.00	10,960.53	11,041.89	10,987.03	40.06	36.43	-90.54	136.43	-2,512.58	3,112.72	3,060.41	52.31	59.502		
11,100.00	11,060.53	11,141.89	11,087.03	40.41	36.76	-90.54	136.43	-2,512.58	3,112.72	3,059.92	52.80	58.954		
11,200.00	11,160.53	11,241.89	11,187.03	40.75	37.08	-90.54	136.43	-2,512.58	3,112.72	3,059.44	53.29	58.416		
11,300.00	11,260.53	11,341.89	11,287.03	41.10	37.41	-90.54	136.43	-2,512.58	3,112.72	3,058.95	53.77	57.887		
11,400.00	11,360.53	11,441.89	11,387.03	41.44	37.74	-90.54	136.43	-2,512.58	3,112.72	3,058.46	54.26	57.367		
11,413.80	11,374.33	11,455.68	11,400.83	41.49	37.78	-90.54	136.43	-2,512.58	3,112.72	3,058.40	54.33	57.296		
11,500.00	11,460.53	11,541.86	11,487.00	41.79	38.06	-90.55	136.38	-2,512.58	3,112.72	3,057.98	54.75	56.856		
11,600.00	11,560.53	11,640.24	11,584.77	42.13	38.40	-90.73	126.59	-2,512.50	3,112.75	3,057.51	55.24	56.351		
11,700.00	11,660.53	11,732.71	11,673.88	42.48	38.74	-91.17	102.27	-2,512.28	3,112.96	3,057.24	55.73	55.861		
11,800.00	11,760.53	11,815.58	11,749.50	42.83	39.06	-91.79	68.56	-2,511.99	3,113.74	3,057.54	56.20	55.408		
11,846.51	11,807.04	11,850.00	11,779.34	42.99	39.20	-92.11	51.41	-2,511.83	3,114.42	3,058.01	56.40	55.216		
11,850.00	11,810.53	11,850.00	11,779.34	43.00	39.20	94.78	51.41	-2,511.83	3,114.48	3,058.07	56.41	55.209		
11,900.00	11,860.45	11,888.51	11,811.43	43.16	39.35	94.30	30.14	-2,511.65	3,115.72	3,059.09	56.63	55.018		
11,950.00	11,909.97	11,923.38	11,839.20	43.31	39.49	93.79	9.05	-2,511.46	3,117.60	3,060.76	56.84	54.851		
12,000.00	11,958.70	11,957.61	11,865.16	43.46	39.64	93.25	-13.25	-2,511.27	3,120.09	3,063.05	57.04	54.700		
12,050.00	12,006.28	11,991.28	11,889.35	43.61	39.78	92.68	-36.66	-2,511.06	3,123.13	3,065.89	57.24	54.564		
12,100.00	12,052.34	12,024.46	11,911.81	43.75	39.92	92.07	-61.08	-2,510.85	3,126.70	3,069.26	57.43	54.441		
12,150.00	12,096.54	12,050.00	11,928.11	43.87	40.03	91.48	-80.74	-2,510.67	3,130.74	3,073.14	57.60	54.353		
12,200.00	12,138.53	12,089.60	11,951.61	43.99	40.21	90.77	-112.60	-2,510.39	3,135.18	3,077.37	57.81	54.228		
12,250.00	12,178.00	12,121.67	11,968.99	44.10	40.36	90.09	-139.54	-2,510.16	3,140.01	3,082.00	58.00	54.135		
12,300.00	12,214.64	12,150.00	11,983.07	44.21	40.49	89.42	-164.13	-2,509.94	3,145.14	3,086.96	58.18	54.059		
12,350.00	12,248.19	12,185.01	11,998.76	44.30	40.66	88.71	-195.41	-2,509.66	3,150.54	3,092.16	58.38	53.964		
12,400.00	12,278.37	12,216.35	12,011.17	44.39	40.82	88.01	-224.19	-2,509.41	3,156.14	3,097.57	58.57	53.883		
12,450.00	12,304.97	12,250.00	12,022.71	44.48	40.99	87.31	-255.79	-2,509.13	3,161.90	3,103.12	58.78	53.793		
12,500.00	12,327.78	12,278.55	12,031.04	44.58	41.14	86.63	-283.09	-2,508.89	3,167.74	3,108.77	58.97	53.718		
12,550.00	12,346.63	12,309.46	12,038.51	44.68	41.31	85.97	-313.08	-2,508.63	3,173.64	3,114.46	59.18	53.631		
12,600.00	12,361.37	12,340.28	12,044.33	44.79	41.48	85.32	-343.34	-2,508.36	3,179.53	3,120.14	59.39	53.540		
12,650.00	12,371.89	12,371.03	12,048.52	44.91	41.65	84.70	-373.80	-2,508.10	3,185.36	3,125.76	59.60	53.444		
12,700.00	12,378.11	12,400.00	12,050.96	45.04	41.81	84.11	-402.67	-2,507.84	3,191.08	3,131.27	59.82	53.348		
12,746.51	12,380.00	12,432.75	12,051.99	45.17	42.00	83.59	-435.40	-2,507.55	3,196.27	3,136.23	60.04	53.234		
12,800.00	12,380.00	12,485.96	12,052.69	45.34	42.32	83.63	-488.59	-2,507.09	3,201.63	3,141.25	60.37	53.029		
12,900.00	12,380.00	12,585.66	12,054.00	45.69	42.96	83.68	-588.28	-2,506.21	3,208.98	3,147.92	61.06	52.554		
13,000.00	12,380.00	12,685.56	12,055.31	46.08	43.65	83.72	-688.17	-2,505.33	3,212.87	3,151.05	61.82	51.968		
13,063.21	12,380.00	12,748.76	12,056.14	46.35	44.12	83.74	-751.36	-2,504.78	3,213.54	3,151.19	62.35	51.542		
13,100.00	12,380.00	12,785.55	12,056.63	46.52	44.40	83.75	-788.15	-2,504.45	3,213.53	3,150.87	62.66	51.283		
13,200.00	12,380.00	12,885.54	12,057.94	47.00	45.19	83.77	-888.13	-2,503.57	3,213.49	3,149.92	63.57	50.547		
13,300.00	12,380.00	12,985.53	12,059.25	47.54	46.03	83.80	-988.10	-2,502.69	3,213.46	3,148.90	64.56	49.776		
13,400.00	12,380.00	13,085.52	12,060.57	48.13	46.91	83.82	-1,088.08	-2,501.81	3,213.43	3,147.82	65.61	48.978		
13,500.00	12,380.00	13,185.51	12,061.88	48.77	47.83	83.84	-1,188.06	-2,500.94	3,213.39	3,146.67	66.73	48.159		
13,600.00	12,380.00	13,285.50	12,063.19	49.45	48.79	83.87	-1,288.04	-2,500.06	3,213.36	3,145.46	67.90	47.323		
13,700.00	12,380.00	13,385.49	12,064.50	50.18	49.79	83.89	-1,388.02	-2,499.18	3,213.33	3,144.19	69.14	46.477		
13,800.00	12,380.00	13,485.49	12,065.82	50.95	50.82	83.91	-1,488.00	-2,498.30	3,213.30	3,142.87	70.43	45.625		
13,900.00	12,380.00	13,585.48	12,067.13	51.77	51.88	83.94	-1,587.98	-2,497.42	3,213.26	3,141.49	71.77	44.770		
14,000.00	12,380.00	13,685.47	12,068.44	52.62	52.97	83.96	-1,687.96	-2,496.54	3,213.23	3,140.07	73.16	43.918		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft			
Bus Driver/Kaston Fed Com - Bus Driver Fed Com 702H - OH - Plan #5													Offset Well Error:	0.00 usft			
Survey Program: 16-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 2745-OWSG (Rev2) MWD																	
Reference		Offset		Semi Major Axis		Distance											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
14,100.00	12,380.00	13,785.46	12,069.76	53.51	54.09	83.98	-1,787.94	-2,495.66	3,213.20	3,138.60	74.60	43.070					
14,200.00	12,380.00	13,885.45	12,071.07	54.44	55.24	84.01	-1,887.91	-2,494.78	3,213.18	3,137.09	76.09	42.230					
14,300.00	12,380.00	13,985.44	12,072.38	55.40	56.41	84.03	-1,987.89	-2,493.90	3,213.15	3,135.53	77.61	41.400					
14,400.00	12,380.00	14,085.43	12,073.70	56.39	57.61	84.05	-2,087.87	-2,493.02	3,213.12	3,133.94	79.18	40.582					
14,500.00	12,380.00	14,185.43	12,075.01	57.41	58.82	84.08	-2,187.85	-2,492.14	3,213.09	3,132.31	80.78	39.777					
14,600.00	12,380.00	14,285.42	12,076.32	58.46	60.06	84.10	-2,287.83	-2,491.26	3,213.06	3,130.65	82.41	38.988					
14,700.00	12,380.00	14,385.41	12,077.64	59.54	61.32	84.13	-2,387.81	-2,490.39	3,213.04	3,128.96	84.08	38.214					
14,800.00	12,380.00	14,485.40	12,078.95	60.64	62.60	84.15	-2,487.79	-2,489.51	3,213.01	3,127.23	85.78	37.456					
14,900.00	12,380.00	14,585.39	12,080.26	61.77	63.89	84.17	-2,587.77	-2,488.63	3,212.98	3,125.48	87.51	36.717					
15,000.00	12,380.00	14,685.38	12,081.57	62.92	65.20	84.20	-2,687.74	-2,487.75	3,212.96	3,123.70	89.26	35.994					
15,100.00	12,380.00	14,785.37	12,082.89	64.09	66.52	84.22	-2,787.72	-2,486.87	3,212.94	3,121.89	91.04	35.290					
15,200.00	12,380.00	14,885.36	12,084.20	65.28	67.86	84.24	-2,887.70	-2,485.99	3,212.91	3,120.06	92.85	34.604					
15,300.00	12,380.00	14,985.36	12,085.51	66.50	69.22	84.27	-2,987.68	-2,485.11	3,212.89	3,118.21	94.68	33.935					
15,400.00	12,380.00	15,085.35	12,086.83	67.73	70.58	84.29	-3,087.66	-2,484.23	3,212.86	3,116.34	96.53	33.284					
15,500.00	12,380.00	15,185.34	12,088.14	68.98	71.96	84.31	-3,187.64	-2,483.35	3,212.84	3,114.44	98.40	32.651					
15,600.00	12,380.00	15,285.33	12,089.45	70.24	73.35	84.34	-3,287.62	-2,482.47	3,212.82	3,112.53	100.29	32.036					
15,700.00	12,380.00	15,385.32	12,090.77	71.52	74.75	84.36	-3,387.60	-2,481.59	3,212.80	3,110.60	102.20	31.438					
15,800.00	12,380.00	15,485.31	12,092.08	72.82	76.15	84.38	-3,487.58	-2,480.71	3,212.78	3,108.66	104.12	30.856					
15,900.00	12,380.00	15,585.30	12,093.39	74.13	77.57	84.41	-3,587.55	-2,479.84	3,212.76	3,106.70	106.06	30.291					
16,000.00	12,380.00	15,685.30	12,094.71	75.46	79.00	84.43	-3,687.53	-2,478.96	3,212.74	3,104.72	108.02	29.742					
16,100.00	12,380.00	15,785.29	12,096.02	76.79	80.44	84.45	-3,787.51	-2,478.08	3,212.72	3,102.73	109.99	29.209					
16,200.00	12,380.00	15,885.28	12,097.33	78.14	81.88	84.48	-3,887.49	-2,477.20	3,212.70	3,100.73	111.98	28.691					
16,300.00	12,380.00	15,985.27	12,098.64	79.50	83.33	84.50	-3,987.47	-2,476.32	3,212.68	3,098.71	113.97	28.188					
16,400.00	12,380.00	16,085.26	12,099.96	80.87	84.79	84.52	-4,087.45	-2,475.44	3,212.67	3,096.68	115.99	27.699					
16,500.00	12,380.00	16,185.25	12,101.27	82.25	86.26	84.55	-4,187.43	-2,474.56	3,212.65	3,094.64	118.01	27.224					
16,600.00	12,380.00	16,285.24	12,102.58	83.64	87.73	84.57	-4,287.41	-2,473.68	3,212.63	3,092.59	120.04	26.763					
16,700.00	12,380.00	16,385.23	12,103.90	85.04	89.21	84.60	-4,387.38	-2,472.80	3,212.62	3,090.53	122.09	26.314					
16,800.00	12,380.00	16,485.23	12,105.21	86.45	90.70	84.62	-4,487.36	-2,471.92	3,212.60	3,088.46	124.14	25.879					
16,900.00	12,380.00	16,585.22	12,106.52	87.87	92.19	84.64	-4,587.34	-2,471.04	3,212.59	3,086.38	126.21	25.455					
17,000.00	12,380.00	16,685.21	12,107.84	89.30	93.68	84.67	-4,687.32	-2,470.16	3,212.57	3,084.29	128.28	25.044					
17,100.00	12,380.00	16,785.20	12,109.15	90.73	95.19	84.69	-4,787.30	-2,469.29	3,212.56	3,082.20	130.36	24.643					
17,200.00	12,380.00	16,885.19	12,110.46	92.17	96.69	84.71	-4,887.28	-2,468.41	3,212.55	3,080.09	132.45	24.254					
17,300.00	12,380.00	16,985.18	12,111.78	93.62	98.20	84.74	-4,987.26	-2,467.53	3,212.53	3,077.98	134.55	23.876					
17,400.00	12,380.00	17,085.17	12,113.09	95.07	99.72	84.76	-5,087.24	-2,466.65	3,212.52	3,075.86	136.66	23.508					
17,500.00	12,380.00	17,185.16	12,114.40	96.53	101.24	84.78	-5,187.22	-2,465.77	3,212.51	3,073.74	138.77	23.150					
17,600.00	12,380.00	17,285.16	12,115.71	98.00	102.76	84.81	-5,287.19	-2,464.89	3,212.50	3,071.61	140.89	22.801					
17,700.00	12,380.00	17,385.15	12,117.03	99.47	104.29	84.83	-5,387.17	-2,464.01	3,212.49	3,069.47	143.02	22.462					
17,800.00	12,380.00	17,485.14	12,118.34	100.95	105.82	84.85	-5,487.15	-2,463.13	3,212.48	3,067.32	145.15	22.132					
17,900.00	12,380.00	17,585.13	12,119.65	102.43	107.36	84.88	-5,587.13	-2,462.25	3,212.47	3,065.18	147.29	21.810					
18,000.00	12,380.00	17,685.12	12,120.97	103.92	108.89	84.90	-5,687.11	-2,461.37	3,212.46	3,063.02	149.44	21.497					
18,100.00	12,380.00	17,785.11	12,122.28	105.41	110.44	84.92	-5,787.09	-2,460.49	3,212.45	3,060.86	151.59	21.192					
18,200.00	12,380.00	17,885.10	12,123.59	106.91	111.98	84.95	-5,887.07	-2,459.61	3,212.44	3,058.70	153.75	20.894					
18,300.00	12,380.00	17,985.10	12,124.91	108.41	113.53	84.97	-5,987.05	-2,458.74	3,212.44	3,056.53	155.91	20.605					
18,400.00	12,380.00	18,085.09	12,126.22	109.92	115.08	84.99	-6,087.02	-2,457.86	3,212.43	3,054.35	158.07	20.322					
18,500.00	12,380.00	18,185.08	12,127.53	111.43	116.63	85.02	-6,187.00	-2,456.98	3,212.42	3,052.18	160.25	20.047					
18,600.00	12,380.00	18,285.07	12,128.85	112.94	118.19	85.04	-6,286.98	-2,456.10	3,212.42	3,050.00	162.42	19.778					
18,700.00	12,380.00	18,385.06	12,130.16	114.46	119.75	85.07	-6,386.96	-2,455.22	3,212.41	3,047.81	164.60	19.516					
18,800.00	12,380.00	18,485.05	12,131.47	115.98	121.31	85.09	-6,486.94	-2,454.34	3,212.41	3,045.62	166.79	19.260					
18,900.00	12,380.00	18,585.04	12,132.78	117.51	122.87	85.11	-6,586.92	-2,453.46	3,212.40	3,043.43	168.98	19.011					
19,000.00	12,380.00	18,685.03	12,134.10	119.04	124.44	85.14	-6,686.90	-2,452.58	3,212.40	3,041.23	171.17	18.767					
19,100.00	12,380.00	18,785.03	12,135.41	120.57	126.00	85.16	-6,786.88	-2,451.70	3,212.40	3,039.03	173.37	18.530					
19,200.00	12,380.00	18,885.02	12,136.72	122.11	127.57	85.18	-6,886.86	-2,450.82	3,212.40	3,036.83	175.57	18.297					

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kaston Fed Com - Bus Driver Fed Com 702H - OH - Plan #5		Offset Site Error:	0.00 usft
Survey Program:													16-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 2745-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	12,380.00	18,985.01	12,138.04	123.64	129.14	85.21	-6,986.83	-2,449.94	3,212.39	3,034.63	177.77	18.071				
19,400.00	12,380.00	19,085.00	12,139.35	125.18	130.72	85.23	-7,086.81	-2,449.06	3,212.39	3,032.42	179.98	17.849				
19,500.00	12,380.00	19,184.99	12,140.66	126.73	132.29	85.25	-7,186.79	-2,448.19	3,212.39	3,030.21	182.19	17.633				
19,583.78	12,380.00	19,268.76	12,141.76	128.02	133.62	85.27	-7,270.55	-2,447.45	3,212.39	3,028.35	184.04	17.455				
19,600.00	12,380.00	19,284.98	12,141.98	128.27	133.87	85.28	-7,286.77	-2,447.31	3,212.39	3,027.99	184.40	17.421				
19,700.00	12,380.00	19,384.97	12,143.29	129.82	135.45	85.30	-7,386.75	-2,446.43	3,212.39	3,025.78	186.62	17.214				
19,800.00	12,380.00	19,484.97	12,144.60	131.38	137.03	85.32	-7,486.73	-2,445.55	3,212.39	3,023.56	188.83	17.012				
19,900.00	12,380.00	19,584.96	12,145.92	132.93	138.61	85.35	-7,586.71	-2,444.67	3,212.39	3,021.34	191.06	16.814				
20,000.00	12,380.00	19,684.95	12,147.23	134.49	140.20	85.37	-7,686.69	-2,443.79	3,212.40	3,019.12	193.28	16.620				
20,100.00	12,380.00	19,784.94	12,148.54	136.04	141.78	85.39	-7,786.67	-2,442.91	3,212.40	3,016.89	195.51	16.431				
20,200.00	12,380.00	19,884.93	12,149.85	137.61	143.37	85.42	-7,886.64	-2,442.03	3,212.40	3,014.66	197.74	16.246				
20,300.00	12,380.00	19,984.92	12,151.17	139.17	144.96	85.44	-7,986.62	-2,441.15	3,212.41	3,012.43	199.97	16.064				
20,400.00	12,380.00	20,084.91	12,152.48	140.73	146.55	85.46	-8,086.60	-2,440.27	3,212.41	3,010.20	202.21	15.887				
20,500.00	12,380.00	20,184.90	12,153.79	142.30	148.14	85.49	-8,186.58	-2,439.39	3,212.41	3,007.97	204.44	15.713				
20,600.00	12,380.00	20,284.90	12,155.11	143.87	149.74	85.51	-8,286.56	-2,438.51	3,212.42	3,005.74	206.68	15.543				
20,700.00	12,380.00	20,384.89	12,156.42	145.44	151.33	85.54	-8,386.54	-2,437.63	3,212.43	3,003.50	208.92	15.376				
20,800.00	12,380.00	20,484.88	12,157.73	147.01	152.92	85.56	-8,486.52	-2,436.76	3,212.43	3,001.26	211.17	15.213				
20,900.00	12,380.00	20,584.87	12,159.05	148.59	154.52	85.58	-8,586.50	-2,435.88	3,212.44	2,999.03	213.41	15.053				
21,000.00	12,380.00	20,684.86	12,160.36	150.16	156.12	85.61	-8,686.47	-2,435.00	3,212.45	2,996.79	215.66	14.896				
21,100.00	12,380.00	20,784.85	12,161.67	151.74	157.72	85.63	-8,786.45	-2,434.12	3,212.45	2,994.54	217.91	14.742				
21,200.00	12,380.00	20,884.84	12,162.99	153.32	159.32	85.65	-8,886.43	-2,433.24	3,212.46	2,992.30	220.16	14.591				
21,300.00	12,380.00	20,984.84	12,164.30	154.90	160.92	85.68	-8,986.41	-2,432.36	3,212.47	2,990.06	222.42	14.444				
21,400.00	12,380.00	21,084.83	12,165.61	156.48	162.52	85.70	-9,086.39	-2,431.48	3,212.48	2,987.81	224.67	14.299				
21,500.00	12,380.00	21,184.82	12,166.92	158.06	164.12	85.72	-9,186.37	-2,430.60	3,212.49	2,985.56	226.93	14.157				
21,600.00	12,380.00	21,284.81	12,168.24	159.65	165.73	85.75	-9,286.35	-2,429.72	3,212.50	2,983.32	229.19	14.017				
21,700.00	12,380.00	21,384.80	12,169.55	161.23	167.33	85.77	-9,386.33	-2,428.84	3,212.51	2,981.07	231.45	13.880				
21,800.00	12,380.00	21,484.79	12,170.86	162.82	168.94	85.79	-9,486.31	-2,427.96	3,212.52	2,978.82	233.71	13.746				
21,900.00	12,380.00	21,584.78	12,172.18	164.41	170.54	85.82	-9,586.28	-2,427.08	3,212.54	2,976.57	235.97	13.614				
22,000.00	12,380.00	21,684.77	12,173.49	166.00	172.15	85.84	-9,686.26	-2,426.21	3,212.55	2,974.32	238.23	13.485				
22,100.00	12,380.00	21,784.77	12,174.80	167.59	173.76	85.86	-9,786.24	-2,425.33	3,212.56	2,972.06	240.50	13.358				
22,200.00	12,380.00	21,884.76	12,176.12	169.18	175.37	85.89	-9,886.22	-2,424.45	3,212.58	2,969.81	242.77	13.233				
22,300.00	12,380.00	21,984.75	12,177.43	170.77	176.98	85.91	-9,986.20	-2,423.57	3,212.59	2,967.55	245.04	13.111				
22,400.00	12,380.00	22,084.74	12,178.74	172.37	178.59	85.93	-10,086.18	-2,422.69	3,212.61	2,965.30	247.31	12.990				
22,500.00	12,380.00	22,184.73	12,180.06	173.96	180.20	85.96	-10,186.16	-2,421.81	3,212.62	2,963.04	249.58	12.872				
22,547.76	12,380.00	22,232.48	12,180.68	174.73	180.97	85.97	-10,233.90	-2,421.39	3,212.63	2,961.97	250.66	12.817				
22,548.65	12,380.00	22,233.38	12,180.69	174.75	180.98	85.97	-10,234.80	-2,421.38	3,212.63	2,961.95	250.68	12.816 SF				

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



Total Directional Services

Anticollision Report



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Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 117-OWSG (Rev2) MWD, 1363-OWSG (Rev2) MWD, 23350-BLIND													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	23.51	23.51	0.00	0.03	-73.88	505.56	-1,749.13	1,820.73					
100.00	100.00	116.51	116.49	0.13	0.17	-73.83	507.31	-1,749.10	1,821.21	1,821.01	0.20	9,067.199		
200.00	200.00	209.48	209.40	0.48	0.50	-73.73	510.47	-1,749.03	1,822.08	1,821.39	0.69	2,637.342		
300.00	300.00	297.24	297.10	0.84	0.81	-73.62	513.99	-1,749.07	1,823.26	1,822.09	1.17	1,558.975		
400.00	400.00	394.55	394.30	1.20	1.17	-73.49	518.64	-1,749.45	1,824.99	1,823.32	1.67	1,090.707		
500.00	500.00	487.45	487.05	1.56	1.51	-73.34	523.77	-1,749.81	1,826.94	1,824.77	2.17	843.013		
600.00	600.00	569.76	569.19	1.92	1.81	-73.19	529.03	-1,750.69	1,829.77	1,827.14	2.64	694.347		
700.00	700.00	744.83	744.13	2.28	2.44	-73.02	534.74	-1,751.28	1,831.19	1,827.85	3.33	549.318		
800.00	800.00	856.81	856.09	2.63	2.83	-72.99	535.39	-1,749.68	1,830.00	1,826.14	3.86	473.990		
900.00	900.00	956.54	955.80	2.99	3.17	-72.96	535.79	-1,747.92	1,828.43	1,824.07	4.36	419.620		
1,000.00	1,000.00	1,067.35	1,066.60	3.35	3.55	-72.94	535.69	-1,745.71	1,826.49	1,821.61	4.88	374.223		
1,100.00	1,100.00	1,174.25	1,173.46	3.71	3.92	-72.92	535.71	-1,743.03	1,824.11	1,818.71	5.40	337.984		
1,200.00	1,200.00	1,274.22	1,273.38	4.07	4.27	-72.87	536.27	-1,739.92	1,821.29	1,815.39	5.90	308.732		
1,300.00	1,300.00	1,353.07	1,352.21	4.43	4.55	-72.84	536.76	-1,738.10	1,819.28	1,812.93	6.35	286.503		
1,400.00	1,400.00	1,440.00	1,439.13	4.79	4.68	-72.82	537.05	-1,737.23	1,818.39	1,811.70	6.69	271.763		
1,500.00	1,500.00	1,540.90	1,540.03	5.14	4.71	-72.81	537.24	-1,736.41	1,817.67	1,810.70	6.97	260.711		
1,600.00	1,600.00	1,640.61	1,639.74	5.50	4.76	-72.79	537.42	-1,735.57	1,816.92	1,809.64	7.28	249.687		
1,700.00	1,700.00	1,738.84	1,737.96	5.86	4.84	-72.79	537.23	-1,734.92	1,816.23	1,808.63	7.60	238.929		
1,800.00	1,800.00	1,835.68	1,834.80	6.22	4.94	-72.80	536.95	-1,734.45	1,815.68	1,807.74	7.94	228.574		
1,900.00	1,900.00	1,929.91	1,929.03	6.58	5.06	-72.80	536.79	-1,734.19	1,815.37	1,807.07	8.30	218.753		
2,000.00	2,000.00	2,028.35	2,027.47	6.94	5.20	-72.80	536.84	-1,734.11	1,815.30	1,806.63	8.67	209.370		
2,100.00	2,100.00	2,153.32	2,152.43	7.29	5.41	-72.80	536.64	-1,733.39	1,814.74	1,805.66	9.08	199.814		
2,200.00	2,199.99	2,326.00	2,325.00	7.65	5.75	-147.38	535.30	-1,727.76	1,812.56	1,803.01	9.56	189.688		
2,300.00	2,299.91	2,558.15	2,555.95	7.99	6.29	-147.70	525.03	-1,707.28	1,805.25	1,795.15	10.10	178.822		
2,400.00	2,399.69	2,661.79	2,658.70	8.34	6.56	-147.96	518.60	-1,695.31	1,797.90	1,787.38	10.52	170.902		
2,500.00	2,499.27	2,785.69	2,781.45	8.70	6.91	-148.29	511.14	-1,680.24	1,792.31	1,781.33	10.98	163.288		
2,601.33	2,599.89	2,940.27	2,934.06	9.06	7.38	-148.77	500.62	-1,658.04	1,786.53	1,775.05	11.48	155.668		
2,700.00	2,697.71	3,053.18	3,045.05	9.42	7.76	-149.16	490.81	-1,639.80	1,779.76	1,767.82	11.94	149.107		
2,800.00	2,796.85	3,143.82	3,134.15	9.78	8.07	-149.49	482.47	-1,625.38	1,773.12	1,760.73	12.39	143.150		
2,900.00	2,895.99	3,228.96	3,217.95	10.15	8.37	-149.79	475.26	-1,612.22	1,767.18	1,754.34	12.84	137.675		
3,000.00	2,995.13	3,324.94	3,312.57	10.53	8.71	-150.10	467.88	-1,597.89	1,762.02	1,748.72	13.30	132.464		
3,100.00	3,094.27	3,498.03	3,482.49	10.90	9.37	-150.75	451.73	-1,569.25	1,755.05	1,741.19	13.86	126.642		
3,200.00	3,193.41	3,610.14	3,591.84	11.28	9.83	-151.21	439.35	-1,547.89	1,745.12	1,730.76	14.36	121.562		
3,300.00	3,292.55	3,697.99	3,677.59	11.67	10.19	-151.56	430.20	-1,531.09	1,735.40	1,720.56	14.83	116.995		
3,400.00	3,391.69	3,777.82	3,755.68	12.05	10.52	-151.86	422.64	-1,516.36	1,726.65	1,711.34	15.30	112.824		
3,500.00	3,490.83	3,861.97	3,838.23	12.44	10.87	-152.16	415.34	-1,501.75	1,719.19	1,703.40	15.78	108.941		
3,600.00	3,589.97	3,978.29	3,952.23	12.82	11.36	-152.61	404.31	-1,481.46	1,711.56	1,695.26	16.30	105.006		
3,700.00	3,689.11	4,081.32	4,052.96	13.21	11.81	-153.07	393.00	-1,462.99	1,703.21	1,686.40	16.81	101.336		
3,800.00	3,788.25	4,183.24	4,152.62	13.60	12.25	-153.52	381.82	-1,444.80	1,695.03	1,677.72	17.32	97.878		
3,900.00	3,887.39	4,286.58	4,253.63	13.99	12.71	-153.96	371.06	-1,425.83	1,686.57	1,668.74	17.83	94.580		
4,000.00	3,986.53	4,391.39	4,356.12	14.39	13.18	-154.36	361.53	-1,406.06	1,677.96	1,659.61	18.35	91.446		
4,100.00	4,085.67	4,489.99	4,452.59	14.78	13.62	-154.65	355.06	-1,386.77	1,669.21	1,650.35	18.86	88.517		
4,200.00	4,184.81	4,564.42	4,525.54	15.18	13.95	-154.84	351.28	-1,372.53	1,661.22	1,641.88	19.34	85.908		
4,300.00	4,283.95	4,631.34	4,591.33	15.57	14.24	-155.03	347.27	-1,360.98	1,654.99	1,635.19	19.81	83.564		
4,400.00	4,383.09	4,688.00	4,647.19	15.97	14.48	-155.24	342.91	-1,352.54	1,650.96	1,630.71	20.25	81.520		
4,500.00	4,482.23	4,768.57	4,726.80	16.37	14.81	-155.57	336.12	-1,342.15	1,648.77	1,628.04	20.73	79.521		
4,600.00	4,581.37	4,869.77	4,826.95	16.77	15.22	-155.97	328.18	-1,330.00	1,647.59	1,626.34	21.25	77.531		
4,700.00	4,680.51	4,987.85	4,943.75	17.17	15.70	-156.37	320.41	-1,314.51	1,645.55	1,623.75	21.80	75.497		
4,800.00	4,779.65	5,076.88	5,031.85	17.57	16.07	-156.64	315.64	-1,302.60	1,643.51	1,621.22	22.29	73.727		
4,900.00	4,878.79	5,285.09	5,236.93	17.97	16.97	-157.45	298.86	-1,271.39	1,640.63	1,617.65	22.97	71.419		
5,000.00	4,977.93	5,407.90	5,356.48	18.37	17.56	-158.04	284.94	-1,246.96	1,631.29	1,607.76	23.53	69.319		
5,100.00	5,077.07	5,507.85	5,453.72	18.77	18.05	-158.52	273.95	-1,226.60	1,621.72	1,597.65	24.07	67.376		

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



Total Directional Services

Anticollision Report



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Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 117-OWSG (Rev2) MWD, 1363-OWSG (Rev2) MWD, 23350-BLIND													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		
5,200.00	5,176.21	5,605.88	5,549.13	19.17	18.52	-158.97	263.78	-1,206.53	1,612.23	1,587.62	24.60	65.525		
5,300.00	5,275.35	5,707.11	5,647.70	19.57	19.02	-159.42	253.91	-1,185.71	1,602.82	1,577.68	25.14	63.746		
5,400.00	5,374.49	5,795.99	5,734.31	19.98	19.45	-159.80	245.81	-1,167.49	1,593.65	1,567.98	25.67	62.084		
5,500.00	5,473.63	5,875.99	5,812.46	20.38	19.83	-160.12	239.16	-1,151.74	1,585.48	1,559.29	26.18	60.554		
5,600.00	5,572.77	5,971.03	5,905.51	20.78	20.28	-160.50	231.48	-1,133.99	1,578.39	1,551.68	26.71	59.087		
5,700.00	5,671.91	6,075.39	6,007.67	21.19	20.77	-160.90	223.62	-1,114.11	1,571.06	1,543.80	27.25	57.644		
5,800.00	5,771.05	6,178.75	6,108.80	21.59	21.26	-161.29	216.11	-1,094.15	1,563.55	1,535.76	27.80	56.252		
5,900.00	5,870.19	6,251.45	6,179.99	22.00	21.60	-161.57	210.77	-1,080.47	1,556.67	1,528.38	28.30	55.009		
6,000.00	5,969.33	6,329.74	6,256.94	22.40	21.96	-161.89	204.72	-1,067.28	1,551.72	1,522.91	28.80	53.870		
6,100.00	6,068.47	6,429.05	6,354.62	22.81	22.41	-162.29	197.06	-1,051.13	1,547.47	1,518.12	29.34	52.736		
6,200.00	6,167.61	6,535.90	6,459.63	23.22	22.90	-162.74	188.60	-1,033.29	1,542.85	1,512.96	29.90	51.608		
6,300.00	6,266.75	6,640.24	6,562.12	23.62	23.38	-163.17	180.48	-1,015.49	1,537.96	1,507.52	30.45	50.516		
6,400.00	6,365.89	6,710.68	6,631.35	24.03	23.69	-163.47	174.92	-1,003.76	1,533.66	1,502.72	30.94	49.569		
6,500.00	6,465.03	6,773.44	6,693.26	24.44	23.97	-163.74	169.70	-994.94	1,531.90	1,500.49	31.41	48.771		
6,538.57	6,503.27	6,802.85	6,722.34	24.59	24.09	-163.87	167.35	-991.20	1,531.78	1,500.18	31.60	48.477		
6,600.00	6,564.17	6,854.00	6,772.99	24.84	24.31	-164.07	163.65	-985.09	1,532.09	1,500.18	31.91	48.019		
6,700.00	6,663.31	6,908.76	6,827.34	25.25	24.52	-164.28	159.96	-979.52	1,534.36	1,502.03	32.33	47.467		
6,800.00	6,762.45	6,974.36	6,892.61	25.66	24.77	-164.53	155.66	-974.56	1,539.31	1,506.56	32.76	46.995		
6,856.14	6,818.11	7,020.29	6,938.35	25.89	24.94	-164.70	152.74	-971.62	1,542.82	1,509.80	33.02	46.725		
6,900.00	6,861.62	7,059.77	6,977.69	26.06	25.08	-164.85	150.36	-969.30	1,545.55	1,512.32	33.23	46.504		
7,000.00	6,961.05	7,162.38	7,080.04	26.46	25.44	-165.12	146.20	-963.20	1,549.93	1,516.17	33.76	45.913		
7,100.00	7,060.72	7,258.98	7,176.44	26.84	25.77	-165.29	143.95	-957.50	1,551.83	1,517.58	34.25	45.305		
7,200.00	7,160.57	7,355.58	7,272.86	27.20	26.11	-165.42	141.71	-952.06	1,551.49	1,516.74	34.74	44.655		
7,300.00	7,260.53	7,453.77	7,370.87	27.55	26.44	-165.52	139.46	-946.60	1,548.68	1,513.45	35.24	43.953		
7,357.47	7,318.00	7,507.56	7,424.57	27.74	26.63	-91.02	138.44	-943.74	1,546.06	1,510.55	35.51	43.543		
7,400.00	7,360.53	7,538.41	7,455.39	27.88	26.73	-91.04	137.98	-942.23	1,543.99	1,508.32	35.67	43.280		
7,500.00	7,460.53	7,608.00	7,524.93	28.21	26.96	-91.06	137.48	-939.85	1,540.58	1,504.53	36.05	42.731		
7,600.00	7,560.53	7,689.82	7,606.73	28.54	27.20	-91.04	138.09	-938.37	1,538.75	1,502.30	36.46	42.208		
7,700.00	7,660.53	7,789.65	7,706.54	28.87	27.49	-90.97	140.08	-937.21	1,537.56	1,500.64	36.92	41.651		
7,800.00	7,760.53	7,894.33	7,811.19	29.20	27.79	-90.90	141.86	-935.76	1,536.14	1,498.74	37.40	41.078		
7,900.00	7,860.53	7,996.99	7,913.84	29.53	28.11	-90.87	142.82	-934.12	1,534.53	1,496.65	37.88	40.514		
8,000.00	7,960.53	8,110.80	8,027.61	29.87	28.46	-90.84	143.42	-931.54	1,532.24	1,493.84	38.40	39.900		
8,100.00	8,060.53	8,203.79	8,120.57	30.20	28.76	-90.85	143.35	-929.06	1,529.59	1,490.73	38.86	39.364		
8,200.00	8,160.53	8,280.83	8,197.60	30.53	29.00	-90.85	143.20	-927.99	1,528.20	1,488.94	39.25	38.933		
8,300.00	8,260.53	8,369.50	8,286.27	30.87	29.26	-90.87	142.73	-927.75	1,527.93	1,488.24	39.68	38.502		
8,339.78	8,300.31	8,416.19	8,332.95	31.00	29.40	-90.89	142.29	-927.66	1,527.86	1,487.96	39.90	38.290		
8,400.00	8,360.53	8,475.65	8,392.41	31.20	29.58	-90.92	141.55	-927.30	1,527.50	1,487.32	40.19	38.011		
8,420.17	8,380.70	8,490.44	8,407.20	31.27	29.62	-90.92	141.41	-927.27	1,527.47	1,487.21	40.26	37.941 CC		
8,500.00	8,460.53	8,551.00	8,467.76	31.54	29.80	-90.93	141.18	-927.70	1,528.03	1,487.47	40.56	37.677		
8,600.00	8,560.53	8,663.18	8,579.92	31.88	30.12	-90.99	139.70	-928.51	1,528.76	1,487.68	41.08	37.218		
8,700.00	8,660.53	8,746.59	8,663.31	32.21	30.36	-91.05	137.95	-929.36	1,529.81	1,488.32	41.48	36.879		
8,800.00	8,760.53	8,849.77	8,766.44	32.55	30.65	-91.15	135.25	-930.79	1,531.23	1,489.26	41.97	36.483		
8,900.00	8,860.53	8,950.39	8,866.96	32.89	30.95	-91.31	131.01	-932.07	1,532.60	1,490.14	42.46	36.097		
9,000.00	8,960.53	9,052.46	8,968.88	33.23	31.26	-91.51	125.59	-933.11	1,533.75	1,490.80	42.96	35.706		
9,100.00	9,060.53	9,149.36	9,065.62	33.56	31.56	-91.71	120.23	-934.28	1,535.11	1,491.68	43.43	35.345		
9,200.00	9,160.53	9,254.58	9,170.67	33.90	31.89	-91.93	114.26	-935.41	1,536.37	1,492.42	43.95	34.959		
9,300.00	9,260.53	9,359.95	9,275.87	34.24	32.22	-92.15	108.33	-936.11	1,537.24	1,492.77	44.46	34.572		
9,400.00	9,360.53	9,465.46	9,381.22	34.58	32.55	-92.36	102.57	-936.49	1,537.81	1,492.83	44.98	34.186		
9,500.00	9,460.53	9,573.00	9,488.61	34.92	32.90	-92.58	96.70	-936.39	1,537.96	1,492.44	45.51	33.792		
9,600.00	9,560.53	9,674.74	9,590.15	35.26	33.23	-92.81	90.56	-935.92	1,537.78	1,491.75	46.02	33.415		
9,700.00	9,660.53	9,778.98	9,694.27	35.60	33.57	-92.99	85.77	-935.34	1,537.45	1,490.92	46.54	33.038		
9,800.00	9,760.53	9,892.48	9,807.76	35.94	33.93	-93.01	85.29	-934.29	1,536.55	1,489.48	47.07	32.645		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 117-OWSG (Rev2) MWD, 1363-OWSG (Rev2) MWD, 23350-BLIND													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		
9,900.00	9,860.53	9,989.90	9,905.16	36.29	34.23	-92.96	86.79	-932.79	1,534.94	1,487.41	47.53	32.292		
9,957.03	9,917.56	10,028.82	9,944.06	36.48	34.35	-92.91	88.04	-932.62	1,534.60	1,486.87	47.73	32.150		
10,000.00	9,960.53	10,059.00	9,974.21	36.63	34.44	-92.86	89.38	-932.83	1,534.79	1,486.91	47.88	32.054		
10,100.00	10,060.53	10,153.00	10,068.10	36.97	34.70	-92.70	93.75	-934.04	1,535.85	1,487.54	48.31	31.789		
10,200.00	10,160.53	10,248.00	10,163.03	37.31	34.97	-92.57	97.08	-935.39	1,537.12	1,488.37	48.75	31.530		
10,300.00	10,260.53	10,342.00	10,256.96	37.65	35.23	-92.45	100.13	-937.17	1,538.87	1,489.69	49.19	31.287		
10,400.00	10,360.53	10,462.45	10,377.19	38.00	35.57	-92.20	106.90	-939.08	1,540.24	1,490.52	49.72	30.977		
10,500.00	10,460.53	10,577.77	10,492.24	38.34	35.89	-91.90	114.95	-939.53	1,540.38	1,490.15	50.23	30.665		
10,600.00	10,560.53	10,690.01	10,604.22	38.68	36.22	-91.62	122.54	-938.92	1,539.63	1,488.89	50.74	30.346		
10,700.00	10,660.53	10,793.28	10,707.29	39.03	36.53	-91.38	128.83	-937.76	1,538.34	1,487.13	51.21	30.040		
10,800.00	10,760.53	10,893.36	10,807.19	39.37	36.83	-91.17	134.70	-936.58	1,537.03	1,485.35	51.68	29.743		
10,900.00	10,860.53	10,987.51	10,901.19	39.72	37.12	-90.97	139.93	-935.59	1,535.88	1,483.76	52.12	29.466		
11,000.00	10,960.53	11,078.60	10,992.21	40.06	37.40	-90.85	143.36	-935.07	1,535.24	1,482.68	52.56	29.208		
11,049.17	11,009.70	11,122.60	11,036.20	40.23	37.53	-90.81	144.17	-935.00	1,535.15	1,482.38	52.78	29.088		
11,100.00	11,060.53	11,167.58	11,081.18	40.41	37.67	-90.80	144.69	-935.09	1,535.25	1,482.26	53.00	28.970		
11,200.00	11,160.53	11,251.65	11,165.25	40.75	37.92	-90.78	144.99	-935.67	1,535.97	1,482.56	53.41	28.760		
11,300.00	11,260.53	11,311.65	11,225.19	41.10	38.10	-90.85	143.16	-937.14	1,538.56	1,484.85	53.71	28.645		
11,400.00	11,360.53	11,371.26	11,284.33	41.44	38.29	-91.09	136.61	-940.31	1,544.01	1,490.01	54.00	28.593		
11,500.00	11,460.53	11,432.08	11,343.74	41.79	38.48	-91.54	124.54	-944.76	1,551.95	1,497.67	54.28	28.591		
11,600.00	11,560.53	11,541.15	11,444.88	42.13	38.86	-92.99	85.04	-952.39	1,560.99	1,506.11	54.88	28.445		
11,700.00	11,660.53	11,607.11	11,501.72	42.48	39.10	-94.20	51.84	-956.13	1,571.28	1,516.08	55.20	28.465		
11,800.00	11,760.53	11,731.69	11,602.28	42.83	39.59	-96.85	-21.39	-960.59	1,582.62	1,526.68	55.95	28.288		
11,846.51	11,807.04	11,770.99	11,631.27	42.99	39.76	-97.80	-47.91	-960.76	1,588.28	1,532.12	56.17	28.279		
11,850.00	11,810.53	11,773.64	11,633.16	43.00	39.78	88.98	-49.76	-960.75	1,588.73	1,532.55	56.18	28.280		
11,900.00	11,860.45	11,842.38	11,679.77	43.16	40.10	86.62	-100.22	-959.42	1,595.37	1,538.77	56.60	28.184		
11,950.00	11,909.97	11,877.16	11,701.31	43.31	40.28	85.10	-127.45	-957.58	1,601.75	1,544.99	56.76	28.219		
12,000.00	11,958.70	11,900.00	11,714.59	43.46	40.40	83.86	-146.00	-956.27	1,608.71	1,551.91	56.80	28.320		
12,050.00	12,006.28	11,916.61	11,723.79	43.61	40.49	82.73	-159.80	-955.39	1,616.28	1,559.50	56.78	28.467		
12,100.00	12,052.34	11,932.15	11,732.02	43.75	40.57	81.60	-172.95	-954.69	1,624.43	1,567.71	56.72	28.640		
12,150.00	12,096.54	11,947.00	11,739.56	43.87	40.65	80.47	-185.74	-954.16	1,633.04	1,576.40	56.64	28.832		
12,200.00	12,138.53	11,947.00	11,739.56	43.99	40.65	79.54	-185.74	-954.16	1,642.25	1,585.83	56.42	29.107		
12,250.00	12,178.00	11,970.41	11,750.80	44.10	40.77	78.28	-206.26	-953.79	1,651.48	1,595.08	56.40	29.280		
12,300.00	12,214.64	11,994.00	11,761.37	44.21	40.90	77.08	-227.35	-954.19	1,661.32	1,604.94	56.39	29.463		
12,350.00	12,248.19	11,994.00	11,761.37	44.30	40.90	76.12	-227.35	-954.19	1,670.99	1,614.82	56.17	29.749		
12,400.00	12,278.37	11,994.00	11,761.37	44.39	40.90	75.12	-227.35	-954.19	1,681.06	1,625.10	55.96	30.040		
12,450.00	12,304.97	12,021.69	11,772.79	44.48	41.04	74.06	-252.54	-955.51	1,690.67	1,634.65	56.02	30.182		
12,500.00	12,327.78	12,042.00	11,780.50	44.58	41.15	73.11	-271.27	-957.01	1,700.36	1,644.33	56.03	30.350		
12,550.00	12,346.63	12,042.00	11,780.50	44.68	41.15	72.19	-271.27	-957.01	1,709.79	1,653.91	55.88	30.596		
12,600.00	12,361.37	12,089.00	11,795.41	44.79	41.39	71.48	-315.65	-960.90	1,718.66	1,662.50	56.16	30.602		
12,650.00	12,371.89	12,102.66	11,798.87	44.91	41.46	70.76	-328.82	-961.97	1,726.81	1,670.63	56.19	30.734		
12,700.00	12,378.11	12,136.00	11,805.56	45.04	41.64	70.21	-361.39	-964.23	1,734.24	1,677.86	56.39	30.757		
12,746.51	12,380.00	12,160.95	11,809.29	45.17	41.78	69.77	-386.01	-965.73	1,740.33	1,683.78	56.55	30.777		
12,800.00	12,380.00	12,193.66	11,813.11	45.34	41.97	70.00	-418.44	-967.66	1,746.73	1,689.96	56.77	30.767		
12,900.00	12,380.00	12,262.00	11,817.18	45.69	42.37	70.31	-486.53	-971.54	1,757.88	1,700.65	57.23	30.716		
13,000.00	12,380.00	12,349.59	11,818.34	46.08	42.93	70.50	-574.00	-976.18	1,767.05	1,709.22	57.83	30.557		
13,063.21	12,380.00	12,417.62	11,817.99	46.35	43.39	70.57	-641.95	-979.30	1,771.13	1,712.82	58.32	30.371		
13,100.00	12,380.00	12,476.61	11,816.49	46.52	43.82	70.55	-700.88	-981.26	1,773.01	1,714.26	58.75	30.179		
13,200.00	12,380.00	12,653.34	11,812.41	47.00	45.22	70.43	-877.55	-980.38	1,773.77	1,713.60	60.17	29.477		
13,300.00	12,380.00	12,807.58	11,811.57	47.54	46.59	70.36	-1,031.67	-974.58	1,771.02	1,709.43	61.59	28.757		
13,400.00	12,380.00	12,906.17	11,812.36	48.13	47.52	70.35	-1,130.17	-970.35	1,767.64	1,705.05	62.58	28.245		
13,500.00	12,380.00	13,008.78	11,812.05	48.77	48.52	70.30	-1,232.66	-965.58	1,764.29	1,700.62	63.67	27.710		
13,600.00	12,380.00	13,092.58	11,810.24	49.45	49.38	70.21	-1,316.33	-961.40	1,761.26	1,696.66	64.60	27.264		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 117-OWSG (Rev2) MWD, 1363-OWSG (Rev2) MWD, 23350-BLIND													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		
13,700.00	12,380.00	13,247.01	11,808.21	50.18	51.02	70.05	-1,470.44	-951.92	1,756.68	1,690.32	66.36	26.472		
13,800.00	12,380.00	13,301.00	11,807.75	50.95	51.61	70.01	-1,524.30	-948.18	1,751.84	1,684.78	67.06	26.125		
13,900.00	12,380.00	13,368.96	11,806.38	51.77	52.36	69.93	-1,592.15	-944.79	1,749.08	1,681.15	67.93	25.748		
13,947.06	12,380.00	13,396.00	11,805.56	52.17	52.66	69.90	-1,619.17	-944.10	1,748.85	1,680.56	68.29	25.609		
14,000.00	12,380.00	13,441.06	11,803.98	52.62	53.17	69.85	-1,664.20	-943.26	1,749.04	1,680.16	68.87	25.395		
14,100.00	12,380.00	13,531.06	11,800.34	53.51	54.20	69.73	-1,754.11	-941.61	1,749.65	1,679.59	70.06	24.975		
14,200.00	12,380.00	13,614.07	11,797.22	54.44	55.16	69.63	-1,837.06	-940.95	1,751.14	1,679.95	71.19	24.599		
14,300.00	12,380.00	13,701.15	11,794.90	55.40	56.17	69.58	-1,924.10	-941.49	1,753.56	1,681.15	72.41	24.216		
14,400.00	12,380.00	13,802.54	11,791.92	56.39	57.38	69.51	-2,025.44	-942.30	1,756.26	1,682.40	73.86	23.777		
14,500.00	12,380.00	13,909.04	11,791.53	57.41	58.66	69.53	-2,131.93	-943.91	1,758.73	1,683.27	75.46	23.307		
14,600.00	12,380.00	14,001.20	11,791.29	58.46	59.79	69.54	-2,224.08	-945.09	1,760.97	1,684.09	76.88	22.905		
14,700.00	12,380.00	14,094.76	11,788.94	59.54	60.96	69.50	-2,317.60	-946.62	1,764.28	1,685.95	78.33	22.524		
14,800.00	12,380.00	14,232.31	11,788.21	60.64	62.70	69.51	-2,455.14	-947.67	1,766.03	1,685.55	80.48	21.943		
14,900.00	12,380.00	14,365.94	11,788.02	61.77	64.44	69.50	-2,588.75	-946.19	1,765.96	1,683.35	82.61	21.376		
15,000.00	12,380.00	14,508.98	11,788.94	62.92	66.34	69.49	-2,731.70	-941.59	1,763.59	1,678.68	84.91	20.770		
15,100.00	12,380.00	14,627.00	11,791.97	64.09	67.95	69.53	-2,849.54	-935.91	1,759.01	1,672.11	86.90	20.243		
15,200.00	12,380.00	14,682.89	11,792.99	65.28	68.71	69.55	-2,905.38	-933.92	1,755.90	1,667.93	87.97	19.960		
15,300.00	12,380.00	14,749.41	11,792.40	66.50	69.62	69.52	-2,971.89	-932.52	1,755.08	1,665.91	89.17	19.682		
15,301.74	12,380.00	14,750.86	11,792.37	66.52	69.64	69.52	-2,973.33	-932.49	1,755.08	1,665.89	89.20	19.677		
15,400.00	12,380.00	14,834.72	11,790.07	67.73	70.80	69.44	-3,057.15	-931.22	1,755.54	1,664.89	90.65	19.367		
15,500.00	12,380.00	14,925.63	11,785.66	68.98	72.06	69.30	-3,147.94	-929.62	1,756.53	1,664.34	92.19	19.053		
15,600.00	12,380.00	15,006.00	11,780.64	70.24	73.18	69.15	-3,228.15	-928.74	1,758.60	1,665.04	93.56	18.796		
15,700.00	12,380.00	15,128.57	11,773.88	71.52	74.90	68.94	-3,350.52	-927.43	1,760.52	1,664.89	95.63	18.409		
15,800.00	12,380.00	15,231.41	11,772.89	72.82	76.35	68.92	-3,453.34	-927.17	1,761.55	1,664.07	97.48	18.071		
15,900.00	12,380.00	15,326.22	11,774.98	74.13	77.69	69.00	-3,548.12	-928.24	1,762.73	1,663.46	99.27	17.757		
16,000.00	12,380.00	15,426.49	11,777.58	75.46	79.11	69.11	-3,648.35	-929.76	1,764.15	1,662.97	101.18	17.436		
16,100.00	12,380.00	15,535.28	11,781.83	76.79	80.67	69.27	-3,757.04	-931.56	1,765.22	1,661.94	103.28	17.092		
16,200.00	12,380.00	15,673.76	11,789.61	78.14	82.67	69.54	-3,895.29	-933.04	1,765.25	1,659.29	105.96	16.659		
16,300.00	12,380.00	15,797.57	11,796.50	79.50	84.48	69.75	-4,018.89	-931.48	1,763.02	1,654.65	108.37	16.268		
16,400.00	12,380.00	15,888.07	11,799.07	80.87	85.81	69.81	-4,109.31	-929.05	1,760.46	1,650.29	110.17	15.980		
16,500.00	12,380.00	15,966.94	11,799.35	82.25	86.98	69.81	-4,188.16	-927.12	1,758.95	1,647.22	111.73	15.742		
16,600.00	12,380.00	16,047.00	11,799.55	83.64	88.16	69.81	-4,268.21	-925.91	1,758.42	1,645.10	113.32	15.517		
16,609.82	12,380.00	16,059.48	11,799.65	83.78	88.35	69.81	-4,280.69	-925.82	1,758.40	1,644.84	113.56	15.485		
16,700.00	12,380.00	16,126.35	11,800.29	85.04	89.33	69.84	-4,347.55	-925.89	1,759.04	1,644.13	114.91	15.308		
16,800.00	12,380.00	16,251.11	11,803.67	86.45	91.18	69.97	-4,472.25	-927.10	1,760.01	1,642.63	117.38	14.994		
16,801.95	12,380.00	16,253.80	11,803.80	86.48	91.22	69.97	-4,474.94	-927.12	1,760.00	1,642.57	117.43	14.988		
16,900.00	12,380.00	16,346.01	11,807.58	87.87	92.59	70.11	-4,567.07	-927.83	1,760.25	1,640.91	119.34	14.750		
17,000.00	12,380.00	16,470.36	11,812.80	89.30	94.46	70.29	-4,691.31	-928.57	1,760.42	1,638.57	121.85	14.448		
17,100.00	12,380.00	16,616.43	11,822.36	90.73	96.66	70.57	-4,837.04	-926.19	1,757.45	1,632.67	124.78	14.084		
17,200.00	12,380.00	16,781.76	11,833.78	92.17	99.20	70.86	-5,001.77	-918.24	1,751.34	1,623.40	127.94	13.689		
17,300.00	12,380.00	16,900.00	11,843.03	93.62	101.03	71.07	-5,119.33	-909.70	1,742.78	1,612.44	130.35	13.370		
17,400.00	12,380.00	16,973.80	11,847.97	95.07	102.17	71.17	-5,192.79	-904.72	1,735.12	1,603.04	132.09	13.136		
17,500.00	12,380.00	17,048.77	11,852.35	96.53	103.33	71.27	-5,267.51	-900.49	1,728.83	1,595.01	133.82	12.919		
17,600.00	12,380.00	17,116.74	11,855.17	98.00	104.38	71.34	-5,335.35	-897.34	1,724.10	1,588.70	135.40	12.734		
17,700.00	12,380.00	17,184.00	11,858.12	99.47	105.41	71.42	-5,402.53	-895.94	1,721.55	1,584.61	136.94	12.571		
17,800.00	12,380.00	17,301.88	11,863.43	100.95	107.23	71.58	-5,520.27	-894.19	1,719.73	1,580.32	139.41	12.336		
17,900.00	12,380.00	17,407.87	11,868.97	102.43	108.87	71.74	-5,626.06	-890.86	1,715.99	1,574.32	141.67	12.113		
18,000.00	12,380.00	17,473.28	11,872.72	103.92	109.88	71.85	-5,691.36	-890.05	1,713.90	1,570.70	143.21	11.968		
18,100.00	12,380.00	17,596.59	11,879.66	105.41	111.79	72.06	-5,814.46	-887.80	1,711.20	1,565.37	145.83	11.734		
18,200.00	12,380.00	17,656.00	11,882.97	106.91	112.71	72.17	-5,873.77	-887.25	1,709.68	1,562.43	147.24	11.611		
18,229.10	12,380.00	17,682.66	11,884.34	107.35	113.12	72.22	-5,900.39	-887.32	1,709.57	1,561.74	147.83	11.564		
18,300.00	12,380.00	17,730.07	11,886.18	108.41	113.85	72.28	-5,947.76	-887.79	1,710.06	1,561.17	148.89	11.485		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kaston Fed Com - Kaston Fed Com 603H - OH - OH		Offset Site Error:	0.00 usft
Survey Program:		117-OWSG (Rev2) MWD, 1363-OWSG (Rev2) MWD, 23350-BLIND											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				
18,400.00	12,380.00	17,841.90	11,890.65	109.92	115.58	72.46	-6,059.48	-889.74	1,711.50	1,560.18	151.33	11.310				
18,500.00	12,380.00	18,001.18	11,903.10	111.43	118.05	72.87	-6,218.26	-889.54	1,709.70	1,554.89	154.80	11.044				
18,600.00	12,380.00	18,109.42	11,911.94	112.94	119.75	73.15	-6,326.12	-887.81	1,706.72	1,549.48	157.24	10.854				
18,700.00	12,380.00	18,253.65	11,923.05	114.46	122.01	73.47	-6,469.83	-882.82	1,702.08	1,541.81	160.27	10.620				
18,800.00	12,380.00	18,354.26	11,928.02	115.98	123.61	73.59	-6,570.15	-877.17	1,696.23	1,533.75	162.48	10.439				
18,900.00	12,380.00	18,439.42	11,931.24	117.51	124.95	73.65	-6,655.11	-872.26	1,690.62	1,526.19	164.43	10.282				
19,000.00	12,380.00	18,509.00	11,933.17	119.04	126.05	73.69	-6,724.60	-869.29	1,686.65	1,520.56	166.09	10.155				
19,100.00	12,380.00	18,582.02	11,934.80	120.57	127.20	73.74	-6,797.57	-867.35	1,684.39	1,516.62	167.77	10.040				
19,200.00	12,380.00	18,701.10	11,938.95	122.11	129.08	73.86	-6,916.55	-865.10	1,682.60	1,512.26	170.33	9.878				
19,300.00	12,380.00	18,767.73	11,942.57	123.64	130.13	73.98	-6,983.08	-864.35	1,680.94	1,509.00	171.94	9.776				
19,337.19	12,380.00	18,793.00	11,944.08	124.22	130.53	74.03	-7,008.30	-864.44	1,680.80	1,508.26	172.54	9.742				
19,400.00	12,380.00	18,840.87	11,947.03	125.18	131.28	74.14	-7,056.08	-865.03	1,681.08	1,507.43	173.65	9.681				
19,500.00	12,380.00	18,922.62	11,952.06	126.73	132.56	74.33	-7,137.65	-866.97	1,682.63	1,507.08	175.54	9.585				
19,600.00	12,380.00	19,050.32	11,960.59	128.27	134.55	74.65	-7,265.02	-870.39	1,684.53	1,506.02	178.51	9.437				
19,654.73	12,380.00	19,111.55	11,966.57	129.12	135.52	74.86	-7,325.94	-871.34	1,684.44	1,504.47	179.97	9.359				
19,700.00	12,380.00	19,149.48	11,970.17	129.82	136.11	74.99	-7,363.70	-872.02	1,684.54	1,503.65	180.89	9.312				
19,800.00	12,380.00	19,306.65	11,981.57	131.38	138.60	75.37	-7,520.41	-871.03	1,682.87	1,498.46	184.41	9.126				
19,900.00	12,380.00	19,386.75	11,986.43	132.93	139.87	75.52	-7,600.34	-869.48	1,680.44	1,494.11	186.33	9.019				
20,000.00	12,380.00	19,456.00	11,990.54	134.49	140.97	75.66	-7,669.47	-869.22	1,679.57	1,491.57	188.00	8.934				
20,007.11	12,380.00	19,464.86	11,991.06	134.60	141.11	75.68	-7,678.32	-869.26	1,679.57	1,491.36	188.21	8.924				
20,100.00	12,380.00	19,550.00	11,995.66	136.04	142.45	75.84	-7,763.33	-869.79	1,679.79	1,489.60	190.18	8.832				
20,200.00	12,380.00	19,616.68	11,998.89	137.61	143.51	75.96	-7,829.92	-870.95	1,681.25	1,489.54	191.71	8.770				
20,300.00	12,380.00	19,716.29	12,003.43	139.17	145.07	76.15	-7,929.38	-874.05	1,684.14	1,490.13	194.01	8.681				
20,400.00	12,380.00	19,852.54	12,011.22	140.73	147.23	76.44	-8,065.38	-876.44	1,685.40	1,488.21	197.19	8.547				
20,500.00	12,380.00	19,945.73	12,016.93	142.30	148.71	76.64	-8,158.39	-877.47	1,686.01	1,486.63	199.38	8.456				
20,600.00	12,380.00	20,062.06	12,019.89	143.87	150.55	76.75	-8,274.67	-877.70	1,686.62	1,484.64	201.98	8.350				
20,700.00	12,380.00	20,174.24	12,021.95	145.44	152.34	76.81	-8,386.81	-875.88	1,685.53	1,481.07	204.45	8.244				
20,800.00	12,380.00	20,258.78	12,024.86	147.01	153.69	76.91	-8,471.30	-875.32	1,685.06	1,478.65	206.41	8.164				
20,800.00	12,380.00	20,258.78	12,024.86	147.01	153.69	76.91	-8,471.30	-875.32	1,685.06	1,478.65	206.41	8.164				
20,900.00	12,380.00	20,342.43	12,029.69	148.59	155.02	77.08	-8,554.81	-876.02	1,685.54	1,477.15	208.39	8.088				
21,000.00	12,380.00	20,425.74	12,032.97	150.16	156.35	77.21	-8,638.04	-877.22	1,687.03	1,476.72	210.31	8.022				
21,100.00	12,380.00	20,523.09	12,033.96	151.74	157.89	77.26	-8,735.37	-878.85	1,689.40	1,476.92	212.48	7.951				
21,200.00	12,380.00	20,646.15	12,034.28	153.32	159.85	77.28	-8,858.42	-879.01	1,690.33	1,475.13	215.20	7.855				
21,300.00	12,380.00	20,779.90	12,037.82	154.90	161.99	77.40	-8,992.12	-878.69	1,690.61	1,472.43	218.18	7.749				
21,351.04	12,380.00	20,810.20	12,039.07	155.70	162.48	77.44	-9,022.40	-878.47	1,690.29	1,471.36	218.93	7.721				
21,400.00	12,380.00	20,838.58	12,040.30	156.48	162.93	77.49	-9,050.75	-878.64	1,690.59	1,470.98	219.60	7.698				
21,500.00	12,380.00	20,875.00	12,041.98	158.06	163.51	77.55	-9,087.12	-879.40	1,693.29	1,472.99	220.29	7.687				
21,600.00	12,380.00	20,944.69	12,043.66	159.65	164.61	77.64	-9,156.71	-882.48	1,698.39	1,476.69	221.70	7.661				
21,700.00	12,380.00	21,084.66	12,045.48	161.23	166.82	77.76	-9,296.43	-890.20	1,704.66	1,479.55	225.11	7.573				
21,800.00	12,380.00	21,159.00	12,048.52	162.82	168.00	77.89	-9,370.60	-894.06	1,709.84	1,483.12	226.72	7.542				
21,900.00	12,380.00	21,302.80	12,058.21	164.41	170.28	78.26	-9,513.92	-900.25	1,713.27	1,482.89	230.38	7.437				
22,000.00	12,380.00	21,526.30	12,076.39	166.00	173.86	78.88	-9,736.56	-901.62	1,713.43	1,477.89	235.54	7.274				
22,100.00	12,380.00	21,662.92	12,089.73	167.59	176.07	79.29	-9,872.40	-895.75	1,708.21	1,469.64	238.57	7.160				
22,200.00	12,380.00	21,752.39	12,094.98	169.18	177.53	79.44	-9,961.56	-890.68	1,702.52	1,461.74	240.78	7.071				
22,300.00	12,380.00	21,836.65	12,097.66	170.77	178.89	79.51	-10,045.66	-886.32	1,697.80	1,454.94	242.86	6.991				
22,400.00	12,380.00	21,935.53	12,099.97	172.37	180.50	79.56	-10,144.38	-881.20	1,693.26	1,448.14	245.12	6.908				
22,500.00	12,380.00	22,010.00	12,100.28	173.96	181.71	79.55	-10,218.77	-877.84	1,689.71	1,442.75	246.96	6.842				
22,547.76	12,380.00	22,055.45	12,100.37	174.73	182.44	79.55	-10,264.19	-876.14	1,688.41	1,440.42	247.99	6.808				
22,548.65	12,380.00	22,056.31	12,100.38	174.75	182.46	79.55	-10,265.05	-876.11	1,688.38	1,440.37	248.01	6.808 ES, SF				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 112-OWSG (Rev2) MWD, 1431-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	25.05	25.05	0.00	0.03	-74.19	505.15	-1,784.14	1,854.28					
100.00	100.00	119.64	119.64	0.13	0.17	-74.19	505.20	-1,784.35	1,854.50	1,854.29	0.21	8,636.251		
200.00	200.00	196.44	196.43	0.48	0.45	-74.20	505.16	-1,785.05	1,855.39	1,854.73	0.66	2,815.238		
300.00	300.00	287.34	287.31	0.84	0.77	-74.24	504.39	-1,787.19	1,857.42	1,856.27	1.14	1,624.800		
400.00	400.00	371.69	371.61	1.20	1.08	-74.28	503.68	-1,789.61	1,859.95	1,858.34	1.61	1,153.412		
500.00	500.00	464.02	463.89	1.56	1.41	-74.32	503.09	-1,792.79	1,863.10	1,861.00	2.10	886.704		
600.00	600.00	563.57	563.36	1.92	1.77	-74.39	502.10	-1,796.53	1,866.45	1,863.84	2.61	715.787		
700.00	700.00	653.44	653.16	2.28	2.10	-74.44	501.22	-1,800.09	1,870.01	1,866.91	3.09	605.049		
800.00	800.00	803.36	802.95	2.63	2.63	-74.51	500.03	-1,804.15	1,872.31	1,868.60	3.72	503.806		
900.00	900.00	853.95	853.49	2.99	2.82	-74.54	499.42	-1,806.16	1,875.36	1,871.26	4.10	457.355		
1,000.00	1,000.00	947.80	947.24	3.35	3.16	-74.60	498.60	-1,810.38	1,879.46	1,874.86	4.59	409.189		
1,100.00	1,100.00	1,063.01	1,062.29	3.71	3.58	-74.72	496.15	-1,815.71	1,883.37	1,878.23	5.14	366.370		
1,200.00	1,200.00	1,151.27	1,150.42	4.07	3.90	-74.83	493.54	-1,819.78	1,887.06	1,881.43	5.62	335.745		
1,300.00	1,300.00	1,254.60	1,253.62	4.43	4.28	-74.92	491.48	-1,824.61	1,891.05	1,884.91	6.14	308.052		
1,400.00	1,400.00	1,320.00	1,318.93	4.79	4.52	-74.99	490.06	-1,827.72	1,895.33	1,888.77	6.56	288.951		
1,500.00	1,500.00	1,403.34	1,402.06	5.14	4.70	-75.11	487.50	-1,833.04	1,900.83	1,893.90	6.93	274.293		
1,600.00	1,600.00	1,499.00	1,497.21	5.50	4.89	-75.30	483.29	-1,841.94	1,908.67	1,901.35	7.32	260.765		
1,700.00	1,700.00	1,547.95	1,545.79	5.86	4.93	-75.41	480.70	-1,847.32	1,917.38	1,909.78	7.60	252.398		
1,800.00	1,800.00	1,738.59	1,735.24	6.22	5.12	-75.87	469.52	-1,865.19	1,925.54	1,917.55	7.99	241.091		
1,900.00	1,900.00	2,083.45	2,079.23	6.58	5.55	-76.39	450.80	-1,861.44	1,921.33	1,912.80	8.53	225.306		
2,000.00	2,000.00	2,196.26	2,191.64	6.94	5.71	-76.45	446.69	-1,852.85	1,913.08	1,904.16	8.92	214.577		
2,100.00	2,100.00	2,317.34	2,312.16	7.29	5.91	-76.53	441.26	-1,842.76	1,903.93	1,894.60	9.33	204.165		
2,200.00	2,199.99	2,410.56	2,404.90	7.65	6.09	-151.25	436.05	-1,834.75	1,895.42	1,885.70	9.72	194.976		
2,300.00	2,299.91	2,507.20	2,501.06	7.99	6.30	-151.45	430.69	-1,826.78	1,889.55	1,879.42	10.13	186.620		
2,400.00	2,399.69	2,608.01	2,601.33	8.34	6.53	-151.71	424.03	-1,818.76	1,886.03	1,875.49	10.55	178.855		
2,499.27	2,498.54	2,706.00	2,698.72	8.69	6.77	-152.02	416.29	-1,811.20	1,884.81	1,873.83	10.97	171.794		
2,500.00	2,499.27	2,706.00	2,698.72	8.70	6.77	-152.02	416.29	-1,811.20	1,884.81	1,873.83	10.97	171.758		
2,601.33	2,599.89	2,782.69	2,774.99	9.06	6.97	-152.28	410.38	-1,805.78	1,886.68	1,875.29	11.39	165.674		
2,700.00	2,697.71	2,865.04	2,857.01	9.42	7.19	-152.55	405.10	-1,800.71	1,890.86	1,879.06	11.80	160.197		
2,800.00	2,796.85	3,104.09	3,094.44	9.78	7.87	-153.27	390.78	-1,777.83	1,892.02	1,879.59	12.43	152.266		
2,900.00	2,895.99	3,178.00	3,167.58	10.15	8.09	-153.51	385.36	-1,768.68	1,890.10	1,877.24	12.85	147.038		
2,991.08	2,986.29	3,245.63	3,234.58	10.50	8.31	-153.75	379.81	-1,761.32	1,889.56	1,876.31	13.25	142.599		
3,000.00	2,995.13	3,252.42	3,241.30	10.53	8.33	-153.78	379.21	-1,760.63	1,889.57	1,876.28	13.29	142.181		
3,100.00	3,094.27	3,360.18	3,348.01	10.90	8.69	-154.22	368.61	-1,749.92	1,889.72	1,875.94	13.78	137.153		
3,142.25	3,136.16	3,398.24	3,385.66	11.07	8.81	-154.38	364.59	-1,746.05	1,889.65	1,875.67	13.98	135.207		
3,200.00	3,193.41	3,448.19	3,435.11	11.28	8.99	-154.59	359.60	-1,741.09	1,889.78	1,875.53	14.24	132.676		
3,300.00	3,292.55	3,520.69	3,506.98	11.67	9.23	-154.88	352.82	-1,734.40	1,890.90	1,876.22	14.69	128.758		
3,400.00	3,391.69	3,592.49	3,578.28	12.05	9.48	-155.16	346.46	-1,728.82	1,893.61	1,878.49	15.13	125.192		
3,500.00	3,490.83	3,649.00	3,634.46	12.44	9.67	-155.38	341.70	-1,725.08	1,897.87	1,882.34	15.54	122.162		
3,600.00	3,589.97	3,725.83	3,710.96	12.82	9.93	-155.67	335.69	-1,721.24	1,903.79	1,887.81	15.98	119.137		
3,700.00	3,689.11	3,851.72	3,836.50	13.21	10.35	-156.07	328.19	-1,715.78	1,910.68	1,894.16	16.52	115.691		
3,800.00	3,788.25	4,009.55	3,993.52	13.60	10.90	-156.59	317.42	-1,704.27	1,914.26	1,897.15	17.11	111.860		
3,900.00	3,887.39	4,096.95	4,080.27	13.99	11.21	-156.93	309.39	-1,697.34	1,917.19	1,899.60	17.59	108.985		
4,000.00	3,986.53	4,225.85	4,208.37	14.39	11.68	-157.36	300.11	-1,686.50	1,920.01	1,901.87	18.14	105.836		
4,100.00	4,085.67	4,326.66	4,308.62	14.78	12.03	-157.60	295.98	-1,676.73	1,921.98	1,903.35	18.63	103.142		
4,200.00	4,184.81	4,451.94	4,433.14	15.18	12.47	-157.86	291.82	-1,663.67	1,923.38	1,904.22	19.17	100.347		
4,300.00	4,283.95	4,551.57	4,531.99	15.57	12.83	-158.12	286.60	-1,652.40	1,923.66	1,904.00	19.67	97.816		
4,400.00	4,383.09	4,628.17	4,607.98	15.97	13.11	-158.38	280.83	-1,644.60	1,924.86	1,904.73	20.13	95.617		
4,500.00	4,482.23	4,700.84	4,680.14	16.37	13.39	-158.63	275.07	-1,638.22	1,927.46	1,906.87	20.59	93.622		
4,600.00	4,581.37	4,778.00	4,756.90	16.77	13.67	-158.88	269.89	-1,632.45	1,931.50	1,910.45	21.05	91.762		
4,700.00	4,680.51	4,864.89	4,843.44	17.17	13.98	-159.13	264.63	-1,626.67	1,936.51	1,914.98	21.53	89.954		
4,800.00	4,779.65	4,950.01	4,928.23	17.57	14.29	-159.40	259.12	-1,621.48	1,942.10	1,920.10	22.00	88.265		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 112-OWSG (Rev2) MWD, 1431-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		
4,900.00	4,878.79	5,032.67	5,010.60	17.97	14.59	-159.66	253.81	-1,617.09	1,948.54	1,926.06	22.47	86.710		
5,000.00	4,977.93	5,126.38	5,104.04	18.37	14.93	-159.93	248.40	-1,612.72	1,955.71	1,932.74	22.96	85.163		
5,100.00	5,077.07	5,225.40	5,202.82	18.77	15.28	-160.20	243.02	-1,608.09	1,962.95	1,939.49	23.47	83.641		
5,200.00	5,176.21	5,332.97	5,310.10	19.17	15.67	-160.50	237.07	-1,602.93	1,970.12	1,946.12	23.99	82.108		
5,300.00	5,275.35	5,451.88	5,428.65	19.57	16.10	-160.83	230.55	-1,596.48	1,976.73	1,952.19	24.55	80.528		
5,400.00	5,374.49	5,590.21	5,566.25	19.98	16.62	-161.26	221.13	-1,585.94	1,980.85	1,955.70	25.15	78.771		
5,500.00	5,473.63	5,677.47	5,652.98	20.38	16.95	-161.55	214.24	-1,579.37	1,985.29	1,959.65	25.64	77.436		
5,600.00	5,572.77	5,770.86	5,745.81	20.78	17.31	-161.88	206.34	-1,572.78	1,990.26	1,964.12	26.14	76.129		
5,700.00	5,671.91	5,869.42	5,843.81	21.19	17.68	-162.21	198.39	-1,565.95	1,995.43	1,968.77	26.66	74.846		
5,800.00	5,771.05	5,973.42	5,947.25	21.59	18.08	-162.55	190.57	-1,558.62	2,000.59	1,973.40	27.19	73.579		
5,900.00	5,870.19	6,077.58	6,050.85	22.00	18.48	-162.87	182.96	-1,550.96	2,005.51	1,977.79	27.72	72.351		
6,000.00	5,969.33	6,183.64	6,156.33	22.40	18.88	-163.20	175.22	-1,542.89	2,010.23	1,981.98	28.25	71.149		
6,100.00	6,068.47	6,288.85	6,241.07	22.81	19.21	-163.47	169.00	-1,536.50	2,015.13	1,986.39	28.74	70.114		
6,200.00	6,167.61	6,344.59	6,316.43	23.22	19.50	-163.70	163.40	-1,531.53	2,021.02	1,991.82	29.20	69.206		
6,300.00	6,266.75	6,417.91	6,389.47	23.62	19.77	-163.93	158.23	-1,527.64	2,028.22	1,998.56	29.65	68.397		
6,400.00	6,365.89	6,491.07	6,462.44	24.03	20.04	-164.12	153.88	-1,524.69	2,036.74	2,006.64	30.10	67.672		
6,500.00	6,465.03	6,571.00	6,542.26	24.44	20.32	-164.30	150.49	-1,522.51	2,046.57	2,016.01	30.55	66.987		
6,600.00	6,564.17	6,647.87	6,619.10	24.84	20.58	-164.42	148.87	-1,521.20	2,057.42	2,026.44	30.99	66.394		
6,700.00	6,663.31	6,744.37	6,715.60	25.25	20.90	-164.53	148.36	-1,519.99	2,068.79	2,037.32	31.48	65.727		
6,800.00	6,762.45	6,844.34	6,815.55	25.66	21.23	-164.64	147.81	-1,518.73	2,080.17	2,048.19	31.97	65.061		
6,856.14	6,818.11	6,899.26	6,870.47	25.89	21.42	-164.70	147.53	-1,518.03	2,086.55	2,054.30	32.25	64.702		
6,900.00	6,861.62	6,942.00	6,913.21	26.06	21.56	-164.76	147.31	-1,517.51	2,091.32	2,058.86	32.46	64.421		
7,000.00	6,961.05	7,041.96	7,013.16	26.46	21.89	-164.89	146.73	-1,516.30	2,100.40	2,067.44	32.96	63.727		
7,100.00	7,060.72	7,117.37	7,088.56	26.84	22.14	-164.98	146.22	-1,515.81	2,107.52	2,074.14	33.38	63.142		
7,200.00	7,160.57	7,192.86	7,164.05	27.20	22.38	-165.04	145.66	-1,516.19	2,113.28	2,079.49	33.79	62.549		
7,300.00	7,260.53	7,276.37	7,247.55	27.55	22.64	-165.09	144.99	-1,517.51	2,117.57	2,083.36	34.21	61.899		
7,357.47	7,318.00	7,329.83	7,301.00	27.74	22.80	-90.58	144.48	-1,518.56	2,119.12	2,084.65	34.47	61.483		
7,400.00	7,360.53	7,379.53	7,350.68	27.88	22.96	-90.60	143.96	-1,519.50	2,119.92	2,085.23	34.69	61.112		
7,500.00	7,460.53	7,497.95	7,469.09	28.21	23.33	-90.63	142.66	-1,521.01	2,121.21	2,086.00	35.22	60.231		
7,600.00	7,560.53	7,603.48	7,574.61	28.54	23.66	-90.64	142.20	-1,521.72	2,121.89	2,086.18	35.70	59.431		
7,700.00	7,660.53	7,714.48	7,685.61	28.87	23.99	-90.64	142.40	-1,522.06	2,122.19	2,085.99	36.20	58.626		
7,800.00	7,760.53	7,815.68	7,786.81	29.20	24.31	-90.64	142.37	-1,522.11	2,122.24	2,085.57	36.67	57.870		
7,900.00	7,860.53	7,920.84	7,891.97	29.53	24.66	-90.64	142.38	-1,522.00	2,122.14	2,084.97	37.16	57.101		
8,000.00	7,960.53	8,017.27	7,988.40	29.87	24.97	-90.64	142.15	-1,521.72	2,121.85	2,084.22	37.63	56.382		
8,007.38	7,967.91	8,023.28	7,994.41	29.89	24.99	-90.64	142.13	-1,521.71	2,121.85	2,084.18	37.66	56.336		
8,100.00	8,060.53	8,100.62	8,071.75	30.20	25.24	-90.65	142.10	-1,522.02	2,122.21	2,084.16	38.06	55.764		
8,200.00	8,160.53	8,196.50	8,167.62	30.53	25.53	-90.63	142.71	-1,522.93	2,123.15	2,084.64	38.51	55.132		
8,300.00	8,260.53	8,314.21	8,285.33	30.87	25.90	-90.61	143.48	-1,523.46	2,123.58	2,084.55	39.03	54.409		
8,400.00	8,360.53	8,418.00	8,389.11	31.20	26.23	-90.60	143.69	-1,523.38	2,123.50	2,083.98	39.52	53.738		
8,500.00	8,460.53	8,540.68	8,511.78	31.54	26.64	-90.61	143.41	-1,522.37	2,122.63	2,082.56	40.07	52.977		
8,600.00	8,560.53	8,645.00	8,616.10	31.88	27.00	-90.62	142.90	-1,520.82	2,121.14	2,080.58	40.57	52.288		
8,697.04	8,657.57	8,713.24	8,684.34	32.20	27.22	-90.63	142.84	-1,520.55	2,120.68	2,079.73	40.95	51.791		
8,700.00	8,660.53	8,715.64	8,686.73	32.21	27.23	-90.63	142.85	-1,520.55	2,120.68	2,079.72	40.96	51.775		
8,800.00	8,760.53	8,811.72	8,782.81	32.55	27.54	-90.62	143.00	-1,520.76	2,120.89	2,079.47	41.42	51.200		
8,900.00	8,860.53	8,917.12	8,888.21	32.89	27.89	-90.64	142.35	-1,520.84	2,120.98	2,079.05	41.92	50.591		
9,000.00	8,960.53	9,019.11	8,990.19	33.23	28.24	-90.68	140.83	-1,520.71	2,120.86	2,078.44	42.42	49.997		
9,007.00	8,967.53	9,023.00	8,994.08	33.25	28.25	-90.68	140.76	-1,520.70	2,120.86	2,078.41	42.44	49.967		
9,100.00	9,060.53	9,088.63	9,059.70	33.56	28.47	-90.70	139.96	-1,521.07	2,121.40	2,078.60	42.81	49.556		
9,200.00	9,160.53	9,172.53	9,143.59	33.90	28.74	-90.71	139.72	-1,522.62	2,123.22	2,079.99	43.23	49.109		
9,300.00	9,260.53	9,273.38	9,244.41	34.24	29.06	-90.72	139.28	-1,524.71	2,125.31	2,081.59	43.72	48.617		
9,400.00	9,360.53	9,377.13	9,348.14	34.58	29.40	-90.75	138.08	-1,526.68	2,127.21	2,083.01	44.21	48.118		
9,500.00	9,460.53	9,476.14	9,447.12	34.92	29.72	-90.78	137.13	-1,528.47	2,129.04	2,084.36	44.69	47.644		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 112-OWSG (Rev2) MWD, 1431-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		
9,600.00	9,560.53	9,573.97	9,544.93	35.26	30.04	-90.82	135.40	-1,530.33	2,130.97	2,085.80	45.17	47.182		
9,700.00	9,660.53	9,669.55	9,640.47	35.60	30.36	-90.86	134.00	-1,532.29	2,133.04	2,087.41	45.63	46.743		
9,800.00	9,760.53	9,791.29	9,762.19	35.94	30.74	-90.84	134.64	-1,534.34	2,134.72	2,088.54	46.18	46.228		
9,900.00	9,860.53	9,893.41	9,864.29	36.29	31.07	-90.81	135.71	-1,535.59	2,135.93	2,089.27	46.66	45.778		
10,000.00	9,960.53	10,007.23	9,978.12	36.63	31.43	-90.79	136.37	-1,536.29	2,136.51	2,089.34	47.18	45.287		
10,100.00	10,060.53	10,103.12	10,074.00	36.97	31.74	-90.80	136.30	-1,536.75	2,136.99	2,089.35	47.65	44.852		
10,200.00	10,160.53	10,203.10	10,173.97	37.31	32.08	-90.83	135.05	-1,537.43	2,137.69	2,089.56	48.13	44.411		
10,300.00	10,260.53	10,326.64	10,297.49	37.65	32.51	-90.89	132.95	-1,537.62	2,137.90	2,089.20	48.70	43.899		
10,400.00	10,360.53	10,431.04	10,401.89	38.00	32.87	-90.90	132.30	-1,536.91	2,137.23	2,088.03	49.21	43.434		
10,500.00	10,460.53	10,519.02	10,489.87	38.34	33.16	-90.90	132.47	-1,536.54	2,136.80	2,087.15	49.66	43.033		
10,530.79	10,491.32	10,546.97	10,517.82	38.45	33.25	-90.89	132.63	-1,536.52	2,136.79	2,086.99	49.79	42.912		
10,600.00	10,560.53	10,611.72	10,582.56	38.68	33.46	-90.88	133.12	-1,536.60	2,136.86	2,086.75	50.11	42.641		
10,700.00	10,660.53	10,702.14	10,672.98	39.03	33.75	-90.85	134.20	-1,537.00	2,137.28	2,086.72	50.56	42.271		
10,800.00	10,760.53	10,785.47	10,756.29	39.37	34.02	-90.81	135.61	-1,537.86	2,138.30	2,087.31	50.99	41.938		
10,900.00	10,860.53	10,898.63	10,869.43	39.72	34.38	-90.76	137.44	-1,539.42	2,139.68	2,088.18	51.51	41.543		
11,000.00	10,960.53	11,017.83	10,988.62	40.06	34.77	-90.74	138.42	-1,539.77	2,139.95	2,087.91	52.04	41.118		
11,023.16	10,983.69	11,039.40	11,010.19	40.14	34.84	-90.74	138.46	-1,539.77	2,139.94	2,087.79	52.15	41.033		
11,100.00	11,060.53	11,113.37	11,084.16	40.41	35.09	-90.74	138.21	-1,539.85	2,140.03	2,087.51	52.52	40.748		
11,200.00	11,160.53	11,223.93	11,194.71	40.75	35.47	-90.76	137.49	-1,539.74	2,139.94	2,086.90	53.04	40.342		
11,300.00	11,260.53	11,326.55	11,297.33	41.10	35.83	-90.78	136.71	-1,539.15	2,139.37	2,085.83	53.55	39.952		
11,374.53	11,335.06	11,390.79	11,361.56	41.35	36.05	-90.81	135.77	-1,538.95	2,139.17	2,085.28	53.89	39.697		
11,400.00	11,360.53	11,409.56	11,380.33	41.44	36.12	-90.82	135.34	-1,538.98	2,139.21	2,085.21	53.99	39.620		
11,500.00	11,460.53	11,610.91	11,578.97	41.79	36.89	-91.58	107.27	-1,535.52	2,138.30	2,083.49	54.81	39.010		
11,600.00	11,560.53	11,711.00	11,674.22	42.13	37.31	-92.39	77.23	-1,530.16	2,133.80	2,078.43	55.36	38.543		
11,700.00	11,660.53	11,759.00	11,718.06	42.48	37.53	-92.91	57.85	-1,527.83	2,130.80	2,075.05	55.75	38.220		
11,771.98	11,732.51	11,806.00	11,759.86	42.73	37.74	-93.49	36.44	-1,526.14	2,130.09	2,074.02	56.07	37.991		
11,800.00	11,760.53	11,819.14	11,771.33	42.83	37.80	-93.66	30.04	-1,525.80	2,130.20	2,074.03	56.17	37.924		
11,846.51	11,807.04	11,853.00	11,800.14	42.99	37.96	-94.14	12.28	-1,525.01	2,130.82	2,074.44	56.39	37.790		
11,850.00	11,810.53	11,853.00	11,800.14	43.00	37.96	92.76	12.28	-1,525.01	2,130.88	2,074.49	56.39	37.787		
11,900.00	11,860.45	11,853.00	11,800.14	43.16	37.96	92.60	12.28	-1,525.01	2,132.45	2,076.00	56.45	37.775		
11,950.00	11,909.97	11,882.37	11,824.08	43.31	38.10	91.97	-4.72	-1,524.64	2,134.84	2,078.21	56.63	37.699		
12,000.00	11,958.70	11,899.00	11,837.12	43.46	38.18	91.43	-15.03	-1,524.66	2,138.31	2,081.57	56.74	37.689 SF		
12,050.00	12,006.28	11,899.00	11,837.12	43.61	38.18	90.98	-15.03	-1,524.66	2,142.87	2,086.12	56.75	37.762		
12,100.00	12,052.34	11,899.00	11,837.12	43.75	38.18	90.39	-15.03	-1,524.66	2,148.66	2,091.92	56.74	37.869		
12,150.00	12,096.54	11,899.00	11,837.12	43.87	38.18	89.69	-15.03	-1,524.66	2,155.62	2,098.91	56.72	38.007		
12,200.00	12,138.53	11,899.00	11,837.12	43.99	38.18	88.87	-15.03	-1,524.66	2,163.69	2,107.01	56.68	38.173		
12,250.00	12,178.00	11,899.00	11,837.12	44.10	38.18	87.95	-15.03	-1,524.66	2,172.80	2,116.16	56.64	38.361		
12,300.00	12,214.64	11,899.00	11,837.12	44.21	38.18	86.92	-15.03	-1,524.66	2,182.86	2,126.27	56.59	38.570		
12,350.00	12,248.19	11,899.00	11,837.12	44.30	38.18	85.80	-15.03	-1,524.66	2,193.79	2,137.24	56.55	38.795		
12,400.00	12,278.37	11,899.00	11,837.12	44.39	38.18	84.60	-15.03	-1,524.66	2,205.48	2,148.98	56.51	39.031		
12,450.00	12,304.97	11,899.00	11,837.12	44.48	38.18	83.33	-15.03	-1,524.66	2,217.85	2,161.38	56.47	39.275		
12,500.00	12,327.78	11,899.00	11,837.12	44.58	38.18	82.01	-15.03	-1,524.66	2,230.78	2,174.34	56.44	39.523		
12,550.00	12,346.63	11,899.00	11,837.12	44.68	38.18	80.63	-15.03	-1,524.66	2,244.17	2,187.74	56.43	39.770		
12,600.00	12,361.37	11,899.00	11,837.12	44.79	38.18	79.23	-15.03	-1,524.66	2,257.90	2,201.48	56.43	40.014		
12,650.00	12,371.89	11,899.00	11,837.12	44.91	38.18	77.80	-15.03	-1,524.66	2,271.88	2,215.44	56.44	40.252		
12,700.00	12,378.11	11,899.00	11,837.12	45.04	38.18	76.37	-15.03	-1,524.66	2,285.98	2,229.51	56.47	40.480		
12,746.51	12,380.00	11,899.00	11,837.12	45.17	38.18	75.04	-15.03	-1,524.66	2,299.12	2,242.61	56.51	40.683		
12,800.00	12,380.00	11,899.00	11,837.12	45.34	38.18	75.12	-15.03	-1,524.66	2,314.31	2,257.74	56.57	40.908		
12,900.00	12,380.00	11,899.00	11,837.12	45.69	38.18	75.28	-15.03	-1,524.66	2,343.28	2,286.58	56.70	41.327		
13,000.00	12,380.00	11,899.00	11,837.12	46.08	38.18	75.43	-15.03	-1,524.66	2,372.92	2,316.07	56.85	41.742		
13,063.21	12,380.00	11,899.00	11,837.12	46.35	38.18	75.53	-15.03	-1,524.66	2,391.97	2,335.02	56.95	42.004		
13,100.00	12,380.00	11,899.00	11,837.12	46.52	38.18	75.53	-15.03	-1,524.66	2,403.38	2,346.38	57.01	42.159		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 112-OWSG (Rev2) MWD, 1431-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		
13,200.00	12,380.00	11,899.00	11,837.12	47.00	38.18	75.53	-15.03	-1,524.66	2,436.95	2,379.76	57.19	42.614		
13,300.00	12,380.00	11,899.00	11,837.12	47.54	38.18	75.53	-15.03	-1,524.66	2,474.10	2,416.72	57.38	43.117		
13,400.00	12,380.00	11,899.00	11,837.12	48.13	38.18	75.53	-15.03	-1,524.66	2,514.68	2,457.09	57.59	43.668		
13,500.00	12,380.00	11,899.00	11,837.12	48.77	38.18	75.53	-15.03	-1,524.66	2,558.53	2,500.73	57.80	44.265		
13,600.00	12,380.00	11,899.00	11,837.12	49.45	38.18	75.53	-15.03	-1,524.66	2,605.48	2,547.46	58.02	44.906		
13,700.00	12,380.00	11,899.00	11,837.12	50.18	38.18	75.53	-15.03	-1,524.66	2,655.37	2,597.12	58.24	45.591		
13,800.00	12,380.00	11,899.00	11,837.12	50.95	38.18	75.53	-15.03	-1,524.66	2,708.03	2,649.56	58.47	46.317		
13,900.00	12,380.00	11,899.00	11,837.12	51.77	38.18	75.53	-15.03	-1,524.66	2,763.31	2,704.62	58.69	47.084		
14,000.00	12,380.00	11,899.00	11,837.12	52.62	38.18	75.53	-15.03	-1,524.66	2,821.05	2,762.14	58.91	47.889		
14,100.00	12,380.00	11,899.00	11,837.12	53.51	38.18	75.53	-15.03	-1,524.66	2,881.11	2,821.99	59.12	48.729		
14,200.00	12,380.00	11,899.00	11,837.12	54.44	38.18	75.53	-15.03	-1,524.66	2,943.34	2,884.00	59.34	49.604		
14,300.00	12,380.00	11,899.00	11,837.12	55.40	38.18	75.53	-15.03	-1,524.66	3,007.61	2,948.06	59.54	50.511		
14,400.00	12,380.00	11,899.00	11,837.12	56.39	38.18	75.53	-15.03	-1,524.66	3,073.79	3,014.04	59.75	51.448		
14,500.00	12,380.00	11,899.00	11,837.12	57.41	38.18	75.53	-15.03	-1,524.66	3,141.75	3,081.81	59.94	52.414		
14,600.00	12,380.00	11,899.00	11,837.12	58.46	38.18	75.53	-15.03	-1,524.66	3,211.40	3,151.26	60.13	53.407		
14,700.00	12,380.00	11,899.00	11,837.12	59.54	38.18	75.53	-15.03	-1,524.66	3,282.61	3,222.29	60.31	54.425		
14,800.00	12,380.00	11,899.00	11,837.12	60.64	38.18	75.53	-15.03	-1,524.66	3,355.29	3,294.80	60.49	55.467		
14,900.00	12,380.00	11,899.00	11,837.12	61.77	38.18	75.53	-15.03	-1,524.66	3,429.35	3,368.69	60.66	56.532		
15,000.00	12,380.00	11,899.00	11,837.12	62.92	38.18	75.53	-15.03	-1,524.66	3,504.69	3,443.87	60.83	57.618		
15,100.00	12,380.00	11,899.00	11,837.12	64.09	38.18	75.53	-15.03	-1,524.66	3,581.25	3,520.26	60.99	58.723		
15,200.00	12,380.00	11,899.00	11,837.12	65.28	38.18	75.53	-15.03	-1,524.66	3,658.93	3,597.79	61.14	59.847		
15,300.00	12,380.00	11,899.00	11,837.12	66.50	38.18	75.53	-15.03	-1,524.66	3,737.68	3,676.39	61.29	60.987		
15,400.00	12,380.00	11,899.00	11,837.12	67.73	38.18	75.53	-15.03	-1,524.66	3,817.42	3,755.99	61.43	62.144		
15,500.00	12,380.00	11,899.00	11,837.12	68.98	38.18	75.53	-15.03	-1,524.66	3,898.10	3,836.53	61.57	63.316		
15,600.00	12,380.00	11,899.00	11,837.12	70.24	38.18	75.53	-15.03	-1,524.66	3,979.65	3,917.95	61.70	64.502		
15,700.00	12,380.00	11,899.00	11,837.12	71.52	38.18	75.53	-15.03	-1,524.66	4,062.03	4,000.20	61.83	65.701		
15,800.00	12,380.00	11,899.00	11,837.12	72.82	38.18	75.53	-15.03	-1,524.66	4,145.18	4,083.23	61.95	66.913		
15,900.00	12,380.00	11,899.00	11,837.12	74.13	38.18	75.53	-15.03	-1,524.66	4,229.06	4,166.99	62.07	68.135		
16,000.00	12,380.00	11,899.00	11,837.12	75.46	38.18	75.53	-15.03	-1,524.66	4,313.63	4,251.45	62.18	69.368		
16,100.00	12,380.00	11,899.00	11,837.12	76.79	38.18	75.53	-15.03	-1,524.66	4,398.85	4,336.55	62.30	70.611		
16,200.00	12,380.00	11,899.00	11,837.12	78.14	38.18	75.53	-15.03	-1,524.66	4,484.68	4,422.27	62.41	71.863		
16,300.00	12,380.00	11,899.00	11,837.12	79.50	38.18	75.53	-15.03	-1,524.66	4,571.08	4,508.57	62.51	73.125		
16,400.00	12,380.00	11,899.00	11,837.12	80.87	38.18	75.53	-15.03	-1,524.66	4,658.03	4,595.42	62.61	74.395		
16,500.00	12,380.00	11,899.00	11,837.12	82.25	38.18	75.53	-15.03	-1,524.66	4,745.49	4,682.78	62.71	75.673		
16,600.00	12,380.00	11,899.00	11,837.12	83.64	38.18	75.53	-15.03	-1,524.66	4,833.44	4,770.63	62.81	76.957		
16,700.00	12,380.00	11,899.00	11,837.12	85.04	38.18	75.53	-15.03	-1,524.66	4,921.85	4,858.95	62.90	78.247		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kaston Fed Com - Kaston Fed Com 703H - OH - Plan #9		Offset Site Error:	0.00 usft
Survey Program:													112-OWSG (Rev2) MWD, 1409-OWSG (Rev2) MWD, 11286-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	25.05	25.05	0.00	0.03	-74.19	505.15	-1,784.14	1,854.28							
100.00	100.00	119.64	119.64	0.13	0.17	-74.19	505.20	-1,784.35	1,854.50	1,854.29	0.21	8,636.251				
200.00	200.00	196.44	196.43	0.48	0.45	-74.20	505.16	-1,785.05	1,855.39	1,854.73	0.66	2,815.238				
300.00	300.00	287.34	287.31	0.84	0.77	-74.24	504.39	-1,787.19	1,857.42	1,856.27	1.14	1,624.800				
400.00	400.00	371.69	371.61	1.20	1.08	-74.28	503.68	-1,789.61	1,859.95	1,858.34	1.61	1,153.412				
500.00	500.00	464.02	463.89	1.56	1.41	-74.32	503.09	-1,792.79	1,863.10	1,861.00	2.10	886.704				
600.00	600.00	563.57	563.36	1.92	1.77	-74.39	502.10	-1,796.53	1,866.45	1,863.84	2.61	715.787				
700.00	700.00	653.44	653.16	2.28	2.10	-74.44	501.22	-1,800.09	1,870.01	1,866.91	3.09	605.049				
800.00	800.00	803.36	802.95	2.63	2.63	-74.51	500.03	-1,804.15	1,872.31	1,868.60	3.72	503.806				
900.00	900.00	853.95	853.49	2.99	2.82	-74.54	499.42	-1,806.16	1,875.36	1,871.26	4.10	457.355				
1,000.00	1,000.00	947.80	947.24	3.35	3.16	-74.60	498.60	-1,810.38	1,879.46	1,874.86	4.59	409.189				
1,100.00	1,100.00	1,063.01	1,062.29	3.71	3.58	-74.72	496.15	-1,815.71	1,883.37	1,878.23	5.14	366.370				
1,200.00	1,200.00	1,151.27	1,150.42	4.07	3.90	-74.83	493.54	-1,819.78	1,887.06	1,881.43	5.62	335.745				
1,300.00	1,300.00	1,254.60	1,253.62	4.43	4.28	-74.92	491.48	-1,824.61	1,891.05	1,884.91	6.14	308.052				
1,400.00	1,400.00	1,338.18	1,337.08	4.79	4.56	-75.01	489.60	-1,828.68	1,895.20	1,888.61	6.58	287.827				
1,500.00	1,500.00	1,409.00	1,407.71	5.14	4.70	-75.11	487.46	-1,833.42	1,900.84	1,893.90	6.93	274.105				
1,600.00	1,600.00	1,468.41	1,466.84	5.50	4.73	-75.22	485.11	-1,838.66	1,908.27	1,901.06	7.21	264.665				
1,700.00	1,700.00	1,547.96	1,545.82	5.86	4.79	-75.40	481.05	-1,847.21	1,917.35	1,909.85	7.51	255.386				
1,800.00	1,800.00	1,738.61	1,735.28	6.22	5.00	-75.86	469.87	-1,865.07	1,925.51	1,917.60	7.92	243.252				
1,900.00	1,900.00	2,083.44	2,079.24	6.58	5.48	-76.38	451.15	-1,861.32	1,921.30	1,912.82	8.48	226.481				
2,000.00	2,000.00	2,196.24	2,191.64	6.94	5.65	-76.43	447.04	-1,852.74	1,913.05	1,904.17	8.88	215.441				
2,100.00	2,100.00	2,317.32	2,312.17	7.29	5.87	-76.52	441.61	-1,842.65	1,903.90	1,894.60	9.30	204.769				
2,200.00	2,199.99	2,410.55	2,404.91	7.65	6.06	-151.23	436.40	-1,834.64	1,895.39	1,885.69	9.70	195.409				
2,300.00	2,299.91	2,507.19	2,501.07	7.99	6.27	-151.43	431.04	-1,826.67	1,889.52	1,879.41	10.11	186.912				
2,400.00	2,399.69	2,608.01	2,601.35	8.34	6.51	-151.70	424.38	-1,818.65	1,886.00	1,875.47	10.53	179.029				
2,499.30	2,498.57	2,706.00	2,698.74	8.69	6.76	-152.01	416.64	-1,811.08	1,884.77	1,873.81	10.97	171.875				
2,500.00	2,499.27	2,706.00	2,698.74	8.70	6.76	-152.01	416.64	-1,811.08	1,884.77	1,873.81	10.97	171.840				
2,601.33	2,599.89	2,782.69	2,775.01	9.06	6.97	-152.27	410.73	-1,805.66	1,886.65	1,875.26	11.39	165.697				
2,700.00	2,697.71	2,865.03	2,857.02	9.42	7.19	-152.54	405.45	-1,800.60	1,890.83	1,879.02	11.81	160.169				
2,800.00	2,796.85	3,104.08	3,094.46	9.78	7.89	-153.26	391.13	-1,777.71	1,891.98	1,879.55	12.44	152.124				
2,900.00	2,895.99	3,178.00	3,167.60	10.15	8.12	-153.50	385.71	-1,768.57	1,890.06	1,877.19	12.87	146.877				
2,991.28	2,986.48	3,245.78	3,234.75	10.50	8.33	-153.74	380.15	-1,761.19	1,889.52	1,876.25	13.27	142.416				
3,000.00	2,995.13	3,252.41	3,241.32	10.53	8.36	-153.77	379.56	-1,760.52	1,889.53	1,876.22	13.31	142.005				
3,100.00	3,094.27	3,360.18	3,348.03	10.90	8.72	-154.21	368.96	-1,749.81	1,889.67	1,875.87	13.80	136.956				
3,142.66	3,136.56	3,398.60	3,386.04	11.07	8.85	-154.37	364.91	-1,745.90	1,889.60	1,875.61	14.00	134.987				
3,200.00	3,193.41	3,448.19	3,435.13	11.28	9.02	-154.58	359.95	-1,740.98	1,889.73	1,875.46	14.27	132.469				
3,300.00	3,292.55	3,520.69	3,507.00	11.67	9.27	-154.87	353.17	-1,734.28	1,890.85	1,876.14	14.71	128.546				
3,400.00	3,391.69	3,592.49	3,578.30	12.05	9.52	-155.15	346.81	-1,728.71	1,893.56	1,878.41	15.15	124.977				
3,500.00	3,490.83	3,649.00	3,634.48	12.44	9.72	-155.37	342.05	-1,724.97	1,897.82	1,882.26	15.56	121.947				
3,600.00	3,589.97	3,725.83	3,710.98	12.82	9.98	-155.66	336.04	-1,721.13	1,903.73	1,887.72	16.01	118.920				
3,700.00	3,689.11	3,851.70	3,836.49	13.21	10.40	-156.06	328.54	-1,715.66	1,910.62	1,894.07	16.55	115.466				
3,800.00	3,788.25	4,009.55	3,993.54	13.60	10.96	-156.58	317.77	-1,704.16	1,914.20	1,897.05	17.15	111.627				
3,900.00	3,887.39	4,096.95	4,080.30	13.99	11.27	-156.92	309.74	-1,697.23	1,917.12	1,899.49	17.63	108.754				
4,000.00	3,986.53	4,225.84	4,208.38	14.39	11.74	-157.35	300.46	-1,686.39	1,919.94	1,901.76	18.18	105.605				
4,100.00	4,085.67	4,326.63	4,308.62	14.78	12.09	-157.59	296.33	-1,676.62	1,921.92	1,903.24	18.68	102.913				
4,200.00	4,184.81	4,451.91	4,433.14	15.18	12.53	-157.85	292.17	-1,663.56	1,923.31	1,904.10	19.21	100.120				
4,300.00	4,283.95	4,551.56	4,532.00	15.57	12.90	-158.11	286.95	-1,652.29	1,923.59	1,903.88	19.71	97.593				
4,400.00	4,383.09	4,628.17	4,608.00	15.97	13.19	-158.37	281.18	-1,644.49	1,924.79	1,904.62	20.18	95.399				
4,500.00	4,482.23	4,700.84	4,680.16	16.37	13.46	-158.62	275.42	-1,638.11	1,927.38	1,906.75	20.63	93.410				
4,600.00	4,581.37	4,778.00	4,756.92	16.77	13.74	-158.86	270.24	-1,632.34	1,931.43	1,910.33	21.10	91.553				
4,700.00	4,680.51	4,864.88	4,843.46	17.17	14.06	-159.12	264.98	-1,626.56	1,936.43	1,914.86	21.58	89.750				
4,800.00	4,779.65	4,950.01	4,928.24	17.57	14.37	-159.39	259.47	-1,621.36	1,942.02	1,919.97	22.05	88.064				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 112-OWSG (Rev2) MWD, 1409-OWSG (Rev2) MWD, 11286-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		
4,900.00	4,878.79	5,032.67	5,010.61	17.97	14.67	-159.65	254.16	-1,616.98	1,948.45	1,925.93	22.52	86.514		
5,000.00	4,977.93	5,126.37	5,104.06	18.37	15.01	-159.92	248.75	-1,612.61	1,955.62	1,932.61	23.02	84.970		
5,100.00	5,077.07	5,225.40	5,202.83	18.77	15.36	-160.19	243.37	-1,607.98	1,962.87	1,939.35	23.52	83.452		
5,200.00	5,176.21	5,324.96	5,310.11	19.17	15.75	-160.49	237.42	-1,602.81	1,970.03	1,945.98	24.05	81.922		
5,300.00	5,275.35	5,424.86	5,428.65	19.57	16.18	-160.82	230.90	-1,596.36	1,976.65	1,952.04	24.60	80.346		
5,400.00	5,374.49	5,524.81	5,566.27	19.98	16.70	-161.25	221.48	-1,585.82	1,980.76	1,955.55	25.20	78.593		
5,500.00	5,473.63	5,624.77	5,653.01	20.38	17.04	-161.54	214.59	-1,579.25	1,985.20	1,959.50	25.69	77.262		
5,600.00	5,572.77	5,724.72	5,745.83	20.78	17.40	-161.87	206.69	-1,572.67	1,990.16	1,963.96	26.20	75.958		
5,700.00	5,671.91	5,824.67	5,843.83	21.19	17.77	-162.20	198.74	-1,565.84	1,995.33	1,968.62	26.72	74.679		
5,800.00	5,771.05	5,924.61	5,947.27	21.59	18.17	-162.54	190.92	-1,558.51	2,000.49	1,973.24	27.25	73.416		
5,900.00	5,870.19	6,024.55	6,050.87	22.00	18.57	-162.86	183.31	-1,550.85	2,005.40	1,977.63	27.78	72.191		
6,000.00	5,969.33	6,124.49	6,156.34	22.40	18.98	-163.19	175.57	-1,542.78	2,010.13	1,981.81	28.31	70.993		
6,100.00	6,068.47	6,224.43	6,241.08	22.81	19.30	-163.46	169.35	-1,536.39	2,015.02	1,986.22	28.80	69.961		
6,200.00	6,167.61	6,324.37	6,316.45	23.22	19.59	-163.69	163.75	-1,531.42	2,020.91	1,991.65	29.26	69.057		
6,300.00	6,266.75	6,424.31	6,389.49	23.62	19.87	-163.92	158.58	-1,527.53	2,026.81	1,998.39	29.72	68.251		
6,400.00	6,365.89	6,524.25	6,462.45	24.03	20.13	-164.11	154.23	-1,524.58	2,032.71	2,006.47	30.16	67.528		
6,500.00	6,465.03	6,624.19	6,542.29	24.44	20.42	-164.29	150.84	-1,522.40	2,038.61	2,015.84	30.61	66.845		
6,600.00	6,564.17	6,724.13	6,619.11	24.84	20.68	-164.41	149.22	-1,521.08	2,044.51	2,026.26	31.05	66.255		
6,700.00	6,663.31	6,824.07	6,715.60	25.25	21.00	-164.52	148.71	-1,519.88	2,050.41	2,037.14	31.54	65.590		
6,800.00	6,762.45	6,923.95	6,815.55	25.66	21.33	-164.63	148.16	-1,518.61	2,056.31	2,048.01	32.04	64.926		
6,856.14	6,818.11	6,989.24	6,870.47	25.89	21.52	-164.69	147.88	-1,517.92	2,062.21	2,054.12	32.31	64.568		
6,900.00	6,861.62	7,049.13	6,913.21	26.06	21.66	-164.76	147.66	-1,517.40	2,068.11	2,058.67	32.53	64.288		
7,000.00	6,961.05	7,149.07	7,013.16	26.46	21.99	-164.88	147.08	-1,516.19	2,100.28	2,067.26	33.03	63.596		
7,100.00	7,060.72	7,248.95	7,088.57	26.84	22.24	-164.97	146.57	-1,515.69	2,107.40	2,073.96	33.44	63.013		
7,200.00	7,160.57	7,348.83	7,164.06	27.20	22.48	-165.03	146.01	-1,516.08	2,113.16	2,079.31	33.85	62.422		
7,300.00	7,260.53	7,448.71	7,247.55	27.55	22.74	-165.09	145.34	-1,517.40	2,117.45	2,083.17	34.28	61.774		
7,357.47	7,318.00	7,508.60	7,301.00	27.74	22.91	-90.57	144.83	-1,518.45	2,119.00	2,084.47	34.53	61.359		
7,400.00	7,360.53	7,568.53	7,350.68	27.88	23.06	-90.59	144.31	-1,519.38	2,119.80	2,085.05	34.76	60.989		
7,500.00	7,460.53	7,668.47	7,469.09	28.21	23.43	-90.62	143.01	-1,520.90	2,121.10	2,085.81	35.29	60.109		
7,600.00	7,560.53	7,768.41	7,574.61	28.54	23.76	-90.63	142.55	-1,521.60	2,121.77	2,086.00	35.77	59.312		
7,700.00	7,660.53	7,868.35	7,685.61	28.87	24.10	-90.63	142.75	-1,521.94	2,122.07	2,085.80	36.27	58.508		
7,800.00	7,760.53	7,968.29	7,786.80	29.20	24.42	-90.63	142.72	-1,522.00	2,122.13	2,085.38	36.74	57.754		
7,900.00	7,860.53	8,068.23	7,891.97	29.53	24.77	-90.63	142.73	-1,521.89	2,122.02	2,084.79	37.24	56.987		
8,000.00	7,960.53	8,168.17	7,988.41	29.87	25.08	-90.63	142.50	-1,521.60	2,121.73	2,084.03	37.71	56.271		
8,007.40	7,967.93	8,023.28	7,994.43	29.89	25.10	-90.64	142.48	-1,521.60	2,121.73	2,083.99	37.74	56.224		
8,100.00	8,060.53	8,168.11	8,071.75	30.20	25.35	-90.64	142.45	-1,521.91	2,122.10	2,083.97	38.13	55.654		
8,200.00	8,160.53	8,268.05	8,167.61	30.53	25.64	-90.62	143.06	-1,522.82	2,123.03	2,084.44	38.58	55.024		
8,300.00	8,260.53	8,367.99	8,285.33	30.87	26.01	-90.60	143.83	-1,523.34	2,123.46	2,084.35	39.10	54.303		
8,400.00	8,360.53	8,467.93	8,389.11	31.20	26.34	-90.59	144.04	-1,523.26	2,123.38	2,083.79	39.59	53.634		
8,500.00	8,460.53	8,567.87	8,511.78	31.54	26.76	-90.60	143.76	-1,522.25	2,122.51	2,082.37	40.14	52.875		
8,600.00	8,560.53	8,667.81	8,616.12	31.88	27.12	-90.61	143.25	-1,520.70	2,121.03	2,080.38	40.64	52.187		
8,697.08	8,657.61	8,713.26	8,684.37	32.20	27.34	-90.62	143.19	-1,520.44	2,120.56	2,079.54	41.02	51.692		
8,700.00	8,660.53	8,715.62	8,686.74	32.21	27.35	-90.62	143.20	-1,520.44	2,120.56	2,079.52	41.04	51.676		
8,800.00	8,760.53	8,815.69	8,782.81	32.55	27.66	-90.61	143.35	-1,520.65	2,120.77	2,079.27	41.50	51.103		
8,900.00	8,860.53	8,915.76	8,888.21	32.89	28.01	-90.63	142.70	-1,520.73	2,120.86	2,078.86	42.00	50.496		
9,000.00	8,960.53	9,015.83	8,990.20	33.23	28.36	-90.67	141.18	-1,520.60	2,120.75	2,078.25	42.50	49.903		
9,007.07	8,967.60	9,023.00	8,994.10	33.25	28.37	-90.67	141.11	-1,520.59	2,120.74	2,078.22	42.52	49.874		
9,100.00	9,060.53	9,123.07	9,059.71	33.56	28.59	-90.69	140.31	-1,520.95	2,121.29	2,078.40	42.89	49.463		
9,200.00	9,160.53	9,223.01	9,143.60	33.90	28.86	-90.70	140.07	-1,522.50	2,123.11	2,079.79	43.31	49.018		
9,300.00	9,260.53	9,323.06	9,244.42	34.24	29.18	-90.71	139.63	-1,524.60	2,125.19	2,081.39	43.79	48.527		
9,400.00	9,360.53	9,423.11	9,348.14	34.58	29.52	-90.74	138.43	-1,526.56	2,127.10	2,082.81	44.29	48.030		
9,500.00	9,460.53	9,523.16	9,447.13	34.92	29.84	-90.77	137.48	-1,528.36	2,128.93	2,084.16	44.77	47.557		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 112-OWSG (Rev2) MWD, 1409-OWSG (Rev2) MWD, 11286-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		
9,600.00	9,560.53	9,573.96	9,544.94	35.26	30.16	-90.81	135.75	-1,530.22	2,130.85	2,085.61	45.24	47.096		
9,700.00	9,660.53	9,669.53	9,640.48	35.60	30.48	-90.85	134.35	-1,532.18	2,132.92	2,087.21	45.71	46.658		
9,800.00	9,760.53	9,791.27	9,762.19	35.94	30.86	-90.83	134.99	-1,534.23	2,134.60	2,088.34	46.26	46.144		
9,900.00	9,860.53	9,893.38	9,864.29	36.29	31.19	-90.80	136.06	-1,535.48	2,135.81	2,089.07	46.74	45.696		
10,000.00	9,960.53	10,007.21	9,978.11	36.63	31.55	-90.79	136.72	-1,536.18	2,136.40	2,089.14	47.26	45.207		
10,100.00	10,060.53	10,103.10	10,074.01	36.97	31.87	-90.79	136.65	-1,536.63	2,136.88	2,089.15	47.73	44.773		
10,200.00	10,160.53	10,203.08	10,173.98	37.31	32.20	-90.82	135.40	-1,537.32	2,137.57	2,089.36	48.22	44.333		
10,300.00	10,260.53	10,326.61	10,297.49	37.65	32.63	-90.88	133.30	-1,537.51	2,137.78	2,089.00	48.78	43.822		
10,400.00	10,360.53	10,431.02	10,401.89	38.00	32.99	-90.89	132.65	-1,536.80	2,137.11	2,087.82	49.29	43.359		
10,500.00	10,460.53	10,519.00	10,489.87	38.34	33.28	-90.89	132.82	-1,536.42	2,136.68	2,086.95	49.74	42.959		
10,530.78	10,491.31	10,546.94	10,517.81	38.45	33.38	-90.89	132.98	-1,536.41	2,136.67	2,086.79	49.88	42.838		
10,600.00	10,560.53	10,611.70	10,582.56	38.68	33.59	-90.87	133.46	-1,536.49	2,136.74	2,086.54	50.20	42.568		
10,700.00	10,660.53	10,702.12	10,672.98	39.03	33.88	-90.84	134.55	-1,536.88	2,137.16	2,086.52	50.64	42.199		
10,800.00	10,760.53	10,785.45	10,756.29	39.37	34.14	-90.81	135.95	-1,537.75	2,138.18	2,087.11	51.07	41.867		
10,900.00	10,860.53	10,898.60	10,869.42	39.72	34.51	-90.76	137.79	-1,539.31	2,139.57	2,087.98	51.59	41.473		
11,000.00	10,960.53	11,017.81	10,988.62	40.06	34.90	-90.73	138.77	-1,539.66	2,139.83	2,087.71	52.13	41.050		
11,023.18	10,983.71	11,039.40	11,010.21	40.14	34.97	-90.73	138.81	-1,539.65	2,139.83	2,087.59	52.24	40.964		
11,100.00	11,060.53	11,113.35	11,084.16	40.41	35.22	-90.73	138.56	-1,539.73	2,139.91	2,087.31	52.60	40.680		
11,200.00	11,160.53	11,223.91	11,194.71	40.75	35.60	-90.75	137.84	-1,539.62	2,139.82	2,086.69	53.13	40.275		
11,300.00	11,260.53	11,331.60	11,302.40	41.10	35.98	-90.77	137.11	-1,538.95	2,139.20	2,085.55	53.65	39.874		
11,400.00	11,360.53	11,431.59	11,402.39	41.44	36.32	-90.79	136.43	-1,538.22	2,138.48	2,084.34	54.14	39.496		
11,500.00	11,460.53	11,532.68	11,503.47	41.79	36.68	-90.82	135.31	-1,537.48	2,137.76	2,083.12	54.64	39.121		
11,600.00	11,560.53	11,635.65	11,605.34	42.13	37.07	-91.20	121.38	-1,536.37	2,136.92	2,081.75	55.17	38.733		
11,700.00	11,660.53	11,730.83	11,695.91	42.48	37.46	-91.97	92.50	-1,534.94	2,136.22	2,080.53	55.69	38.356		
11,743.29	11,703.82	11,768.61	11,730.32	42.63	37.63	-92.39	76.94	-1,534.27	2,136.13	2,080.21	55.91	38.203		
11,800.00	11,760.53	11,814.60	11,770.71	42.83	37.83	-92.98	54.99	-1,533.39	2,136.33	2,080.14	56.19	38.018		
11,846.51	11,807.04	11,850.00	11,800.52	42.99	37.99	-93.49	35.92	-1,532.65	2,136.87	2,080.46	56.41	37.880		
11,850.00	11,810.53	11,850.00	11,800.52	43.00	37.99	93.40	35.92	-1,532.65	2,136.93	2,080.51	56.42	37.877		
11,900.00	11,860.45	11,887.21	11,830.52	43.16	38.17	92.73	13.95	-1,531.84	2,138.12	2,081.49	56.64	37.750		
11,950.00	11,909.97	11,921.79	11,857.08	43.31	38.34	92.05	-8.19	-1,531.05	2,140.01	2,083.16	56.84	37.646		
12,000.00	11,958.70	11,955.70	11,881.77	43.46	38.50	91.34	-31.40	-1,530.24	2,142.53	2,085.49	57.04	37.561		
12,050.00	12,006.28	11,989.01	11,904.65	43.61	38.67	90.60	-55.60	-1,529.41	2,145.64	2,088.41	57.23	37.491		
12,100.00	12,052.34	12,021.83	11,925.77	43.75	38.84	89.84	-80.69	-1,528.58	2,149.27	2,091.86	57.41	37.437		
12,150.00	12,096.54	12,050.00	11,942.74	43.87	38.99	89.11	-103.17	-1,527.84	2,153.37	2,095.81	57.56	37.410		
12,200.00	12,138.53	12,086.18	11,962.87	43.99	39.19	88.27	-133.21	-1,526.88	2,157.87	2,100.12	57.75	37.366		
12,250.00	12,178.00	12,116.84	11,978.41	44.10	39.36	87.49	-159.62	-1,526.05	2,162.71	2,104.81	57.90	37.350		
12,300.00	12,214.64	12,150.00	11,993.61	44.21	39.55	86.68	-189.08	-1,525.20	2,167.88	2,109.81	58.07	37.331		
12,350.00	12,248.19	12,174.20	12,003.61	44.30	39.69	85.95	-211.10	-1,524.61	2,173.30	2,115.11	58.19	37.348		
12,400.00	12,278.37	12,200.00	12,013.24	44.39	39.84	85.21	-235.03	-1,524.02	2,178.94	2,120.62	58.32	37.362		
12,450.00	12,304.97	12,231.06	12,023.39	44.48	40.02	84.45	-264.37	-1,523.37	2,184.71	2,126.23	58.48	37.358		
12,500.00	12,327.78	12,250.00	12,028.79	44.58	40.14	83.77	-282.52	-1,523.00	2,190.60	2,132.02	58.58	37.395		
12,550.00	12,346.63	12,287.56	12,037.72	44.68	40.36	83.04	-318.98	-1,522.33	2,196.43	2,137.65	58.79	37.361		
12,600.00	12,361.37	12,315.70	12,042.84	44.79	40.54	82.39	-346.66	-1,521.88	2,202.27	2,143.32	58.95	37.356		
12,650.00	12,371.89	12,350.00	12,047.23	44.91	40.75	81.76	-380.66	-1,521.41	2,208.04	2,148.88	59.16	37.324		
12,700.00	12,378.11	12,371.88	12,048.96	45.04	40.89	81.19	-402.47	-1,521.16	2,213.64	2,154.34	59.31	37.325		
12,746.51	12,380.00	12,400.00	12,049.97	45.17	41.06	80.70	-430.57	-1,520.87	2,218.71	2,159.22	59.49	37.293		
12,800.00	12,380.00	12,444.63	12,050.00	45.34	41.35	80.74	-475.20	-1,520.48	2,224.08	2,164.29	59.79	37.200		
12,900.00	12,380.00	12,544.34	12,050.00	45.69	42.02	80.79	-574.91	-1,519.60	2,231.53	2,171.06	60.47	36.904		
13,000.00	12,380.00	12,644.25	12,050.00	46.08	42.75	80.82	-674.81	-1,518.73	2,235.54	2,174.31	61.23	36.512		
13,063.21	12,380.00	12,707.46	12,050.00	46.35	43.23	80.83	-738.01	-1,518.17	2,236.30	2,174.56	61.74	36.220		
13,100.00	12,380.00	12,744.25	12,050.00	46.52	43.52	80.83	-774.80	-1,517.85	2,236.34	2,174.28	62.06	36.036		
13,200.00	12,380.00	12,844.25	12,050.00	47.00	44.35	80.83	-874.80	-1,516.98	2,236.45	2,173.49	62.96	35.520		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 112-OWSG (Rev2) MWD, 1409-OWSG (Rev2) MWD, 11286-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		
13,300.00	12,380.00	12,944.25	12,050.00	47.54	45.21	80.83	-974.80	-1,516.10	2,236.56	2,172.62	63.94	34.980		
13,400.00	12,380.00	13,044.25	12,050.00	48.13	46.13	80.83	-1,074.79	-1,515.22	2,236.67	2,171.69	64.98	34.420		
13,500.00	12,380.00	13,144.25	12,050.00	48.77	47.08	80.83	-1,174.79	-1,514.35	2,236.78	2,170.69	66.09	33.845		
13,600.00	12,380.00	13,244.25	12,050.00	49.45	48.07	80.83	-1,274.78	-1,513.47	2,236.89	2,169.63	67.26	33.259		
13,700.00	12,380.00	13,344.25	12,050.00	50.18	49.09	80.83	-1,374.78	-1,512.60	2,237.00	2,168.52	68.48	32.665		
13,800.00	12,380.00	13,444.25	12,050.00	50.95	50.15	80.83	-1,474.78	-1,511.72	2,237.11	2,167.35	69.76	32.067		
13,900.00	12,380.00	13,544.25	12,050.00	51.77	51.24	80.83	-1,574.77	-1,510.84	2,237.22	2,166.13	71.10	31.467		
14,000.00	12,380.00	13,644.25	12,050.00	52.62	52.36	80.83	-1,674.77	-1,509.97	2,237.33	2,164.85	72.48	30.869		
14,100.00	12,380.00	13,744.25	12,050.00	53.51	53.50	80.83	-1,774.77	-1,509.09	2,237.44	2,163.54	73.91	30.273		
14,200.00	12,380.00	13,844.25	12,050.00	54.44	54.68	80.83	-1,874.76	-1,508.22	2,237.55	2,162.17	75.38	29.683		
14,300.00	12,380.00	13,944.25	12,050.00	55.40	55.87	80.83	-1,974.76	-1,507.34	2,237.66	2,160.77	76.90	29.100		
14,400.00	12,380.00	14,044.25	12,050.00	56.39	57.09	80.83	-2,074.75	-1,506.46	2,237.78	2,159.33	78.45	28.526		
14,500.00	12,380.00	14,144.25	12,050.00	57.41	58.33	80.83	-2,174.75	-1,505.59	2,237.89	2,157.85	80.04	27.961		
14,600.00	12,380.00	14,244.25	12,050.00	58.46	59.59	80.83	-2,274.75	-1,504.71	2,238.00	2,156.34	81.66	27.406		
14,700.00	12,380.00	14,344.25	12,050.00	59.54	60.87	80.83	-2,374.74	-1,503.83	2,238.11	2,154.79	83.32	26.863		
14,800.00	12,380.00	14,444.25	12,050.00	60.64	62.17	80.84	-2,474.74	-1,502.96	2,238.22	2,153.21	85.00	26.331		
14,900.00	12,380.00	14,544.25	12,050.00	61.77	63.48	80.84	-2,574.73	-1,502.08	2,238.33	2,151.61	86.72	25.812		
15,000.00	12,380.00	14,644.25	12,050.00	62.92	64.81	80.84	-2,674.73	-1,501.21	2,238.44	2,149.98	88.46	25.305		
15,100.00	12,380.00	14,744.25	12,050.00	64.09	66.15	80.84	-2,774.73	-1,500.33	2,238.55	2,148.32	90.23	24.810		
15,200.00	12,380.00	14,844.25	12,050.00	65.28	67.51	80.84	-2,874.72	-1,499.45	2,238.66	2,146.64	92.02	24.328		
15,300.00	12,380.00	14,944.25	12,050.00	66.50	68.88	80.84	-2,974.72	-1,498.58	2,238.77	2,144.94	93.83	23.859		
15,400.00	12,380.00	15,044.25	12,050.00	67.73	70.26	80.84	-3,074.71	-1,497.70	2,238.88	2,143.21	95.67	23.402		
15,500.00	12,380.00	15,144.25	12,050.00	68.98	71.65	80.84	-3,174.71	-1,496.83	2,238.99	2,141.46	97.53	22.958		
15,600.00	12,380.00	15,244.25	12,050.00	70.24	73.06	80.84	-3,274.71	-1,495.95	2,239.10	2,139.70	99.40	22.526		
15,700.00	12,380.00	15,344.25	12,050.00	71.52	74.47	80.84	-3,374.70	-1,495.07	2,239.21	2,137.92	101.29	22.106		
15,800.00	12,380.00	15,444.25	12,050.00	72.82	75.89	80.84	-3,474.70	-1,494.20	2,239.32	2,136.12	103.20	21.698		
15,900.00	12,380.00	15,544.25	12,050.00	74.13	77.33	80.84	-3,574.70	-1,493.32	2,239.43	2,134.30	105.13	21.302		
16,000.00	12,380.00	15,644.25	12,050.00	75.46	78.77	80.84	-3,674.69	-1,492.45	2,239.54	2,132.47	107.07	20.916		
16,100.00	12,380.00	15,744.25	12,050.00	76.79	80.22	80.84	-3,774.69	-1,491.57	2,239.65	2,130.62	109.03	20.542		
16,200.00	12,380.00	15,844.25	12,050.00	78.14	81.67	80.84	-3,874.68	-1,490.69	2,239.76	2,128.77	111.00	20.179		
16,300.00	12,380.00	15,944.25	12,050.00	79.50	83.14	80.84	-3,974.68	-1,489.82	2,239.87	2,126.89	112.98	19.826		
16,400.00	12,380.00	16,044.25	12,050.00	80.87	84.61	80.84	-4,074.68	-1,488.94	2,239.98	2,125.01	114.97	19.483		
16,500.00	12,380.00	16,144.25	12,050.00	82.25	86.09	80.84	-4,174.67	-1,488.07	2,240.09	2,123.11	116.98	19.149		
16,600.00	12,380.00	16,244.25	12,050.00	83.64	87.57	80.84	-4,274.67	-1,487.19	2,240.20	2,121.21	119.00	18.826		
16,700.00	12,380.00	16,344.25	12,050.00	85.04	89.06	80.84	-4,374.66	-1,486.31	2,240.31	2,119.29	121.03	18.511		
16,800.00	12,380.00	16,444.25	12,050.00	86.45	90.55	80.84	-4,474.66	-1,485.44	2,240.43	2,117.36	123.06	18.206		
16,900.00	12,380.00	16,544.25	12,050.00	87.87	92.05	80.84	-4,574.66	-1,484.56	2,240.54	2,115.43	125.11	17.908		
17,000.00	12,380.00	16,644.25	12,050.00	89.30	93.56	80.85	-4,674.65	-1,483.69	2,240.65	2,113.48	127.17	17.620		
17,100.00	12,380.00	16,744.25	12,050.00	90.73	95.07	80.85	-4,774.65	-1,482.81	2,240.76	2,111.53	129.23	17.339		
17,200.00	12,380.00	16,844.25	12,050.00	92.17	96.58	80.85	-4,874.64	-1,481.93	2,240.87	2,109.56	131.30	17.066		
17,300.00	12,380.00	16,944.25	12,050.00	93.62	98.10	80.85	-4,974.64	-1,481.06	2,240.98	2,107.59	133.38	16.801		
17,400.00	12,380.00	17,044.25	12,050.00	95.07	99.63	80.85	-5,074.64	-1,480.18	2,241.09	2,105.62	135.47	16.543		
17,500.00	12,380.00	17,144.25	12,050.00	96.53	101.16	80.85	-5,174.63	-1,479.30	2,241.20	2,103.63	137.57	16.292		
17,600.00	12,380.00	17,244.25	12,050.00	98.00	102.69	80.85	-5,274.63	-1,478.43	2,241.31	2,101.64	139.67	16.048		
17,700.00	12,380.00	17,344.25	12,050.00	99.47	104.22	80.85	-5,374.62	-1,477.55	2,241.42	2,099.64	141.77	15.810		
17,800.00	12,380.00	17,444.25	12,050.00	100.95	105.76	80.85	-5,474.62	-1,476.68	2,241.53	2,097.64	143.89	15.578		
17,900.00	12,380.00	17,544.25	12,050.00	102.43	107.30	80.85	-5,574.62	-1,475.80	2,241.64	2,095.63	146.01	15.353		
18,000.00	12,380.00	17,644.25	12,050.00	103.92	108.85	80.85	-5,674.61	-1,474.92	2,241.75	2,093.62	148.13	15.133		
18,100.00	12,380.00	17,744.25	12,050.00	105.41	110.40	80.85	-5,774.61	-1,474.05	2,241.86	2,091.60	150.26	14.920		
18,200.00	12,380.00	17,844.25	12,050.00	106.91	111.95	80.85	-5,874.61	-1,473.17	2,241.97	2,089.57	152.40	14.711		
18,300.00	12,380.00	17,944.25	12,050.00	108.41	113.50	80.85	-5,974.60	-1,472.30	2,242.08	2,087.54	154.54	14.508		
18,400.00	12,380.00	18,044.24	12,050.00	109.92	115.06	80.85	-6,074.60	-1,471.42	2,242.19	2,085.51	156.69	14.310		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kaston Fed Com - Kaston Fed Com 703H - OH - Plan #9		Offset Site Error:	0.00 usft
Survey Program:													112-OWSG (Rev2) MWD, 1409-OWSG (Rev2) MWD, 11286-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				
18,500.00	12,380.00	18,144.24	12,050.00	111.43	116.62	80.85	-6,174.59	-1,470.54	2,242.30	2,083.47	158.84	14.117				
18,600.00	12,380.00	18,244.24	12,050.00	112.94	118.18	80.85	-6,274.59	-1,469.67	2,242.41	2,081.42	160.99	13.929				
18,700.00	12,380.00	18,344.24	12,050.00	114.46	119.74	80.85	-6,374.59	-1,468.79	2,242.52	2,079.37	163.15	13.745				
18,800.00	12,380.00	18,444.24	12,050.00	115.98	121.31	80.85	-6,474.58	-1,467.92	2,242.63	2,077.32	165.31	13.566				
18,900.00	12,380.00	18,544.24	12,050.00	117.51	122.88	80.85	-6,574.58	-1,467.04	2,242.74	2,075.26	167.48	13.391				
19,000.00	12,380.00	18,644.24	12,050.00	119.04	124.45	80.85	-6,674.57	-1,466.16	2,242.85	2,073.20	169.65	13.220				
19,100.00	12,380.00	18,744.24	12,050.00	120.57	126.02	80.85	-6,774.57	-1,465.29	2,242.97	2,071.14	171.82	13.054				
19,200.00	12,380.00	18,844.24	12,050.00	122.11	127.60	80.86	-6,874.57	-1,464.41	2,243.08	2,069.07	174.00	12.891				
19,300.00	12,380.00	18,944.24	12,050.00	123.64	129.17	80.86	-6,974.56	-1,463.54	2,243.19	2,067.00	176.18	12.732				
19,400.00	12,380.00	19,044.24	12,050.00	125.18	130.75	80.86	-7,074.56	-1,462.66	2,243.30	2,064.93	178.37	12.577				
19,500.00	12,380.00	19,144.24	12,050.00	126.73	132.33	80.86	-7,174.55	-1,461.78	2,243.41	2,062.85	180.56	12.425				
19,600.00	12,380.00	19,244.24	12,050.00	128.27	133.91	80.86	-7,274.55	-1,460.91	2,243.52	2,060.77	182.75	12.277				
19,700.00	12,380.00	19,344.24	12,050.00	129.82	135.50	80.86	-7,374.55	-1,460.03	2,243.63	2,058.69	184.94	12.132				
19,800.00	12,380.00	19,444.24	12,050.00	131.38	137.08	80.86	-7,474.54	-1,459.15	2,243.74	2,056.60	187.14	11.990				
19,900.00	12,380.00	19,544.24	12,050.00	132.93	138.67	80.86	-7,574.54	-1,458.28	2,243.85	2,054.51	189.33	11.851				
20,000.00	12,380.00	19,644.24	12,050.00	134.49	140.26	80.86	-7,674.54	-1,457.40	2,243.96	2,052.42	191.54	11.716				
20,100.00	12,380.00	19,744.24	12,050.00	136.04	141.85	80.86	-7,774.53	-1,456.53	2,244.07	2,050.33	193.74	11.583				
20,200.00	12,380.00	19,844.24	12,050.00	137.61	143.44	80.86	-7,874.53	-1,455.65	2,244.18	2,048.23	195.95	11.453				
20,300.00	12,380.00	19,944.24	12,050.00	139.17	145.03	80.86	-7,974.52	-1,454.77	2,244.29	2,046.14	198.15	11.326				
20,400.00	12,380.00	20,044.24	12,050.00	140.73	146.63	80.86	-8,074.52	-1,453.90	2,244.40	2,044.04	200.36	11.202				
20,500.00	12,380.00	20,144.24	12,050.00	142.30	148.22	80.86	-8,174.52	-1,453.02	2,244.51	2,041.93	202.58	11.080				
20,600.00	12,380.00	20,244.24	12,050.00	143.87	149.82	80.86	-8,274.51	-1,452.15	2,244.62	2,039.83	204.79	10.961				
20,700.00	12,380.00	20,344.24	12,050.00	145.44	151.41	80.86	-8,374.51	-1,451.27	2,244.73	2,037.72	207.01	10.844				
20,800.00	12,380.00	20,444.24	12,050.00	147.01	153.01	80.86	-8,474.50	-1,450.39	2,244.84	2,035.62	209.23	10.729				
20,900.00	12,380.00	20,544.24	12,050.00	148.59	154.61	80.86	-8,574.50	-1,449.52	2,244.95	2,033.51	211.45	10.617				
21,000.00	12,380.00	20,644.24	12,050.00	150.16	156.21	80.86	-8,674.50	-1,448.64	2,245.06	2,031.40	213.67	10.507				
21,100.00	12,380.00	20,744.24	12,050.00	151.74	157.82	80.86	-8,774.49	-1,447.77	2,245.17	2,029.28	215.89	10.400				
21,200.00	12,380.00	20,844.24	12,050.00	153.32	159.42	80.86	-8,874.49	-1,446.89	2,245.28	2,027.17	218.12	10.294				
21,300.00	12,380.00	20,944.24	12,050.00	154.90	161.02	80.86	-8,974.48	-1,446.01	2,245.39	2,025.05	220.34	10.190				
21,400.00	12,380.00	21,044.24	12,050.00	156.48	162.63	80.87	-9,074.48	-1,445.14	2,245.50	2,022.93	222.57	10.089				
21,500.00	12,380.00	21,144.24	12,050.00	158.06	164.23	80.87	-9,174.48	-1,444.26	2,245.62	2,020.81	224.80	9.989				
21,600.00	12,380.00	21,244.24	12,050.00	159.65	165.84	80.87	-9,274.47	-1,443.39	2,245.73	2,018.69	227.03	9.892				
21,700.00	12,380.00	21,344.24	12,050.00	161.23	167.45	80.87	-9,374.47	-1,442.51	2,245.84	2,016.57	229.27	9.796				
21,800.00	12,380.00	21,444.24	12,050.00	162.82	169.05	80.87	-9,474.47	-1,441.63	2,245.95	2,014.44	231.50	9.702				
21,900.00	12,380.00	21,544.24	12,050.00	164.41	170.66	80.87	-9,574.46	-1,440.76	2,246.06	2,012.32	233.74	9.609				
22,000.00	12,380.00	21,644.24	12,050.00	166.00	172.27	80.87	-9,674.46	-1,439.88	2,246.17	2,010.19	235.98	9.519				
22,100.00	12,380.00	21,744.24	12,050.00	167.59	173.88	80.87	-9,774.45	-1,439.00	2,246.28	2,008.06	238.22	9.430				
22,200.00	12,380.00	21,844.24	12,050.00	169.18	175.50	80.87	-9,874.45	-1,438.13	2,246.39	2,005.93	240.46	9.342				
22,300.00	12,380.00	21,944.24	12,050.00	170.77	177.11	80.87	-9,974.45	-1,437.25	2,246.50	2,003.80	242.70	9.256				
22,400.00	12,380.00	22,044.24	12,050.00	172.37	178.72	80.87	-10,074.44	-1,436.38	2,246.61	2,001.67	244.94	9.172				
22,500.00	12,380.00	22,144.24	12,050.00	173.96	180.33	80.87	-10,174.44	-1,435.50	2,246.72	1,999.53	247.19	9.089				
22,547.76	12,380.00	22,192.00	12,050.00	174.73	181.11	80.87	-10,222.19	-1,435.08	2,246.77	1,998.52	248.26	9.050				
22,548.65	12,380.00	22,192.90	12,050.00	174.75	181.12	80.87	-10,223.09	-1,435.07	2,246.77	1,998.50	248.27	9.050 SF				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	39.00	39.00	0.00	0.05	-83.52	424.97	-3,739.90	3,763.97					
100.00	100.00	139.00	139.00	0.13	0.27	-83.52	424.97	-3,739.90	3,763.97	3,763.68	0.29	N/A		
200.00	200.00	239.00	239.00	0.48	0.62	-83.52	424.97	-3,739.90	3,763.97	3,763.18	0.79	4,767.777		
300.00	300.00	339.00	339.00	0.84	0.98	-83.52	424.97	-3,739.90	3,763.97	3,762.68	1.29	2,908.824		
400.00	400.00	439.00	439.00	1.20	1.34	-83.52	424.97	-3,739.90	3,763.97	3,762.17	1.80	2,091.241		
500.00	500.00	539.00	539.00	1.56	1.70	-83.52	424.97	-3,739.90	3,763.97	3,761.66	2.31	1,632.086		
600.00	600.00	639.00	639.00	1.92	2.06	-83.52	424.97	-3,739.90	3,763.97	3,761.16	2.81	1,338.155		
700.00	700.00	739.00	739.00	2.28	2.42	-83.52	424.97	-3,739.90	3,763.97	3,760.65	3.32	1,133.898		
800.00	800.00	839.00	839.00	2.63	2.77	-83.52	424.97	-3,739.90	3,763.97	3,760.14	3.83	983.722		
900.00	900.00	939.00	939.00	2.99	3.13	-83.52	424.97	-3,739.90	3,763.97	3,759.64	4.33	868.663		
1,000.00	1,000.00	1,039.00	1,039.00	3.35	3.49	-83.52	424.97	-3,739.90	3,763.97	3,759.13	4.84	777.696		
1,100.00	1,100.00	1,139.00	1,139.00	3.71	3.85	-83.52	424.97	-3,739.90	3,763.97	3,758.62	5.35	703.972		
1,200.00	1,200.00	1,239.00	1,239.00	4.07	4.21	-83.52	424.97	-3,739.90	3,763.97	3,758.12	5.85	643.014		
1,300.00	1,300.00	1,339.00	1,339.00	4.43	4.57	-83.52	424.97	-3,739.90	3,763.97	3,757.61	6.36	591.771		
1,400.00	1,400.00	1,439.00	1,439.00	4.79	4.93	-83.52	424.97	-3,739.90	3,763.97	3,757.10	6.87	548.091		
1,500.00	1,500.00	1,539.00	1,539.00	5.14	5.28	-83.52	424.97	-3,739.90	3,763.97	3,756.60	7.37	510.415		
1,600.00	1,600.00	1,639.00	1,639.00	5.50	5.64	-83.52	424.97	-3,739.90	3,763.97	3,756.09	7.88	477.586		
1,700.00	1,700.00	1,739.00	1,739.00	5.86	6.00	-83.52	424.97	-3,739.90	3,763.97	3,755.58	8.39	448.724		
1,800.00	1,800.00	1,839.00	1,839.00	6.22	6.36	-83.52	424.97	-3,739.90	3,763.97	3,755.07	8.90	423.152		
1,900.00	1,900.00	1,939.00	1,939.00	6.58	6.72	-83.52	424.97	-3,739.90	3,763.97	3,754.57	9.40	400.337		
2,000.00	2,000.00	2,039.00	2,039.00	6.94	7.08	-83.52	424.97	-3,739.90	3,763.97	3,754.06	9.91	379.856		
2,100.00	2,100.00	2,139.00	2,139.00	7.29	7.43	-83.52	424.97	-3,739.90	3,763.97	3,753.55	10.42	361.369 CC, ES		
2,200.00	2,199.99	2,238.99	2,238.99	7.65	7.79	-158.05	424.97	-3,739.90	3,765.18	3,754.27	10.92	344.858		
2,300.00	2,299.91	2,338.91	2,338.91	7.99	8.15	-158.05	424.97	-3,739.90	3,768.83	3,757.41	11.42	330.131		
2,400.00	2,399.69	2,438.69	2,438.69	8.34	8.51	-158.06	424.97	-3,739.90	3,774.89	3,762.98	11.91	316.834		
2,500.00	2,499.27	2,538.27	2,538.27	8.70	8.87	-158.06	424.97	-3,739.90	3,783.39	3,770.97	12.41	304.801		
2,601.33	2,599.89	2,638.89	2,638.89	9.06	9.23	-158.07	424.97	-3,739.90	3,794.46	3,781.54	12.92	293.750		
2,700.00	2,697.71	2,736.71	2,736.71	9.42	9.58	-158.14	424.97	-3,739.90	3,806.46	3,793.05	13.41	283.881		
2,800.00	2,796.85	2,835.85	2,835.85	9.78	9.93	-158.21	424.97	-3,739.90	3,818.62	3,804.71	13.91	274.578		
2,900.00	2,895.99	2,934.99	2,934.99	10.15	10.29	-158.28	424.97	-3,739.90	3,830.79	3,816.38	14.41	265.897		
3,000.00	2,995.13	3,034.13	3,034.13	10.53	10.64	-158.36	424.97	-3,739.90	3,842.97	3,828.06	14.91	257.782		
3,100.00	3,094.27	3,133.27	3,133.27	10.90	11.00	-158.43	424.97	-3,739.90	3,855.15	3,839.74	15.41	250.180		
3,200.00	3,193.41	3,232.41	3,232.41	11.28	11.35	-158.50	424.97	-3,739.90	3,867.34	3,851.42	15.91	243.045		
3,300.00	3,292.55	3,331.55	3,331.55	11.67	11.71	-158.57	424.97	-3,739.90	3,879.53	3,863.11	16.42	236.336		
3,400.00	3,391.69	3,430.69	3,430.69	12.05	12.07	-158.64	424.97	-3,739.90	3,891.73	3,874.81	16.92	230.017		
3,500.00	3,490.83	3,529.83	3,529.83	12.44	12.42	-158.71	424.97	-3,739.90	3,903.93	3,886.51	17.42	224.057		
3,600.00	3,589.97	3,628.97	3,628.97	12.82	12.78	-158.78	424.97	-3,739.90	3,916.14	3,898.21	17.93	218.426		
3,700.00	3,689.11	3,720.00	3,720.00	13.21	13.10	-158.84	424.97	-3,739.90	3,928.37	3,909.96	18.41	213.345		
3,800.00	3,788.25	3,800.00	3,799.99	13.60	13.37	-158.91	424.20	-3,740.22	3,940.92	3,922.06	18.86	208.976		
3,900.00	3,887.39	3,878.70	3,878.65	13.99	13.63	-159.00	421.92	-3,741.15	3,954.05	3,934.76	19.29	204.975		
4,000.00	3,986.53	3,954.39	3,954.24	14.39	13.88	-159.11	418.32	-3,742.62	3,967.78	3,948.06	19.72	201.252		
4,100.00	4,085.67	4,029.66	4,029.32	14.78	14.12	-159.23	413.36	-3,744.65	3,982.10	3,961.96	20.14	197.724		
4,200.00	4,184.81	4,120.52	4,119.84	15.18	14.42	-159.40	406.10	-3,747.61	3,996.90	3,976.30	20.60	193.987		
4,300.00	4,283.95	4,218.59	4,217.54	15.57	14.74	-159.58	398.20	-3,750.84	4,011.76	3,990.67	21.09	190.238		
4,400.00	4,383.09	4,316.65	4,315.23	15.97	15.07	-159.76	390.29	-3,754.07	4,026.67	4,005.09	21.57	186.643		
4,500.00	4,482.23	4,414.72	4,412.92	16.37	15.40	-159.94	382.39	-3,757.30	4,041.61	4,019.55	22.06	183.192		
4,600.00	4,581.37	4,512.79	4,510.62	16.77	15.73	-160.12	374.48	-3,760.53	4,056.59	4,034.04	22.55	179.879		
4,700.00	4,680.51	4,610.85	4,608.31	17.17	16.06	-160.30	366.58	-3,763.76	4,071.62	4,048.57	23.04	176.696		
4,800.00	4,779.65	4,708.92	4,706.01	17.57	16.40	-160.48	358.67	-3,766.99	4,086.68	4,063.14	23.54	173.636		
4,900.00	4,878.79	4,806.99	4,803.70	17.97	16.74	-160.65	350.77	-3,770.22	4,101.78	4,077.75	24.03	170.694		
5,000.00	4,977.93	4,905.05	4,901.39	18.37	17.07	-160.82	342.86	-3,773.45	4,116.91	4,092.39	24.53	167.863		
5,100.00	5,077.07	5,003.12	4,999.09	18.77	17.41	-161.00	334.96	-3,776.68	4,132.09	4,107.06	25.02	165.138		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		
5,200.00	5,176.21	5,101.19	5,096.78	19.17	17.76	-161.17	327.05	-3,779.91	4,147.30	4,121.78	25.52	162.513		
5,300.00	5,275.35	5,199.25	5,194.48	19.57	18.10	-161.34	319.15	-3,783.14	4,162.54	4,136.52	26.02	159.983		
5,400.00	5,374.49	5,297.32	5,292.17	19.98	18.45	-161.51	311.24	-3,786.37	4,177.83	4,151.31	26.52	157.544		
5,500.00	5,473.63	5,395.39	5,389.87	20.38	18.79	-161.67	303.34	-3,789.60	4,193.14	4,166.13	27.02	155.190		
5,600.00	5,572.77	5,493.45	5,487.56	20.78	19.14	-161.84	295.43	-3,792.83	4,208.50	4,180.98	27.52	152.920		
5,700.00	5,671.91	5,591.52	5,585.25	21.19	19.49	-162.00	287.53	-3,796.06	4,223.89	4,195.86	28.02	150.727		
5,800.00	5,771.05	5,689.59	5,682.95	21.59	19.84	-162.17	279.62	-3,799.29	4,239.31	4,210.78	28.53	148.608		
5,900.00	5,870.19	5,787.65	5,780.64	22.00	20.19	-162.33	271.72	-3,802.52	4,254.77	4,225.74	29.03	146.561		
6,000.00	5,969.33	5,885.72	5,878.34	22.40	20.54	-162.49	263.82	-3,805.75	4,270.26	4,240.72	29.54	144.581		
6,100.00	6,068.47	5,983.79	5,976.03	22.81	20.89	-162.65	255.91	-3,808.98	4,285.78	4,255.74	30.04	142.665		
6,200.00	6,167.61	6,081.85	6,073.72	23.22	21.25	-162.81	248.01	-3,812.21	4,301.34	4,270.79	30.55	140.812		
6,300.00	6,266.75	6,179.92	6,171.42	23.62	21.60	-162.97	240.10	-3,815.44	4,316.93	4,285.88	31.05	139.017		
6,400.00	6,365.89	6,277.99	6,269.11	24.03	21.96	-163.13	232.20	-3,818.67	4,332.55	4,300.99	31.56	137.278		
6,500.00	6,465.03	6,376.05	6,366.81	24.44	22.31	-163.28	224.29	-3,821.90	4,348.20	4,316.14	32.07	135.593		
6,600.00	6,564.17	6,474.12	6,464.50	24.84	22.67	-163.44	216.39	-3,825.13	4,363.89	4,331.31	32.58	133.960		
6,700.00	6,663.31	6,572.19	6,562.20	25.25	23.03	-163.59	208.48	-3,828.36	4,379.61	4,346.52	33.08	132.376		
6,800.00	6,762.45	6,670.25	6,659.89	25.66	23.39	-163.74	200.58	-3,831.59	4,395.36	4,361.76	33.59	130.839		
6,856.14	6,818.11	6,725.31	6,714.73	25.89	23.59	-163.83	196.14	-3,833.40	4,404.21	4,370.33	33.88	129.996		
6,900.00	6,861.62	6,768.36	6,757.63	26.06	23.75	-163.92	192.67	-3,834.82	4,410.89	4,376.79	34.10	129.341		
7,000.00	6,961.05	6,866.85	6,855.74	26.46	24.11	-164.12	184.73	-3,838.06	4,424.37	4,389.75	34.61	127.828		
7,100.00	7,060.72	6,965.72	6,954.23	26.84	24.47	-164.30	176.76	-3,841.32	4,435.36	4,400.24	35.12	126.292		
7,200.00	7,160.57	7,064.90	7,053.04	27.20	24.84	-164.45	168.77	-3,844.58	4,443.87	4,408.25	35.63	124.734		
7,300.00	7,260.53	7,164.32	7,152.09	27.55	25.20	-164.59	160.75	-3,847.86	4,449.89	4,413.75	36.13	123.156		
7,357.47	7,318.00	7,221.55	7,209.10	27.74	25.41	-90.13	156.14	-3,849.74	4,452.21	4,415.79	36.42	122.244		
7,400.00	7,360.53	7,263.92	7,251.30	27.88	25.57	-90.17	152.72	-3,851.14	4,453.62	4,416.99	36.63	121.573		
7,500.00	7,460.53	7,363.54	7,350.54	28.21	25.94	-90.27	144.69	-3,854.42	4,456.96	4,419.83	37.13	120.025		
7,600.00	7,560.53	7,469.23	7,455.84	28.54	26.33	-90.38	136.20	-3,857.89	4,460.30	4,422.65	37.65	118.460		
7,700.00	7,660.53	7,561.07	7,537.33	28.87	26.99	-90.51	126.13	-3,862.00	4,462.62	4,424.23	38.39	116.254		
7,800.00	7,760.53	7,613.30	7,799.53	29.20	27.55	-90.54	123.83	-3,862.94	4,463.14	4,424.10	39.05	114.305		
7,900.00	7,860.53	7,713.30	7,899.53	29.53	27.89	-90.54	123.83	-3,862.94	4,463.14	4,423.61	39.53	112.898		
8,000.00	7,960.53	8,013.30	7,999.53	29.87	28.23	-90.54	123.83	-3,862.94	4,463.14	4,423.12	40.02	111.525		
8,100.00	8,060.53	8,113.30	8,099.53	30.20	28.58	-90.54	123.83	-3,862.94	4,463.14	4,422.63	40.51	110.183		
8,200.00	8,160.53	8,213.30	8,199.53	30.53	28.92	-90.54	123.83	-3,862.94	4,463.14	4,422.15	40.99	108.872		
8,300.00	8,260.53	8,313.30	8,299.53	30.87	29.26	-90.54	123.83	-3,862.94	4,463.14	4,421.66	41.48	107.590		
8,400.00	8,360.53	8,413.30	8,399.53	31.20	29.61	-90.54	123.83	-3,862.94	4,463.14	4,421.17	41.97	106.337		
8,500.00	8,460.53	8,513.30	8,499.53	31.54	29.95	-90.54	123.83	-3,862.94	4,463.14	4,420.68	42.46	105.112		
8,600.00	8,560.53	8,613.30	8,599.53	31.88	30.29	-90.54	123.83	-3,862.94	4,463.14	4,420.19	42.95	103.914		
8,700.00	8,660.53	8,713.30	8,699.53	32.21	30.64	-90.54	123.83	-3,862.94	4,463.14	4,419.70	43.44	102.742		
8,800.00	8,760.53	8,813.30	8,799.53	32.55	30.98	-90.54	123.83	-3,862.94	4,463.14	4,419.21	43.93	101.595		
8,900.00	8,860.53	8,913.30	8,899.53	32.89	31.33	-90.54	123.83	-3,862.94	4,463.14	4,418.72	44.42	100.472		
9,000.00	8,960.53	9,013.30	8,999.53	33.23	31.67	-90.54	123.83	-3,862.94	4,463.14	4,418.23	44.91	99.374		
9,100.00	9,060.53	9,113.30	9,099.53	33.56	32.02	-90.54	123.83	-3,862.94	4,463.14	4,417.74	45.40	98.298		
9,200.00	9,160.53	9,213.30	9,199.53	33.90	32.37	-90.54	123.83	-3,862.94	4,463.14	4,417.25	45.90	97.245		
9,300.00	9,260.53	9,313.30	9,299.53	34.24	32.71	-90.54	123.83	-3,862.94	4,463.14	4,416.75	46.39	96.213		
9,400.00	9,360.53	9,413.30	9,399.53	34.58	33.06	-90.54	123.83	-3,862.94	4,463.14	4,416.26	46.88	95.203		
9,500.00	9,460.53	9,513.30	9,499.53	34.92	33.40	-90.54	123.83	-3,862.94	4,463.14	4,415.77	47.37	94.212		
9,600.00	9,560.53	9,613.30	9,599.53	35.26	33.75	-90.54	123.83	-3,862.94	4,463.14	4,415.28	47.87	93.242		
9,700.00	9,660.53	9,713.30	9,699.53	35.60	34.10	-90.54	123.83	-3,862.94	4,463.14	4,414.78	48.36	92.291		
9,800.00	9,760.53	9,813.30	9,799.53	35.94	34.45	-90.54	123.83	-3,862.94	4,463.14	4,414.29	48.85	91.358		
9,900.00	9,860.53	9,913.30	9,899.53	36.29	34.79	-90.54	123.83	-3,862.94	4,463.14	4,413.79	49.35	90.444		
10,000.00	9,960.53	10,013.30	9,999.53	36.63	35.14	-90.54	123.83	-3,862.94	4,463.14	4,413.30	49.84	89.547		
10,100.00	10,060.53	10,113.30	10,099.53	36.97	35.49	-90.54	123.83	-3,862.94	4,463.14	4,412.81	50.34	88.668		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		
10,200.00	10,160.53	10,213.30	10,199.53	37.31	35.84	-90.54	123.83	-3,862.94	4,463.14	4,412.31	50.83	87.805		
10,300.00	10,260.53	10,313.30	10,299.53	37.65	36.19	-90.54	123.83	-3,862.94	4,463.14	4,411.82	51.33	86.958		
10,400.00	10,360.53	10,413.30	10,399.53	38.00	36.54	-90.54	123.83	-3,862.94	4,463.14	4,411.32	51.82	86.127		
10,500.00	10,460.53	10,513.30	10,499.53	38.34	36.88	-90.54	123.83	-3,862.94	4,463.14	4,410.83	52.32	85.312		
10,600.00	10,560.53	10,613.30	10,599.53	38.68	37.23	-90.54	123.83	-3,862.94	4,463.14	4,410.33	52.81	84.511		
10,700.00	10,660.53	10,713.30	10,699.53	39.03	37.58	-90.54	123.83	-3,862.94	4,463.14	4,409.83	53.31	83.725		
10,800.00	10,760.53	10,813.30	10,799.53	39.37	37.93	-90.54	123.83	-3,862.94	4,463.14	4,409.34	53.80	82.953		
10,900.00	10,860.53	10,913.30	10,899.53	39.72	38.28	-90.54	123.83	-3,862.94	4,463.14	4,408.84	54.30	82.195		
11,000.00	10,960.53	11,013.30	10,999.53	40.06	38.63	-90.54	123.83	-3,862.94	4,463.14	4,408.35	54.80	81.451		
11,100.00	11,060.53	11,113.30	11,099.53	40.41	38.98	-90.54	123.83	-3,862.94	4,463.14	4,407.85	55.29	80.719		
11,200.00	11,160.53	11,213.30	11,199.53	40.75	39.33	-90.54	123.83	-3,862.94	4,463.14	4,407.35	55.79	80.000		
11,300.00	11,260.53	11,313.30	11,299.53	41.10	39.68	-90.54	123.83	-3,862.94	4,463.14	4,406.86	56.29	79.294		
11,313.20	11,273.73	11,326.50	11,312.73	41.14	39.73	-90.54	123.83	-3,862.94	4,463.14	4,406.79	56.35	79.202		
11,400.00	11,360.53	11,413.24	11,399.47	41.44	40.03	-90.54	123.75	-3,862.94	4,463.14	4,406.36	56.78	78.600		
11,500.00	11,460.53	11,511.40	11,497.00	41.79	40.38	-90.67	113.75	-3,862.85	4,463.16	4,405.88	57.28	77.919		
11,600.00	11,560.53	11,603.60	11,585.81	42.13	40.73	-90.98	89.34	-3,862.64	4,463.32	4,405.55	57.77	77.258		
11,700.00	11,660.53	11,686.22	11,661.15	42.48	41.06	-91.42	55.61	-3,862.35	4,463.88	4,405.63	58.24	76.641		
11,800.00	11,760.53	11,757.80	11,721.93	42.83	41.35	-91.90	17.89	-3,862.02	4,465.15	4,406.46	58.69	76.085		
11,846.51	11,807.04	11,787.38	11,745.58	42.99	41.48	-92.13	0.15	-3,861.86	4,466.07	4,407.19	58.88	75.849		
11,850.00	11,810.53	11,789.51	11,747.25	43.00	41.48	94.75	-1.18	-3,861.85	4,466.15	4,407.26	58.90	75.832		
11,900.00	11,860.45	11,819.82	11,770.44	43.16	41.61	94.36	-20.70	-3,861.68	4,467.65	4,408.56	59.09	75.608		
11,950.00	11,909.97	11,850.00	11,792.47	43.31	41.75	93.93	-41.32	-3,861.50	4,469.76	4,410.47	59.28	75.401		
12,000.00	11,958.70	11,879.27	11,812.77	43.46	41.88	93.45	-62.40	-3,861.32	4,472.45	4,412.98	59.47	75.211		
12,050.00	12,006.28	11,908.52	11,831.95	43.61	42.01	92.94	-84.48	-3,861.12	4,475.68	4,416.03	59.65	75.038		
12,100.00	12,052.34	11,937.50	11,849.82	43.75	42.14	92.38	-107.29	-3,860.93	4,479.41	4,419.59	59.82	74.879		
12,150.00	12,096.54	11,966.26	11,866.39	43.87	42.27	91.80	-130.79	-3,860.72	4,483.59	4,423.60	60.00	74.732		
12,200.00	12,138.53	12,000.00	11,884.30	43.99	42.43	91.16	-159.38	-3,860.47	4,488.18	4,428.00	60.18	74.575		
12,250.00	12,178.00	12,023.22	11,895.63	44.10	42.55	90.55	-179.64	-3,860.29	4,493.11	4,432.78	60.33	74.472		
12,300.00	12,214.64	12,050.00	11,907.67	44.21	42.68	89.90	-203.56	-3,860.09	4,498.35	4,437.86	60.49	74.360		
12,350.00	12,248.19	12,079.58	11,919.66	44.30	42.82	89.23	-230.60	-3,859.85	4,503.84	4,443.17	60.67	74.239		
12,400.00	12,278.37	12,100.00	11,927.10	44.39	42.92	88.59	-249.61	-3,859.68	4,509.53	4,448.72	60.81	74.164		
12,450.00	12,304.97	12,135.51	11,938.43	44.48	43.10	87.89	-283.26	-3,859.39	4,515.33	4,454.33	61.00	74.017		
12,500.00	12,327.78	12,163.35	11,945.84	44.58	43.25	87.23	-310.10	-3,859.16	4,521.24	4,460.06	61.18	73.905		
12,550.00	12,346.63	12,200.00	11,953.59	44.68	43.44	86.56	-345.91	-3,858.84	4,527.20	4,465.81	61.39	73.749		
12,600.00	12,361.37	12,218.87	11,956.68	44.79	43.54	85.94	-364.52	-3,858.68	4,533.11	4,471.57	61.53	73.671		
12,650.00	12,371.89	12,250.00	11,960.44	44.91	43.70	85.32	-395.42	-3,858.41	4,538.97	4,477.24	61.73	73.531		
12,700.00	12,378.11	12,274.24	11,962.20	45.04	43.83	84.73	-419.59	-3,858.20	4,544.72	4,482.81	61.90	73.417		
12,746.51	12,380.00	12,301.89	11,962.97	45.17	43.97	84.21	-447.23	-3,857.96	4,549.92	4,487.83	62.09	73.282		
12,800.00	12,380.00	12,355.10	11,963.55	45.34	44.27	84.24	-500.43	-3,857.50	4,555.30	4,492.90	62.40	72.999		
12,900.00	12,380.00	12,454.80	11,964.62	45.69	44.86	84.28	-600.13	-3,856.63	4,562.71	4,499.66	63.04	72.373		
13,000.00	12,380.00	12,554.71	11,965.70	46.08	45.50	84.30	-700.02	-3,855.75	4,566.65	4,502.88	63.76	71.618		
13,063.21	12,380.00	12,617.91	11,966.39	46.35	45.92	84.31	-763.21	-3,855.20	4,567.35	4,503.09	64.25	71.083		
13,100.00	12,380.00	12,654.70	11,966.78	46.52	46.18	84.32	-800.00	-3,854.88	4,567.35	4,502.79	64.56	70.751		
13,200.00	12,380.00	12,754.69	11,967.87	47.00	46.92	84.33	-899.99	-3,854.01	4,567.36	4,501.93	65.42	69.814		
13,300.00	12,380.00	12,854.69	11,968.95	47.54	47.71	84.35	-999.97	-3,853.14	4,567.36	4,501.01	66.36	68.829		
13,400.00	12,380.00	12,954.68	11,970.03	48.13	48.53	84.36	-1,099.95	-3,852.27	4,567.37	4,500.01	67.36	67.804		
13,500.00	12,380.00	13,054.67	11,971.11	48.77	49.40	84.37	-1,199.94	-3,851.39	4,567.38	4,498.95	68.43	66.745		
13,600.00	12,380.00	13,154.67	11,972.19	49.45	50.31	84.39	-1,299.92	-3,850.52	4,567.39	4,497.83	69.56	65.661		
13,700.00	12,380.00	13,254.66	11,973.27	50.18	51.25	84.40	-1,399.91	-3,849.65	4,567.40	4,496.65	70.75	64.559		
13,800.00	12,380.00	13,354.66	11,974.35	50.95	52.23	84.41	-1,499.89	-3,848.78	4,567.41	4,495.42	71.99	63.443		
13,900.00	12,380.00	13,454.65	11,975.43	51.77	53.25	84.43	-1,599.88	-3,847.90	4,567.42	4,494.13	73.29	62.320		
14,000.00	12,380.00	13,554.65	11,976.51	52.62	54.29	84.44	-1,699.86	-3,847.03	4,567.43	4,492.79	74.64	61.196		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	12,380.00	13,654.64	11,977.59	53.51	55.36	84.45	-1,799.85	-3,846.16	4,567.44	4,491.41	76.03	60.073			
14,200.00	12,380.00	13,754.63	11,978.67	54.44	56.47	84.47	-1,899.83	-3,845.29	4,567.45	4,489.98	77.47	58.957			
14,300.00	12,380.00	13,854.63	11,979.75	55.40	57.59	84.48	-1,999.81	-3,844.41	4,567.46	4,488.51	78.95	57.851			
14,400.00	12,380.00	13,954.62	11,980.83	56.39	58.75	84.50	-2,099.80	-3,843.54	4,567.47	4,487.00	80.47	56.757			
14,500.00	12,380.00	14,054.62	11,981.91	57.41	59.92	84.51	-2,199.78	-3,842.67	4,567.48	4,485.45	82.03	55.677			
14,600.00	12,380.00	14,154.61	11,982.99	58.46	61.12	84.52	-2,299.77	-3,841.80	4,567.50	4,483.87	83.63	54.615			
14,700.00	12,380.00	14,254.60	11,984.08	59.54	62.34	84.54	-2,399.75	-3,840.93	4,567.51	4,482.25	85.26	53.571			
14,800.00	12,380.00	14,354.60	11,985.16	60.64	63.58	84.55	-2,499.74	-3,840.05	4,567.52	4,480.60	86.92	52.548			
14,900.00	12,380.00	14,454.59	11,986.24	61.77	64.83	84.56	-2,599.72	-3,839.18	4,567.53	4,478.92	88.61	51.545			
15,000.00	12,380.00	14,554.59	11,987.32	62.92	66.11	84.58	-2,699.71	-3,838.31	4,567.55	4,477.21	90.33	50.563			
15,100.00	12,380.00	14,654.58	11,988.40	64.09	67.40	84.59	-2,799.69	-3,837.44	4,567.56	4,475.48	92.08	49.604			
15,200.00	12,380.00	14,754.57	11,989.48	65.28	68.70	84.60	-2,899.67	-3,836.56	4,567.57	4,473.72	93.85	48.668			
15,300.00	12,380.00	14,854.57	11,990.56	66.50	70.02	84.62	-2,999.66	-3,835.69	4,567.59	4,471.94	95.65	47.754			
15,400.00	12,380.00	14,954.56	11,991.64	67.73	71.36	84.63	-3,099.64	-3,834.82	4,567.60	4,470.13	97.47	46.863			
15,500.00	12,380.00	15,054.56	11,992.72	68.98	72.71	84.65	-3,199.63	-3,833.95	4,567.61	4,468.31	99.31	45.995			
15,600.00	12,380.00	15,154.55	11,993.80	70.24	74.07	84.66	-3,299.61	-3,833.07	4,567.63	4,466.46	101.17	45.150			
15,700.00	12,380.00	15,254.54	11,994.88	71.52	75.44	84.67	-3,399.60	-3,832.20	4,567.64	4,464.60	103.04	44.327			
15,800.00	12,380.00	15,354.54	11,995.96	72.82	76.82	84.69	-3,499.58	-3,831.33	4,567.66	4,462.72	104.94	43.526			
15,900.00	12,380.00	15,454.53	11,997.04	74.13	78.21	84.70	-3,599.57	-3,830.46	4,567.67	4,460.82	106.86	42.746			
16,000.00	12,380.00	15,554.53	11,998.12	75.46	79.61	84.71	-3,699.55	-3,829.59	4,567.69	4,458.90	108.79	41.988			
16,100.00	12,380.00	15,654.52	11,999.21	76.79	81.03	84.73	-3,799.53	-3,828.71	4,567.70	4,456.97	110.73	41.250			
16,200.00	12,380.00	15,754.52	12,000.29	78.14	82.45	84.74	-3,899.52	-3,827.84	4,567.72	4,455.03	112.69	40.533			
16,300.00	12,380.00	15,854.51	12,001.37	79.50	83.88	84.75	-3,999.50	-3,826.97	4,567.73	4,453.07	114.67	39.835			
16,400.00	12,380.00	15,954.50	12,002.45	80.87	85.31	84.77	-4,099.49	-3,826.10	4,567.75	4,451.10	116.65	39.156			
16,500.00	12,380.00	16,054.50	12,003.53	82.25	86.76	84.78	-4,199.47	-3,825.22	4,567.77	4,449.11	118.65	38.497			
16,600.00	12,380.00	16,154.49	12,004.61	83.64	88.21	84.79	-4,299.46	-3,824.35	4,567.78	4,447.12	120.67	37.855			
16,700.00	12,380.00	16,254.49	12,005.69	85.04	89.67	84.81	-4,399.44	-3,823.48	4,567.80	4,445.11	122.69	37.231			
16,800.00	12,380.00	16,354.48	12,006.77	86.45	91.14	84.82	-4,499.43	-3,822.61	4,567.82	4,443.10	124.72	36.624			
16,900.00	12,380.00	16,454.47	12,007.85	87.87	92.61	84.84	-4,599.41	-3,821.73	4,567.84	4,441.07	126.77	36.033			
17,000.00	12,380.00	16,554.47	12,008.93	89.30	94.09	84.85	-4,699.39	-3,820.86	4,567.85	4,439.03	128.82	35.459			
17,100.00	12,380.00	16,654.46	12,010.01	90.73	95.57	84.86	-4,799.38	-3,819.99	4,567.87	4,436.99	130.89	34.900			
17,200.00	12,380.00	16,754.46	12,011.09	92.17	97.06	84.88	-4,899.36	-3,819.12	4,567.89	4,434.93	132.96	34.356			
17,300.00	12,380.00	16,854.45	12,012.17	93.62	98.55	84.89	-4,999.35	-3,818.25	4,567.91	4,432.87	135.04	33.827			
17,400.00	12,380.00	16,954.44	12,013.25	95.07	100.05	84.90	-5,099.33	-3,817.37	4,567.93	4,430.80	137.13	33.311			
17,500.00	12,380.00	17,054.44	12,014.34	96.53	101.56	84.92	-5,199.32	-3,816.50	4,567.95	4,428.72	139.22	32.810			
17,600.00	12,380.00	17,154.43	12,015.42	98.00	103.06	84.93	-5,299.30	-3,815.63	4,567.97	4,426.64	141.33	32.322			
17,700.00	12,380.00	17,254.43	12,016.50	99.47	104.58	84.94	-5,399.29	-3,814.76	4,567.99	4,424.55	143.44	31.846			
17,800.00	12,380.00	17,354.42	12,017.58	100.95	106.09	84.96	-5,499.27	-3,813.88	4,568.01	4,422.45	145.56	31.383			
17,900.00	12,380.00	17,454.41	12,018.66	102.43	107.61	84.97	-5,599.25	-3,813.01	4,568.03	4,420.34	147.68	30.931			
18,000.00	12,380.00	17,554.41	12,019.74	103.92	109.14	84.99	-5,699.24	-3,812.14	4,568.05	4,418.23	149.81	30.492			
18,100.00	12,380.00	17,654.40	12,020.82	105.41	110.67	85.00	-5,799.22	-3,811.27	4,568.07	4,416.12	151.95	30.063			
18,200.00	12,380.00	17,754.40	12,021.90	106.91	112.20	85.01	-5,899.21	-3,810.39	4,568.09	4,414.00	154.09	29.645			
18,300.00	12,380.00	17,854.39	12,022.98	108.41	113.73	85.03	-5,999.19	-3,809.52	4,568.11	4,411.87	156.24	29.238			
18,400.00	12,380.00	17,954.39	12,024.06	109.92	115.27	85.04	-6,099.18	-3,808.65	4,568.13	4,409.74	158.39	28.841			
18,500.00	12,380.00	18,054.38	12,025.14	111.43	116.81	85.05	-6,199.16	-3,807.78	4,568.15	4,407.60	160.55	28.453			
18,600.00	12,380.00	18,154.37	12,026.22	112.94	118.36	85.07	-6,299.15	-3,806.91	4,568.18	4,405.46	162.71	28.075			
18,700.00	12,380.00	18,254.37	12,027.30	114.46	119.90	85.08	-6,399.13	-3,806.03	4,568.20	4,403.32	164.88	27.706			
18,800.00	12,380.00	18,354.36	12,028.38	115.98	121.45	85.09	-6,499.11	-3,805.16	4,568.22	4,401.17	167.05	27.346			
18,900.00	12,380.00	18,454.36	12,029.47	117.51	123.01	85.11	-6,599.10	-3,804.29	4,568.24	4,399.02	169.23	26.995			
19,000.00	12,380.00	18,554.35	12,030.55	119.04	124.56	85.12	-6,699.08	-3,803.42	4,568.27	4,396.86	171.41	26.652			
19,100.00	12,380.00	18,654.34	12,031.63	120.57	126.12	85.14	-6,799.07	-3,802.54	4,568.29	4,394.70	173.59	26.316			
19,200.00	12,380.00	18,754.34	12,032.71	122.11	127.68	85.15	-6,899.05	-3,801.67	4,568.31	4,392.53	175.78	25.989			

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	12,380.00	18,854.33	12,033.79	123.64	129.24	85.16	-6,999.04	-3,800.80	4,568.34	4,390.37	177.97	25.669		
19,400.00	12,380.00	18,954.33	12,034.87	125.18	130.81	85.18	-7,099.02	-3,799.93	4,568.36	4,388.19	180.17	25.356		
19,500.00	12,380.00	19,054.32	12,035.95	126.73	132.37	85.19	-7,199.01	-3,799.05	4,568.39	4,386.02	182.36	25.051		
19,600.00	12,380.00	19,154.31	12,037.03	128.27	133.94	85.20	-7,298.99	-3,798.18	4,568.41	4,383.84	184.57	24.752		
19,700.00	12,380.00	19,254.31	12,038.11	129.82	135.51	85.22	-7,398.97	-3,797.31	4,568.43	4,381.66	186.77	24.460		
19,800.00	12,380.00	19,354.30	12,039.19	131.38	137.08	85.23	-7,498.96	-3,796.44	4,568.46	4,379.48	188.98	24.174		
19,900.00	12,380.00	19,454.30	12,040.27	132.93	138.66	85.24	-7,598.94	-3,795.57	4,568.49	4,377.29	191.19	23.895		
20,000.00	12,380.00	19,554.29	12,041.35	134.49	140.23	85.26	-7,698.93	-3,794.69	4,568.51	4,375.11	193.41	23.621		
20,100.00	12,380.00	19,654.28	12,042.43	136.04	141.81	85.27	-7,798.91	-3,793.82	4,568.54	4,372.91	195.62	23.354		
20,200.00	12,380.00	19,754.28	12,043.51	137.61	143.39	85.29	-7,898.90	-3,792.95	4,568.56	4,370.72	197.84	23.092		
20,300.00	12,380.00	19,854.27	12,044.60	139.17	144.97	85.30	-7,998.88	-3,792.08	4,568.59	4,368.53	200.06	22.836		
20,400.00	12,380.00	19,954.27	12,045.68	140.73	146.55	85.31	-8,098.87	-3,791.20	4,568.62	4,366.33	202.29	22.585		
20,500.00	12,380.00	20,054.26	12,046.76	142.30	148.14	85.33	-8,198.85	-3,790.33	4,568.64	4,364.13	204.52	22.339		
20,600.00	12,380.00	20,154.26	12,047.84	143.87	149.72	85.34	-8,298.83	-3,789.46	4,568.67	4,361.92	206.75	22.098		
20,700.00	12,380.00	20,254.25	12,048.92	145.44	151.31	85.35	-8,398.82	-3,788.59	4,568.70	4,359.72	208.98	21.862		
20,800.00	12,380.00	20,354.24	12,050.00	147.01	152.90	85.37	-8,498.80	-3,787.71	4,568.73	4,357.51	211.21	21.631		
20,900.00	12,380.00	20,454.24	12,051.08	148.59	154.49	85.38	-8,598.79	-3,786.84	4,568.75	4,355.31	213.45	21.405		
21,000.00	12,380.00	20,554.23	12,052.16	150.16	156.08	85.39	-8,698.77	-3,785.97	4,568.78	4,353.10	215.69	21.183		
21,100.00	12,380.00	20,654.23	12,053.24	151.74	157.67	85.41	-8,798.76	-3,785.10	4,568.81	4,350.88	217.93	20.965		
21,200.00	12,380.00	20,754.22	12,054.32	153.32	159.27	85.42	-8,898.74	-3,784.22	4,568.84	4,348.67	220.17	20.752		
21,300.00	12,380.00	20,854.21	12,055.40	154.90	160.86	85.44	-8,998.73	-3,783.35	4,568.87	4,346.45	222.41	20.542		
21,400.00	12,380.00	20,954.21	12,056.48	156.48	162.46	85.45	-9,098.71	-3,782.48	4,568.90	4,344.24	224.66	20.337		
21,500.00	12,380.00	21,054.20	12,057.56	158.06	164.05	85.46	-9,198.69	-3,781.61	4,568.93	4,342.02	226.91	20.136		
21,600.00	12,380.00	21,154.20	12,058.64	159.65	165.65	85.48	-9,298.68	-3,780.74	4,568.96	4,339.80	229.16	19.938		
21,700.00	12,380.00	21,254.19	12,059.73	161.23	167.25	85.49	-9,398.66	-3,779.86	4,568.99	4,337.58	231.41	19.744		
21,800.00	12,380.00	21,354.18	12,060.81	162.82	168.85	85.50	-9,498.65	-3,778.99	4,569.02	4,335.35	233.66	19.554		
21,900.00	12,380.00	21,454.18	12,061.89	164.41	170.45	85.52	-9,598.63	-3,778.12	4,569.05	4,333.13	235.92	19.367		
22,000.00	12,380.00	21,554.17	12,062.97	166.00	172.05	85.53	-9,698.62	-3,777.25	4,569.08	4,330.91	238.17	19.184		
22,100.00	12,380.00	21,654.17	12,064.05	167.59	173.65	85.54	-9,798.60	-3,776.37	4,569.11	4,328.68	240.43	19.004		
22,200.00	12,380.00	21,754.16	12,065.13	169.18	175.26	85.56	-9,898.59	-3,775.50	4,569.14	4,326.45	242.69	18.827		
22,300.00	12,380.00	21,854.16	12,066.21	170.77	176.86	85.57	-9,998.57	-3,774.63	4,569.17	4,324.22	244.95	18.653		
22,400.00	12,380.00	21,954.15	12,067.29	172.37	178.47	85.59	-10,098.55	-3,773.76	4,569.20	4,321.99	247.21	18.483		
22,500.00	12,380.00	22,054.14	12,068.37	173.96	180.07	85.60	-10,198.54	-3,772.88	4,569.24	4,319.76	249.48	18.315		
22,547.76	12,380.00	22,101.01	12,068.88	174.73	180.83	85.61	-10,245.40	-3,772.48	4,569.25	4,318.71	250.55	18.237		
22,548.65	12,380.00	22,101.01	12,068.88	174.75	180.83	85.61	-10,245.40	-3,772.48	4,569.25	4,318.70	250.55	18.237 SF		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	39.00	39.00	0.00	0.05	-83.45	425.29	-3,704.91	3,729.24					
100.00	100.00	139.00	139.00	0.13	0.27	-83.45	425.29	-3,704.91	3,729.24	3,728.95	0.29	N/A		
200.00	200.00	239.00	239.00	0.48	0.62	-83.45	425.29	-3,704.91	3,729.24	3,728.45	0.79	4,723.788		
300.00	300.00	339.00	339.00	0.84	0.98	-83.45	425.29	-3,704.91	3,729.24	3,727.95	1.29	2,881.986		
400.00	400.00	439.00	439.00	1.20	1.34	-83.45	425.29	-3,704.91	3,729.24	3,727.44	1.80	2,071.947		
500.00	500.00	539.00	539.00	1.56	1.70	-83.45	425.29	-3,704.91	3,729.24	3,726.94	2.31	1,617.028		
600.00	600.00	639.00	639.00	1.92	2.06	-83.45	425.29	-3,704.91	3,729.24	3,726.43	2.81	1,325.809		
700.00	700.00	739.00	739.00	2.28	2.42	-83.45	425.29	-3,704.91	3,729.24	3,725.92	3.32	1,123.437		
800.00	800.00	839.00	839.00	2.63	2.77	-83.45	425.29	-3,704.91	3,729.24	3,725.42	3.83	974.645		
900.00	900.00	939.00	939.00	2.99	3.13	-83.45	425.29	-3,704.91	3,729.24	3,724.91	4.33	860.648		
1,000.00	1,000.00	1,039.00	1,039.00	3.35	3.49	-83.45	425.29	-3,704.91	3,729.24	3,724.40	4.84	770.521		
1,100.00	1,100.00	1,139.00	1,139.00	3.71	3.85	-83.45	425.29	-3,704.91	3,729.24	3,723.90	5.35	697.477		
1,200.00	1,200.00	1,239.00	1,239.00	4.07	4.21	-83.45	425.29	-3,704.91	3,729.24	3,723.39	5.85	637.082		
1,300.00	1,300.00	1,339.00	1,339.00	4.43	4.57	-83.45	425.29	-3,704.91	3,729.24	3,722.88	6.36	586.311		
1,400.00	1,400.00	1,439.00	1,439.00	4.79	4.93	-83.45	425.29	-3,704.91	3,729.24	3,722.37	6.87	543.034		
1,500.00	1,500.00	1,539.00	1,539.00	5.14	5.28	-83.45	425.29	-3,704.91	3,729.24	3,721.87	7.37	505.706		
1,600.00	1,600.00	1,639.00	1,639.00	5.50	5.64	-83.45	425.29	-3,704.91	3,729.24	3,721.36	7.88	473.180		
1,700.00	1,700.00	1,739.00	1,739.00	5.86	6.00	-83.45	425.29	-3,704.91	3,729.24	3,720.85	8.39	444.584		
1,800.00	1,800.00	1,839.00	1,839.00	6.22	6.36	-83.45	425.29	-3,704.91	3,729.24	3,720.35	8.90	419.248		
1,900.00	1,900.00	1,939.00	1,939.00	6.58	6.72	-83.45	425.29	-3,704.91	3,729.24	3,719.84	9.40	396.643		
2,000.00	2,000.00	2,039.00	2,039.00	6.94	7.08	-83.45	425.29	-3,704.91	3,729.24	3,719.33	9.91	376.351		
2,100.00	2,100.00	2,139.00	2,139.00	7.29	7.43	-83.45	425.29	-3,704.91	3,729.24	3,718.83	10.42	358.035 CC, ES		
2,200.00	2,199.99	2,238.99	2,238.99	7.65	7.79	-157.99	425.29	-3,704.91	3,730.46	3,719.54	10.92	341.677		
2,300.00	2,299.91	2,338.91	2,338.91	7.99	8.15	-157.99	425.29	-3,704.91	3,734.10	3,722.68	11.42	327.089		
2,400.00	2,399.69	2,438.69	2,438.69	8.34	8.51	-157.99	425.29	-3,704.91	3,740.16	3,728.25	11.91	313.919		
2,500.00	2,499.27	2,538.27	2,538.27	8.70	8.87	-158.00	425.29	-3,704.91	3,748.65	3,736.24	12.41	302.002		
2,601.33	2,599.89	2,638.89	2,638.89	9.06	9.23	-158.00	425.29	-3,704.91	3,759.72	3,746.80	12.92	291.061		
2,700.00	2,697.71	2,780.05	2,780.05	9.42	9.72	-158.12	424.54	-3,704.53	3,771.50	3,757.99	13.51	279.171		
2,800.00	2,796.85	2,980.10	2,979.85	9.78	10.38	-158.39	416.16	-3,700.27	3,781.02	3,766.80	14.22	265.906		
2,900.00	2,895.99	3,079.18	3,078.69	10.15	10.70	-158.55	410.01	-3,697.14	3,789.42	3,774.72	14.70	257.805		
3,000.00	2,995.13	3,178.26	3,177.53	10.53	11.03	-158.71	403.85	-3,694.00	3,797.85	3,782.67	15.18	250.169		
3,100.00	3,094.27	3,277.35	3,276.37	10.90	11.37	-158.87	397.69	-3,690.87	3,806.31	3,790.65	15.67	242.963		
3,200.00	3,193.41	3,376.43	3,375.21	11.28	11.70	-159.02	391.54	-3,687.74	3,814.80	3,798.65	16.15	236.155		
3,300.00	3,292.55	3,475.51	3,474.05	11.67	12.04	-159.18	385.38	-3,684.61	3,823.32	3,806.68	16.64	229.716		
3,400.00	3,391.69	3,574.59	3,572.89	12.05	12.38	-159.34	379.23	-3,681.48	3,831.87	3,814.74	17.14	223.621		
3,500.00	3,490.83	3,673.67	3,671.73	12.44	12.72	-159.49	373.07	-3,678.34	3,840.45	3,822.82	17.63	217.843		
3,600.00	3,589.97	3,772.75	3,770.57	12.82	13.06	-159.65	366.91	-3,675.21	3,849.06	3,830.93	18.12	212.362		
3,700.00	3,689.11	3,871.83	3,869.41	13.21	13.41	-159.80	360.76	-3,672.08	3,857.69	3,839.07	18.62	207.156		
3,800.00	3,788.25	3,970.91	3,968.25	13.60	13.75	-159.96	354.60	-3,668.95	3,866.35	3,847.23	19.12	202.207		
3,900.00	3,887.39	4,069.99	4,067.09	13.99	14.10	-160.11	348.44	-3,665.81	3,875.04	3,855.42	19.62	197.498		
4,000.00	3,986.53	4,169.07	4,165.93	14.39	14.45	-160.26	342.29	-3,662.68	3,883.76	3,863.64	20.12	193.011		
4,100.00	4,085.67	4,268.15	4,264.77	14.78	14.80	-160.41	336.13	-3,659.55	3,892.50	3,871.88	20.62	188.734		
4,200.00	4,184.81	4,367.23	4,363.61	15.18	15.15	-160.57	329.98	-3,656.42	3,901.28	3,880.15	21.13	184.652		
4,300.00	4,283.95	4,466.31	4,462.45	15.57	15.50	-160.72	323.82	-3,653.29	3,910.08	3,888.44	21.63	180.753		
4,400.00	4,383.09	4,565.39	4,561.29	15.97	15.86	-160.87	317.66	-3,650.15	3,918.90	3,896.77	22.14	177.026		
4,500.00	4,482.23	4,664.47	4,660.13	16.37	16.21	-161.02	311.51	-3,647.02	3,927.76	3,905.11	22.64	173.459		
4,600.00	4,581.37	4,763.55	4,758.97	16.77	16.57	-161.16	305.35	-3,643.89	3,936.64	3,913.49	23.15	170.044		
4,700.00	4,680.51	4,862.64	4,857.81	17.17	16.92	-161.31	299.19	-3,640.76	3,945.54	3,921.88	23.66	166.771		
4,800.00	4,779.65	4,961.72	4,956.65	17.57	17.28	-161.46	293.04	-3,637.62	3,954.48	3,930.31	24.17	163.632		
4,900.00	4,878.79	5,060.80	5,055.49	17.97	17.64	-161.61	286.88	-3,634.49	3,963.43	3,938.76	24.68	160.619		
5,000.00	4,977.93	5,159.88	5,154.32	18.37	17.99	-161.75	280.73	-3,631.36	3,972.42	3,947.23	25.19	157.726		
5,100.00	5,077.07	5,258.96	5,253.16	18.77	18.35	-161.90	274.57	-3,628.23	3,981.43	3,955.73	25.70	154.944		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		
5,200.00	5,176.21	5,358.04	5,352.00	19.17	18.71	-162.04	268.41	-3,625.10	3,990.46	3,964.26	26.21	152.269		
5,300.00	5,275.35	5,457.12	5,450.84	19.57	19.07	-162.19	262.26	-3,621.96	3,999.53	3,972.81	26.72	149.694		
5,400.00	5,374.49	5,556.20	5,549.68	19.98	19.43	-162.33	256.10	-3,618.83	4,008.61	3,981.38	27.23	147.214		
5,500.00	5,473.63	5,655.28	5,648.52	20.38	19.79	-162.47	249.94	-3,615.70	4,017.72	3,989.98	27.74	144.824		
5,600.00	5,572.77	5,754.36	5,747.36	20.78	20.15	-162.61	243.79	-3,612.57	4,026.86	3,998.60	28.25	142.520		
5,700.00	5,671.91	5,853.44	5,846.20	21.19	20.52	-162.75	237.63	-3,609.44	4,036.02	4,007.25	28.77	140.297		
5,800.00	5,771.05	5,952.52	5,945.04	21.59	20.88	-162.90	231.47	-3,606.30	4,045.20	4,015.92	29.28	138.150		
5,900.00	5,870.19	6,051.60	6,043.88	22.00	21.24	-163.04	225.32	-3,603.17	4,054.41	4,024.62	29.80	136.077		
6,000.00	5,969.33	6,150.68	6,142.72	22.40	21.60	-163.18	219.16	-3,600.04	4,063.65	4,033.34	30.31	134.073		
6,100.00	6,068.47	6,249.76	6,241.56	22.81	21.97	-163.31	213.01	-3,596.91	4,072.91	4,042.08	30.82	132.136		
6,200.00	6,167.61	6,348.84	6,340.40	23.22	22.33	-163.45	206.85	-3,593.77	4,082.19	4,050.85	31.34	130.262		
6,300.00	6,266.75	6,447.93	6,439.24	23.62	22.69	-163.59	200.69	-3,590.64	4,091.49	4,059.64	31.85	128.447		
6,400.00	6,365.89	6,547.01	6,538.08	24.03	23.06	-163.73	194.54	-3,587.51	4,100.82	4,068.45	32.37	126.691		
6,500.00	6,465.03	6,646.09	6,636.92	24.44	23.42	-163.86	188.38	-3,584.38	4,110.17	4,077.29	32.88	124.989		
6,600.00	6,564.17	6,745.17	6,735.76	24.84	23.79	-164.00	182.22	-3,581.25	4,119.55	4,086.15	33.40	123.339		
6,700.00	6,663.31	6,844.25	6,834.60	25.25	24.15	-164.13	176.07	-3,578.11	4,128.95	4,095.03	33.92	121.739		
6,800.00	6,762.45	6,943.33	6,933.44	25.66	24.52	-164.27	169.91	-3,574.98	4,138.37	4,103.94	34.43	120.187		
6,856.14	6,818.11	6,998.95	6,988.92	25.89	24.72	-164.34	166.46	-3,573.22	4,143.67	4,108.94	34.72	119.336		
6,900.00	6,861.62	7,042.44	7,032.30	26.06	24.88	-164.42	163.75	-3,571.85	4,147.57	4,112.62	34.95	118.675		
7,000.00	6,961.05	7,141.77	7,131.40	26.46	25.25	-164.57	157.58	-3,568.71	4,154.68	4,119.21	35.46	117.151		
7,100.00	7,060.72	7,241.32	7,230.70	26.84	25.62	-164.70	151.40	-3,565.56	4,159.28	4,123.30	35.98	115.607		
7,200.00	7,160.57	7,341.00	7,330.14	27.20	25.99	-164.82	145.20	-3,562.41	4,161.38	4,124.89	36.49	114.044		
7,300.00	7,260.53	7,440.75	7,429.65	27.55	26.35	-164.91	139.00	-3,559.26	4,160.96	4,123.96	37.00	112.464		
7,357.47	7,318.00	7,498.09	7,486.84	27.74	26.57	-90.42	135.44	-3,557.44	4,159.58	4,122.29	37.29	111.552		
7,400.00	7,360.53	7,528.87	7,517.56	27.88	26.68	-90.45	133.60	-3,556.50	4,158.31	4,120.84	37.47	110.978		
7,500.00	7,460.53	7,600.00	7,588.58	28.21	26.94	-90.49	130.16	-3,554.76	4,155.87	4,117.98	37.89	109.681		
7,600.00	7,560.53	7,663.36	7,651.90	28.54	27.17	-90.52	128.10	-3,553.71	4,154.21	4,115.92	38.29	108.505		
7,700.00	7,660.53	7,730.72	7,719.25	28.87	27.40	-90.54	126.93	-3,553.11	4,153.34	4,114.65	38.69	107.355		
7,784.32	7,744.85	7,795.32	7,783.85	29.15	27.62	-90.54	126.73	-3,553.01	4,153.20	4,114.15	39.04	106.374		
7,800.00	7,760.53	7,811.00	7,799.53	29.20	27.68	-90.54	126.73	-3,553.01	4,153.20	4,114.08	39.12	106.168		
7,900.00	7,860.53	7,911.00	7,899.53	29.53	28.01	-90.54	126.73	-3,553.01	4,153.20	4,113.60	39.60	104.874		
8,000.00	7,960.53	8,011.00	7,999.53	29.87	28.35	-90.54	126.73	-3,553.01	4,153.20	4,113.11	40.08	103.610		
8,100.00	8,060.53	8,111.00	8,099.53	30.20	28.69	-90.54	126.73	-3,553.01	4,153.20	4,112.63	40.57	102.375		
8,200.00	8,160.53	8,211.00	8,199.53	30.53	29.02	-90.54	126.73	-3,553.01	4,153.20	4,112.14	41.05	101.167		
8,300.00	8,260.53	8,311.00	8,299.53	30.87	29.36	-90.54	126.73	-3,553.01	4,153.20	4,111.66	41.54	99.986		
8,400.00	8,360.53	8,411.00	8,399.53	31.20	29.70	-90.54	126.73	-3,553.01	4,153.20	4,111.17	42.02	98.831		
8,500.00	8,460.53	8,511.00	8,499.53	31.54	30.04	-90.54	126.73	-3,553.01	4,153.20	4,110.69	42.51	97.701		
8,600.00	8,560.53	8,611.00	8,599.53	31.88	30.38	-90.54	126.73	-3,553.01	4,153.20	4,110.20	43.00	96.596		
8,700.00	8,660.53	8,711.00	8,699.53	32.21	30.72	-90.54	126.73	-3,553.01	4,153.20	4,109.72	43.48	95.514		
8,800.00	8,760.53	8,811.00	8,799.53	32.55	31.06	-90.54	126.73	-3,553.01	4,153.20	4,109.23	43.97	94.455		
8,900.00	8,860.53	8,911.00	8,899.53	32.89	31.40	-90.54	126.73	-3,553.01	4,153.20	4,108.74	44.46	93.419		
9,000.00	8,960.53	9,011.00	8,999.53	33.23	31.74	-90.54	126.73	-3,553.01	4,153.20	4,108.25	44.95	92.404		
9,100.00	9,060.53	9,111.00	9,099.53	33.56	32.08	-90.54	126.73	-3,553.01	4,153.20	4,107.76	45.43	91.411		
9,200.00	9,160.53	9,211.00	9,199.53	33.90	32.43	-90.54	126.73	-3,553.01	4,153.20	4,107.27	45.92	90.437		
9,300.00	9,260.53	9,311.00	9,299.53	34.24	32.77	-90.54	126.73	-3,553.01	4,153.20	4,106.78	46.41	89.484		
9,400.00	9,360.53	9,411.00	9,399.53	34.58	33.11	-90.54	126.73	-3,553.01	4,153.20	4,106.30	46.90	88.549		
9,500.00	9,460.53	9,511.00	9,499.53	34.92	33.45	-90.54	126.73	-3,553.01	4,153.20	4,105.80	47.39	87.633		
9,600.00	9,560.53	9,611.00	9,599.53	35.26	33.80	-90.54	126.73	-3,553.01	4,153.20	4,105.31	47.88	86.736		
9,700.00	9,660.53	9,711.00	9,699.53	35.60	34.14	-90.54	126.73	-3,553.01	4,153.20	4,104.82	48.37	85.856		
9,800.00	9,760.53	9,811.00	9,799.53	35.94	34.48	-90.54	126.73	-3,553.01	4,153.20	4,104.33	48.87	84.993		
9,900.00	9,860.53	9,911.00	9,899.53	36.29	34.83	-90.54	126.73	-3,553.01	4,153.20	4,103.84	49.36	84.146		
10,000.00	9,960.53	10,011.00	9,999.53	36.63	35.17	-90.54	126.73	-3,553.01	4,153.20	4,103.35	49.85	83.316		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	10,060.53	10,111.00	10,099.53	36.97	35.52	-90.54	126.73	-3,553.01	4,153.20	4,102.86	50.34	82.502		
10,200.00	10,160.53	10,211.00	10,199.53	37.31	35.86	-90.54	126.73	-3,553.01	4,153.20	4,102.36	50.83	81.703		
10,300.00	10,260.53	10,311.00	10,299.53	37.65	36.21	-90.54	126.73	-3,553.01	4,153.20	4,101.87	51.33	80.919		
10,400.00	10,360.53	10,411.00	10,399.53	38.00	36.55	-90.54	126.73	-3,553.01	4,153.20	4,101.38	51.82	80.149		
10,500.00	10,460.53	10,511.00	10,499.53	38.34	36.90	-90.54	126.73	-3,553.01	4,153.20	4,100.89	52.31	79.393		
10,600.00	10,560.53	10,611.00	10,599.53	38.68	37.25	-90.54	126.73	-3,553.01	4,153.20	4,100.39	52.81	78.651		
10,700.00	10,660.53	10,711.00	10,699.53	39.03	37.59	-90.54	126.73	-3,553.01	4,153.20	4,099.90	53.30	77.923		
10,800.00	10,760.53	10,811.00	10,799.53	39.37	37.94	-90.54	126.73	-3,553.01	4,153.20	4,099.40	53.79	77.207		
10,900.00	10,860.53	10,911.00	10,899.53	39.72	38.28	-90.54	126.73	-3,553.01	4,153.20	4,098.91	54.29	76.504		
11,000.00	10,960.53	11,011.00	10,999.53	40.06	38.63	-90.54	126.73	-3,553.01	4,153.20	4,098.42	54.78	75.814		
11,100.00	11,060.53	11,111.00	11,099.53	40.41	38.98	-90.54	126.73	-3,553.01	4,153.20	4,097.92	55.28	75.135		
11,200.00	11,160.53	11,211.00	11,199.53	40.75	39.33	-90.54	126.73	-3,553.01	4,153.20	4,097.43	55.77	74.469		
11,300.00	11,260.53	11,311.00	11,299.53	41.10	39.67	-90.54	126.73	-3,553.01	4,153.20	4,096.93	56.27	73.813		
11,400.00	11,360.53	11,411.00	11,399.53	41.44	40.02	-90.54	126.73	-3,553.01	4,153.20	4,096.44	56.76	73.169		
11,500.00	11,460.53	11,511.00	11,499.53	41.79	40.37	-90.54	126.73	-3,553.01	4,153.20	4,095.94	57.26	72.536		
11,600.00	11,560.53	11,611.00	11,599.53	42.13	40.72	-90.54	126.73	-3,553.01	4,153.20	4,095.45	57.75	71.913		
11,610.35	11,570.88	11,621.35	11,609.88	42.17	40.75	-90.54	126.73	-3,553.01	4,153.20	4,095.39	57.80	71.850		
11,700.00	11,660.53	11,710.91	11,699.44	42.48	41.07	-90.54	126.50	-3,553.01	4,153.20	4,094.95	58.25	71.301		
11,800.00	11,760.53	11,808.85	11,796.61	42.83	41.42	-90.70	115.35	-3,552.91	4,153.22	4,094.48	58.75	70.697		
11,846.51	11,807.04	11,852.52	11,839.05	42.99	41.58	-90.84	105.07	-3,552.82	4,153.28	4,094.30	58.98	70.421		
11,850.00	11,810.53	11,855.73	11,842.14	43.00	41.60	96.05	104.19	-3,552.82	4,153.28	4,094.29	59.00	70.400		
11,900.00	11,860.45	11,900.00	11,884.15	43.16	41.77	95.84	90.26	-3,552.69	4,153.67	4,094.44	59.23	70.130		
11,950.00	11,909.97	11,945.88	11,926.42	43.31	41.95	95.59	72.46	-3,552.54	4,154.57	4,095.11	59.47	69.865		
12,000.00	11,958.70	11,989.72	11,965.35	43.46	42.12	95.30	52.33	-3,552.36	4,155.99	4,096.30	59.70	69.619		
12,050.00	12,006.28	12,032.82	12,002.02	43.61	42.30	94.96	29.70	-3,552.17	4,157.91	4,097.99	59.92	69.389		
12,100.00	12,052.34	12,075.27	12,036.37	43.75	42.48	94.59	4.79	-3,551.95	4,160.30	4,100.16	60.14	69.172		
12,150.00	12,096.54	12,117.11	12,068.34	43.87	42.66	94.18	-22.20	-3,551.71	4,163.15	4,102.79	60.36	68.969		
12,200.00	12,138.53	12,158.42	12,097.88	43.99	42.84	93.74	-51.06	-3,551.46	4,166.42	4,105.84	60.58	68.777		
12,250.00	12,178.00	12,200.00	12,125.44	44.10	43.02	93.27	-82.18	-3,551.19	4,170.10	4,109.30	60.80	68.592		
12,300.00	12,214.64	12,239.66	12,149.56	44.21	43.21	92.77	-113.65	-3,550.91	4,174.14	4,113.13	61.01	68.421		
12,350.00	12,248.19	12,279.69	12,171.64	44.30	43.39	92.25	-147.03	-3,550.62	4,178.51	4,117.29	61.22	68.254		
12,400.00	12,278.37	12,319.40	12,191.18	44.39	43.58	91.71	-181.58	-3,550.32	4,183.17	4,121.74	61.43	68.092		
12,450.00	12,304.97	12,358.83	12,208.18	44.48	43.77	91.15	-217.15	-3,550.01	4,188.09	4,126.44	61.65	67.934		
12,500.00	12,327.78	12,400.00	12,223.27	44.58	43.98	90.58	-255.45	-3,549.68	4,193.22	4,131.35	61.88	67.769		
12,550.00	12,346.63	12,437.03	12,234.46	44.68	44.16	90.01	-290.74	-3,549.37	4,198.53	4,136.44	62.09	67.622		
12,600.00	12,361.37	12,475.90	12,243.73	44.79	44.36	89.43	-328.48	-3,549.04	4,203.96	4,141.65	62.31	67.466		
12,650.00	12,371.89	12,514.66	12,250.41	44.91	44.56	88.86	-366.65	-3,548.71	4,209.48	4,146.94	62.54	67.310		
12,700.00	12,378.11	12,550.00	12,254.23	45.04	44.74	88.29	-401.78	-3,548.40	4,215.04	4,152.29	62.75	67.168		
12,746.51	12,380.00	12,589.64	12,255.94	45.17	44.95	87.77	-441.37	-3,548.06	4,220.22	4,157.23	62.98	67.006		
12,800.00	12,380.00	12,642.84	12,256.52	45.34	45.24	87.79	-494.57	-3,547.59	4,225.66	4,162.36	63.29	66.761		
12,900.00	12,380.00	12,742.55	12,257.60	45.69	45.81	87.81	-594.26	-3,546.72	4,233.16	4,169.23	63.93	66.213		
13,000.00	12,380.00	12,842.45	12,258.68	46.08	46.44	87.83	-694.16	-3,545.85	4,237.18	4,172.53	64.65	65.542		
13,063.21	12,380.00	12,905.65	12,259.36	46.35	46.86	87.84	-757.35	-3,545.30	4,237.92	4,172.79	65.13	65.064		
13,100.00	12,380.00	12,942.44	12,259.76	46.52	47.12	87.85	-794.14	-3,544.98	4,237.95	4,172.52	65.44	64.765		
13,200.00	12,380.00	13,042.44	12,260.84	47.00	47.84	87.86	-894.12	-3,544.10	4,238.03	4,171.73	66.30	63.924		
13,300.00	12,380.00	13,142.43	12,261.93	47.54	48.61	87.88	-994.11	-3,543.23	4,238.10	4,170.87	67.23	63.040		
13,400.00	12,380.00	13,242.42	12,263.01	48.13	49.42	87.89	-1,094.09	-3,542.36	4,238.18	4,169.95	68.23	62.118		
13,500.00	12,380.00	13,342.42	12,264.09	48.77	50.27	87.91	-1,194.08	-3,541.49	4,238.25	4,168.96	69.29	61.166		
13,600.00	12,380.00	13,442.41	12,265.17	49.45	51.16	87.92	-1,294.06	-3,540.62	4,238.33	4,167.91	70.42	60.190		
13,700.00	12,380.00	13,542.41	12,266.26	50.18	52.09	87.93	-1,394.04	-3,539.74	4,238.41	4,166.81	71.60	59.196		
13,800.00	12,380.00	13,642.40	12,267.34	50.95	53.06	87.95	-1,494.03	-3,538.87	4,238.48	4,165.64	72.84	58.191		
13,900.00	12,380.00	13,742.39	12,268.42	51.77	54.05	87.96	-1,594.01	-3,538.00	4,238.56	4,164.43	74.13	57.178		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Judge Baylor Fed Com - Judge Baylor Fed Com 701H - 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				
14,000.00	12,380.00	13,842.39	12,269.51	52.62	55.08	87.98	-1,694.00	-3,537.13	4,238.64	4,163.16	75.47	56.162				
14,100.00	12,380.00	13,942.38	12,270.59	53.51	56.14	87.99	-1,793.98	-3,536.25	4,238.71	4,161.85	76.86	55.148				
14,200.00	12,380.00	14,042.38	12,271.67	54.44	57.23	88.01	-1,893.97	-3,535.38	4,238.79	4,160.49	78.30	54.138				
14,300.00	12,380.00	14,142.37	12,272.75	55.40	58.34	88.02	-1,993.95	-3,534.51	4,238.87	4,159.10	79.77	53.137				
14,400.00	12,380.00	14,242.36	12,273.84	56.39	59.48	88.04	-2,093.93	-3,533.64	4,238.95	4,157.66	81.29	52.146				
14,500.00	12,380.00	14,342.36	12,274.92	57.41	60.64	88.05	-2,193.92	-3,532.76	4,239.02	4,156.18	82.85	51.168				
14,600.00	12,380.00	14,442.35	12,276.00	58.46	61.83	88.07	-2,293.90	-3,531.89	4,239.10	4,154.67	84.44	50.205				
14,700.00	12,380.00	14,542.35	12,277.09	59.54	63.03	88.08	-2,393.89	-3,531.02	4,239.18	4,153.12	86.06	49.257				
14,800.00	12,380.00	14,642.34	12,278.17	60.64	64.26	88.10	-2,493.87	-3,530.15	4,239.26	4,151.54	87.72	48.328				
14,900.00	12,380.00	14,742.33	12,279.25	61.77	65.50	88.11	-2,593.86	-3,529.27	4,239.34	4,149.93	89.41	47.416				
15,000.00	12,380.00	14,842.33	12,280.33	62.92	66.76	88.13	-2,693.84	-3,528.40	4,239.42	4,148.30	91.12	46.524				
15,100.00	12,380.00	14,942.32	12,281.42	64.09	68.04	88.14	-2,793.83	-3,527.53	4,239.50	4,146.63	92.87	45.651				
15,200.00	12,380.00	15,042.32	12,282.50	65.28	69.33	88.15	-2,893.81	-3,526.66	4,239.58	4,144.95	94.64	44.799				
15,300.00	12,380.00	15,142.31	12,283.58	66.50	70.64	88.17	-2,993.79	-3,525.78	4,239.66	4,143.23	96.43	43.967				
15,400.00	12,380.00	15,242.31	12,284.67	67.73	71.96	88.18	-3,093.78	-3,524.91	4,239.74	4,141.50	98.24	43.155				
15,500.00	12,380.00	15,342.30	12,285.75	68.98	73.30	88.20	-3,193.76	-3,524.04	4,239.82	4,139.74	100.08	42.364				
15,600.00	12,380.00	15,442.29	12,286.83	70.24	74.65	88.21	-3,293.75	-3,523.17	4,239.91	4,137.97	101.94	41.592				
15,700.00	12,380.00	15,542.29	12,287.91	71.52	76.01	88.23	-3,393.73	-3,522.29	4,239.99	4,136.17	103.82	40.841				
15,800.00	12,380.00	15,642.28	12,289.00	72.82	77.38	88.24	-3,493.72	-3,521.42	4,240.07	4,134.36	105.71	40.109				
15,900.00	12,380.00	15,742.28	12,290.08	74.13	78.76	88.26	-3,593.70	-3,520.55	4,240.15	4,132.53	107.63	39.397				
16,000.00	12,380.00	15,842.27	12,291.16	75.46	80.16	88.27	-3,693.69	-3,519.68	4,240.23	4,130.68	109.55	38.704				
16,100.00	12,380.00	15,942.26	12,292.25	76.79	81.56	88.29	-3,793.67	-3,518.81	4,240.32	4,128.82	111.50	38.030				
16,200.00	12,380.00	16,042.26	12,293.33	78.14	82.97	88.30	-3,893.65	-3,517.93	4,240.40	4,126.94	113.46	37.374				
16,300.00	12,380.00	16,142.25	12,294.41	79.50	84.39	88.32	-3,993.64	-3,517.06	4,240.48	4,125.05	115.43	36.736				
16,400.00	12,380.00	16,242.25	12,295.49	80.87	85.82	88.33	-4,093.62	-3,516.19	4,240.57	4,123.15	117.42	36.115				
16,500.00	12,380.00	16,342.24	12,296.58	82.25	87.26	88.35	-4,193.61	-3,515.32	4,240.65	4,121.23	119.42	35.511				
16,600.00	12,380.00	16,442.23	12,297.66	83.64	88.70	88.36	-4,293.59	-3,514.44	4,240.74	4,119.31	121.43	34.923				
16,700.00	12,380.00	16,542.23	12,298.74	85.04	90.15	88.38	-4,393.58	-3,513.57	4,240.82	4,117.37	123.45	34.352				
16,800.00	12,380.00	16,642.22	12,299.83	86.45	91.61	88.39	-4,493.56	-3,512.70	4,240.90	4,115.42	125.49	33.796				
16,900.00	12,380.00	16,742.22	12,300.91	87.87	93.07	88.40	-4,593.54	-3,511.83	4,240.99	4,113.46	127.53	33.255				
17,000.00	12,380.00	16,842.21	12,301.99	89.30	94.54	88.42	-4,693.53	-3,510.95	4,241.07	4,111.49	129.59	32.728				
17,100.00	12,380.00	16,942.20	12,303.07	90.73	96.02	88.43	-4,793.51	-3,510.08	4,241.16	4,109.51	131.65	32.216				
17,200.00	12,380.00	17,042.20	12,304.16	92.17	97.50	88.45	-4,893.50	-3,509.21	4,241.25	4,107.53	133.72	31.717				
17,300.00	12,380.00	17,142.19	12,305.24	93.62	98.99	88.46	-4,993.48	-3,508.34	4,241.33	4,105.53	135.80	31.232				
17,400.00	12,380.00	17,242.19	12,306.32	95.07	100.48	88.48	-5,093.47	-3,507.46	4,241.42	4,103.53	137.89	30.759				
17,500.00	12,380.00	17,342.18	12,307.41	96.53	101.98	88.49	-5,193.45	-3,506.59	4,241.51	4,101.52	139.99	30.299				
17,600.00	12,380.00	17,442.17	12,308.49	98.00	103.48	88.51	-5,293.44	-3,505.72	4,241.59	4,099.50	142.09	29.851				
17,700.00	12,380.00	17,542.17	12,309.57	99.47	104.99	88.52	-5,393.42	-3,504.85	4,241.68	4,097.48	144.20	29.415				
17,800.00	12,380.00	17,642.16	12,310.65	100.95	106.50	88.54	-5,493.40	-3,503.97	4,241.77	4,095.45	146.32	28.989				
17,900.00	12,380.00	17,742.16	12,311.74	102.43	108.01	88.55	-5,593.39	-3,503.10	4,241.86	4,093.41	148.45	28.575				
18,000.00	12,380.00	17,842.15	12,312.82	103.92	109.53	88.57	-5,693.37	-3,502.23	4,241.94	4,091.37	150.58	28.171				
18,100.00	12,380.00	17,942.15	12,313.90	105.41	111.06	88.58	-5,793.36	-3,501.36	4,242.03	4,089.32	152.72	27.777				
18,200.00	12,380.00	18,042.14	12,314.99	106.91	112.58	88.60	-5,893.34	-3,500.48	4,242.12	4,087.26	154.86	27.394				
18,300.00	12,380.00	18,142.13	12,316.07	108.41	114.11	88.61	-5,993.33	-3,499.61	4,242.21	4,085.20	157.01	27.019				
18,400.00	12,380.00	18,242.13	12,317.15	109.92	115.65	88.62	-6,093.31	-3,498.74	4,242.30	4,083.14	159.16	26.654				
18,500.00	12,380.00	18,342.12	12,318.24	111.43	117.18	88.64	-6,193.30	-3,497.87	4,242.39	4,081.07	161.32	26.298				
18,600.00	12,380.00	18,442.12	12,319.32	112.94	118.72	88.65	-6,293.28	-3,497.00	4,242.48	4,078.99	163.48	25.950				
18,700.00	12,380.00	18,542.11	12,320.40	114.46	120.26	88.67	-6,393.26	-3,496.12	4,242.57	4,076.92	165.65	25.611				
18,800.00	12,380.00	18,642.10	12,321.48	115.98	121.81	88.68	-6,493.25	-3,495.25	4,242.66	4,074.83	167.83	25.280				
18,900.00	12,380.00	18,742.10	12,322.57	117.51	123.36	88.70	-6,593.23	-3,494.38	4,242.75	4,072.75	170.00	24.957				
19,000.00	12,380.00	18,842.09	12,323.65	119.04	124.91	88.71	-6,693.22	-3,493.51	4,242.84	4,070.66	172.18	24.641				
19,100.00	12,380.00	18,942.09	12,324.73	120.57	126.46	88.73	-6,793.20	-3,492.63	4,242.93	4,068.56	174.37	24.333				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	12,380.00	19,042.08	12,325.82	122.11	128.02	88.74	-6,893.19	-3,491.76	4,243.02	4,066.46	176.56	24.032			
19,300.00	12,380.00	19,142.07	12,326.90	123.64	129.57	88.76	-6,993.17	-3,490.89	4,243.11	4,064.36	178.75	23.737			
19,400.00	12,380.00	19,242.07	12,327.98	125.18	131.13	88.77	-7,093.15	-3,490.02	4,243.21	4,062.26	180.95	23.450			
19,500.00	12,380.00	19,342.06	12,329.06	126.73	132.70	88.79	-7,193.14	-3,489.14	4,243.30	4,060.15	183.15	23.169			
19,600.00	12,380.00	19,442.06	12,330.15	128.27	134.26	88.80	-7,293.12	-3,488.27	4,243.39	4,058.04	185.35	22.894			
19,700.00	12,380.00	19,542.05	12,331.23	129.82	135.83	88.81	-7,393.11	-3,487.40	4,243.48	4,055.92	187.56	22.625			
19,800.00	12,380.00	19,642.04	12,332.31	131.38	137.40	88.83	-7,493.09	-3,486.53	4,243.58	4,053.81	189.77	22.362			
19,900.00	12,380.00	19,742.04	12,333.40	132.93	138.97	88.84	-7,593.08	-3,485.65	4,243.67	4,051.69	191.98	22.104			
20,000.00	12,380.00	19,842.03	12,334.48	134.49	140.54	88.86	-7,693.06	-3,484.78	4,243.76	4,049.57	194.20	21.853			
20,100.00	12,380.00	19,942.03	12,335.56	136.04	142.11	88.87	-7,793.05	-3,483.91	4,243.86	4,047.44	196.42	21.606			
20,200.00	12,380.00	20,042.02	12,336.64	137.61	143.69	88.89	-7,893.03	-3,483.04	4,243.95	4,045.31	198.64	21.365			
20,300.00	12,380.00	20,142.01	12,337.73	139.17	145.27	88.90	-7,993.01	-3,482.16	4,244.05	4,043.19	200.86	21.129			
20,400.00	12,380.00	20,242.01	12,338.81	140.73	146.85	88.92	-8,093.00	-3,481.29	4,244.14	4,041.05	203.09	20.898			
20,500.00	12,380.00	20,342.00	12,339.89	142.30	148.43	88.93	-8,192.98	-3,480.42	4,244.24	4,038.92	205.32	20.672			
20,600.00	12,380.00	20,442.00	12,340.98	143.87	150.01	88.95	-8,292.97	-3,479.55	4,244.33	4,036.78	207.55	20.450			
20,700.00	12,380.00	20,541.99	12,342.06	145.44	151.59	88.96	-8,392.95	-3,478.67	4,244.43	4,034.65	209.78	20.233			
20,800.00	12,380.00	20,641.99	12,343.14	147.01	153.18	88.98	-8,492.94	-3,477.80	4,244.52	4,032.51	212.02	20.020			
20,900.00	12,380.00	20,741.98	12,344.22	148.59	154.77	88.99	-8,592.92	-3,476.93	4,244.62	4,030.36	214.26	19.811			
21,000.00	12,380.00	20,841.97	12,345.31	150.16	156.35	89.01	-8,692.91	-3,476.06	4,244.72	4,028.22	216.50	19.606			
21,100.00	12,380.00	20,941.97	12,346.39	151.74	157.94	89.02	-8,792.89	-3,475.19	4,244.81	4,026.08	218.74	19.406			
21,200.00	12,380.00	21,041.96	12,347.47	153.32	159.53	89.03	-8,892.87	-3,474.31	4,244.91	4,023.93	220.98	19.209			
21,300.00	12,380.00	21,141.96	12,348.56	154.90	161.13	89.05	-8,992.86	-3,473.44	4,245.01	4,021.78	223.23	19.016			
21,400.00	12,380.00	21,241.95	12,349.64	156.48	162.72	89.06	-9,092.84	-3,472.57	4,245.11	4,019.63	225.48	18.827			
21,500.00	12,380.00	21,341.94	12,350.72	158.06	164.31	89.08	-9,192.83	-3,471.70	4,245.20	4,017.48	227.72	18.642			
21,600.00	12,380.00	21,441.94	12,351.80	159.65	165.91	89.09	-9,292.81	-3,470.82	4,245.30	4,015.33	229.98	18.460			
21,700.00	12,380.00	21,541.93	12,352.89	161.23	167.50	89.11	-9,392.80	-3,469.95	4,245.40	4,013.17	232.23	18.281			
21,800.00	12,380.00	21,641.93	12,353.97	162.82	169.10	89.12	-9,492.78	-3,469.08	4,245.50	4,011.01	234.48	18.106			
21,900.00	12,380.00	21,741.92	12,355.05	164.41	170.70	89.14	-9,592.76	-3,468.21	4,245.60	4,008.86	236.74	17.934			
22,000.00	12,380.00	21,841.91	12,356.14	166.00	172.30	89.15	-9,692.75	-3,467.33	4,245.70	4,006.70	239.00	17.765			
22,100.00	12,380.00	21,941.91	12,357.22	167.59	173.90	89.17	-9,792.73	-3,466.46	4,245.80	4,004.54	241.26	17.599			
22,200.00	12,380.00	22,041.90	12,358.30	169.18	175.50	89.18	-9,892.72	-3,465.59	4,245.90	4,002.38	243.52	17.436			
22,300.00	12,380.00	22,141.90	12,359.38	170.77	177.10	89.20	-9,992.70	-3,464.72	4,246.00	4,000.22	245.78	17.276			
22,400.00	12,380.00	22,241.89	12,360.47	172.37	178.71	89.21	-10,092.69	-3,463.84	4,246.10	3,998.05	248.04	17.118			
22,500.00	12,380.00	22,341.88	12,361.55	173.96	180.31	89.22	-10,192.67	-3,462.97	4,246.20	3,995.89	250.31	16.964			
22,547.76	12,380.00	22,389.64	12,362.07	174.73	181.08	89.23	-10,240.42	-3,462.55	4,246.25	3,994.86	251.39	16.891			
22,548.65	12,380.00	22,390.53	12,362.08	174.75	181.09	89.23	-10,241.32	-3,462.55	4,246.25	3,994.84	251.41	16.890 SF			

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - OH											Offset Site Error:	0.00 usft
Survey Program:		190-MWD, 1393-OWSG (Rev2) MWD, 21860-BLIND											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	0.50	0.50	0.00	0.00	49.00	464.84	534.77	708.56					
100.00	100.00	100.50	100.50	0.13	0.15	49.00	464.84	534.77	708.56	708.36	0.20	3,599.412		
200.00	200.00	201.28	201.28	0.48	0.33	49.00	464.84	534.76	708.55	707.97	0.58	1,214.390		
300.00	300.00	307.82	307.82	0.84	0.70	49.00	464.39	534.28	707.93	706.84	1.09	647.765		
400.00	400.00	411.58	411.57	1.20	1.06	48.99	463.66	533.11	706.62	705.02	1.60	441.114		
500.00	500.00	516.04	516.01	1.56	1.43	48.93	462.89	531.23	704.78	702.66	2.12	332.955		
600.00	600.00	625.67	625.59	1.92	1.83	48.88	461.41	528.46	702.00	699.36	2.65	265.332		
700.00	700.00	727.82	727.66	2.28	2.20	48.84	459.13	525.18	698.10	694.95	3.16	221.149		
800.00	800.00	827.39	827.15	2.63	2.56	48.81	456.85	522.06	694.24	690.58	3.66	189.597		
900.00	900.00	924.67	924.37	2.99	2.91	48.83	454.24	519.46	690.46	686.30	4.16	165.941		
1,000.00	1,000.00	1,027.51	1,027.15	3.35	3.28	48.84	451.94	516.90	687.13	682.45	4.67	147.010		
1,100.00	1,100.00	1,127.61	1,127.16	3.71	3.64	48.77	449.86	513.35	683.09	677.91	5.18	131.841		
1,200.00	1,200.00	1,226.14	1,225.62	4.07	4.00	48.70	448.10	510.09	679.43	673.74	5.68	119.518		
1,300.00	1,300.00	1,327.31	1,326.71	4.43	4.37	48.60	446.41	506.42	675.59	669.40	6.19	109.062		
1,400.00	1,400.00	1,424.29	1,423.63	4.79	4.53	48.49	445.05	502.95	671.98	665.42	6.56	102.401		
1,500.00	1,500.00	1,523.79	1,523.05	5.14	4.57	48.37	443.86	499.39	668.51	661.66	6.85	97.620		
1,600.00	1,600.00	1,623.21	1,622.41	5.50	4.63	48.25	442.76	496.02	665.25	658.09	7.16	92.936		
1,700.00	1,700.00	1,721.47	1,720.61	5.86	4.72	48.13	441.66	492.72	662.00	654.51	7.49	88.396		
1,800.00	1,800.00	1,819.20	1,818.29	6.22	4.83	48.02	440.76	489.80	659.16	651.32	7.84	84.100		
1,900.00	1,900.00	1,918.60	1,917.65	6.58	4.97	47.93	439.76	487.18	656.52	648.32	8.20	80.029		
2,000.00	2,000.00	2,017.99	2,017.01	6.94	5.13	47.94	437.99	485.33	653.95	645.37	8.58	76.195		
2,100.00	2,100.00	2,116.52	2,115.50	7.29	5.30	48.00	435.82	484.08	651.53	642.56	8.97	72.613		
2,200.00	2,199.99	2,209.43	2,208.39	7.65	5.48	-26.53	434.10	483.37	648.56	639.20	9.36	69.277		
2,300.00	2,299.91	2,304.76	2,303.72	7.99	5.67	-26.64	433.04	483.24	644.21	634.45	9.76	66.027		
2,400.00	2,399.69	2,402.20	2,401.15	8.34	5.88	-26.89	432.40	483.41	638.05	627.89	10.16	62.792		
2,500.00	2,499.27	2,497.98	2,496.94	8.70	6.09	-27.25	432.00	483.96	630.04	619.47	10.57	59.612		
2,601.33	2,599.89	2,596.00	2,594.95	9.06	6.31	-27.74	431.93	484.96	620.15	609.16	10.99	56.435		
2,700.00	2,697.71	2,706.64	2,705.58	9.42	6.58	-28.25	430.86	485.84	608.65	597.22	11.43	53.252		
2,800.00	2,796.85	2,818.01	2,816.83	9.78	6.87	-28.53	426.02	486.60	594.59	582.71	11.88	50.044		
2,900.00	2,895.99	2,913.28	2,911.90	10.15	7.13	-28.59	420.06	488.03	579.87	567.55	12.32	47.062		
3,000.00	2,995.13	3,007.66	3,006.11	10.53	7.39	-28.64	414.91	490.57	566.51	553.74	12.77	44.377		
3,100.00	3,094.27	3,120.25	3,118.47	10.90	7.72	-28.71	408.07	492.62	552.14	538.91	13.23	41.722		
3,200.00	3,193.41	3,242.03	3,239.82	11.28	8.09	-28.83	398.04	491.63	534.44	520.74	13.70	39.014		
3,300.00	3,292.55	3,343.05	3,340.32	11.67	8.41	-29.04	388.36	488.16	513.92	499.76	14.16	36.293		
3,400.00	3,391.69	3,431.19	3,428.08	12.05	8.70	-29.29	380.73	485.35	494.23	479.60	14.63	33.777		
3,500.00	3,490.83	3,522.68	3,519.32	12.44	8.99	-29.60	374.21	483.42	476.35	461.25	15.11	31.535		
3,600.00	3,589.97	3,625.42	3,621.82	12.82	9.33	-30.13	368.00	480.66	458.86	443.29	15.58	29.453		
3,700.00	3,689.11	3,720.93	3,717.13	13.21	9.64	-30.96	363.54	476.16	441.00	424.94	16.06	27.463		
3,800.00	3,788.25	3,807.50	3,803.58	13.60	9.91	-31.90	361.19	472.42	424.90	408.36	16.54	25.688		
3,900.00	3,887.39	3,902.47	3,898.51	13.99	10.22	-32.92	359.65	470.10	410.99	393.96	17.03	24.140		
4,000.00	3,986.53	4,013.59	4,009.51	14.39	10.58	-33.78	355.08	468.75	396.19	378.68	17.51	22.625		
4,100.00	4,085.67	4,117.96	4,113.57	14.78	10.94	-34.31	347.14	467.29	378.69	360.69	17.99	21.045		
4,200.00	4,184.81	4,209.71	4,205.06	15.18	11.25	-34.80	340.29	466.38	361.59	343.09	18.50	19.548		
4,300.00	4,283.95	4,304.26	4,299.46	15.57	11.57	-35.53	335.13	465.52	346.10	327.10	19.00	18.217		
4,400.00	4,383.09	4,407.06	4,402.13	15.97	11.92	-36.69	330.39	463.26	330.55	311.06	19.49	16.957		
4,500.00	4,482.23	4,507.39	4,502.26	16.37	12.27	-38.17	325.61	459.30	313.97	293.98	19.99	15.703		
4,600.00	4,581.37	4,601.41	4,596.13	16.77	12.59	-39.81	322.00	455.51	298.31	277.79	20.51	14.542		
4,700.00	4,680.51	4,696.87	4,691.51	17.17	12.91	-41.49	318.89	453.00	284.18	263.15	21.03	13.511		
4,800.00	4,779.65	4,793.80	4,788.39	17.57	13.24	-43.20	315.94	451.52	271.09	249.53	21.56	12.576		
4,900.00	4,878.79	4,890.77	4,885.32	17.97	13.57	-45.07	313.61	450.44	259.03	236.95	22.08	11.731		
5,000.00	4,977.93	4,989.08	4,983.60	18.37	13.90	-47.18	311.74	449.42	247.75	225.14	22.61	10.957		
5,100.00	5,077.07	5,089.68	5,084.18	18.77	14.25	-49.50	309.63	448.46	236.70	213.56	23.14	10.228		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - OH		Offset Site Error:	0.00 usft
Survey Program: 190-MWD, 1393-OWSG (Rev2) MWD, 21860-BLIND													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			
5,200.00	5,176.21	5,197.87	5,192.24	19.17	14.63	-52.43	305.37	445.82	223.85	200.20	23.65	9.465				
5,300.00	5,275.35	5,300.29	5,294.28	19.57	14.99	-55.95	298.12	440.67	207.71	183.53	24.18	8.592				
5,400.00	5,374.49	5,398.55	5,392.11	19.98	15.35	-59.95	290.59	435.33	191.77	167.03	24.74	7.751				
5,500.00	5,473.63	5,496.40	5,489.52	20.38	15.71	-64.48	282.87	430.42	176.77	151.45	25.32	6.981				
5,600.00	5,572.77	5,595.13	5,587.81	20.78	16.07	-69.74	274.81	425.69	162.83	136.92	25.91	6.285				
5,700.00	5,671.91	5,692.19	5,684.42	21.19	16.43	-75.80	266.71	421.06	150.30	123.78	26.52	5.668				
5,800.00	5,771.05	5,789.77	5,781.61	21.59	16.79	-82.58	259.05	417.02	140.21	113.08	27.13	5.169				
5,900.00	5,870.19	5,889.13	5,880.55	22.00	17.16	-90.40	250.85	413.00	132.01	104.31	27.70	4.765				
6,000.00	5,969.33	5,988.03	5,978.88	22.40	17.53	-99.55	241.36	408.25	125.66	97.40	28.27	4.446				
6,100.00	6,068.47	6,085.49	6,075.71	22.81	17.90	-109.45	231.47	403.36	122.53	93.74	28.79	4.256				
6,130.07	6,098.28	6,114.87	6,104.90	22.93	18.02	-112.47	228.51	401.92	122.35	93.42	28.93	4.229 CC, ES				
6,200.00	6,167.61	6,183.14	6,172.73	23.22	18.28	-119.53	221.53	398.50	123.31	94.06	29.24	4.217				
6,300.00	6,266.75	6,281.00	6,269.93	23.62	18.65	-129.37	211.21	393.59	127.80	98.16	29.64	4.311				
6,400.00	6,365.89	6,378.62	6,366.97	24.03	19.02	-137.94	201.59	389.26	135.66	105.65	30.02	4.520				
6,500.00	6,465.03	6,475.85	6,463.78	24.44	19.39	-144.86	193.40	385.36	146.36	115.97	30.39	4.816				
6,600.00	6,564.17	6,573.77	6,561.44	24.84	19.75	-150.04	187.36	381.78	159.15	128.35	30.80	5.167				
6,700.00	6,663.31	6,673.00	6,660.51	25.25	20.11	-154.04	182.48	378.71	172.71	141.47	31.24	5.528				
6,800.00	6,762.45	6,772.25	6,759.60	25.66	20.46	-157.44	177.57	376.15	186.47	154.77	31.70	5.882				
6,856.14	6,818.11	6,827.74	6,815.01	25.89	20.66	-159.14	174.77	374.84	194.32	162.37	31.96	6.081				
6,900.00	6,861.62	6,871.60	6,858.80	26.06	20.82	-160.40	172.54	373.88	200.26	168.09	32.17	6.226				
7,000.00	6,961.05	6,971.37	6,958.43	26.46	21.18	-162.81	167.57	372.23	211.77	179.13	32.64	6.488				
7,100.00	7,060.72	7,069.68	7,056.63	26.84	21.53	-164.56	163.39	370.42	221.26	188.16	33.11	6.683				
7,200.00	7,160.57	7,169.77	7,156.64	27.20	21.89	-165.85	159.80	368.27	228.71	195.12	33.59	6.808				
7,300.00	7,260.53	7,272.51	7,259.34	27.55	22.25	-166.61	157.45	366.92	232.82	198.72	34.10	6.827				
7,357.47	7,318.00	7,331.39	7,318.21	27.74	22.45	-92.34	156.47	366.74	233.45	199.06	34.39	6.788				
7,400.00	7,360.53	7,374.29	7,361.11	27.88	22.60	-92.50	155.80	366.75	233.47	198.87	34.60	6.748				
7,500.00	7,460.53	7,475.09	7,461.89	28.21	22.95	-92.89	154.26	367.03	233.26	198.18	35.09	6.648				
7,600.00	7,560.53	7,575.15	7,561.94	28.54	23.29	-93.26	152.77	367.54	232.84	197.27	35.57	6.546				
7,700.00	7,660.53	7,675.89	7,662.66	28.87	23.63	-93.64	151.25	368.14	232.34	196.28	36.05	6.444				
7,800.00	7,760.53	7,776.61	7,763.38	29.20	23.97	-93.99	149.89	369.10	231.47	194.93	36.54	6.335				
7,900.00	7,860.53	7,877.97	7,864.71	29.53	24.30	-94.27	148.85	370.49	230.18	193.15	37.02	6.217				
8,000.00	7,960.53	7,978.03	7,964.76	29.87	24.63	-94.49	148.13	372.17	228.56	191.06	37.50	6.095				
8,100.00	8,060.53	8,078.96	8,065.68	30.20	24.96	-94.62	147.73	374.08	226.70	188.72	37.98	5.969				
8,200.00	8,160.53	8,179.21	8,165.90	30.53	25.27	-94.65	147.80	376.17	224.62	186.17	38.45	5.841				
8,300.00	8,260.53	8,279.64	8,266.30	30.87	25.59	-94.51	148.55	378.49	222.26	183.33	38.93	5.710				
8,400.00	8,360.53	8,378.94	8,365.58	31.20	25.90	-94.23	149.75	380.51	220.14	180.74	39.40	5.588				
8,500.00	8,460.53	8,479.77	8,466.37	31.54	26.21	-93.85	151.39	382.67	217.88	178.01	39.87	5.464				
8,600.00	8,560.53	8,580.06	8,566.61	31.88	26.53	-93.41	153.19	385.17	215.28	174.93	40.35	5.335				
8,700.00	8,660.53	8,677.77	8,664.27	32.21	26.83	-92.94	155.08	387.30	213.01	172.19	40.81	5.219				
8,800.00	8,760.53	8,775.28	8,761.77	32.55	27.14	-92.66	156.13	387.94	212.29	171.02	41.27	5.144				
8,900.00	8,860.53	8,874.82	8,861.32	32.89	27.46	-92.46	156.91	388.14	212.06	170.31	41.74	5.080				
8,955.25	8,915.78	8,929.79	8,916.28	33.07	27.63	-92.29	157.54	388.16	212.01	170.01	42.00	5.047				
9,000.00	8,960.53	8,974.16	8,960.64	33.23	27.77	-92.10	158.23	388.09	212.05	169.84	42.22	5.023				
9,100.00	9,060.53	9,074.29	9,060.76	33.56	28.09	-91.57	160.20	387.78	212.29	169.60	42.69	4.972				
9,200.00	9,160.53	9,175.19	9,161.64	33.90	28.41	-91.06	162.08	387.81	212.23	169.05	43.18	4.915				
9,300.00	9,260.53	9,276.11	9,262.54	34.24	28.73	-90.52	164.06	388.29	211.72	168.06	43.67	4.849				
9,400.00	9,360.53	9,376.00	9,362.40	34.58	29.05	-89.85	166.56	389.00	211.00	166.86	44.15	4.780				
9,500.00	9,460.53	9,475.36	9,461.72	34.92	29.37	-89.19	168.96	389.52	210.51	165.88	44.62	4.717				
9,600.00	9,560.53	9,575.73	9,562.06	35.26	29.69	-88.54	171.36	389.96	210.11	165.00	45.11	4.658				
9,700.00	9,660.53	9,677.07	9,663.37	35.60	30.01	-87.85	173.85	390.83	209.33	163.73	45.60	4.591				
9,800.00	9,760.53	9,780.04	9,766.30	35.94	30.35	-87.22	176.06	392.80	207.51	161.41	46.10	4.501				
9,900.00	9,860.53	9,882.12	9,868.30	36.29	30.68	-86.67	177.87	396.20	204.28	157.69	46.59	4.385				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 190-MWD, 1393-OWSG (Rev2) MWD, 21860-BLIND													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	9,960.53	9,981.39	9,967.52	36.63	31.01	-86.62	177.86	399.47	200.99	153.92	47.07	4.270		
10,100.00	10,060.53	10,081.20	10,067.26	36.97	31.35	-87.01	176.31	402.74	197.63	150.07	47.56	4.156		
10,200.00	10,160.53	10,179.65	10,165.64	37.31	31.69	-87.78	173.54	405.23	194.97	146.93	48.04	4.059		
10,300.00	10,260.53	10,280.12	10,266.03	37.65	32.04	-88.73	170.28	407.47	192.64	144.11	48.52	3.970		
10,400.00	10,360.53	10,379.21	10,365.06	38.00	32.38	-89.40	168.00	410.14	189.91	140.90	49.01	3.875		
10,500.00	10,460.53	10,477.87	10,463.70	38.34	32.72	-89.68	167.05	411.56	188.46	138.97	49.49	3.808		
10,600.00	10,560.53	10,575.87	10,561.69	38.68	33.06	-89.88	166.41	412.78	187.22	137.25	49.96	3.747		
10,615.24	10,575.77	10,590.45	10,576.27	38.74	33.11	-89.91	166.28	412.81	187.19	137.16	50.03	3.741		
10,700.00	10,660.53	10,674.56	10,660.37	39.03	33.40	-90.18	165.41	412.44	187.56	137.11	50.44	3.718		
10,800.00	10,760.53	10,775.19	10,761.00	39.37	33.75	-90.48	164.41	412.29	187.72	136.77	50.94	3.685		
10,900.00	10,860.53	10,876.15	10,861.96	39.72	34.11	-90.73	163.60	412.50	187.52	136.07	51.45	3.645		
11,000.00	10,960.53	10,977.35	10,963.14	40.06	34.46	-91.01	162.72	413.33	186.71	134.76	51.95	3.594		
11,100.00	11,060.53	11,077.48	11,063.26	40.41	34.80	-91.40	161.45	414.58	185.49	133.05	52.44	3.537		
11,200.00	11,160.53	11,176.54	11,162.23	40.75	35.16	-92.54	157.81	415.67	184.51	131.59	52.92	3.487		
11,221.20	11,181.73	11,196.61	11,182.23	40.82	35.23	-93.06	156.15	415.84	184.43	131.41	53.01	3.479		
11,300.00	11,260.53	11,267.86	11,252.37	41.10	35.50	-96.81	143.96	415.45	186.06	132.78	53.28	3.492		
11,400.00	11,360.53	11,356.97	11,336.90	41.44	35.87	-105.00	116.06	413.67	194.41	141.02	53.39	3.641		
11,500.00	11,460.53	11,435.32	11,407.49	41.79	36.22	-114.00	82.27	411.92	212.72	159.92	52.80	4.029		
11,600.00	11,560.53	11,504.03	11,464.45	42.13	36.53	-122.79	43.95	410.53	245.20	193.80	51.40	4.770		
11,700.00	11,660.53	11,561.00	11,507.84	42.48	36.80	-129.90	7.09	409.94	291.27	241.81	49.47	5.888		
11,800.00	11,760.53	11,608.00	11,540.78	42.83	37.04	-135.27	-26.42	409.39	349.10	301.58	47.52	7.347		
11,846.51	11,807.04	11,630.19	11,555.40	42.99	37.15	-137.60	-43.11	409.06	379.16	332.31	46.85	8.093		
11,850.00	11,810.53	11,631.66	11,556.34	43.00	37.16	48.92	-44.23	409.03	381.48	334.68	46.80	8.152		
11,900.00	11,860.45	11,655.00	11,571.04	43.16	37.28	43.72	-62.35	408.60	414.51	368.37	46.14	8.984		
11,950.00	11,909.97	11,676.75	11,584.22	43.31	37.39	39.52	-79.65	408.11	446.74	401.30	45.44	9.832		
12,000.00	11,958.70	11,702.00	11,598.96	43.46	37.53	35.91	-100.14	407.47	477.73	432.83	44.91	10.639		
12,050.00	12,006.28	11,732.56	11,616.24	43.61	37.70	32.84	-125.33	406.59	507.01	462.41	44.59	11.369		
12,100.00	12,052.34	11,750.00	11,625.91	43.75	37.79	30.69	-139.84	406.05	534.36	490.56	43.80	12.201		
12,150.00	12,096.54	11,783.80	11,643.74	43.87	37.99	28.68	-168.51	404.89	559.59	515.98	43.60	12.833		
12,200.00	12,138.53	11,797.00	11,650.29	43.99	38.06	27.26	-179.97	404.40	583.43	540.69	42.74	13.651		
12,250.00	12,178.00	11,827.20	11,664.15	44.10	38.24	25.96	-206.77	403.26	605.27	562.83	42.44	14.260		
12,300.00	12,214.64	11,844.00	11,671.14	44.21	38.34	24.95	-222.04	402.64	625.57	583.77	41.80	14.967		
12,350.00	12,248.19	11,870.92	11,681.30	44.30	38.50	24.10	-246.95	401.70	643.93	602.46	41.46	15.530		
12,400.00	12,278.37	11,891.00	11,688.05	44.39	38.62	23.42	-265.84	401.07	660.38	619.36	41.01	16.102		
12,450.00	12,304.97	11,917.79	11,696.10	44.48	38.78	22.92	-291.38	400.17	674.73	633.97	40.76	16.553		
12,500.00	12,327.78	11,938.00	11,701.52	44.58	38.91	22.55	-310.83	399.34	686.96	646.51	40.45	16.984		
12,550.00	12,346.63	11,967.00	11,708.02	44.68	39.09	22.38	-339.06	397.99	697.20	656.85	40.35	17.279		
12,600.00	12,361.37	11,983.87	11,711.06	44.79	39.19	22.23	-355.62	397.13	705.38	665.24	40.14	17.571		
12,650.00	12,371.89	12,006.91	11,714.46	44.91	39.34	22.25	-378.38	395.91	711.50	671.38	40.11	17.737		
12,700.00	12,378.11	12,037.66	11,717.80	45.04	39.54	22.49	-408.90	394.20	715.39	675.16	40.23	17.781		
12,746.51	12,380.00	12,082.54	11,722.27	45.17	39.84	23.13	-453.48	391.72	715.97	675.44	40.54	17.663		
12,800.00	12,380.00	12,135.96	11,727.67	45.34	40.20	23.93	-506.55	388.70	714.55	673.62	40.93	17.459		
12,900.00	12,380.00	12,241.90	11,738.67	45.69	40.97	25.26	-611.78	383.42	710.60	668.89	41.71	17.038		
13,000.00	12,380.00	12,349.88	11,750.67	46.08	41.82	26.25	-719.01	379.35	704.31	661.82	42.49	16.577		
13,063.21	12,380.00	12,421.52	11,759.10	46.35	42.41	26.68	-790.14	377.84	698.81	655.83	42.99	16.256		
13,100.00	12,380.00	12,458.31	11,763.44	46.52	42.73	26.88	-826.67	377.66	695.18	651.96	43.21	16.087		
13,200.00	12,380.00	12,550.77	11,773.40	47.00	43.54	27.29	-918.59	378.20	685.76	642.01	43.75	15.673		
13,300.00	12,380.00	12,635.20	11,780.18	47.54	44.31	27.47	-1,002.72	380.14	678.04	633.84	44.20	15.341		
13,400.00	12,380.00	12,717.00	11,783.67	48.13	45.08	27.48	-1,084.40	382.68	673.20	628.59	44.61	15.092		
13,500.00	12,380.00	12,812.14	11,785.96	48.77	46.00	27.42	-1,179.47	385.53	670.11	625.00	45.12	14.853		
13,600.00	12,380.00	12,905.00	11,788.09	49.45	46.93	27.43	-1,272.29	387.39	667.60	621.93	45.68	14.616		
13,700.00	12,380.00	12,999.00	11,789.52	50.18	47.90	27.47	-1,366.27	388.55	666.13	619.84	46.29	14.391		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 190-MWD, 1393-OWSG (Rev2) MWD, 21860-BLIND													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		
13,800.00	12,380.00	13,093.00	11,789.68	50.95	48.90	27.42	-1,460.25	390.19	665.62	618.72	46.90	14.193		
13,900.00	12,380.00	13,202.07	11,790.53	51.77	50.11	27.42	-1,569.30	391.71	664.75	617.11	47.63	13.955		
14,000.00	12,380.00	13,310.04	11,792.49	52.62	51.33	27.44	-1,677.23	393.61	662.80	614.39	48.41	13.692		
14,100.00	12,380.00	13,425.31	11,797.61	53.51	52.68	27.57	-1,792.37	395.74	658.42	609.10	49.32	13.350		
14,200.00	12,380.00	13,529.69	11,803.60	54.44	53.93	27.74	-1,896.55	397.68	652.92	602.70	50.22	13.002		
14,300.00	12,380.00	13,635.20	11,810.16	55.40	55.22	27.88	-2,001.83	400.44	646.67	595.53	51.14	12.645		
14,400.00	12,380.00	13,744.96	11,817.95	56.39	56.59	27.99	-2,111.25	404.24	639.24	587.14	52.11	12.268		
14,500.00	12,380.00	13,850.56	11,826.76	57.41	57.94	28.11	-2,216.39	408.45	630.47	577.39	53.07	11.879		
14,600.00	12,380.00	13,941.00	11,833.83	58.46	59.11	28.10	-2,306.42	413.27	621.56	567.68	53.88	11.536		
14,700.00	12,380.00	14,022.91	11,837.62	59.54	60.18	27.93	-2,388.09	418.16	615.16	560.59	54.56	11.274		
14,800.00	12,380.00	14,105.59	11,839.02	60.64	61.26	27.70	-2,470.64	422.48	611.68	556.45	55.23	11.074		
14,900.00	12,380.00	14,197.94	11,839.42	61.77	62.48	27.65	-2,562.97	424.19	610.85	554.76	56.09	10.890		
15,000.00	12,380.00	14,306.91	11,841.80	62.92	63.94	27.79	-2,671.91	424.83	609.09	551.90	57.19	10.651		
15,100.00	12,380.00	14,427.44	11,847.44	64.09	65.58	28.19	-2,792.30	424.18	605.77	547.22	58.54	10.347		
15,200.00	12,380.00	14,552.77	11,859.28	65.28	67.31	28.77	-2,917.05	424.99	597.51	537.44	60.07	9.947		
15,300.00	12,380.00	14,638.35	11,867.33	66.50	68.51	29.09	-3,002.24	426.45	588.91	527.69	61.21	9.620		
15,400.00	12,380.00	14,745.49	11,876.61	67.73	70.01	29.47	-3,108.96	428.36	580.97	518.43	62.54	9.289		
15,500.00	12,380.00	14,851.28	11,888.07	68.98	71.51	29.91	-3,214.09	430.78	570.86	506.92	63.94	8.928		
15,600.00	12,380.00	14,930.31	11,895.52	70.24	72.64	30.31	-3,292.77	431.35	562.83	497.65	65.18	8.635		
15,700.00	12,380.00	15,011.00	11,900.17	71.52	73.79	30.70	-3,373.31	430.47	558.82	492.37	66.45	8.410		
15,800.00	12,380.00	15,102.03	11,903.35	72.82	75.09	31.12	-3,464.26	428.49	557.39	489.56	67.83	8.217		
15,900.00	12,380.00	15,233.78	11,911.65	74.13	77.00	31.62	-3,595.71	429.23	551.84	482.30	69.54	7.935		
16,000.00	12,380.00	15,318.70	11,916.94	75.46	78.23	31.90	-3,680.46	430.15	546.48	475.66	70.83	7.716		
16,100.00	12,380.00	15,406.64	11,919.59	76.79	79.52	31.98	-3,768.34	431.77	543.47	471.51	71.96	7.552		
16,172.99	12,380.00	15,469.46	11,919.89	77.78	80.44	31.94	-3,831.15	433.03	542.79	470.09	72.70	7.466		
16,200.00	12,380.00	15,494.28	11,919.71	78.14	80.80	31.92	-3,855.96	433.42	542.86	469.89	72.98	7.439		
16,300.00	12,380.00	15,594.96	11,919.40	79.50	82.28	31.90	-3,956.63	434.41	543.13	468.99	74.14	7.326		
16,400.00	12,380.00	15,692.57	11,919.90	80.87	83.71	32.10	-4,054.24	433.44	543.74	468.26	75.48	7.204		
16,500.00	12,380.00	15,788.88	11,922.06	82.25	85.13	32.61	-4,150.46	430.00	544.30	467.18	77.13	7.057		
16,600.00	12,380.00	15,878.55	11,921.53	83.64	86.46	33.05	-4,240.01	425.63	547.85	469.18	78.67	6.964		
16,700.00	12,380.00	16,039.15	11,932.87	85.04	88.87	33.98	-4,400.10	424.05	541.45	460.28	81.17	6.670		
16,800.00	12,380.00	16,143.02	11,942.43	86.45	90.43	34.48	-4,503.51	425.96	533.36	450.47	82.88	6.435		
16,900.00	12,380.00	16,212.87	11,946.99	87.87	91.49	34.72	-4,573.19	427.11	527.63	443.39	84.24	6.263		
16,955.28	12,380.00	16,252.02	11,948.10	88.66	92.08	34.86	-4,612.32	426.74	526.94	441.97	84.97	6.202		
17,000.00	12,380.00	16,285.07	11,948.14	89.30	92.58	34.93	-4,645.37	426.24	527.54	442.03	85.50	6.170		
17,100.00	12,380.00	16,376.39	11,944.76	90.73	93.96	34.92	-4,736.61	424.87	531.89	445.20	86.69	6.135		
17,200.00	12,380.00	16,506.51	11,943.09	92.17	95.93	34.89	-4,866.70	425.43	533.30	445.08	88.22	6.045		
17,300.00	12,380.00	16,631.22	11,948.27	93.62	97.84	35.02	-4,991.25	428.74	528.83	439.10	89.73	5.894		
17,400.00	12,380.00	16,718.89	11,952.63	95.07	99.18	35.17	-5,078.78	431.00	523.83	432.72	91.11	5.750		
17,500.00	12,380.00	16,819.75	11,956.57	96.53	100.73	35.30	-5,179.53	433.34	519.87	427.35	92.52	5.619		
17,600.00	12,380.00	16,926.36	11,960.63	98.00	102.38	35.31	-5,285.99	437.20	515.25	421.45	93.80	5.493		
17,700.00	12,380.00	17,034.51	11,966.47	99.47	104.05	35.34	-5,393.87	442.03	508.81	413.73	95.09	5.351		
17,800.00	12,380.00	17,135.04	11,970.98	100.95	105.61	35.07	-5,494.04	449.15	501.63	405.65	95.98	5.227		
17,900.00	12,380.00	17,220.91	11,974.36	102.43	106.94	34.83	-5,579.65	454.89	495.23	398.34	96.90	5.111		
18,000.00	12,380.00	17,311.90	11,976.39	103.92	108.36	34.93	-5,670.60	456.10	493.08	394.82	98.26	5.018		
18,100.00	12,380.00	17,429.86	11,982.53	105.41	110.19	35.14	-5,788.34	459.45	487.58	387.80	99.79	4.886		
18,200.00	12,380.00	17,532.82	11,988.72	106.91	111.80	35.30	-5,891.05	463.16	481.17	379.96	101.21	4.754		
18,300.00	12,380.00	17,618.55	11,993.78	108.41	113.14	35.47	-5,976.58	465.80	475.22	372.56	102.66	4.629		
18,400.00	12,380.00	17,724.77	11,999.13	109.92	114.80	36.00	-6,082.66	465.39	472.02	367.40	104.62	4.512		
18,500.00	12,380.00	17,819.40	12,004.63	111.43	116.28	36.27	-6,177.10	467.55	466.60	360.38	106.22	4.393		
18,600.00	12,380.00	17,907.51	12,009.09	112.94	117.66	36.79	-6,265.09	466.47	463.84	355.68	108.16	4.288		
18,683.76	12,380.00	17,984.28	12,012.45	114.22	118.86	37.40	-6,341.73	463.62	463.28	353.23	110.05	4.210		

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



Total Directional Services

Anticollision Report



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Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
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Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - OH		Offset Site Error:	0.00 usft
Survey Program: 190-MWD, 1393-OWSG (Rev2) MWD, 21860-BLIND													Offset Well Error:	0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor					
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)					
18,700.00	12,380.00	17,999.48	12,013.08	114.46	119.10	37.53	-6,356.90	462.92	463.30	352.86	110.44	4.195				
18,800.00	12,380.00	18,099.86	12,017.30	115.98	120.66	38.45	-6,457.06	457.72	463.78	350.68	113.10	4.101				
18,900.00	12,380.00	18,225.75	12,025.26	117.51	122.63	39.62	-6,582.60	453.26	461.84	345.59	116.25	3.973				
19,000.00	12,380.00	18,306.93	12,031.06	119.04	123.90	40.38	-6,663.53	450.98	458.75	340.10	118.65	3.866				
19,100.00	12,380.00	18,404.86	12,036.96	120.57	125.44	41.40	-6,761.16	446.24	458.01	336.45	121.56	3.768				
19,119.84	12,380.00	18,421.77	12,038.05	120.87	125.70	41.60	-6,778.01	445.28	457.92	335.82	122.11	3.750				
19,200.00	12,380.00	18,486.26	12,040.06	122.11	126.71	42.13	-6,842.38	441.99	459.31	335.47	123.85	3.709				
19,300.00	12,380.00	18,630.32	12,043.16	123.64	128.98	42.48	-6,986.30	442.46	458.26	332.15	126.11	3.634				
19,400.00	12,380.00	18,747.03	12,049.46	125.18	130.84	42.41	-7,102.59	450.07	450.59	323.50	127.08	3.546				
19,500.00	12,380.00	18,839.54	12,055.80	126.73	132.31	42.29	-7,194.52	458.10	440.41	312.24	128.18	3.436				
19,600.00	12,380.00	18,929.21	12,060.69	128.27	133.74	42.42	-7,283.96	462.09	433.97	304.21	129.76	3.344				
19,700.00	12,380.00	19,027.76	12,064.52	129.82	135.31	42.31	-7,382.28	467.69	427.94	297.09	130.85	3.271				
19,800.00	12,380.00	19,113.07	12,068.66	131.38	136.66	42.56	-7,467.46	469.79	423.45	290.88	132.57	3.194				
19,841.79	12,380.00	19,145.40	12,069.85	132.02	137.18	42.74	-7,499.75	469.35	422.98	289.60	133.38	3.171				
19,900.00	12,380.00	19,202.57	12,071.52	132.93	138.08	43.14	-7,556.88	467.48	423.42	288.55	134.87	3.139				
20,000.00	12,380.00	19,306.39	12,075.35	134.49	139.73	43.78	-7,660.61	465.61	422.63	285.23	137.40	3.076				
20,100.00	12,380.00	19,416.91	12,078.96	136.04	141.49	44.33	-7,771.06	464.48	421.78	281.95	139.83	3.016				
20,200.00	12,380.00	19,526.33	12,086.00	137.61	143.23	45.00	-7,880.24	465.70	417.07	274.80	142.26	2.932				
20,300.00	12,380.00	19,614.07	12,089.36	139.17	144.63	45.15	-7,967.85	468.40	412.92	269.04	143.88	2.870				
20,391.65	12,380.00	19,695.90	12,088.48	140.60	145.94	44.86	-8,049.63	471.29	411.95	267.38	144.57	2.849				
20,400.00	12,380.00	19,703.50	12,088.32	140.73	146.06	44.83	-8,057.23	471.52	411.96	267.33	144.63	2.848				
20,500.00	12,380.00	19,798.29	12,085.83	142.30	147.58	44.46	-8,151.95	473.67	412.91	267.56	145.35	2.841				
20,600.00	12,380.00	19,892.95	12,083.46	143.87	149.09	44.27	-8,246.59	474.27	414.95	268.58	146.37	2.835				
20,700.00	12,380.00	19,983.79	12,080.43	145.44	150.54	44.15	-8,337.37	473.45	418.67	271.24	147.44	2.840				
20,800.00	12,380.00	20,089.59	12,075.38	147.01	152.22	43.88	-8,443.03	472.31	423.58	274.88	148.70	2.849				
20,900.00	12,380.00	20,201.30	12,073.14	148.59	154.01	43.77	-8,554.72	472.37	425.67	275.44	150.22	2.834				
21,000.00	12,380.00	20,313.71	12,073.22	150.16	155.81	43.65	-8,667.09	474.81	424.78	273.29	151.48	2.804				
21,100.00	12,380.00	20,413.00	12,073.34	151.74	157.40	43.36	-8,766.30	478.87	422.56	270.30	152.26	2.775				
21,200.00	12,380.00	20,508.30	12,073.19	153.32	158.94	43.16	-8,861.56	481.68	421.32	268.10	153.21	2.750				
21,300.00	12,380.00	20,608.43	12,073.55	154.90	160.54	43.08	-8,961.67	483.86	420.25	265.83	154.41	2.722				
21,367.82	12,380.00	20,672.49	12,073.02	155.97	161.57	42.93	-9,025.70	485.48	419.94	264.92	155.02	2.709				
21,400.00	12,380.00	20,701.70	12,072.42	156.48	162.04	42.82	-9,054.90	486.27	420.05	264.82	155.23	2.706				
21,500.00	12,380.00	20,794.60	12,068.98	158.06	163.54	42.38	-9,147.70	488.44	421.84	266.16	155.68	2.710				
21,600.00	12,380.00	20,901.56	12,063.65	159.65	165.26	41.63	-9,254.47	492.15	423.92	268.14	155.78	2.721				
21,700.00	12,380.00	21,007.08	12,061.69	161.23	166.96	41.13	-9,359.87	496.39	423.27	267.07	156.20	2.710				
21,728.14	12,380.00	21,033.14	12,061.46	161.68	167.38	41.07	-9,385.93	497.01	423.20	266.75	156.45	2.705				
21,800.00	12,380.00	21,097.44	12,060.74	162.82	168.41	41.01	-9,450.22	497.68	423.78	266.58	157.20	2.696				
21,900.00	12,380.00	21,191.10	12,058.21	164.41	169.92	40.91	-9,543.85	497.35	426.68	268.35	158.33	2.695				
22,000.00	12,380.00	21,301.17	12,056.26	166.00	171.69	40.95	-9,653.89	496.36	429.30	269.24	160.06	2.682				
22,100.00	12,380.00	21,405.86	12,057.18	167.59	173.37	41.12	-9,758.57	496.50	429.18	267.36	161.81	2.652				
22,200.00	12,380.00	21,505.44	12,057.79	169.18	174.98	41.23	-9,858.15	496.95	429.07	265.69	163.38	2.626				
22,234.04	12,380.00	21,539.14	12,057.90	169.72	175.52	41.25	-9,891.85	497.19	429.05	265.18	163.88	2.618				
22,300.00	12,380.00	21,603.70	12,057.68	170.77	176.56	41.22	-9,956.41	497.91	429.16	264.46	164.70	2.606				
22,400.00	12,380.00	21,703.41	12,056.26	172.37	178.17	40.99	-10,056.08	499.93	429.56	263.96	165.59	2.594				
22,500.00	12,380.00	21,811.08	12,053.92	173.96	180.66	40.43	-10,163.62	504.47	429.10	263.00	166.09	2.583				
22,547.76	12,380.00	21,858.76	12,052.84	174.73	186.50	40.11	-10,211.22	507.21	428.45	260.55	167.90	2.552				
22,548.65	12,380.00	21,859.66	12,052.82	174.75	186.61	40.10	-10,212.11	507.27	428.44	260.49	167.94	2.551 SF				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 133-MWD, 1394-OWSG (Rev2) MWD, 22230-BLIND													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	0.94	0.94	0.00	0.00	50.77	465.15	569.77	735.53					
100.00	100.00	105.15	105.15	0.13	0.15	50.73	465.41	569.17	735.24	735.04	0.19	3,807.611		
200.00	200.00	201.70	201.69	0.48	0.43	50.67	465.64	568.37	734.75	734.11	0.65	1,137.539		
300.00	300.00	304.70	304.69	0.84	0.80	50.61	466.07	567.65	734.47	733.32	1.16	633.791		
400.00	400.00	404.98	404.97	1.20	1.16	50.56	466.31	566.92	734.07	732.40	1.67	440.519		
500.00	500.00	507.99	507.96	1.56	1.53	50.47	466.76	565.53	733.31	731.13	2.18	336.245		
600.00	600.00	613.99	613.95	1.92	1.91	50.34	467.10	563.49	732.04	729.33	2.70	270.829		
700.00	700.00	720.66	720.57	2.28	2.29	50.21	466.86	560.47	729.71	726.48	3.23	226.176		
800.00	800.00	822.37	822.21	2.63	2.66	50.04	466.64	556.84	726.83	723.09	3.74	194.462		
900.00	900.00	925.07	924.84	2.99	3.03	49.87	466.24	553.14	723.82	719.57	4.25	170.252		
1,000.00	1,000.00	1,029.61	1,029.29	3.35	3.41	49.67	465.78	548.56	720.20	715.43	4.77	150.976		
1,100.00	1,100.00	1,125.76	1,125.34	3.71	3.76	49.48	465.25	544.29	716.45	711.18	5.27	135.986		
1,200.00	1,200.00	1,225.03	1,224.53	4.07	4.12	49.33	464.38	540.42	712.92	707.15	5.77	123.470		
1,300.00	1,300.00	1,321.60	1,321.04	4.43	4.47	49.20	463.60	537.09	709.78	703.51	6.27	113.152		
1,400.00	1,400.00	1,418.78	1,418.15	4.79	4.65	49.00	463.74	533.47	707.06	700.41	6.65	106.275		
1,500.00	1,500.00	1,513.50	1,512.82	5.14	4.68	48.81	464.09	530.36	704.84	697.90	6.93	101.639		
1,589.26	1,589.26	1,590.84	1,590.15	5.46	4.72	48.75	464.23	529.27	704.02	696.82	7.20	97.775		
1,600.00	1,600.00	1,599.62	1,598.92	5.50	4.72	48.74	464.25	529.27	704.03	696.80	7.23	97.334		
1,700.00	1,700.00	1,683.06	1,682.35	5.86	4.78	48.80	464.64	530.67	705.58	698.04	7.54	93.550		
1,800.00	1,800.00	1,774.45	1,773.68	6.22	4.86	48.94	465.32	534.13	708.92	701.05	7.87	90.077		
1,900.00	1,900.00	1,872.82	1,871.95	6.58	4.96	49.10	466.42	538.39	712.91	704.69	8.22	86.721		
2,000.00	2,000.00	1,975.35	1,974.39	6.94	5.10	49.22	467.88	542.49	716.88	708.29	8.59	83.434		
2,100.00	2,100.00	2,083.15	2,082.07	7.29	5.26	49.49	467.64	547.27	720.10	711.12	8.98	80.158		
2,200.00	2,199.99	2,189.13	2,187.83	7.65	5.45	-24.58	464.16	553.14	721.02	711.64	9.38	76.875		
2,300.00	2,299.91	2,289.33	2,287.73	7.99	5.64	-24.12	459.54	559.27	719.19	709.41	9.77	73.578		
2,400.00	2,399.69	2,382.61	2,380.74	8.34	5.83	-23.79	455.47	565.26	715.41	705.24	10.17	70.337		
2,500.00	2,499.27	2,481.54	2,479.36	8.70	6.05	-23.54	451.82	572.03	710.01	699.43	10.59	67.068		
2,601.33	2,599.89	2,585.52	2,583.02	9.06	6.30	-23.35	447.57	579.11	701.83	690.81	11.02	63.670		
2,700.00	2,697.71	2,700.06	2,697.24	9.42	6.60	-23.17	442.22	585.49	691.38	679.90	11.48	60.240		
2,800.00	2,796.85	2,808.96	2,805.92	9.78	6.89	-23.05	436.30	589.18	678.59	666.67	11.93	56.883		
2,900.00	2,895.99	2,903.18	2,899.97	10.15	7.14	-22.98	431.28	592.02	665.61	653.24	12.37	53.814		
3,000.00	2,995.13	2,993.15	2,989.80	10.53	7.40	-22.95	427.61	595.24	653.82	641.02	12.81	51.052		
3,100.00	3,094.27	3,088.37	3,084.91	10.90	7.67	-22.99	424.97	599.07	643.18	629.92	13.26	48.512		
3,200.00	3,193.41	3,192.36	3,188.71	11.28	7.98	-22.92	420.90	603.82	632.27	618.54	13.73	46.054		
3,300.00	3,292.55	3,294.31	3,290.35	11.67	8.30	-22.66	415.15	609.32	620.95	606.75	14.20	43.722		
3,400.00	3,391.69	3,407.65	3,403.34	12.05	8.65	-22.37	408.04	614.42	608.61	593.92	14.69	41.425		
3,500.00	3,490.83	3,518.90	3,514.36	12.44	8.99	-22.30	400.98	615.57	593.42	578.25	15.17	39.115		
3,600.00	3,589.97	3,613.67	3,608.98	12.82	9.28	-22.37	395.71	615.23	577.67	562.03	15.64	36.936		
3,700.00	3,689.11	3,704.56	3,699.79	13.21	9.57	-22.53	391.92	615.33	563.11	547.01	16.11	34.958		
3,800.00	3,788.25	3,796.09	3,791.28	13.60	9.86	-22.73	389.27	616.18	549.98	533.40	16.58	33.171		
3,900.00	3,887.39	3,904.59	3,899.65	13.99	10.21	-22.78	384.71	618.58	537.10	520.03	17.07	31.463		
4,000.00	3,986.53	4,017.82	4,012.56	14.39	10.58	-22.58	376.39	620.08	521.55	504.00	17.56	29.705		
4,100.00	4,085.67	4,106.00	4,100.51	14.78	10.87	-22.48	370.01	620.58	505.52	487.48	18.05	28.014		
4,200.00	4,184.81	4,200.00	4,194.37	15.18	11.19	-22.50	365.06	621.58	491.06	472.53	18.53	26.498		
4,300.00	4,283.95	4,300.04	4,294.32	15.57	11.52	-22.62	360.86	622.74	477.32	458.29	19.02	25.092		
4,400.00	4,383.09	4,403.81	4,397.93	15.97	11.87	-22.65	355.23	623.66	462.60	443.09	19.51	23.707		
4,500.00	4,482.23	4,498.94	4,492.88	16.37	12.19	-22.60	349.63	624.88	447.92	427.91	20.01	22.387		
4,600.00	4,581.37	4,595.00	4,588.80	16.77	12.52	-22.59	344.76	626.56	434.10	413.60	20.50	21.171		
4,700.00	4,680.51	4,697.16	4,690.80	17.17	12.87	-22.56	339.38	628.40	420.21	399.20	21.00	20.008		
4,800.00	4,779.65	4,800.31	4,793.74	17.57	13.22	-22.46	332.94	629.70	405.30	383.80	21.50	18.855		
4,900.00	4,878.79	4,900.20	4,893.44	17.97	13.57	-22.41	326.65	630.18	389.75	367.75	21.99	17.722		
5,000.00	4,977.93	4,998.24	4,991.30	18.37	13.91	-22.44	320.84	630.40	374.21	351.72	22.49	16.638		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 133-MWD, 1394-OWSG (Rev2) MWD, 22230-BLIND													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		
5,100.00	5,077.07	5,097.88	5,090.79	18.77	14.25	-22.55	315.40	630.41	358.80	335.81	22.99	15.608		
5,200.00	5,176.21	5,193.01	5,185.78	19.17	14.58	-22.69	310.28	630.26	343.32	319.83	23.50	14.612		
5,300.00	5,275.35	5,288.56	5,281.17	19.57	14.92	-22.57	304.97	632.33	329.52	305.52	24.01	13.727		
5,400.00	5,374.49	5,387.40	5,379.77	19.98	15.27	-22.27	298.85	635.23	315.95	291.44	24.51	12.890		
5,500.00	5,473.63	5,486.82	5,478.95	20.38	15.62	-21.94	292.72	638.20	302.45	277.43	25.02	12.090		
5,600.00	5,572.77	5,582.06	5,573.96	20.78	15.96	-21.52	286.74	641.47	289.26	263.73	25.53	11.330		
5,700.00	5,671.91	5,679.19	5,670.78	21.19	16.31	-20.89	280.85	646.47	277.56	251.52	26.04	10.659		
5,800.00	5,771.05	5,777.76	5,769.03	21.59	16.67	-20.20	275.08	651.73	266.19	239.64	26.55	10.026		
5,900.00	5,870.19	5,877.35	5,868.33	22.00	17.03	-19.52	269.59	656.98	255.00	227.94	27.06	9.425		
6,000.00	5,969.33	5,977.20	5,967.89	22.40	17.39	-18.76	263.95	662.09	243.64	216.07	27.56	8.839		
6,100.00	6,068.47	6,075.96	6,066.36	22.81	17.75	-17.92	258.28	667.17	232.30	204.23	28.07	8.275		
6,200.00	6,167.61	6,175.52	6,165.64	23.22	18.11	-17.05	252.81	672.25	221.11	192.53	28.58	7.737		
6,300.00	6,266.75	6,274.59	6,264.43	23.62	18.47	-16.08	247.36	677.29	209.96	180.88	29.08	7.219		
6,400.00	6,365.89	6,373.44	6,362.98	24.03	18.83	-14.97	241.88	682.55	199.06	169.47	29.59	6.727		
6,500.00	6,465.03	6,472.66	6,461.90	24.44	19.19	-13.69	236.34	688.01	188.38	158.28	30.10	6.259		
6,600.00	6,564.17	6,571.81	6,560.75	24.84	19.55	-12.30	230.98	693.51	177.92	147.32	30.60	5.814		
6,700.00	6,663.31	6,671.97	6,660.61	25.25	19.92	-10.71	225.47	698.94	167.42	136.32	31.10	5.383		
6,800.00	6,762.45	6,773.53	6,762.01	25.66	20.28	-9.57	221.20	702.82	156.17	124.58	31.59	4.943		
6,856.14	6,818.11	6,831.24	6,819.69	25.89	20.48	-9.46	219.85	703.58	149.03	117.18	31.86	4.678		
6,900.00	6,861.62	6,874.61	6,863.06	26.06	20.63	-9.66	219.41	703.53	143.39	111.31	32.07	4.471		
7,000.00	6,961.05	6,973.18	6,961.62	26.46	20.94	-10.83	220.33	703.09	132.91	100.33	32.57	4.080		
7,100.00	7,060.72	7,072.63	7,061.06	26.84	21.25	-12.26	221.98	702.65	125.39	92.32	33.07	3.792		
7,200.00	7,160.57	7,172.27	7,160.69	27.20	21.56	-13.56	223.65	702.36	120.63	87.07	33.56	3.595		
7,300.00	7,260.53	7,272.24	7,260.64	27.55	21.87	-14.45	225.05	702.39	118.62	84.58	34.04	3.485		
7,333.91	7,294.44	7,306.23	7,294.63	27.66	21.98	-14.68	225.47	702.39	118.48	84.28	34.20	3.464		
7,357.47	7,318.00	7,329.81	7,318.21	27.74	22.05	-59.73	225.76	702.38	118.55	84.24	34.31	3.455		
7,400.00	7,360.53	7,372.35	7,360.75	27.88	22.19	-59.54	226.21	702.40	118.79	84.28	34.51	3.442		
7,500.00	7,460.53	7,472.25	7,460.65	28.21	22.51	-59.28	226.99	702.63	119.39	84.40	34.99	3.412		
7,600.00	7,560.53	7,572.20	7,560.60	28.54	22.84	-59.26	227.38	703.21	120.08	84.62	35.47	3.386		
7,700.00	7,660.53	7,671.99	7,660.38	28.87	23.17	-59.36	227.58	703.97	120.84	84.89	35.95	3.362		
7,800.00	7,760.53	7,771.31	7,759.69	29.20	23.51	-59.59	227.73	705.16	121.96	85.52	36.43	3.347		
7,900.00	7,860.53	7,870.50	7,858.86	29.53	23.85	-59.84	228.13	706.94	123.70	86.78	36.92	3.351		
8,000.00	7,960.53	7,970.21	7,958.55	29.87	24.19	-60.21	228.54	709.24	125.90	88.50	37.40	3.366		
8,100.00	8,060.53	8,069.80	8,058.10	30.20	24.53	-60.49	229.20	711.65	128.34	90.46	37.88	3.388		
8,200.00	8,160.53	8,169.46	8,157.73	30.53	24.86	-60.61	230.28	714.13	131.04	92.67	38.37	3.415		
8,300.00	8,260.53	8,268.77	8,256.99	30.87	25.20	-60.60	231.82	716.79	134.13	95.28	38.85	3.452		
8,400.00	8,360.53	8,368.84	8,357.01	31.20	25.53	-60.45	233.74	719.48	137.42	98.09	39.33	3.494		
8,500.00	8,460.53	8,469.28	8,457.40	31.54	25.87	-60.25	235.66	721.90	140.45	100.64	39.82	3.527		
8,600.00	8,560.53	8,570.10	8,558.18	31.88	26.21	-59.98	237.60	723.90	143.14	102.84	40.30	3.552		
8,700.00	8,660.53	8,672.15	8,660.22	32.21	26.55	-59.91	238.55	725.19	144.70	103.93	40.77	3.549		
8,800.00	8,760.53	8,773.46	8,761.52	32.55	26.90	-60.26	237.90	725.83	144.93	103.68	41.25	3.514		
8,900.00	8,860.53	8,873.67	8,861.72	32.89	27.25	-60.76	236.71	726.35	144.79	103.06	41.73	3.470		
9,000.00	8,960.53	8,973.66	8,961.69	33.23	27.60	-61.50	234.97	727.05	144.57	102.35	42.22	3.424		
9,087.45	9,047.98	9,060.86	9,048.88	33.52	27.91	-62.22	233.33	727.82	144.47	101.83	42.65	3.388		
9,100.00	9,060.53	9,073.36	9,061.38	33.56	27.96	-62.32	233.10	727.95	144.48	101.77	42.71	3.383		
9,200.00	9,160.53	9,172.43	9,160.43	33.90	28.30	-63.07	231.57	729.08	144.78	101.58	43.20	3.351		
9,300.00	9,260.53	9,271.52	9,259.50	34.24	28.65	-63.51	231.04	730.49	145.81	102.12	43.70	3.337		
9,400.00	9,360.53	9,372.99	9,360.97	34.58	29.01	-63.74	230.95	731.67	146.82	102.64	44.18	3.323		
9,500.00	9,460.53	9,473.01	9,460.98	34.92	29.35	-63.89	230.70	732.00	147.01	102.34	44.67	3.291		
9,600.00	9,560.53	9,571.17	9,559.14	35.26	29.69	-63.82	231.24	732.70	147.89	102.72	45.17	3.274		
9,700.00	9,660.53	9,673.80	9,661.77	35.60	30.03	-63.64	231.99	733.20	148.65	103.02	45.63	3.258		
9,800.00	9,760.53	9,775.38	9,763.34	35.94	30.37	-64.03	230.71	732.83	147.77	101.67	46.10	3.206		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 133-MWD, 1394-OWSG (Rev2) MWD, 22230-BLIND												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
18,300.00	12,380.00	17,886.46	12,221.04	108.41	113.30	-6.70	-5,968.54	760.10	161.52	84.13	77.39	2.087	
18,400.00	12,380.00	17,984.03	12,228.31	109.92	114.83	-8.38	-6,065.71	764.75	154.60	75.78	78.82	1.961	
18,500.00	12,380.00	18,084.16	12,236.55	111.43	116.40	-10.52	-6,165.36	770.06	147.18	66.84	80.35	1.832	
18,600.00	12,380.00	18,181.13	12,243.95	112.94	117.93	-13.62	-6,261.77	777.38	141.08	58.57	82.51	1.710	
18,700.00	12,380.00	18,280.17	12,249.24	114.46	119.49	-15.73	-6,360.54	782.26	136.90	52.53	84.37	1.623	
18,800.00	12,380.00	18,381.31	12,254.12	115.98	121.08	-16.38	-6,461.56	783.45	132.32	46.84	85.48	1.548	
18,900.00	12,380.00	18,478.70	12,258.70	117.51	122.60	-16.91	-6,558.83	784.30	127.79	41.01	86.78	1.473 Level 3	
19,000.00	12,380.00	18,575.76	12,260.48	119.04	124.12	-16.95	-6,655.87	784.80	125.89	37.97	87.92	1.432 Level 3	
19,100.00	12,380.00	18,675.89	12,260.94	120.57	125.70	-16.69	-6,756.00	785.06	125.24	36.46	88.78	1.411 Level 3	
19,200.00	12,380.00	18,778.95	12,263.33	122.11	127.32	-17.25	-6,859.02	786.62	123.18	33.39	89.79	1.372 Level 3	
19,300.00	12,380.00	18,884.39	12,270.33	123.64	128.99	-19.14	-6,964.17	789.52	117.42	26.43	90.99	1.291 Level 3	
19,400.00	12,380.00	18,984.14	12,279.80	125.18	130.57	-21.93	-7,063.41	792.84	109.33	16.29	93.05	1.175 Level 2	
19,500.00	12,380.00	19,081.31	12,287.27	126.73	132.11	-24.22	-7,160.25	795.21	102.82	7.51	95.31	1.079 Level 2	
19,600.00	12,380.00	19,179.53	12,293.38	128.27	133.67	-26.53	-7,258.25	797.76	97.89	0.27	97.62	1.003 Level 2	
19,653.60	12,380.00	19,229.61	12,294.48	129.11	134.46	-26.93	-7,308.31	798.45	96.93	-1.88	98.81	0.981 Level 1, CC, ES, SF	
19,700.00	12,380.00	19,273.81	12,293.49	129.82	135.16	-26.37	-7,352.49	798.31	97.58	-1.60	99.19	0.984 Level 1	
19,800.00	12,380.00	19,372.48	12,289.93	131.38	136.72	-25.11	-7,451.09	798.59	100.53	0.81	99.71	1.008 Level 2	
19,900.00	12,380.00	19,470.34	12,285.90	132.93	138.27	-24.84	-7,548.84	800.89	104.85	3.96	100.89	1.039 Level 2	
20,000.00	12,380.00	19,566.88	12,278.25	134.49	139.80	-23.56	-7,645.06	802.64	112.40	10.87	101.53	1.107 Level 2	
20,100.00	12,380.00	19,668.00	12,268.99	136.04	141.40	-21.40	-7,745.75	802.72	120.53	18.89	101.64	1.186 Level 2	
20,200.00	12,380.00	19,769.38	12,261.44	137.61	143.01	-19.60	-7,846.85	802.40	127.04	25.18	101.86	1.247 Level 2	
20,300.00	12,380.00	19,875.03	12,255.29	139.17	144.68	-18.29	-7,952.31	802.43	132.32	30.14	102.17	1.295 Level 3	
20,400.00	12,380.00	19,977.54	12,256.02	140.73	146.32	-18.29	-8,054.81	803.20	131.53	28.48	103.04	1.276 Level 3	
20,402.30	12,380.00	19,979.73	12,256.02	140.77	146.35	-18.29	-8,057.00	803.22	131.53	28.45	103.07	1.276 Level 3	
20,500.00	12,380.00	20,074.89	12,254.90	142.30	147.87	-18.32	-8,152.13	804.61	132.75	28.47	104.28	1.273 Level 3	
20,600.00	12,380.00	20,173.72	12,252.77	143.87	149.44	-18.46	-8,250.92	806.63	135.13	29.62	105.51	1.281 Level 3	
20,700.00	12,380.00	20,274.85	12,251.06	145.44	151.06	-19.44	-8,351.95	810.68	137.72	30.57	107.15	1.285 Level 3	
20,800.00	12,380.00	20,376.91	12,252.33	147.01	152.70	-22.35	-8,453.68	818.73	139.02	29.03	109.99	1.264 Level 3	
20,900.00	12,380.00	20,478.96	12,255.05	148.59	154.35	-25.14	-8,555.43	825.94	139.03	26.12	112.91	1.231 Level 2	
21,000.00	12,380.00	20,579.03	12,257.13	150.16	155.95	-26.51	-8,655.40	829.60	138.31	23.33	114.98	1.203 Level 2	
21,033.05	12,380.00	20,611.14	12,257.35	150.68	156.47	-26.62	-8,687.51	830.09	138.20	22.71	115.49	1.197 Level 2	
21,100.00	12,380.00	20,675.00	12,256.58	151.74	157.49	-26.29	-8,751.36	830.21	138.69	22.51	116.18	1.194 Level 2	
21,200.00	12,380.00	20,773.66	12,253.28	153.32	159.06	-25.15	-8,849.96	829.70	141.06	24.52	116.54	1.210 Level 2	
21,300.00	12,380.00	20,874.30	12,249.07	154.90	160.67	-23.67	-8,950.51	828.55	144.00	27.41	116.59	1.235 Level 2	
21,400.00	12,380.00	20,974.08	12,244.78	156.48	162.26	-22.05	-9,050.18	826.90	146.93	30.32	116.60	1.260 Level 3	
21,500.00	12,380.00	21,075.71	12,240.57	158.06	163.88	-20.12	-9,151.69	824.18	149.48	33.12	116.36	1.285 Level 3	
21,600.00	12,380.00	21,179.39	12,238.94	159.65	165.54	-19.09	-9,255.34	822.91	150.22	33.66	116.56	1.289 Level 3	
21,700.00	12,380.00	21,279.68	12,239.80	161.23	167.14	-18.60	-9,355.62	822.25	148.88	31.64	117.24	1.270 Level 3	
21,720.24	12,380.00	21,298.89	12,239.67	161.55	167.45	-18.36	-9,374.82	821.84	148.81	31.42	117.39	1.268 Level 3	
21,800.00	12,380.00	21,375.54	12,237.57	162.82	168.67	-16.85	-9,451.40	819.12	149.79	32.25	117.54	1.274 Level 3	
21,900.00	12,380.00	21,472.96	12,233.14	164.41	170.22	-14.68	-9,548.64	815.39	152.87	35.30	117.57	1.300 Level 3	
22,000.00	12,380.00	21,570.53	12,227.52	166.00	171.78	-12.89	-9,646.02	812.74	157.58	39.74	117.85	1.337 Level 3	
22,100.00	12,380.00	21,671.68	12,221.09	167.59	173.40	-11.50	-9,746.94	811.14	163.27	44.93	118.34	1.380 Level 3	
22,200.00	12,380.00	21,772.90	12,216.85	169.18	175.02	-10.91	-9,848.07	811.25	167.20	48.02	119.18	1.403 Level 3	
22,300.00	12,380.00	21,872.30	12,212.79	170.77	176.63	-10.94	-9,947.37	813.10	171.37	51.08	120.29	1.425 Level 3	
22,400.00	12,380.00	21,972.02	12,208.99	172.37	178.24	-11.68	-10,046.94	817.13	175.71	53.99	121.72	1.444 Level 3	
22,500.00	12,380.00	22,069.38	12,204.98	173.96	179.82	-12.73	-10,144.07	822.31	180.67	57.32	123.35	1.465 Level 3	
22,547.76	12,380.00	22,115.34	12,202.55	174.73	180.56	-13.28	-10,189.89	825.10	183.67	59.51	124.16	1.479 Level 3	
22,548.65	12,380.00	22,116.21	12,202.50	174.75	180.57	-13.29	-10,190.75	825.15	183.73	59.79	123.95	1.482 Level 3	

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	12,380.00	10,138.72	8,480.00	53.51	42.47	21.04	-1,770.31	-800.73	4,178.69	4,136.53	42.16	99.105		
14,200.00	12,380.00	10,238.72	8,480.00	54.44	43.59	21.04	-1,870.31	-799.74	4,178.69	4,135.75	42.94	97.306		
14,300.00	12,380.00	10,338.72	8,480.00	55.40	44.74	21.04	-1,970.30	-798.75	4,178.69	4,134.94	43.75	95.514		
14,400.00	12,380.00	10,438.72	8,480.00	56.39	45.92	21.04	-2,070.30	-797.76	4,178.69	4,134.11	44.58	93.737		
14,500.00	12,380.00	10,538.72	8,480.00	57.41	47.14	21.04	-2,170.29	-796.76	4,178.69	4,133.26	45.43	91.980		
14,600.00	12,380.00	10,638.72	8,480.00	58.46	48.37	21.04	-2,270.29	-795.77	4,178.68	4,132.38	46.30	90.244		
14,700.00	12,380.00	10,738.72	8,480.00	59.54	49.64	21.04	-2,370.28	-794.78	4,178.68	4,131.48	47.20	88.533		
14,800.00	12,380.00	10,838.72	8,480.00	60.64	50.92	21.04	-2,470.28	-793.78	4,178.68	4,130.57	48.11	86.850		
14,900.00	12,380.00	10,938.72	8,480.00	61.77	52.23	21.04	-2,570.27	-792.79	4,178.68	4,129.63	49.05	85.197		
15,000.00	12,380.00	11,038.72	8,480.00	62.92	53.55	21.04	-2,670.27	-791.80	4,178.68	4,128.68	50.00	83.576		
15,100.00	12,380.00	11,138.72	8,480.00	64.09	54.89	21.04	-2,770.26	-790.81	4,178.68	4,127.71	50.97	81.987		
15,200.00	12,380.00	11,238.72	8,480.00	65.28	56.25	21.04	-2,870.26	-789.81	4,178.67	4,126.72	51.95	80.433		
15,300.00	12,380.00	11,338.72	8,480.00	66.50	57.62	21.04	-2,970.25	-788.82	4,178.67	4,125.72	52.95	78.914		
15,400.00	12,380.00	11,438.72	8,480.00	67.73	59.01	21.04	-3,070.25	-787.83	4,178.67	4,124.71	53.96	77.433		
15,500.00	12,380.00	11,538.72	8,480.00	68.98	60.41	21.04	-3,170.24	-786.83	4,178.67	4,123.68	54.99	75.991		
15,600.00	12,380.00	11,638.72	8,480.00	70.24	61.82	21.04	-3,270.24	-785.84	4,178.67	4,122.64	56.03	74.586		
15,700.00	12,380.00	11,738.72	8,480.00	71.52	63.25	21.04	-3,370.23	-784.85	4,178.66	4,121.59	57.08	73.213		
15,800.00	12,380.00	11,838.72	8,480.00	72.82	64.68	21.04	-3,470.23	-783.85	4,178.66	4,120.53	58.14	71.877		
15,900.00	12,380.00	11,938.72	8,480.00	74.13	66.13	21.04	-3,570.22	-782.86	4,178.66	4,119.45	59.21	70.578		
16,000.00	12,380.00	12,038.72	8,480.00	75.46	67.58	21.04	-3,670.22	-781.87	4,178.66	4,118.37	60.29	69.314		
16,100.00	12,380.00	12,138.72	8,480.00	76.79	69.05	21.04	-3,770.21	-780.88	4,178.66	4,117.28	61.37	68.085		
16,200.00	12,380.00	12,238.72	8,480.00	78.14	70.52	21.04	-3,870.21	-779.88	4,178.66	4,116.18	62.47	66.889		
16,300.00	12,380.00	12,338.72	8,480.00	79.50	72.00	21.04	-3,970.20	-778.89	4,178.65	4,115.08	63.58	65.725		
16,400.00	12,380.00	12,438.72	8,480.00	80.87	73.49	21.04	-4,070.20	-777.90	4,178.65	4,113.96	64.69	64.593		
16,500.00	12,380.00	12,538.72	8,480.00	82.25	74.98	21.04	-4,170.19	-776.90	4,178.65	4,112.84	65.82	63.491		
16,600.00	12,380.00	12,638.72	8,480.00	83.64	76.48	21.04	-4,270.19	-775.91	4,178.65	4,111.70	66.95	62.419		
16,700.00	12,380.00	12,738.72	8,480.00	85.04	77.99	21.04	-4,370.18	-774.92	4,178.65	4,110.57	68.08	61.377		
16,800.00	12,380.00	12,838.72	8,480.00	86.45	79.50	21.04	-4,470.18	-773.93	4,178.65	4,109.42	69.23	60.363		
16,900.00	12,380.00	12,938.72	8,480.00	87.87	81.02	21.04	-4,570.18	-772.93	4,178.64	4,108.27	70.37	59.379		
17,000.00	12,380.00	13,038.72	8,480.00	89.30	82.54	21.04	-4,670.17	-771.94	4,178.64	4,107.12	71.53	58.422		
17,100.00	12,380.00	13,138.72	8,480.00	90.73	84.07	21.04	-4,770.17	-770.95	4,178.64	4,105.96	72.68	57.491		
17,200.00	12,380.00	13,238.72	8,480.00	92.17	85.60	21.04	-4,870.16	-769.95	4,178.64	4,104.79	73.85	56.585		
17,300.00	12,380.00	13,338.72	8,480.00	93.62	87.13	21.04	-4,970.16	-768.96	4,178.64	4,103.62	75.02	55.703		
17,400.00	12,380.00	13,438.72	8,480.00	95.07	88.67	21.04	-5,070.15	-767.97	4,178.63	4,102.44	76.19	54.845		
17,500.00	12,380.00	13,538.72	8,480.00	96.53	90.22	21.04	-5,170.15	-766.98	4,178.63	4,101.26	77.37	54.010		
17,600.00	12,380.00	13,638.72	8,480.00	98.00	91.77	21.04	-5,270.14	-765.98	4,178.63	4,100.08	78.55	53.196		
17,700.00	12,380.00	13,738.72	8,480.00	99.47	93.32	21.04	-5,370.14	-764.99	4,178.63	4,098.89	79.74	52.404		
17,800.00	12,380.00	13,838.72	8,480.00	100.95	94.87	21.04	-5,470.13	-764.00	4,178.63	4,097.70	80.93	51.633		
17,900.00	12,380.00	13,938.72	8,480.00	102.43	96.43	21.04	-5,570.13	-763.00	4,178.63	4,096.50	82.12	50.882		
18,000.00	12,380.00	14,038.72	8,480.00	103.92	97.99	21.04	-5,670.12	-762.01	4,178.62	4,095.30	83.32	50.150		
18,100.00	12,380.00	14,138.72	8,480.00	105.41	99.56	21.04	-5,770.12	-761.02	4,178.62	4,094.10	84.53	49.436		
18,200.00	12,380.00	14,238.72	8,480.00	106.91	101.13	21.04	-5,870.11	-760.03	4,178.62	4,092.89	85.73	48.741		
18,300.00	12,380.00	14,338.72	8,480.00	108.41	102.69	21.04	-5,970.11	-759.03	4,178.62	4,091.68	86.94	48.065		
18,400.00	12,380.00	14,438.72	8,480.00	109.92	104.27	21.04	-6,070.10	-758.04	4,178.62	4,090.47	88.15	47.406		
18,500.00	12,380.00	14,538.72	8,480.00	111.43	105.84	21.04	-6,170.10	-757.05	4,178.61	4,089.26	89.36	46.763		
18,600.00	12,380.00	14,638.72	8,480.00	112.94	107.42	21.04	-6,270.09	-756.05	4,178.61	4,088.04	90.57	46.136		
18,700.00	12,380.00	14,738.72	8,480.00	114.46	109.00	21.04	-6,370.09	-755.06	4,178.61	4,086.82	91.79	45.523		
18,800.00	12,380.00	14,838.72	8,480.00	115.98	110.58	21.04	-6,470.08	-754.07	4,178.61	4,085.60	93.01	44.925		
18,900.00	12,380.00	14,938.72	8,480.00	117.51	112.16	21.04	-6,570.08	-753.08	4,178.61	4,084.37	94.24	44.342		
19,000.00	12,380.00	15,038.72	8,480.00	119.04	113.75	21.04	-6,670.07	-752.08	4,178.61	4,083.14	95.46	43.772		
19,100.00	12,380.00	15,138.72	8,480.00	120.57	115.33	21.04	-6,770.07	-751.09	4,178.60	4,081.91	96.69	43.216		
19,200.00	12,380.00	15,238.72	8,480.00	122.11	116.92	21.04	-6,870.06	-750.10	4,178.60	4,080.68	97.92	42.674		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	12,380.00	15,338.72	8,480.00	123.64	118.51	21.04	-6,970.06	-749.10	4,178.60	4,079.45	99.15	42.145		
19,400.00	12,380.00	15,438.72	8,480.00	125.18	120.11	21.04	-7,070.05	-748.11	4,178.60	4,078.22	100.38	41.627		
19,500.00	12,380.00	15,538.72	8,480.00	126.73	121.70	21.04	-7,170.05	-747.12	4,178.60	4,076.98	101.62	41.121		
19,600.00	12,380.00	15,638.72	8,480.00	128.27	123.29	21.04	-7,270.04	-746.12	4,178.60	4,075.74	102.86	40.626		
19,700.00	12,380.00	15,738.72	8,480.00	129.82	124.89	21.04	-7,370.04	-745.13	4,178.59	4,074.50	104.09	40.143		
19,800.00	12,380.00	15,838.72	8,480.00	131.38	126.49	21.04	-7,470.03	-744.14	4,178.59	4,073.26	105.33	39.670		
19,900.00	12,380.00	15,938.72	8,480.00	132.93	128.09	21.04	-7,570.03	-743.15	4,178.59	4,072.02	106.57	39.209		
20,000.00	12,380.00	16,038.72	8,480.00	134.49	129.69	21.04	-7,670.02	-742.15	4,178.59	4,070.77	107.82	38.757		
20,100.00	12,380.00	16,138.72	8,480.00	136.04	131.29	21.04	-7,770.02	-741.16	4,178.59	4,069.53	109.06	38.315		
20,200.00	12,380.00	16,238.72	8,480.00	137.61	132.89	21.04	-7,870.01	-740.17	4,178.58	4,068.28	110.30	37.882		
20,300.00	12,380.00	16,338.72	8,480.00	139.17	134.50	21.04	-7,970.01	-739.17	4,178.58	4,067.03	111.55	37.458		
20,400.00	12,380.00	16,438.72	8,480.00	140.73	136.10	21.04	-8,070.00	-738.18	4,178.58	4,065.78	112.80	37.044		
20,500.00	12,380.00	16,538.72	8,480.00	142.30	137.71	21.04	-8,170.00	-737.19	4,178.58	4,064.53	114.05	36.637		
20,600.00	12,380.00	16,638.72	8,480.00	143.87	139.32	21.04	-8,269.99	-736.20	4,178.58	4,063.27	115.30	36.240		
20,700.00	12,380.00	16,738.72	8,480.00	145.44	140.93	21.04	-8,369.99	-735.20	4,178.58	4,062.02	116.55	35.851		
20,800.00	12,380.00	16,838.72	8,480.00	147.01	142.54	21.04	-8,469.98	-734.21	4,178.57	4,060.77	117.81	35.470		
20,900.00	12,380.00	16,938.72	8,480.00	148.59	144.15	21.04	-8,569.98	-733.22	4,178.57	4,059.51	119.06	35.097		
21,000.00	12,380.00	17,038.72	8,480.00	150.16	145.76	21.04	-8,669.97	-732.22	4,178.57	4,058.26	120.31	34.731		
21,100.00	12,380.00	17,138.72	8,480.00	151.74	147.37	21.04	-8,769.97	-731.23	4,178.57	4,057.00	121.57	34.373		
21,200.00	12,380.00	17,238.72	8,480.00	153.32	148.98	21.04	-8,869.96	-730.24	4,178.57	4,055.74	122.82	34.021		
21,300.00	12,380.00	17,338.72	8,480.00	154.90	150.60	21.04	-8,969.96	-729.25	4,178.56	4,054.48	124.08	33.676		
21,400.00	12,380.00	17,438.72	8,480.00	156.48	152.21	21.04	-9,069.95	-728.25	4,178.56	4,053.22	125.34	33.338		
21,500.00	12,380.00	17,538.72	8,480.00	158.06	153.83	21.04	-9,169.95	-727.26	4,178.56	4,051.96	126.60	33.006		
21,600.00	12,380.00	17,638.72	8,480.00	159.65	155.45	21.04	-9,269.94	-726.27	4,178.56	4,050.70	127.86	32.681		
21,700.00	12,380.00	17,738.72	8,480.00	161.23	157.06	21.04	-9,369.94	-725.27	4,178.56	4,049.44	129.12	32.362		
21,800.00	12,380.00	17,838.72	8,480.00	162.82	158.68	21.04	-9,469.93	-724.28	4,178.56	4,048.17	130.38	32.048		
21,900.00	12,380.00	17,938.72	8,480.00	164.41	160.30	21.04	-9,569.93	-723.29	4,178.55	4,046.91	131.64	31.741		
22,000.00	12,380.00	18,038.72	8,480.00	166.00	161.92	21.04	-9,669.92	-722.30	4,178.55	4,045.65	132.91	31.440		
22,100.00	12,380.00	18,138.72	8,480.00	167.59	163.54	21.04	-9,769.92	-721.30	4,178.55	4,044.38	134.17	31.144		
22,200.00	12,380.00	18,238.72	8,480.00	169.18	165.16	21.04	-9,869.91	-720.31	4,178.55	4,043.12	135.43	30.854		
22,300.00	12,380.00	18,338.72	8,480.00	170.77	166.78	21.04	-9,969.91	-719.32	4,178.55	4,041.85	136.70	30.568		
22,400.00	12,380.00	18,438.72	8,480.00	172.37	168.40	21.04	-10,069.90	-718.32	4,178.55	4,040.58	137.96	30.288		
22,500.00	12,380.00	18,538.72	8,480.00	173.96	170.02	21.04	-10,169.90	-717.33	4,178.54	4,039.32	139.23	30.012		
22,547.76	12,380.00	18,586.48	8,480.00	174.73	170.80	21.04	-10,217.65	-716.86	4,178.54	4,038.71	139.83	29.883		
22,548.65	12,380.00	18,587.38	8,480.00	174.75	170.81	21.04	-10,218.55	-716.85	4,178.54	4,038.70	139.84	29.880		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													PF Fed Com - Paul Foster Fed Com 104H - OH - Plan #1		Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD															Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	0.00	0.00	0.00	0.00	169.84	-74.82	13.41	76.01							
100.00	100.00	100.00	100.00	0.13	0.13	169.84	-74.82	13.41	76.01	75.84	0.18	428.406				
200.00	200.00	200.00	200.00	0.48	0.48	169.84	-74.82	13.41	76.01	75.33	0.68	111.068				
300.00	300.00	300.00	300.00	0.84	0.84	169.84	-74.82	13.41	76.01	74.82	1.19	63.805				
400.00	400.00	400.00	400.00	1.20	1.20	169.84	-74.82	13.41	76.01	74.32	1.70	44.759				
500.00	500.00	500.00	500.00	1.56	1.56	169.84	-74.82	13.41	76.01	73.81	2.21	34.470				
600.00	600.00	600.00	600.00	1.92	1.92	169.84	-74.82	13.41	76.01	73.30	2.71	28.027				
700.00	700.00	700.00	700.00	2.28	2.28	169.84	-74.82	13.41	76.01	72.79	3.22	23.613				
800.00	800.00	800.00	800.00	2.63	2.63	169.84	-74.82	13.41	76.01	72.29	3.73	20.400				
900.00	900.00	900.00	900.00	2.99	2.99	169.84	-74.82	13.41	76.01	71.78	4.23	17.957				
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	169.84	-74.82	13.41	76.01	71.27	4.74	16.037				
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	169.84	-74.82	13.41	76.01	70.77	5.25	14.487				
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	169.84	-74.82	13.41	76.01	70.26	5.75	13.211				
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	169.84	-74.82	13.41	76.01	69.75	6.26	12.141				
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	169.84	-74.82	13.41	76.01	69.25	6.77	11.232				
1,500.00	1,500.00	1,500.00	1,500.00	5.14	5.14	169.84	-74.82	13.41	76.01	68.74	7.27	10.449				
1,600.00	1,600.00	1,600.00	1,600.00	5.50	5.50	169.84	-74.82	13.41	76.01	68.23	7.78	9.768				
1,700.00	1,700.00	1,700.00	1,700.00	5.86	5.86	169.84	-74.82	13.41	76.01	67.73	8.29	9.171				
1,800.00	1,800.00	1,800.00	1,800.00	6.22	6.22	169.84	-74.82	13.41	76.01	67.22	8.80	8.642				
1,900.00	1,900.00	1,900.00	1,900.00	6.58	6.58	169.84	-74.82	13.41	76.01	66.71	9.30	8.171				
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	169.84	-74.82	13.41	76.01	66.20	9.81	7.749				
2,100.00	2,100.00	2,100.00	2,100.00	7.29	7.29	169.84	-74.82	13.41	76.01	65.70	10.32	7.368 CC				
2,200.00	2,199.99	2,200.12	2,200.11	7.65	7.65	95.30	-74.51	14.68	76.06	65.24	10.81	7.033				
2,300.00	2,299.91	2,300.24	2,300.15	7.99	7.99	95.29	-73.59	18.51	76.19	64.88	11.31	6.739				
2,400.00	2,399.69	2,400.35	2,400.05	8.34	8.34	95.27	-72.05	24.88	76.40	64.60	11.80	6.475				
2,500.00	2,499.27	2,500.47	2,499.74	8.70	8.70	95.24	-69.90	33.79	76.70	64.40	12.30	6.237				
2,601.33	2,599.89	2,601.92	2,600.48	9.06	9.06	95.20	-67.10	45.42	77.10	64.28	12.81	6.018				
2,700.00	2,697.71	2,700.64	2,698.21	9.42	9.42	94.44	-63.83	58.93	77.47	64.15	13.32	5.817				
2,800.00	2,796.85	2,800.63	2,797.16	9.78	9.79	93.43	-60.45	72.95	77.85	64.01	13.84	5.626				
2,900.00	2,895.99	2,900.62	2,896.10	10.15	10.16	92.43	-57.07	86.97	78.26	63.90	14.36	5.448				
3,000.00	2,995.13	3,000.61	2,995.05	10.53	10.54	91.44	-53.68	100.99	78.69	63.80	14.90	5.283				
3,100.00	3,094.27	3,100.60	3,093.99	10.90	10.92	90.46	-50.30	115.01	79.15	63.72	15.43	5.129				
3,200.00	3,193.41	3,200.59	3,192.93	11.28	11.30	89.49	-46.91	129.03	79.62	63.66	15.97	4.986				
3,300.00	3,292.55	3,300.58	3,291.88	11.67	11.69	88.53	-43.53	143.05	80.12	63.61	16.51	4.853				
3,400.00	3,391.69	3,400.57	3,390.82	12.05	12.08	87.59	-40.14	157.07	80.65	63.59	17.05	4.729				
3,500.00	3,490.83	3,500.56	3,489.77	12.44	12.47	86.66	-36.76	171.09	81.19	63.59	17.60	4.613 ES				
3,600.00	3,589.97	3,600.55	3,588.71	12.82	12.86	85.74	-33.38	185.11	81.76	63.60	18.15	4.504				
3,700.00	3,689.11	3,700.54	3,687.66	13.21	13.26	84.83	-29.99	199.14	82.34	63.64	18.70	4.403				
3,800.00	3,788.25	3,800.53	3,786.60	13.60	13.66	83.94	-26.61	213.16	82.95	63.69	19.26	4.308				
3,900.00	3,887.39	3,900.52	3,885.54	13.99	14.06	83.06	-23.22	227.18	83.57	63.76	19.81	4.219				
4,000.00	3,986.53	4,000.51	3,984.49	14.39	14.46	82.19	-19.84	241.20	84.22	63.85	20.37	4.135				
4,100.00	4,085.67	4,100.50	4,083.43	14.78	14.86	81.34	-16.45	255.22	84.88	63.96	20.92	4.057				
4,200.00	4,184.81	4,200.49	4,182.38	15.18	15.26	80.50	-13.07	269.24	85.57	64.09	21.48	3.984				
4,300.00	4,283.95	4,300.48	4,281.32	15.57	15.67	79.67	-9.69	283.26	86.27	64.23	22.04	3.915				
4,400.00	4,383.09	4,400.47	4,380.26	15.97	16.07	78.85	-6.30	297.28	86.99	64.39	22.59	3.850				
4,500.00	4,482.23	4,500.46	4,479.21	16.37	16.48	78.05	-2.92	311.30	87.72	64.57	23.15	3.789				
4,600.00	4,581.37	4,600.45	4,578.15	16.77	16.89	77.27	0.47	325.32	88.47	64.76	23.71	3.731				
4,700.00	4,680.51	4,700.44	4,677.10	17.17	17.30	76.50	3.85	339.34	89.24	64.97	24.27	3.677				
4,800.00	4,779.65	4,800.43	4,776.04	17.57	17.70	75.74	7.24	353.36	90.03	65.20	24.83	3.626				
4,900.00	4,878.79	4,900.42	4,874.99	17.97	18.11	74.99	10.62	367.38	90.83	65.44	25.39	3.578				
5,000.00	4,977.93	5,000.41	4,973.93	18.37	18.52	74.26	14.00	381.40	91.64	65.70	25.94	3.532				
5,100.00	5,077.07	5,100.40	5,072.87	18.77	18.94	73.54	17.39	395.42	92.48	65.97	26.50	3.489				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		
5,200.00	5,176.21	5,200.39	5,171.82	19.17	19.35	72.83	20.77	409.44	93.32	66.26	27.06	3.449		
5,300.00	5,275.35	5,300.38	5,270.76	19.57	19.76	72.13	24.16	423.46	94.18	66.56	27.62	3.410		
5,400.00	5,374.49	5,400.37	5,369.71	19.98	20.17	71.45	27.54	437.48	95.05	66.88	28.17	3.374		
5,500.00	5,473.63	5,500.36	5,468.65	20.38	20.59	70.78	30.92	451.50	95.94	67.21	28.73	3.339		
5,600.00	5,572.77	5,600.35	5,567.59	20.78	21.00	70.13	34.31	465.52	96.84	67.55	29.29	3.307		
5,700.00	5,671.91	5,700.34	5,666.54	21.19	21.42	69.48	37.69	479.54	97.75	67.91	29.84	3.276		
5,800.00	5,771.05	5,800.33	5,765.48	21.59	21.83	68.85	41.08	493.56	98.67	68.27	30.40	3.246		
5,900.00	5,870.19	5,900.32	5,864.43	22.00	22.25	68.23	44.46	507.58	99.61	68.65	30.95	3.218		
6,000.00	5,969.33	6,000.31	5,963.37	22.40	22.66	67.62	47.85	521.60	100.55	69.05	31.51	3.192		
6,100.00	6,068.47	6,100.30	6,062.32	22.81	23.08	67.02	51.23	535.62	101.51	69.45	32.06	3.166		
6,200.00	6,167.61	6,200.29	6,161.26	23.22	23.49	66.43	54.61	549.64	102.48	69.87	32.61	3.142		
6,300.00	6,266.75	6,300.28	6,260.20	23.62	23.91	65.86	58.00	563.67	103.46	70.29	33.16	3.120		
6,400.00	6,365.89	6,400.27	6,359.15	24.03	24.33	65.29	61.38	577.69	104.45	70.73	33.72	3.098		
6,500.00	6,465.03	6,500.26	6,458.09	24.44	24.74	64.74	64.77	591.71	105.45	71.18	34.27	3.077		
6,600.00	6,564.17	6,600.25	6,557.04	24.84	25.16	64.19	68.15	605.73	106.45	71.64	34.82	3.058		
6,700.00	6,663.31	6,700.24	6,655.98	25.25	25.58	63.66	71.54	619.75	107.47	72.11	35.37	3.039		
6,800.00	6,762.45	6,800.23	6,754.92	25.66	26.00	63.14	74.92	633.77	108.50	72.58	35.92	3.021		
6,856.14	6,818.11	6,856.36	6,810.48	25.89	26.23	62.85	76.82	641.64	109.08	72.86	36.22	3.011		
6,900.00	6,861.62	6,900.84	6,854.53	26.06	26.42	62.63	78.26	647.62	109.53	73.06	36.47	3.003		
7,000.00	6,961.05	7,002.27	6,955.23	26.46	26.82	62.13	81.11	659.40	110.48	73.46	37.01	2.985		
7,100.00	7,060.72	7,103.74	7,056.25	26.84	27.21	61.63	83.32	668.57	111.34	73.81	37.53	2.966		
7,200.00	7,160.57	7,205.24	7,157.52	27.20	27.59	61.14	84.90	675.13	112.12	74.09	38.03	2.949		
7,300.00	7,260.53	7,306.77	7,258.97	27.55	27.95	60.65	85.86	679.08	112.81	74.32	38.49	2.931		
7,357.47	7,318.00	7,365.14	7,317.32	27.74	28.14	134.90	86.12	680.16	113.17	74.42	38.75	2.921		
7,400.00	7,360.53	7,408.33	7,360.52	27.88	28.29	134.79	86.18	680.41	113.30	74.36	38.94	2.910		
7,500.00	7,460.53	7,508.34	7,460.53	28.21	28.61	134.79	86.18	680.41	113.30	73.89	39.41	2.875		
7,600.00	7,560.53	7,608.34	7,560.53	28.54	28.94	134.79	86.18	680.41	113.30	73.42	39.88	2.841		
7,700.00	7,660.53	7,708.34	7,660.53	28.87	29.26	134.79	86.18	680.41	113.30	72.95	40.35	2.808		
7,800.00	7,760.53	7,808.34	7,760.53	29.20	29.59	134.79	86.18	680.41	113.30	72.48	40.82	2.776		
7,811.47	7,772.00	7,819.81	7,772.00	29.24	29.63	134.79	86.18	680.41	113.30	72.42	40.88	2.772		
7,900.00	7,860.53	7,906.68	7,858.86	29.53	29.91	134.83	86.06	680.41	113.40	72.09	41.31	2.745 SF		
8,000.00	7,960.53	7,993.36	7,945.06	29.87	30.17	137.64	77.73	680.49	120.46	78.82	41.64	2.893		
8,100.00	8,060.53	8,075.75	8,024.94	30.20	30.39	143.27	57.86	680.69	139.54	98.29	41.25	3.382		
8,200.00	8,160.53	8,150.00	8,093.84	30.53	30.58	149.18	30.30	680.96	171.51	131.51	40.00	4.288		
8,300.00	8,260.53	8,218.05	8,153.37	30.87	30.73	154.26	-2.58	681.29	215.67	177.19	38.48	5.605		
8,400.00	8,360.53	8,276.40	8,201.01	31.20	30.85	158.02	-36.23	681.63	270.20	233.45	36.75	7.352		
8,500.00	8,460.53	8,326.73	8,239.17	31.54	30.94	160.78	-69.02	681.96	333.10	297.99	35.10	9.489		
8,600.00	8,560.53	8,369.95	8,269.53	31.88	31.01	162.80	-99.76	682.26	402.58	368.95	33.64	11.969		
8,700.00	8,660.53	8,400.00	8,289.24	32.21	31.06	164.04	-122.44	682.49	477.34	445.33	32.01	14.913		
8,800.00	8,760.53	8,450.00	8,319.31	32.55	31.14	165.83	-162.36	682.89	556.21	524.48	31.73	17.530		
8,900.00	8,860.53	8,466.68	8,328.56	32.89	31.16	166.36	-176.25	683.03	637.98	607.63	30.35	21.019		
9,000.00	8,960.53	8,500.00	8,345.79	33.23	31.22	167.34	-204.76	683.31	722.71	692.81	29.90	24.174		
9,100.00	9,060.53	8,500.00	8,345.79	33.56	31.22	167.34	-204.76	683.31	809.48	780.84	28.64	28.263		
9,200.00	9,160.53	8,530.31	8,360.00	33.90	31.27	168.13	-231.52	683.58	897.69	869.22	28.47	31.531		
9,300.00	9,260.53	8,550.00	8,368.47	34.24	31.30	168.60	-249.30	683.76	987.55	959.41	28.14	35.096		
9,400.00	9,360.53	8,550.00	8,368.47	34.58	31.30	168.60	-249.30	683.76	1,078.73	1,051.22	27.52	39.205		
9,500.00	9,460.53	8,574.34	8,378.08	34.92	31.34	169.14	-271.65	683.98	1,170.59	1,143.09	27.50	42.573		
9,600.00	9,560.53	8,600.00	8,387.18	35.26	31.39	169.66	-295.64	684.22	1,263.70	1,236.16	27.54	45.885		
9,700.00	9,660.53	8,600.00	8,387.18	35.60	31.39	169.66	-295.64	684.22	1,357.06	1,329.83	27.23	49.842		
9,800.00	9,760.53	8,600.00	8,387.18	35.94	31.39	169.66	-295.64	684.22	1,451.31	1,424.30	27.01	53.739		
9,900.00	9,860.53	8,600.00	8,387.18	36.29	31.39	169.66	-295.64	684.22	1,546.27	1,519.41	26.86	57.567		
10,000.00	9,960.53	8,623.01	8,394.42	36.63	31.44	170.09	-317.49	684.44	1,641.21	1,614.17	27.04	60.699		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	10,060.53	8,630.35	8,396.54	36.97	31.46	170.22	-324.51	684.51	1,736.83	1,709.77	27.06	64.182		
10,200.00	10,160.53	8,650.00	8,401.78	37.31	31.50	170.56	-343.44	684.70	1,833.00	1,805.76	27.24	67.299		
10,300.00	10,260.53	8,650.00	8,401.78	37.65	31.50	170.56	-343.44	684.70	1,929.15	1,901.91	27.24	70.814		
10,400.00	10,360.53	8,650.00	8,401.78	38.00	31.50	170.56	-343.44	684.70	2,025.68	1,998.40	27.29	74.238		
10,500.00	10,460.53	8,650.00	8,401.78	38.34	31.50	170.56	-343.44	684.70	2,122.53	2,095.17	27.36	77.586		
10,600.00	10,560.53	8,650.00	8,401.78	38.68	31.50	170.56	-343.44	684.70	2,219.66	2,192.20	27.45	80.849		
10,700.00	10,660.53	8,650.00	8,401.78	39.03	31.50	170.56	-343.44	684.70	2,317.03	2,289.46	27.57	84.027		
10,800.00	10,760.53	8,650.00	8,401.78	39.37	31.50	170.56	-343.44	684.70	2,414.62	2,386.90	27.72	87.122		
10,900.00	10,860.53	8,672.48	8,406.98	39.72	31.55	170.92	-365.32	684.91	2,511.85	2,483.84	28.01	89.677		
11,000.00	10,960.53	8,676.30	8,407.78	40.06	31.56	170.98	-369.05	684.95	2,609.61	2,581.41	28.20	92.548		
11,100.00	11,060.53	8,700.00	8,412.16	40.41	31.63	171.33	-392.34	685.18	2,707.92	2,679.41	28.51	94.981		
11,200.00	11,160.53	8,700.00	8,412.16	40.75	31.63	171.33	-392.34	685.18	2,805.80	2,777.10	28.70	97.778		
11,300.00	11,260.53	8,700.00	8,412.16	41.10	31.63	171.33	-392.34	685.18	2,903.82	2,874.93	28.89	100.496		
11,400.00	11,360.53	8,700.00	8,412.16	41.44	31.63	171.33	-392.34	685.18	3,001.97	2,972.87	29.11	103.138		
11,500.00	11,460.53	8,700.00	8,412.16	41.79	31.63	171.33	-392.34	685.18	3,100.25	3,070.92	29.33	105.706		
11,600.00	11,560.53	8,700.00	8,412.16	42.13	31.63	171.33	-392.34	685.18	3,198.62	3,169.06	29.56	108.200		
11,700.00	11,660.53	8,700.00	8,412.16	42.48	31.63	171.33	-392.34	685.18	3,297.10	3,267.30	29.81	110.622		
11,800.00	11,760.53	8,700.00	8,412.16	42.83	31.63	171.33	-392.34	685.18	3,395.67	3,365.61	30.06	112.981		
11,846.51	11,807.04	8,700.00	8,412.16	42.99	31.63	171.33	-392.34	685.18	3,441.54	3,411.36	30.17	114.055		
11,850.00	11,810.53	8,700.00	8,412.16	43.00	31.63	-1.71	-392.34	685.18	3,444.98	3,414.79	30.18	114.135		
11,900.00	11,860.45	8,700.00	8,412.16	43.16	31.63	-1.14	-392.34	685.18	3,493.83	3,463.53	30.30	115.290		
11,950.00	11,909.97	8,700.00	8,412.16	43.31	31.63	-0.85	-392.34	685.18	3,541.64	3,511.22	30.41	116.446		
12,000.00	11,958.70	8,700.00	8,412.16	43.46	31.63	-0.68	-392.34	685.18	3,588.07	3,557.56	30.51	117.592		
12,050.00	12,006.28	8,700.00	8,412.16	43.61	31.63	-0.57	-392.34	685.18	3,632.84	3,602.24	30.60	118.715		
12,100.00	12,052.34	8,700.00	8,412.16	43.75	31.63	-0.50	-392.34	685.18	3,675.68	3,645.00	30.68	119.815		
12,150.00	12,096.54	8,700.00	8,412.16	43.87	31.63	-0.44	-392.34	685.18	3,716.33	3,685.58	30.75	120.873		
12,200.00	12,138.53	8,722.00	8,415.37	43.99	31.69	-0.34	-414.10	685.40	3,754.07	3,723.19	30.87	121.599		
12,250.00	12,178.00	8,726.63	8,415.94	44.10	31.70	-0.30	-418.70	685.45	3,789.43	3,758.50	30.93	122.521		
12,300.00	12,214.64	8,750.00	8,418.24	44.21	31.78	-0.23	-441.95	685.68	3,822.24	3,791.21	31.03	123.182		
12,350.00	12,248.19	8,750.00	8,418.24	44.30	31.78	-0.21	-441.95	685.68	3,851.47	3,820.42	31.05	124.033		
12,400.00	12,278.37	8,750.00	8,418.24	44.39	31.78	-0.20	-441.95	685.68	3,877.52	3,846.45	31.07	124.785		
12,450.00	12,304.97	8,750.00	8,418.24	44.48	31.78	-0.19	-441.95	685.68	3,900.26	3,869.16	31.09	125.444		
12,500.00	12,327.78	8,750.00	8,418.24	44.58	31.78	-0.19	-441.95	685.68	3,919.56	3,888.44	31.12	125.963		
12,550.00	12,346.63	8,750.00	8,418.24	44.68	31.78	-0.18	-441.95	685.68	3,935.34	3,904.21	31.13	126.402		
12,600.00	12,361.37	8,750.00	8,418.24	44.79	31.78	-0.18	-441.95	685.68	3,947.52	3,916.37	31.15	126.724		
12,650.00	12,371.89	8,772.13	8,419.55	44.91	31.85	-0.14	-464.03	685.90	3,955.55	3,924.33	31.22	126.715		
12,700.00	12,378.11	8,794.85	8,420.00	45.04	31.93	-0.10	-486.75	686.13	3,960.32	3,929.04	31.27	126.638		
12,746.51	12,380.00	8,794.85	8,420.00	45.17	31.93	-0.10	-486.75	686.13	3,960.93	3,929.63	31.30	126.538		
12,800.00	12,380.00	8,794.85	8,420.00	45.34	31.93	-0.12	-486.75	686.13	3,960.14	3,928.79	31.35	126.320		
12,849.94	12,380.00	8,813.72	8,420.00	45.51	32.00	-0.10	-505.62	686.32	3,960.01	3,928.58	31.43	126.011		
12,900.00	12,380.00	8,863.68	8,420.00	45.69	32.20	-0.05	-555.57	686.81	3,960.00	3,928.46	31.54	125.547		
12,987.74	12,380.00	8,951.33	8,420.00	46.03	32.60	0.00	-643.22	687.69	3,960.00	3,928.22	31.78	124.616		
13,000.00	12,380.00	8,963.59	8,420.00	46.08	32.66	0.00	-655.48	687.81	3,960.00	3,928.19	31.81	124.482		
13,063.21	12,380.00	9,026.80	8,420.00	46.35	33.00	0.01	-718.68	688.44	3,960.00	3,928.00	32.00	123.743		
13,100.00	12,380.00	9,063.59	8,420.00	46.52	33.21	0.01	-755.47	688.81	3,960.00	3,927.88	32.12	123.290		
13,200.00	12,380.00	9,163.59	8,420.00	47.00	33.83	0.01	-855.47	689.81	3,960.00	3,927.54	32.46	121.989		
13,300.00	12,380.00	9,263.59	8,420.00	47.54	34.52	0.01	-955.46	690.81	3,960.00	3,927.16	32.84	120.591		
13,400.00	12,380.00	9,363.59	8,420.00	48.13	35.28	0.01	-1,055.46	691.81	3,960.00	3,926.75	33.25	119.107		
13,500.00	12,380.00	9,463.59	8,420.00	48.77	36.09	0.01	-1,155.45	692.80	3,960.00	3,926.31	33.69	117.548		
13,600.00	12,380.00	9,563.59	8,420.00	49.45	36.96	0.01	-1,255.45	693.80	3,960.00	3,925.84	34.16	115.926		
13,700.00	12,380.00	9,663.59	8,420.00	50.18	37.89	0.01	-1,355.44	694.80	3,960.00	3,925.34	34.66	114.253		
13,800.00	12,380.00	9,763.59	8,420.00	50.95	38.86	0.01	-1,455.44	695.80	3,960.00	3,924.81	35.19	112.538		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		
13,900.00	12,380.00	9,863.59	8,420.00	51.77	39.88	0.01	-1,555.43	696.80	3,960.00	3,924.26	35.74	110.790		
14,000.00	12,380.00	9,963.59	8,420.00	52.62	40.93	0.01	-1,655.43	697.80	3,960.00	3,923.68	36.32	109.020		
14,100.00	12,380.00	10,063.59	8,420.00	53.51	42.03	0.01	-1,755.42	698.79	3,960.00	3,923.07	36.93	107.235		
14,200.00	12,380.00	10,163.59	8,420.00	54.44	43.16	0.01	-1,855.42	699.79	3,960.00	3,922.44	37.56	105.443		
14,300.00	12,380.00	10,263.59	8,420.00	55.40	44.32	0.01	-1,955.41	700.79	3,960.00	3,921.79	38.21	103.650		
14,400.00	12,380.00	10,363.59	8,420.00	56.39	45.52	0.01	-2,055.41	701.79	3,960.00	3,921.12	38.88	101.862		
14,500.00	12,380.00	10,463.59	8,420.00	57.41	46.74	0.01	-2,155.40	702.79	3,960.00	3,920.43	39.57	100.085		
14,600.00	12,380.00	10,563.59	8,420.00	58.46	47.99	0.01	-2,255.40	703.79	3,960.00	3,919.73	40.27	98.324		
14,700.00	12,380.00	10,663.59	8,420.00	59.54	49.26	0.01	-2,355.39	704.79	3,960.00	3,919.00	41.00	96.582		
14,800.00	12,380.00	10,763.59	8,420.00	60.64	50.55	0.01	-2,455.39	705.78	3,960.00	3,918.26	41.75	94.861		
14,900.00	12,380.00	10,863.59	8,420.00	61.77	51.86	0.01	-2,555.38	706.78	3,960.00	3,917.50	42.50	93.166		
15,000.00	12,380.00	10,963.59	8,420.00	62.92	53.19	0.01	-2,655.38	707.78	3,960.00	3,916.72	43.28	91.499		
15,100.00	12,380.00	11,063.59	8,420.00	64.09	54.54	0.01	-2,755.37	708.78	3,960.00	3,915.93	44.07	89.861		
15,200.00	12,380.00	11,163.59	8,420.00	65.28	55.91	0.01	-2,855.37	709.78	3,960.00	3,915.13	44.87	88.253		
15,300.00	12,380.00	11,263.59	8,420.00	66.50	57.29	0.01	-2,955.36	710.78	3,960.00	3,914.31	45.69	86.678		
15,400.00	12,380.00	11,363.59	8,420.00	67.73	58.68	0.01	-3,055.36	711.77	3,960.00	3,913.49	46.51	85.136		
15,500.00	12,380.00	11,463.59	8,420.00	68.98	60.09	0.01	-3,155.35	712.77	3,960.00	3,912.65	47.35	83.627		
15,600.00	12,380.00	11,563.59	8,420.00	70.24	61.51	0.01	-3,255.35	713.77	3,960.00	3,911.80	48.20	82.156		
15,700.00	12,380.00	11,663.59	8,420.00	71.52	62.94	0.01	-3,355.34	714.77	3,960.00	3,910.94	49.06	80.715		
15,800.00	12,380.00	11,763.59	8,420.00	72.82	64.38	0.01	-3,455.34	715.77	3,960.00	3,910.07	49.93	79.308		
15,900.00	12,380.00	11,863.59	8,420.00	74.13	65.83	0.01	-3,555.33	716.77	3,960.00	3,909.19	50.81	77.934		
16,000.00	12,380.00	11,963.59	8,420.00	75.46	67.29	0.01	-3,655.33	717.77	3,960.00	3,908.30	51.70	76.595		
16,100.00	12,380.00	12,063.59	8,420.00	76.79	68.76	0.01	-3,755.32	718.76	3,960.00	3,907.40	52.60	75.288		
16,200.00	12,380.00	12,163.59	8,420.00	78.14	70.24	0.01	-3,855.32	719.76	3,960.00	3,906.50	53.50	74.015		
16,300.00	12,380.00	12,263.59	8,420.00	79.50	71.72	0.01	-3,955.31	720.76	3,960.00	3,905.58	54.42	72.774		
16,400.00	12,380.00	12,363.59	8,420.00	80.87	73.21	0.01	-4,055.31	721.76	3,960.00	3,904.66	55.34	71.564		
16,500.00	12,380.00	12,463.59	8,420.00	82.25	74.71	0.01	-4,155.30	722.76	3,960.00	3,903.74	56.26	70.385		
16,600.00	12,380.00	12,563.59	8,420.00	83.64	76.21	0.01	-4,255.30	723.76	3,960.00	3,902.80	57.20	69.237		
16,700.00	12,380.00	12,663.59	8,420.00	85.04	77.73	0.01	-4,355.29	724.75	3,960.00	3,901.87	58.13	68.118		
16,800.00	12,380.00	12,763.59	8,420.00	86.45	79.24	0.01	-4,455.29	725.75	3,960.00	3,900.92	59.08	67.028		
16,900.00	12,380.00	12,863.59	8,420.00	87.87	80.76	0.01	-4,555.28	726.75	3,960.00	3,899.97	60.03	65.966		
17,000.00	12,380.00	12,963.59	8,420.00	89.30	82.29	0.01	-4,655.28	727.75	3,960.00	3,899.01	60.99	64.932		
17,100.00	12,380.00	13,063.59	8,420.00	90.73	83.82	0.01	-4,755.27	728.75	3,960.00	3,898.05	61.95	63.924		
17,200.00	12,380.00	13,163.59	8,420.00	92.17	85.36	0.01	-4,855.27	729.75	3,960.00	3,897.08	62.92	62.942		
17,300.00	12,380.00	13,263.59	8,420.00	93.62	86.90	0.01	-4,955.26	730.75	3,960.00	3,896.11	63.89	61.985		
17,400.00	12,380.00	13,363.59	8,420.00	95.07	88.44	0.01	-5,055.26	731.74	3,960.00	3,895.14	64.86	61.053		
17,500.00	12,380.00	13,463.59	8,420.00	96.53	89.99	0.01	-5,155.25	732.74	3,960.00	3,894.16	65.84	60.144		
17,600.00	12,380.00	13,563.59	8,420.00	98.00	91.54	0.01	-5,255.25	733.74	3,960.00	3,893.17	66.83	59.259		
17,700.00	12,380.00	13,663.59	8,420.00	99.47	93.09	0.01	-5,355.24	734.74	3,960.00	3,892.19	67.81	58.396		
17,800.00	12,380.00	13,763.59	8,420.00	100.95	94.65	0.01	-5,455.24	735.74	3,960.00	3,891.20	68.80	57.554		
17,900.00	12,380.00	13,863.59	8,420.00	102.43	96.21	0.01	-5,555.23	736.74	3,960.00	3,890.20	69.80	56.734		
18,000.00	12,380.00	13,963.59	8,420.00	103.92	97.78	0.01	-5,655.23	737.73	3,960.00	3,889.20	70.80	55.934		
18,100.00	12,380.00	14,063.59	8,420.00	105.41	99.34	0.01	-5,755.22	738.73	3,960.00	3,888.20	71.80	55.154		
18,200.00	12,380.00	14,163.59	8,420.00	106.91	100.91	0.01	-5,855.22	739.73	3,960.00	3,887.20	72.80	54.392		
18,300.00	12,380.00	14,263.59	8,420.00	108.41	102.49	0.01	-5,955.21	740.73	3,960.00	3,886.19	73.81	53.650		
18,400.00	12,380.00	14,363.59	8,420.00	109.92	104.06	0.01	-6,055.21	741.73	3,960.00	3,885.18	74.82	52.925		
18,500.00	12,380.00	14,463.59	8,420.00	111.43	105.64	0.01	-6,155.20	742.73	3,960.00	3,884.16	75.84	52.218		
18,600.00	12,380.00	14,563.59	8,420.00	112.94	107.22	0.01	-6,255.20	743.73	3,960.00	3,883.15	76.85	51.527		
18,700.00	12,380.00	14,663.59	8,420.00	114.46	108.80	0.01	-6,355.19	744.72	3,960.00	3,882.13	77.87	50.853		
18,800.00	12,380.00	14,763.59	8,420.00	115.98	110.38	0.01	-6,455.19	745.72	3,960.00	3,881.11	78.89	50.195		
18,900.00	12,380.00	14,863.59	8,420.00	117.51	111.97	0.01	-6,555.18	746.72	3,960.00	3,880.08	79.92	49.552		
19,000.00	12,380.00	14,963.59	8,420.00	119.04	113.56	0.01	-6,655.18	747.72	3,960.00	3,879.06	80.94	48.924		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
19,100.00	12,380.00	15,063.59	8,420.00	120.57	115.14	0.01	-6,755.17	748.72	3,960.00	3,878.03	81.97	48.310		
19,200.00	12,380.00	15,163.59	8,420.00	122.11	116.73	0.01	-6,855.17	749.72	3,960.00	3,877.00	83.00	47.711		
19,300.00	12,380.00	15,263.59	8,420.00	123.64	118.33	0.00	-6,955.16	750.71	3,960.00	3,875.97	84.03	47.125		
19,400.00	12,380.00	15,363.59	8,420.00	125.18	119.92	0.00	-7,055.16	751.71	3,960.00	3,874.93	85.07	46.552		
19,500.00	12,380.00	15,463.59	8,420.00	126.73	121.52	0.00	-7,155.15	752.71	3,960.00	3,873.90	86.10	45.992		
19,600.00	12,380.00	15,563.59	8,420.00	128.27	123.11	0.00	-7,255.15	753.71	3,960.00	3,872.86	87.14	45.444		
19,700.00	12,380.00	15,663.59	8,420.00	129.82	124.71	0.00	-7,355.14	754.71	3,960.00	3,871.82	88.18	44.908		
19,800.00	12,380.00	15,763.59	8,420.00	131.38	126.31	0.00	-7,455.14	755.71	3,960.00	3,870.78	89.22	44.384		
19,900.00	12,380.00	15,863.59	8,420.00	132.93	127.91	0.00	-7,555.13	756.70	3,960.00	3,869.74	90.26	43.871		
20,000.00	12,380.00	15,963.59	8,420.00	134.49	129.52	0.00	-7,655.13	757.70	3,960.00	3,868.69	91.31	43.370		
20,100.00	12,380.00	16,063.59	8,420.00	136.04	131.12	0.00	-7,755.12	758.70	3,960.00	3,867.65	92.35	42.878		
20,200.00	12,380.00	16,163.59	8,420.00	137.61	132.72	0.00	-7,855.12	759.70	3,960.00	3,866.60	93.40	42.397		
20,300.00	12,380.00	16,263.59	8,420.00	139.17	134.33	0.00	-7,955.11	760.70	3,960.00	3,865.55	94.45	41.928		
20,400.00	12,380.00	16,363.59	8,420.00	140.73	135.94	0.00	-8,055.11	761.70	3,960.00	3,864.50	95.50	41.467		
20,500.00	12,380.00	16,463.59	8,420.00	142.30	137.55	0.00	-8,155.10	762.70	3,960.00	3,863.45	96.55	41.015		
20,600.00	12,380.00	16,563.59	8,420.00	143.87	139.15	0.00	-8,255.10	763.69	3,960.00	3,862.40	97.60	40.573		
20,700.00	12,380.00	16,663.59	8,420.00	145.44	140.76	0.00	-8,355.09	764.69	3,960.00	3,861.34	98.66	40.139		
20,800.00	12,380.00	16,763.59	8,420.00	147.01	142.38	0.00	-8,455.09	765.69	3,960.00	3,860.29	99.71	39.714		
20,900.00	12,380.00	16,863.59	8,420.00	148.59	143.99	0.00	-8,555.08	766.69	3,960.00	3,859.23	100.77	39.298		
21,000.00	12,380.00	16,963.59	8,420.00	150.16	145.60	0.00	-8,655.08	767.69	3,960.00	3,858.17	101.83	38.890		
21,100.00	12,380.00	17,063.59	8,420.00	151.74	147.21	0.00	-8,755.07	768.69	3,960.00	3,857.12	102.88	38.490		
21,200.00	12,380.00	17,163.59	8,420.00	153.32	148.83	0.00	-8,855.07	769.68	3,960.00	3,856.06	103.94	38.097		
21,300.00	12,380.00	17,263.59	8,420.00	154.90	150.44	0.00	-8,955.06	770.68	3,960.00	3,854.99	105.01	37.712		
21,400.00	12,380.00	17,363.59	8,420.00	156.48	152.06	0.00	-9,055.06	771.68	3,960.00	3,853.93	106.07	37.335		
21,500.00	12,380.00	17,463.59	8,420.00	158.06	153.68	0.00	-9,155.05	772.68	3,960.00	3,852.87	107.13	36.964		
21,600.00	12,380.00	17,563.59	8,420.00	159.65	155.29	0.00	-9,255.05	773.68	3,960.00	3,851.81	108.19	36.601		
21,700.00	12,380.00	17,663.59	8,420.00	161.23	156.91	0.00	-9,355.05	774.68	3,960.00	3,850.74	109.26	36.244		
21,800.00	12,380.00	17,763.59	8,420.00	162.82	158.53	0.00	-9,455.04	775.68	3,960.00	3,849.68	110.32	35.894		
21,874.51	12,380.00	17,838.10	8,420.00	164.00	159.74	0.00	-9,529.54	776.42	3,960.00	3,848.88	111.12	35.638		
21,900.00	12,380.00	17,863.59	8,420.00	164.41	160.15	0.00	-9,555.04	776.67	3,960.00	3,848.61	111.39	35.551		
22,000.00	12,380.00	17,963.59	8,420.00	166.00	161.77	0.00	-9,655.03	777.67	3,960.00	3,847.54	112.46	35.213		
22,100.00	12,380.00	18,063.59	8,420.00	167.59	163.39	0.00	-9,755.03	778.67	3,960.00	3,846.47	113.53	34.882		
22,200.00	12,380.00	18,163.59	8,420.00	169.18	165.01	0.00	-9,855.02	779.67	3,960.00	3,845.41	114.60	34.556		
22,300.00	12,380.00	18,263.59	8,420.00	170.77	166.64	0.00	-9,955.02	780.67	3,960.00	3,844.34	115.66	34.237		
22,400.00	12,380.00	18,363.59	8,420.00	172.37	168.26	0.00	-10,055.01	781.67	3,960.00	3,843.27	116.74	33.923		
22,500.00	12,380.00	18,463.59	8,420.00	173.96	169.88	0.00	-10,155.01	782.66	3,960.00	3,842.19	117.81	33.615		
22,505.14	12,380.00	18,468.73	8,420.00	174.05	169.97	0.00	-10,160.14	782.72	3,960.00	3,842.14	117.86	33.599		
22,547.76	12,380.00	18,511.34	8,420.00	174.73	170.66	0.00	-10,202.76	783.14	3,960.00	3,841.68	118.32	33.469		
22,548.65	12,380.00	18,511.34	8,420.00	174.75	170.66	0.00	-10,202.76	783.14	3,960.00	3,841.67	118.33	33.467		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design PF Fed Com - Paul Foster Fed Com 503H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Minimum	Separation		
Depth	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	-153.97	-75.30	-36.77	83.80					
100.00	100.00	100.00	100.00	0.13	0.13	-153.97	-75.30	-36.77	83.80	83.62	0.18	472.260		
200.00	200.00	200.00	200.00	0.48	0.48	-153.97	-75.30	-36.77	83.80	83.11	0.68	122.438		
300.00	300.00	300.00	300.00	0.84	0.84	-153.97	-75.30	-36.77	83.80	82.60	1.19	70.337		
400.00	400.00	400.00	400.00	1.20	1.20	-153.97	-75.30	-36.77	83.80	82.10	1.70	49.341		
500.00	500.00	500.00	500.00	1.56	1.56	-153.97	-75.30	-36.77	83.80	81.59	2.21	37.998		
600.00	600.00	600.00	600.00	1.92	1.92	-153.97	-75.30	-36.77	83.80	81.08	2.71	30.896		
700.00	700.00	700.00	700.00	2.28	2.28	-153.97	-75.30	-36.77	83.80	80.58	3.22	26.030		
800.00	800.00	800.00	800.00	2.63	2.63	-153.97	-75.30	-36.77	83.80	80.07	3.73	22.489		
900.00	900.00	900.00	900.00	2.99	2.99	-153.97	-75.30	-36.77	83.80	79.56	4.23	19.795		
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	-153.97	-75.30	-36.77	83.80	79.06	4.74	17.678		
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	-153.97	-75.30	-36.77	83.80	78.55	5.25	15.970		
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	-153.97	-75.30	-36.77	83.80	78.04	5.75	14.563		
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	-153.97	-75.30	-36.77	83.80	77.53	6.26	13.384		
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-153.97	-75.30	-36.77	83.80	77.03	6.77	12.381		
1,500.00	1,500.00	1,500.00	1,500.00	5.14	5.14	-153.97	-75.30	-36.77	83.80	76.52	7.27	11.519		
1,600.00	1,600.00	1,600.00	1,600.00	5.50	5.50	-153.97	-75.30	-36.77	83.80	76.01	7.78	10.768		
1,700.00	1,700.00	1,700.00	1,700.00	5.86	5.86	-153.97	-75.30	-36.77	83.80	75.51	8.29	10.110		
1,800.00	1,800.00	1,800.00	1,800.00	6.22	6.22	-153.97	-75.30	-36.77	83.80	75.00	8.80	9.527		
1,900.00	1,900.00	1,900.00	1,900.00	6.58	6.58	-153.97	-75.30	-36.77	83.80	74.49	9.30	9.008		
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	-153.97	-75.30	-36.77	83.80	73.99	9.81	8.542		
2,100.00	2,100.00	2,100.00	2,100.00	7.29	7.29	-153.97	-75.30	-36.77	83.80	73.48	10.32	8.122 CC, ES		
2,200.00	2,199.99	2,199.56	2,199.55	7.65	7.65	133.00	-74.93	-38.02	84.92	74.10	10.81	7.853		
2,300.00	2,299.91	2,298.75	2,298.66	7.99	7.99	137.27	-73.86	-41.74	88.62	77.32	11.30	7.841 SF		
2,400.00	2,399.69	2,397.19	2,396.89	8.34	8.33	143.52	-72.08	-47.87	95.77	83.99	11.79	8.125		
2,500.00	2,499.27	2,494.53	2,493.82	8.70	8.68	150.67	-69.63	-56.32	107.41	95.14	12.27	8.757		
2,601.33	2,599.89	2,591.68	2,590.33	9.06	9.03	157.77	-66.50	-67.12	124.56	111.82	12.74	9.779		
2,700.00	2,697.71	2,684.87	2,682.59	9.42	9.37	163.89	-62.85	-79.69	145.57	132.38	13.18	11.044		
2,800.00	2,796.85	2,778.28	2,774.72	9.78	9.71	169.02	-58.57	-94.46	169.88	156.26	13.62	12.474		
2,900.00	2,895.99	2,873.94	2,868.91	10.15	10.08	173.17	-53.91	-110.53	196.03	181.94	14.09	13.915		
3,000.00	2,995.13	2,969.60	2,963.10	10.53	10.44	176.34	-49.25	-126.61	222.92	208.36	14.56	15.309		
3,100.00	3,094.27	3,065.27	3,057.28	10.90	10.82	178.83	-44.59	-142.68	250.32	235.28	15.04	16.645		
3,200.00	3,193.41	3,160.93	3,151.47	11.28	11.20	-179.17	-39.93	-158.76	278.07	262.55	15.52	17.917		
3,300.00	3,292.55	3,256.59	3,245.65	11.67	11.58	-177.54	-35.27	-174.84	306.08	290.07	16.00	19.126		
3,400.00	3,391.69	3,352.25	3,339.84	12.05	11.96	-176.17	-30.61	-190.91	334.28	317.79	16.49	20.273		
3,500.00	3,490.83	3,447.91	3,434.02	12.44	12.35	-175.02	-25.95	-206.99	362.63	345.65	16.98	21.361		
3,600.00	3,589.97	3,543.57	3,528.21	12.82	12.74	-174.03	-21.29	-223.06	391.09	373.63	17.47	22.392		
3,700.00	3,689.11	3,639.23	3,622.39	13.21	13.14	-173.18	-16.63	-239.14	419.65	401.69	17.96	23.370		
3,800.00	3,788.25	3,734.89	3,716.58	13.60	13.54	-172.44	-11.97	-255.21	448.28	429.83	18.45	24.299		
3,900.00	3,887.39	3,830.55	3,810.76	13.99	13.94	-171.78	-7.31	-271.29	476.97	458.03	18.94	25.181		
4,000.00	3,986.53	3,926.21	3,904.95	14.39	14.34	-171.20	-2.65	-287.37	505.72	486.28	19.44	26.019		
4,100.00	4,085.67	4,021.88	3,999.13	14.78	14.74	-170.68	2.01	-303.44	534.50	514.57	19.93	26.816		
4,200.00	4,184.81	4,117.54	4,093.32	15.18	15.15	-170.22	6.67	-319.52	563.33	542.90	20.43	27.575		
4,300.00	4,283.95	4,213.20	4,187.50	15.57	15.56	-169.80	11.34	-335.59	592.18	571.25	20.93	28.298		
4,400.00	4,383.09	4,308.86	4,281.69	15.97	15.96	-169.42	16.00	-351.67	621.06	599.63	21.43	28.987		
4,500.00	4,482.23	4,404.52	4,375.87	16.37	16.37	-169.07	20.66	-367.74	649.96	628.04	21.92	29.645		
4,600.00	4,581.37	4,500.18	4,470.06	16.77	16.79	-168.75	25.32	-383.82	678.89	656.46	22.42	30.274		
4,700.00	4,680.51	4,595.84	4,564.24	17.17	17.20	-168.46	29.98	-399.90	707.83	684.90	22.93	30.875		
4,800.00	4,779.65	4,691.50	4,658.43	17.57	17.61	-168.19	34.64	-415.97	736.78	713.35	23.43	31.450		
4,900.00	4,878.79	4,787.16	4,752.62	17.97	18.03	-167.94	39.30	-432.05	765.75	741.82	23.93	32.001		
5,000.00	4,977.93	4,882.82	4,846.80	18.37	18.44	-167.71	43.96	-448.12	794.73	770.30	24.43	32.529		
5,100.00	5,077.07	4,978.48	4,940.99	18.77	18.86	-167.50	48.62	-464.20	823.73	798.79	24.93	33.035		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		
5,200.00	5,176.21	5,074.15	5,035.17	19.17	19.28	-167.30	53.28	-480.27	852.73	827.29	25.44	33.521		
5,300.00	5,275.35	5,169.81	5,129.36	19.57	19.70	-167.11	57.94	-496.35	881.74	855.80	25.94	33.988		
5,400.00	5,374.49	5,265.47	5,223.54	19.98	20.12	-166.94	62.60	-512.43	910.76	884.31	26.45	34.437		
5,500.00	5,473.63	5,361.13	5,317.73	20.38	20.54	-166.77	67.26	-528.50	939.79	912.84	26.95	34.869		
5,600.00	5,572.77	5,456.79	5,411.91	20.78	20.96	-166.62	71.92	-544.58	968.82	941.36	27.46	35.284		
5,700.00	5,671.91	5,552.45	5,506.10	21.19	21.38	-166.48	76.58	-560.65	997.86	969.90	27.96	35.684		
5,800.00	5,771.05	5,648.11	5,600.28	21.59	21.80	-166.34	81.24	-576.73	1,026.91	998.44	28.47	36.070		
5,900.00	5,870.19	5,743.77	5,694.47	22.00	22.22	-166.21	85.90	-592.80	1,055.96	1,026.98	28.98	36.442		
6,000.00	5,969.33	5,839.43	5,788.65	22.40	22.64	-166.09	90.56	-608.88	1,085.01	1,055.53	29.48	36.800		
6,100.00	6,068.47	5,935.09	5,882.84	22.81	23.07	-165.97	95.22	-624.96	1,114.07	1,084.08	29.99	37.147		
6,200.00	6,167.61	6,030.75	5,977.02	23.22	23.49	-165.86	99.89	-641.03	1,143.13	1,112.64	30.50	37.481		
6,300.00	6,266.75	6,126.42	6,071.21	23.62	23.92	-165.76	104.55	-657.11	1,172.20	1,141.19	31.01	37.805		
6,400.00	6,365.89	6,222.08	6,165.39	24.03	24.34	-165.66	109.21	-673.18	1,201.27	1,169.76	31.51	38.118		
6,500.00	6,465.03	6,317.74	6,259.58	24.44	24.77	-165.56	113.87	-689.26	1,230.34	1,198.32	32.02	38.420		
6,600.00	6,564.17	6,413.40	6,353.77	24.84	25.19	-165.47	118.53	-705.33	1,259.42	1,226.89	32.53	38.713		
6,700.00	6,663.31	6,509.06	6,447.95	25.25	25.62	-165.38	123.19	-721.41	1,288.50	1,255.46	33.04	38.996		
6,800.00	6,762.45	6,604.72	6,542.14	25.66	26.04	-165.30	127.85	-737.49	1,317.58	1,284.03	33.55	39.271		
6,856.14	6,818.11	6,658.42	6,595.01	25.89	26.28	-165.26	130.47	-746.51	1,333.91	1,300.07	33.84	39.421		
6,900.00	6,861.62	6,700.45	6,636.39	26.06	26.47	-165.27	132.51	-753.57	1,346.43	1,312.37	34.06	39.531		
7,000.00	6,961.05	6,817.27	6,751.49	26.46	26.99	-165.25	138.08	-772.76	1,372.95	1,338.26	34.69	39.579		
7,100.00	7,060.72	6,966.84	6,899.57	26.84	27.61	-165.21	143.92	-792.90	1,394.03	1,358.57	35.47	39.304		
7,200.00	7,160.57	7,119.24	7,051.18	27.20	28.21	-165.17	148.20	-807.68	1,408.91	1,372.71	36.20	38.915		
7,300.00	7,260.53	7,273.52	7,205.16	27.55	28.77	-165.13	150.82	-816.72	1,417.46	1,380.57	36.89	38.420		
7,357.47	7,318.00	7,362.64	7,294.24	27.74	29.07	-90.58	151.54	-819.21	1,419.48	1,382.22	37.27	38.091		
7,400.00	7,360.53	7,428.67	7,360.27	27.88	29.28	-90.58	151.70	-819.77	1,419.84	1,382.32	37.53	37.834		
7,500.00	7,460.53	7,528.93	7,460.53	28.21	29.60	-90.58	151.70	-819.77	1,419.84	1,381.83	38.01	37.353		
7,600.00	7,560.53	7,628.93	7,560.53	28.54	29.91	-90.58	151.70	-819.77	1,419.84	1,381.35	38.50	36.884		
7,700.00	7,660.53	7,728.93	7,660.53	28.87	30.23	-90.58	151.70	-819.77	1,419.84	1,380.86	38.98	36.425		
7,800.00	7,760.53	7,828.93	7,760.53	29.20	30.55	-90.58	151.70	-819.77	1,419.84	1,380.38	39.46	35.978		
7,900.00	7,860.53	7,928.93	7,860.53	29.53	30.87	-90.58	151.70	-819.77	1,419.84	1,379.89	39.95	35.541		
8,000.00	7,960.53	8,028.93	7,960.53	29.87	31.19	-90.58	151.70	-819.77	1,419.84	1,379.41	40.44	35.113		
8,100.00	8,060.53	8,128.93	8,060.53	30.20	31.51	-90.58	151.70	-819.77	1,419.84	1,378.92	40.92	34.696		
8,200.00	8,160.53	8,228.93	8,160.53	30.53	31.83	-90.58	151.70	-819.77	1,419.84	1,378.44	41.41	34.288		
8,300.00	8,260.53	8,328.93	8,260.53	30.87	32.15	-90.58	151.70	-819.77	1,419.84	1,377.95	41.90	33.889		
8,400.00	8,360.53	8,428.93	8,360.53	31.20	32.47	-90.58	151.70	-819.77	1,419.84	1,377.46	42.38	33.499		
8,500.00	8,460.53	8,528.93	8,460.53	31.54	32.80	-90.58	151.70	-819.77	1,419.84	1,376.97	42.87	33.118		
8,600.00	8,560.53	8,628.93	8,560.53	31.88	33.12	-90.58	151.70	-819.77	1,419.84	1,376.48	43.36	32.744		
8,700.00	8,660.53	8,728.93	8,660.53	32.21	33.44	-90.58	151.70	-819.77	1,419.84	1,375.99	43.85	32.379		
8,800.00	8,760.53	8,828.93	8,760.53	32.55	33.77	-90.58	151.70	-819.77	1,419.84	1,375.50	44.34	32.021		
8,900.00	8,860.53	8,928.93	8,860.53	32.89	34.10	-90.58	151.70	-819.77	1,419.84	1,375.01	44.83	31.672		
9,000.00	8,960.53	9,028.93	8,960.53	33.23	34.42	-90.58	151.70	-819.77	1,419.84	1,374.52	45.32	31.329		
9,100.00	9,060.53	9,128.93	9,060.53	33.56	34.75	-90.58	151.70	-819.77	1,419.84	1,374.03	45.81	30.993		
9,200.00	9,160.53	9,228.93	9,160.53	33.90	35.08	-90.58	151.70	-819.77	1,419.84	1,373.54	46.30	30.665		
9,300.00	9,260.53	9,328.93	9,260.53	34.24	35.41	-90.58	151.70	-819.77	1,419.84	1,373.05	46.79	30.343		
9,400.00	9,360.53	9,428.93	9,360.53	34.58	35.74	-90.58	151.70	-819.77	1,419.84	1,372.56	47.29	30.027		
9,500.00	9,460.53	9,528.93	9,460.53	34.92	36.07	-90.58	151.70	-819.77	1,419.84	1,372.07	47.78	29.718		
9,600.00	9,560.53	9,628.93	9,560.53	35.26	36.40	-90.58	151.70	-819.77	1,419.84	1,371.57	48.27	29.415		
9,700.00	9,660.53	9,728.93	9,660.53	35.60	36.73	-90.58	151.70	-819.77	1,419.84	1,371.08	48.76	29.118		
9,800.00	9,760.53	9,828.93	9,760.53	35.94	37.06	-90.58	151.70	-819.77	1,419.84	1,370.59	49.26	28.826		
9,812.31	9,772.84	9,841.24	9,772.84	35.99	37.10	-90.58	151.70	-819.77	1,419.84	1,370.53	49.32	28.791		
9,900.00	9,860.53	9,928.92	9,860.52	36.29	37.39	-90.59	151.50	-819.77	1,419.84	1,370.10	49.75	28.541		
9,901.68	9,862.21	9,930.60	9,862.19	36.29	37.39	-90.59	151.45	-819.77	1,419.84	1,370.09	49.75	28.537		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	9,960.53	10,027.36	9,958.21	36.63	37.68	-91.03	140.42	-819.66	1,419.89	1,369.68	50.21	28.278		
10,100.00	10,060.53	10,119.49	10,046.67	36.97	37.92	-92.06	115.05	-819.41	1,420.39	1,369.74	50.65	28.045		
10,200.00	10,160.53	10,200.00	10,119.80	37.31	38.10	-93.41	81.53	-819.08	1,422.17	1,371.13	51.04	27.865		
10,300.00	10,260.53	10,272.83	10,181.32	37.65	38.23	-94.97	42.64	-818.69	1,426.24	1,374.86	51.38	27.759		
10,400.00	10,360.53	10,333.12	10,228.18	38.00	38.33	-96.49	4.76	-818.31	1,433.57	1,381.93	51.64	27.760		
10,500.00	10,460.53	10,383.84	10,264.34	38.34	38.40	-97.90	-30.78	-817.96	1,444.93	1,393.13	51.80	27.895		
10,600.00	10,560.53	10,426.47	10,292.21	38.68	38.44	-99.18	-63.03	-817.64	1,460.87	1,409.03	51.84	28.179		
10,700.00	10,660.53	10,462.43	10,313.80	39.03	38.48	-100.31	-91.78	-817.36	1,481.75	1,429.98	51.77	28.623		
10,800.00	10,760.53	10,500.00	10,334.38	39.37	38.52	-101.53	-123.20	-817.04	1,507.73	1,456.12	51.61	29.213		
10,900.00	10,860.53	10,519.03	10,344.01	39.72	38.53	-102.17	-139.61	-816.88	1,538.75	1,487.48	51.27	30.012		
11,000.00	10,960.53	10,550.00	10,358.49	40.06	38.56	-103.23	-166.98	-816.61	1,574.84	1,523.91	50.93	30.922		
11,100.00	11,060.53	10,550.00	10,358.49	40.41	38.56	-103.23	-166.98	-816.61	1,615.71	1,565.36	50.35	32.090		
11,200.00	11,160.53	10,578.01	10,370.31	40.75	38.58	-104.20	-192.38	-816.36	1,661.01	1,611.11	49.90	33.288		
11,300.00	11,260.53	10,600.00	10,378.70	41.10	38.60	-104.97	-212.70	-816.16	1,710.71	1,661.33	49.38	34.641		
11,400.00	11,360.53	10,600.00	10,378.70	41.44	38.60	-104.97	-212.70	-816.16	1,764.34	1,715.61	48.73	36.203		
11,500.00	11,460.53	10,618.10	10,385.02	41.79	38.61	-105.61	-229.65	-815.99	1,821.62	1,773.42	48.20	37.793		
11,600.00	11,560.53	10,628.69	10,388.47	42.13	38.62	-105.99	-239.67	-815.89	1,882.29	1,834.66	47.64	39.515		
11,700.00	11,660.53	10,650.00	10,394.84	42.48	38.64	-106.75	-260.00	-815.69	1,946.18	1,899.02	47.16	41.271		
11,800.00	11,760.53	10,650.00	10,394.84	42.83	38.64	-106.75	-260.00	-815.69	2,012.64	1,966.05	46.59	43.199		
11,846.51	11,807.04	10,650.00	10,394.84	42.99	38.64	-106.75	-260.00	-815.69	2,044.49	1,998.15	46.34	44.120		
11,850.00	11,810.53	10,650.00	10,394.84	43.00	38.64	79.82	-260.00	-815.69	2,046.90	2,000.58	46.32	44.190		
11,900.00	11,860.45	10,650.00	10,394.84	43.16	38.64	75.16	-260.00	-815.69	2,081.44	2,035.39	46.05	45.197		
11,950.00	11,909.97	10,650.00	10,394.84	43.31	38.64	70.64	-260.00	-815.69	2,115.80	2,070.01	45.79	46.206		
12,000.00	11,958.70	10,650.00	10,394.84	43.46	38.64	66.34	-260.00	-815.69	2,149.74	2,104.20	45.54	47.208		
12,050.00	12,006.28	10,673.75	10,401.05	43.61	38.66	61.78	-282.92	-815.46	2,182.51	2,137.10	45.42	48.056		
12,100.00	12,052.34	10,681.29	10,402.83	43.75	38.66	58.01	-290.25	-815.39	2,214.55	2,169.33	45.22	48.973		
12,150.00	12,096.54	10,700.00	10,406.80	43.87	38.68	54.42	-308.53	-815.20	2,245.45	2,200.37	45.09	49.802		
12,200.00	12,138.53	10,700.00	10,406.80	43.99	38.68	51.54	-308.53	-815.20	2,274.73	2,229.85	44.88	50.682		
12,250.00	12,178.00	10,700.00	10,406.80	44.10	38.68	48.97	-308.53	-815.20	2,302.52	2,257.83	44.70	51.515		
12,300.00	12,214.64	10,700.00	10,406.80	44.21	38.68	46.69	-308.53	-815.20	2,328.67	2,284.14	44.53	52.294		
12,350.00	12,248.19	10,726.59	10,411.43	44.30	38.71	44.50	-334.71	-814.94	2,352.40	2,307.91	44.49	52.875		
12,400.00	12,278.37	10,750.00	10,414.49	44.39	38.74	42.67	-357.92	-814.71	2,374.44	2,329.99	44.45	53.418		
12,450.00	12,304.97	10,750.00	10,414.49	44.48	38.74	41.26	-357.92	-814.71	2,393.93	2,349.58	44.35	53.977		
12,500.00	12,327.78	10,750.00	10,414.49	44.58	38.74	40.05	-357.92	-814.71	2,411.27	2,366.99	44.28	54.453		
12,550.00	12,346.63	10,750.00	10,414.49	44.68	38.74	39.04	-357.92	-814.71	2,426.39	2,382.14	44.24	54.842		
12,600.00	12,361.37	10,779.84	10,417.01	44.79	38.79	38.20	-387.65	-814.42	2,438.40	2,394.08	44.31	55.025		
12,650.00	12,371.89	10,800.00	10,417.84	44.91	38.82	37.59	-407.79	-814.22	2,448.21	2,403.83	44.38	55.163		
12,700.00	12,378.11	10,800.00	10,417.84	45.04	38.82	37.16	-407.79	-814.22	2,455.24	2,410.80	44.44	55.254		
12,746.51	12,380.00	10,813.44	10,418.00	45.17	38.85	36.92	-421.23	-814.09	2,459.44	2,414.90	44.54	55.217		
12,800.00	12,380.00	10,862.96	10,418.00	45.34	38.94	37.07	-470.74	-813.59	2,462.70	2,417.95	44.74	55.043		
12,900.00	12,380.00	10,962.68	10,418.00	45.69	39.21	37.28	-570.45	-812.60	2,467.19	2,422.05	45.15	54.646		
13,000.00	12,380.00	11,062.59	10,418.00	46.08	39.57	37.39	-670.37	-811.61	2,469.59	2,424.00	45.58	54.176		
13,063.21	12,380.00	11,125.80	10,418.00	46.35	39.84	37.41	-733.57	-810.99	2,470.01	2,424.14	45.87	53.845		
13,100.00	12,380.00	11,162.59	10,418.00	46.52	40.01	37.41	-770.36	-810.62	2,470.01	2,423.96	46.05	53.640		
13,200.00	12,380.00	11,262.59	10,418.00	47.00	40.52	37.41	-870.35	-809.63	2,470.01	2,423.45	46.56	53.050		
13,300.00	12,380.00	11,362.59	10,418.00	47.54	41.10	37.41	-970.35	-808.64	2,470.00	2,422.88	47.13	52.413		
13,400.00	12,380.00	11,462.59	10,418.00	48.13	41.73	37.41	-1,070.34	-807.64	2,470.00	2,422.26	47.74	51.736		
13,500.00	12,380.00	11,562.59	10,418.00	48.77	42.43	37.41	-1,170.34	-806.65	2,470.00	2,421.59	48.41	51.025		
13,600.00	12,380.00	11,662.59	10,418.00	49.45	43.18	37.41	-1,270.33	-805.66	2,470.00	2,420.87	49.12	50.285		
13,700.00	12,380.00	11,762.59	10,418.00	50.18	43.98	37.41	-1,370.33	-804.67	2,469.99	2,420.11	49.88	49.521		
13,800.00	12,380.00	11,862.59	10,418.00	50.95	44.83	37.41	-1,470.32	-803.67	2,469.99	2,419.31	50.68	48.739		
13,900.00	12,380.00	11,962.59	10,418.00	51.77	45.72	37.41	-1,570.32	-802.68	2,469.99	2,418.47	51.52	47.945		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	12,380.00	12,062.59	10,418.00	52.62	46.65	37.41	-1,670.31	-801.69	2,469.98	2,417.59	52.40	47.141		
14,100.00	12,380.00	12,162.59	10,418.00	53.51	47.62	37.41	-1,770.31	-800.70	2,469.98	2,416.67	53.31	46.331		
14,200.00	12,380.00	12,262.59	10,418.00	54.44	48.63	37.41	-1,870.30	-799.70	2,469.98	2,415.72	54.26	45.520		
14,300.00	12,380.00	12,362.59	10,418.00	55.40	49.68	37.41	-1,970.30	-798.71	2,469.98	2,414.73	55.25	44.709		
14,400.00	12,380.00	12,462.59	10,418.00	56.39	50.75	37.41	-2,070.29	-797.72	2,469.97	2,413.71	56.26	43.902		
14,500.00	12,380.00	12,562.59	10,418.00	57.41	51.86	37.41	-2,170.29	-796.73	2,469.97	2,412.66	57.31	43.101		
14,600.00	12,380.00	12,662.59	10,418.00	58.46	52.99	37.41	-2,270.28	-795.73	2,469.97	2,411.59	58.38	42.309		
14,700.00	12,380.00	12,762.59	10,418.00	59.54	54.15	37.41	-2,370.28	-794.74	2,469.96	2,410.48	59.48	41.526		
14,800.00	12,380.00	12,862.59	10,418.00	60.64	55.34	37.41	-2,470.27	-793.75	2,469.96	2,409.36	60.60	40.756		
14,900.00	12,380.00	12,962.59	10,418.00	61.77	56.55	37.41	-2,570.27	-792.76	2,469.96	2,408.21	61.75	39.999		
15,000.00	12,380.00	13,062.59	10,418.00	62.92	57.78	37.41	-2,670.26	-791.76	2,469.96	2,407.04	62.92	39.256		
15,100.00	12,380.00	13,162.59	10,418.00	64.09	59.03	37.41	-2,770.26	-790.77	2,469.95	2,405.84	64.11	38.527		
15,200.00	12,380.00	13,262.59	10,418.00	65.28	60.30	37.41	-2,870.25	-789.78	2,469.95	2,404.63	65.32	37.812		
15,300.00	12,380.00	13,362.59	10,418.00	66.50	61.58	37.41	-2,970.25	-788.79	2,469.95	2,403.40	66.55	37.114		
15,400.00	12,380.00	13,462.59	10,418.00	67.73	62.89	37.41	-3,070.24	-787.79	2,469.94	2,402.15	67.80	36.432		
15,500.00	12,380.00	13,562.59	10,418.00	68.98	64.21	37.41	-3,170.24	-786.80	2,469.94	2,400.88	69.06	35.766		
15,600.00	12,380.00	13,662.59	10,418.00	70.24	65.55	37.41	-3,270.23	-785.81	2,469.94	2,399.60	70.34	35.116		
15,700.00	12,380.00	13,762.59	10,418.00	71.52	66.90	37.41	-3,370.23	-784.82	2,469.94	2,398.31	71.63	34.481		
15,800.00	12,380.00	13,862.59	10,418.00	72.82	68.26	37.41	-3,470.22	-783.82	2,469.93	2,397.00	72.94	33.864		
15,900.00	12,380.00	13,962.59	10,418.00	74.13	69.64	37.41	-3,570.22	-782.83	2,469.93	2,395.67	74.26	33.262		
16,000.00	12,380.00	14,062.59	10,418.00	75.46	71.02	37.41	-3,670.21	-781.84	2,469.93	2,394.34	75.59	32.675		
16,100.00	12,380.00	14,162.59	10,418.00	76.79	72.42	37.41	-3,770.21	-780.85	2,469.93	2,392.99	76.93	32.104		
16,200.00	12,380.00	14,262.59	10,418.00	78.14	73.83	37.41	-3,870.20	-779.85	2,469.92	2,391.63	78.29	31.548		
16,300.00	12,380.00	14,362.59	10,418.00	79.50	75.25	37.41	-3,970.20	-778.86	2,469.92	2,390.26	79.66	31.007		
16,400.00	12,380.00	14,462.59	10,418.00	80.87	76.68	37.41	-4,070.19	-777.87	2,469.92	2,388.89	81.03	30.481		
16,500.00	12,380.00	14,562.59	10,418.00	82.25	78.11	37.41	-4,170.19	-776.88	2,469.91	2,387.50	82.42	29.969		
16,600.00	12,380.00	14,662.59	10,418.00	83.64	79.56	37.41	-4,270.18	-775.88	2,469.91	2,386.10	83.81	29.470		
16,700.00	12,380.00	14,762.59	10,418.00	85.04	81.01	37.41	-4,370.18	-774.89	2,469.91	2,384.69	85.21	28.984		
16,800.00	12,380.00	14,862.59	10,418.00	86.45	82.47	37.40	-4,470.17	-773.90	2,469.91	2,383.28	86.63	28.512		
16,900.00	12,380.00	14,962.59	10,418.00	87.87	83.94	37.40	-4,570.17	-772.91	2,469.90	2,381.86	88.04	28.054		
17,000.00	12,380.00	15,062.59	10,418.00	89.30	85.41	37.40	-4,670.16	-771.91	2,469.90	2,380.43	89.47	27.607		
17,100.00	12,380.00	15,162.59	10,418.00	90.73	86.89	37.40	-4,770.16	-770.92	2,469.90	2,379.00	90.90	27.172		
17,200.00	12,380.00	15,262.59	10,418.00	92.17	88.38	37.40	-4,870.15	-769.93	2,469.89	2,377.56	92.34	26.748		
17,300.00	12,380.00	15,362.59	10,418.00	93.62	89.87	37.40	-4,970.15	-768.94	2,469.89	2,376.11	93.78	26.336		
17,400.00	12,380.00	15,462.59	10,418.00	95.07	91.37	37.40	-5,070.14	-767.94	2,469.89	2,374.66	95.23	25.936		
17,500.00	12,380.00	15,562.59	10,418.00	96.53	92.87	37.40	-5,170.14	-766.95	2,469.89	2,373.20	96.69	25.545		
17,600.00	12,380.00	15,662.59	10,418.00	98.00	94.38	37.40	-5,270.13	-765.96	2,469.88	2,371.73	98.15	25.164		
17,700.00	12,380.00	15,762.59	10,418.00	99.47	95.89	37.40	-5,370.13	-764.97	2,469.88	2,370.26	99.62	24.794		
17,800.00	12,380.00	15,862.59	10,418.00	100.95	97.41	37.40	-5,470.12	-763.97	2,469.88	2,368.79	101.09	24.433		
17,900.00	12,380.00	15,962.59	10,418.00	102.43	98.93	37.40	-5,570.12	-762.98	2,469.88	2,367.31	102.56	24.082		
18,000.00	12,380.00	16,062.59	10,418.00	103.92	100.46	37.40	-5,670.11	-761.99	2,469.87	2,365.83	104.04	23.739		
18,100.00	12,380.00	16,162.59	10,418.00	105.41	101.98	37.40	-5,770.11	-761.00	2,469.87	2,364.34	105.53	23.405		
18,200.00	12,380.00	16,262.59	10,418.00	106.91	103.52	37.40	-5,870.10	-760.00	2,469.87	2,362.85	107.01	23.080		
18,300.00	12,380.00	16,362.59	10,418.00	108.41	105.05	37.40	-5,970.10	-759.01	2,469.86	2,361.36	108.50	22.763		
18,400.00	12,380.00	16,462.59	10,418.00	109.92	106.59	37.40	-6,070.09	-758.02	2,469.86	2,359.86	110.00	22.453		
18,500.00	12,380.00	16,562.59	10,418.00	111.43	108.14	37.40	-6,170.09	-757.03	2,469.86	2,358.36	111.50	22.152		
18,600.00	12,380.00	16,662.59	10,418.00	112.94	109.68	37.40	-6,270.08	-756.03	2,469.86	2,356.86	113.00	21.857		
18,700.00	12,380.00	16,762.59	10,418.00	114.46	111.23	37.40	-6,370.08	-755.04	2,469.85	2,355.35	114.50	21.570		
18,800.00	12,380.00	16,862.59	10,418.00	115.98	112.79	37.40	-6,470.07	-754.05	2,469.85	2,353.84	116.01	21.290		
18,900.00	12,380.00	16,962.59	10,418.00	117.51	114.34	37.40	-6,570.07	-753.06	2,469.85	2,352.33	117.52	21.016		
19,000.00	12,380.00	17,062.59	10,418.00	119.04	115.90	37.40	-6,670.07	-752.06	2,469.84	2,350.81	119.03	20.749		
19,100.00	12,380.00	17,162.59	10,418.00	120.57	117.46	37.40	-6,770.06	-751.07	2,469.84	2,349.29	120.55	20.488		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	12,380.00	17,262.59	10,418.00	122.11	119.02	37.40	-6,870.06	-750.08	2,469.84	2,347.77	122.07	20.234		
19,300.00	12,380.00	17,362.59	10,418.00	123.64	120.59	37.40	-6,970.05	-749.09	2,469.84	2,346.25	123.59	19.985		
19,400.00	12,380.00	17,462.59	10,418.00	125.18	122.16	37.40	-7,070.05	-748.09	2,469.83	2,344.73	125.11	19.742		
19,500.00	12,380.00	17,562.59	10,418.00	126.73	123.72	37.40	-7,170.04	-747.10	2,469.83	2,343.20	126.63	19.504		
19,600.00	12,380.00	17,662.59	10,418.00	128.27	125.30	37.40	-7,270.04	-746.11	2,469.83	2,341.67	128.16	19.272		
19,700.00	12,380.00	17,762.59	10,418.00	129.82	126.87	37.40	-7,370.03	-745.12	2,469.83	2,340.14	129.68	19.045		
19,800.00	12,380.00	17,862.59	10,418.00	131.38	128.45	37.40	-7,470.03	-744.12	2,469.82	2,338.61	131.21	18.823		
19,900.00	12,380.00	17,962.59	10,418.00	132.93	130.02	37.40	-7,570.02	-743.13	2,469.82	2,337.07	132.75	18.606		
20,000.00	12,380.00	18,062.59	10,418.00	134.49	131.60	37.40	-7,670.02	-742.14	2,469.82	2,335.54	134.28	18.393		
20,100.00	12,380.00	18,162.59	10,418.00	136.04	133.18	37.40	-7,770.01	-741.15	2,469.81	2,334.00	135.81	18.185		
20,200.00	12,380.00	18,262.59	10,418.00	137.61	134.77	37.40	-7,870.01	-740.15	2,469.81	2,332.46	137.35	17.982		
20,300.00	12,380.00	18,362.59	10,418.00	139.17	136.35	37.40	-7,970.00	-739.16	2,469.81	2,330.92	138.89	17.783		
20,400.00	12,380.00	18,462.59	10,418.00	140.73	137.94	37.40	-8,070.00	-738.17	2,469.81	2,329.38	140.43	17.588		
20,500.00	12,380.00	18,562.59	10,418.00	142.30	139.52	37.40	-8,169.99	-737.18	2,469.80	2,327.84	141.96	17.397		
20,600.00	12,380.00	18,662.59	10,418.00	143.87	141.11	37.40	-8,269.99	-736.18	2,469.80	2,326.30	143.50	17.211		
20,700.00	12,380.00	18,762.59	10,418.00	145.44	142.70	37.40	-8,369.98	-735.19	2,469.80	2,324.75	145.05	17.028		
20,800.00	12,380.00	18,862.59	10,418.00	147.01	144.30	37.40	-8,469.98	-734.20	2,469.79	2,323.20	146.59	16.848		
20,900.00	12,380.00	18,962.59	10,418.00	148.59	145.89	37.40	-8,569.97	-733.21	2,469.79	2,321.66	148.13	16.673		
21,000.00	12,380.00	19,062.59	10,418.00	150.16	147.48	37.40	-8,669.97	-732.21	2,469.79	2,320.11	149.68	16.501		
21,100.00	12,380.00	19,162.59	10,418.00	151.74	149.08	37.40	-8,769.96	-731.22	2,469.79	2,318.56	151.22	16.332		
21,200.00	12,380.00	19,262.59	10,418.00	153.32	150.68	37.40	-8,869.96	-730.23	2,469.78	2,317.01	152.77	16.166		
21,300.00	12,380.00	19,362.59	10,418.00	154.90	152.27	37.40	-8,969.95	-729.24	2,469.78	2,315.46	154.32	16.004		
21,400.00	12,380.00	19,462.59	10,418.00	156.48	153.87	37.40	-9,069.95	-728.24	2,469.78	2,313.91	155.87	15.845		
21,500.00	12,380.00	19,562.59	10,418.00	158.06	155.47	37.40	-9,169.94	-727.25	2,469.78	2,312.36	157.42	15.689		
21,600.00	12,380.00	19,662.59	10,418.00	159.65	157.07	37.40	-9,269.94	-726.26	2,469.77	2,310.80	158.97	15.536		
21,700.00	12,380.00	19,762.59	10,418.00	161.23	158.68	37.40	-9,369.93	-725.27	2,469.77	2,309.25	160.52	15.386		
21,800.00	12,380.00	19,862.59	10,418.00	162.82	160.28	37.40	-9,469.93	-724.27	2,469.77	2,307.69	162.07	15.239		
21,900.00	12,380.00	19,962.59	10,418.00	164.41	161.88	37.40	-9,569.92	-723.28	2,469.76	2,306.14	163.62	15.094		
22,000.00	12,380.00	20,062.59	10,418.00	166.00	163.49	37.40	-9,669.92	-722.29	2,469.76	2,304.58	165.18	14.952		
22,100.00	12,380.00	20,162.59	10,418.00	167.59	165.10	37.40	-9,769.91	-721.30	2,469.76	2,303.03	166.73	14.813		
22,200.00	12,380.00	20,262.59	10,418.00	169.18	166.70	37.40	-9,869.91	-720.31	2,469.76	2,301.47	168.28	14.676		
22,300.00	12,380.00	20,362.59	10,418.00	170.77	168.31	37.40	-9,969.90	-719.31	2,469.75	2,299.92	169.84	14.542		
22,400.00	12,380.00	20,462.59	10,418.00	172.37	169.92	37.40	-10,069.90	-718.32	2,469.75	2,298.36	171.39	14.410		
22,500.00	12,380.00	20,562.59	10,418.00	173.96	171.53	37.40	-10,169.89	-717.33	2,469.75	2,296.80	172.95	14.280		
22,547.76	12,380.00	20,610.34	10,418.00	174.73	172.30	37.40	-10,217.65	-716.85	2,469.75	2,296.06	173.69	14.219		
22,548.65	12,380.00	20,611.24	10,418.00	174.75	172.31	37.40	-10,218.54	-716.84	2,469.75	2,296.04	173.71	14.218		

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

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COMPASS 5000.15 Build 91



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													PF Fed Com - Paul Foster Fed Com 504H - OH - Plan #1		Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD															Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	0.00	0.00	0.00	0.00	-171.15	-75.06	-11.68	75.96							
100.00	100.00	100.00	100.00	0.13	0.13	-171.15	-75.06	-11.68	75.96	75.79	0.18	428.118				
200.00	200.00	200.00	200.00	0.48	0.48	-171.15	-75.06	-11.68	75.96	75.28	0.68	110.994				
300.00	300.00	300.00	300.00	0.84	0.84	-171.15	-75.06	-11.68	75.96	74.77	1.19	63.762				
400.00	400.00	400.00	400.00	1.20	1.20	-171.15	-75.06	-11.68	75.96	74.26	1.70	44.729				
500.00	500.00	500.00	500.00	1.56	1.56	-171.15	-75.06	-11.68	75.96	73.76	2.21	34.446				
600.00	600.00	600.00	600.00	1.92	1.92	-171.15	-75.06	-11.68	75.96	73.25	2.71	28.008				
700.00	700.00	700.00	700.00	2.28	2.28	-171.15	-75.06	-11.68	75.96	72.74	3.22	23.597				
800.00	800.00	800.00	800.00	2.63	2.63	-171.15	-75.06	-11.68	75.96	72.24	3.73	20.387				
900.00	900.00	900.00	900.00	2.99	2.99	-171.15	-75.06	-11.68	75.96	71.73	4.23	17.945				
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	-171.15	-75.06	-11.68	75.96	71.22	4.74	16.026				
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	-171.15	-75.06	-11.68	75.96	70.72	5.25	14.477				
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	-171.15	-75.06	-11.68	75.96	70.21	5.75	13.202				
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	-171.15	-75.06	-11.68	75.96	69.70	6.26	12.133				
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-171.15	-75.06	-11.68	75.96	69.20	6.77	11.224				
1,500.00	1,500.00	1,500.00	1,500.00	5.14	5.14	-171.15	-75.06	-11.68	75.96	68.69	7.27	10.442				
1,600.00	1,600.00	1,600.00	1,600.00	5.50	5.50	-171.15	-75.06	-11.68	75.96	68.18	7.78	9.762				
1,700.00	1,700.00	1,700.00	1,700.00	5.86	5.86	-171.15	-75.06	-11.68	75.96	67.67	8.29	9.165				
1,800.00	1,800.00	1,800.00	1,800.00	6.22	6.22	-171.15	-75.06	-11.68	75.96	67.17	8.80	8.636				
1,900.00	1,900.00	1,900.00	1,900.00	6.58	6.58	-171.15	-75.06	-11.68	75.96	66.66	9.30	8.166				
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	-171.15	-75.06	-11.68	75.96	66.15	9.81	7.744				
2,100.00	2,100.00	2,100.00	2,100.00	7.29	7.29	-171.15	-75.06	-11.68	75.96	65.65	10.32	7.363				
2,200.00	2,199.99	2,199.99	2,199.99	7.65	7.65	115.20	-75.06	-11.68	76.51	65.69	10.82	7.072				
2,300.00	2,299.91	2,300.97	2,300.96	7.99	8.01	116.97	-74.62	-10.42	77.58	66.27	11.32	6.856				
2,400.00	2,399.69	2,402.02	2,401.92	8.34	8.36	118.75	-73.30	-6.64	78.56	66.75	11.81	6.653				
2,500.00	2,499.27	2,503.13	2,502.82	8.70	8.72	120.53	-71.10	-0.33	79.45	67.15	12.30	6.459				
2,601.33	2,599.89	2,605.67	2,604.91	9.06	9.08	122.34	-67.97	8.64	80.27	67.47	12.80	6.271				
2,700.00	2,697.71	2,705.58	2,704.10	9.42	9.44	123.38	-64.06	19.86	80.28	66.99	13.29	6.041				
2,800.00	2,796.85	2,806.83	2,804.28	9.78	9.80	122.90	-59.22	33.74	78.71	64.92	13.79	5.709				
2,900.00	2,895.99	2,906.89	2,903.05	10.15	10.18	121.47	-53.93	48.89	76.25	61.94	14.31	5.329				
3,000.00	2,995.13	3,006.84	3,001.70	10.53	10.55	119.93	-48.65	64.03	73.83	58.99	14.84	4.976				
3,100.00	3,094.27	3,106.79	3,100.36	10.90	10.93	118.30	-43.37	79.18	71.47	56.10	15.37	4.649				
3,200.00	3,193.41	3,206.74	3,199.01	11.28	11.32	116.56	-38.09	94.33	69.17	53.26	15.92	4.346				
3,300.00	3,292.55	3,306.69	3,297.67	11.67	11.71	114.69	-32.80	109.47	66.94	50.48	16.46	4.067				
3,400.00	3,391.69	3,406.65	3,396.32	12.05	12.10	112.71	-27.52	124.62	64.79	47.77	17.01	3.808				
3,500.00	3,490.83	3,506.60	3,494.98	12.44	12.50	110.58	-22.24	139.76	62.72	45.15	17.57	3.569				
3,600.00	3,589.97	3,606.55	3,593.63	12.82	12.89	108.32	-16.96	154.91	60.74	42.60	18.14	3.349				
3,700.00	3,689.11	3,706.50	3,692.29	13.21	13.30	105.91	-11.67	170.05	58.86	40.16	18.70	3.147				
3,800.00	3,788.25	3,806.45	3,790.94	13.60	13.70	103.34	-6.39	185.20	57.09	37.82	19.27	2.962				
3,900.00	3,887.39	3,906.40	3,889.60	13.99	14.10	100.62	-1.11	200.35	55.45	35.60	19.85	2.794				
4,000.00	3,986.53	4,006.35	3,988.25	14.39	14.51	97.74	4.17	215.49	53.94	33.51	20.42	2.641				
4,100.00	4,085.67	4,106.30	4,086.91	14.78	14.92	94.70	9.45	230.64	52.57	31.57	21.00	2.504				
4,200.00	4,184.81	4,206.25	4,185.56	15.18	15.33	91.50	14.74	245.78	51.36	29.78	21.57	2.381				
4,300.00	4,283.95	4,306.20	4,284.22	15.57	15.75	88.17	20.02	260.93	50.31	28.17	22.14	2.272				
4,400.00	4,383.09	4,406.15	4,382.87	15.97	16.16	84.70	25.30	276.07	49.44	26.74	22.71	2.177				
4,500.00	4,482.23	4,506.10	4,481.53	16.37	16.57	81.12	30.58	291.22	48.76	25.50	23.26	2.096				
4,600.00	4,581.37	4,606.05	4,580.19	16.77	16.99	77.46	35.87	306.36	48.28	24.47	23.81	2.028				
4,700.00	4,680.51	4,706.00	4,678.84	17.17	17.41	73.74	41.15	321.51	47.99	23.64	24.35	1.971				
4,788.90	4,768.65	4,794.86	4,766.55	17.52	17.78	70.41	45.84	334.98	47.91	23.10	24.81	1.931 CC				
4,800.00	4,779.65	4,805.95	4,777.50	17.57	17.83	69.99	46.43	336.66	47.91	23.04	24.87	1.926				
4,900.00	4,878.79	4,905.91	4,876.15	17.97	18.25	66.24	51.71	351.80	48.04	22.66	25.38	1.893				
5,000.00	4,977.93	5,005.86	4,974.81	18.37	18.67	62.53	57.00	366.95	48.37	22.49	25.88	1.869 ES				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													PF Fed Com - Paul Foster Fed Com 504H - OH - Plan #1		Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD															Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Minimum	Separation				
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor				
5,100.00	5,077.07	5,105.81	5,073.46	18.77	19.09	58.89	62.28	382.09	48.90	22.53	26.37	1.854				
5,200.00	5,176.21	5,205.76	5,172.12	19.17	19.51	55.33	67.56	397.24	49.62	22.77	26.85	1.848				
5,300.00	5,275.35	5,305.71	5,270.77	19.57	19.93	51.89	72.84	412.38	50.53	23.20	27.32	1.849				
5,400.00	5,374.49	5,405.66	5,369.43	19.98	20.36	48.59	78.13	427.53	51.61	23.82	27.79	1.857				
5,500.00	5,473.63	5,505.61	5,468.08	20.38	20.78	45.43	83.41	442.68	52.86	24.60	28.25	1.871				
5,600.00	5,572.77	5,605.56	5,566.74	20.78	21.21	42.42	88.69	457.82	54.26	25.54	28.72	1.889				
5,700.00	5,671.91	5,705.51	5,665.39	21.19	21.63	39.57	93.97	472.97	55.80	26.62	29.18	1.912				
5,800.00	5,771.05	5,805.46	5,764.05	21.59	22.06	36.89	99.25	488.11	57.48	27.83	29.64	1.939				
5,900.00	5,870.19	5,905.41	5,862.70	22.00	22.49	34.36	104.54	503.26	59.27	29.16	30.11	1.968				
6,000.00	5,969.33	6,005.36	5,961.36	22.40	22.91	31.98	109.82	518.40	61.17	30.59	30.58	2.000				
6,100.00	6,068.47	6,105.31	6,060.01	22.81	23.34	29.75	115.10	533.55	63.17	32.12	31.05	2.034				
6,200.00	6,167.61	6,205.26	6,158.67	23.22	23.77	27.66	120.38	548.70	65.26	33.73	31.53	2.070				
6,300.00	6,266.75	6,305.22	6,257.32	23.62	24.20	25.70	125.67	563.84	67.43	35.43	32.01	2.107				
6,400.00	6,365.89	6,405.17	6,355.98	24.03	24.63	23.86	130.95	578.99	69.68	37.19	32.49	2.145				
6,500.00	6,465.03	6,505.12	6,454.63	24.44	25.06	22.14	136.23	594.13	71.99	39.02	32.97	2.183				
6,600.00	6,564.17	6,605.07	6,553.29	24.84	25.49	20.53	141.51	609.28	74.36	40.90	33.46	2.222				
6,700.00	6,663.31	6,705.02	6,651.94	25.25	25.92	19.02	146.80	624.42	76.79	42.84	33.96	2.261				
6,800.00	6,762.45	6,805.88	6,751.54	25.66	26.35	17.67	152.03	639.44	79.00	44.52	34.48	2.291				
6,856.14	6,818.11	6,863.12	6,808.21	25.89	26.58	17.18	154.69	647.05	79.37	44.58	34.80	2.281				
6,900.00	6,861.62	6,907.85	6,852.57	26.06	26.77	16.90	156.57	652.44	79.36	44.32	35.04	2.265				
7,000.00	6,961.05	7,009.83	6,953.95	26.46	27.17	16.36	160.21	662.90	79.34	43.77	35.56	2.231				
7,100.00	7,060.72	7,111.82	7,055.59	26.84	27.56	15.95	162.97	670.80	79.33	43.27	36.06	2.200				
7,200.00	7,160.57	7,213.82	7,157.43	27.20	27.92	15.67	164.83	676.13	79.32	42.80	36.52	2.172				
7,300.00	7,260.53	7,315.81	7,259.38	27.55	28.27	15.53	165.79	678.89	79.32	42.37	36.95	2.147				
7,357.47	7,318.00	7,374.43	7,318.00	27.74	28.46	90.04	165.94	679.32	79.32	42.14	37.17	2.134				
7,400.00	7,360.53	7,416.96	7,360.53	27.88	28.60	90.04	165.94	679.32	79.32	41.94	37.38	2.122				
7,500.00	7,460.53	7,516.96	7,460.53	28.21	28.92	90.04	165.94	679.32	79.32	41.45	37.87	2.095				
7,600.00	7,560.53	7,616.96	7,560.53	28.54	29.25	90.04	165.94	679.32	79.32	40.97	38.35	2.068				
7,700.00	7,660.53	7,716.96	7,660.53	28.87	29.57	90.04	165.94	679.32	79.32	40.48	38.84	2.042				
7,800.00	7,760.53	7,816.96	7,760.53	29.20	29.90	90.04	165.94	679.32	79.32	39.99	39.32	2.017				
7,900.00	7,860.53	7,916.96	7,860.53	29.53	30.22	90.04	165.94	679.32	79.32	39.51	39.81	1.992				
8,000.00	7,960.53	8,016.96	7,960.53	29.87	30.55	90.04	165.94	679.32	79.32	39.02	40.30	1.968				
8,100.00	8,060.53	8,116.96	8,060.53	30.20	30.87	90.04	165.94	679.32	79.32	38.53	40.79	1.945				
8,200.00	8,160.53	8,216.96	8,160.53	30.53	31.20	90.04	165.94	679.32	79.32	38.04	41.28	1.922				
8,300.00	8,260.53	8,316.96	8,260.53	30.87	31.53	90.04	165.94	679.32	79.32	37.55	41.76	1.899				
8,400.00	8,360.53	8,416.96	8,360.53	31.20	31.86	90.04	165.94	679.32	79.32	37.06	42.25	1.877				
8,500.00	8,460.53	8,516.96	8,460.53	31.54	32.19	90.04	165.94	679.32	79.32	36.57	42.74	1.856				
8,600.00	8,560.53	8,616.96	8,560.53	31.88	32.52	90.04	165.94	679.32	79.32	36.08	43.23	1.835				
8,700.00	8,660.53	8,716.96	8,660.53	32.21	32.85	90.04	165.94	679.32	79.32	35.59	43.73	1.814				
8,800.00	8,760.53	8,816.96	8,760.53	32.55	33.18	90.04	165.94	679.32	79.32	35.10	44.22	1.794				
8,900.00	8,860.53	8,916.96	8,860.53	32.89	33.52	90.04	165.94	679.32	79.32	34.61	44.71	1.774				
9,000.00	8,960.53	9,016.96	8,960.53	33.23	33.85	90.04	165.94	679.32	79.32	34.12	45.20	1.755				
9,100.00	9,060.53	9,116.96	9,060.53	33.56	34.18	90.04	165.94	679.32	79.32	33.63	45.69	1.736				
9,200.00	9,160.53	9,216.96	9,160.53	33.90	34.51	90.04	165.94	679.32	79.32	33.13	46.18	1.717				
9,300.00	9,260.53	9,316.96	9,260.53	34.24	34.85	90.04	165.94	679.32	79.32	32.64	46.68	1.699				
9,400.00	9,360.53	9,416.96	9,360.53	34.58	35.18	90.04	165.94	679.32	79.32	32.15	47.17	1.682				
9,500.00	9,460.53	9,516.96	9,460.53	34.92	35.52	90.04	165.94	679.32	79.32	31.65	47.66	1.664				
9,600.00	9,560.53	9,616.96	9,560.53	35.26	35.85	90.04	165.94	679.32	79.32	31.16	48.16	1.647				
9,700.00	9,660.53	9,716.96	9,660.53	35.60	36.19	90.04	165.94	679.32	79.32	30.67	48.65	1.630				
9,800.00	9,760.53	9,816.96	9,760.53	35.94	36.53	90.04	165.94	679.32	79.32	30.17	49.15	1.614				
9,806.82	9,767.35	9,823.78	9,767.35	35.97	36.55	90.04	165.94	679.32	79.32	30.14	49.18	1.613				
9,900.00	9,860.53	9,916.26	9,859.54	36.29	36.83	94.34	159.97	679.38	79.61	29.86	49.76	1.600 SF				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	9,960.53	10,010.80	9,951.55	36.63	37.09	108.92	138.72	679.59	84.61	34.03	50.58	1.673		
10,100.00	10,060.53	10,096.39	10,030.83	36.97	37.30	126.59	106.67	679.91	103.86	53.98	49.88	2.082		
10,200.00	10,160.53	10,171.03	10,095.40	37.31	37.44	140.28	69.35	680.28	141.52	94.01	47.51	2.979		
10,300.00	10,260.53	10,234.65	10,146.23	37.65	37.55	149.11	31.15	680.67	194.31	149.35	44.97	4.321		
10,400.00	10,360.53	10,288.26	10,185.56	38.00	37.63	154.68	-5.27	681.03	257.90	215.14	42.76	6.031		
10,500.00	10,460.53	10,333.33	10,215.86	38.34	37.69	158.31	-38.61	681.37	329.16	288.22	40.94	8.040		
10,600.00	10,560.53	10,371.29	10,239.29	38.68	37.73	160.80	-68.47	681.66	406.01	366.54	39.47	10.288		
10,700.00	10,660.53	10,400.00	10,255.66	39.03	37.76	162.39	-92.04	681.90	487.04	448.93	38.12	12.778		
10,800.00	10,760.53	10,430.86	10,271.93	39.37	37.79	163.88	-118.26	682.16	571.22	533.88	37.34	15.297		
10,900.00	10,860.53	10,450.00	10,281.29	39.72	37.81	164.70	-134.95	682.33	657.93	621.48	36.45	18.051		
11,000.00	10,960.53	10,474.81	10,292.60	40.06	37.83	165.66	-157.04	682.55	746.53	710.50	36.03	20.722		
11,100.00	11,060.53	10,500.00	10,303.08	40.41	37.85	166.54	-179.93	682.78	836.81	801.03	35.77	23.391		
11,200.00	11,160.53	10,500.00	10,303.08	40.75	37.85	166.54	-179.93	682.78	928.30	893.23	35.06	26.474		
11,300.00	11,260.53	10,522.01	10,311.42	41.10	37.87	167.24	-200.30	682.98	1,020.73	985.72	35.01	29.159		
11,400.00	11,360.53	10,550.00	10,320.87	41.44	37.90	168.03	-226.64	683.25	1,114.44	1,079.32	35.12	31.732		
11,500.00	11,460.53	10,550.00	10,320.87	41.79	37.90	168.03	-226.64	683.25	1,208.27	1,173.46	34.81	34.708		
11,600.00	11,560.53	10,550.00	10,320.87	42.13	37.90	168.03	-226.64	683.25	1,303.02	1,268.40	34.62	37.638		
11,700.00	11,660.53	10,550.00	10,320.87	42.48	37.90	168.03	-226.64	683.25	1,398.49	1,363.98	34.51	40.521		
11,800.00	11,760.53	10,572.12	10,327.43	42.83	37.92	168.60	-247.77	683.46	1,493.97	1,459.25	34.72	43.025		
11,846.51	11,807.04	10,575.64	10,328.39	42.99	37.93	168.68	-251.15	683.49	1,538.63	1,503.88	34.75	44.274		
11,850.00	11,810.53	10,575.90	10,328.47	43.00	37.93	-4.32	-251.40	683.50	1,541.98	1,507.22	34.75	44.368		
11,900.00	11,860.45	10,580.12	10,329.60	43.16	37.93	-3.26	-255.47	683.54	1,589.34	1,554.56	34.78	45.703		
11,950.00	11,909.97	10,600.00	10,334.52	43.31	37.96	-2.42	-274.73	683.73	1,635.55	1,600.63	34.92	46.835		
12,000.00	11,958.70	10,600.00	10,334.52	43.46	37.96	-2.05	-274.73	683.73	1,679.68	1,644.84	34.84	48.216		
12,050.00	12,006.28	10,600.00	10,334.52	43.61	37.96	-1.79	-274.73	683.73	1,722.00	1,687.26	34.74	49.566		
12,100.00	12,052.34	10,600.00	10,334.52	43.75	37.96	-1.59	-274.73	683.73	1,762.33	1,727.69	34.64	50.880		
12,150.00	12,096.54	10,600.00	10,334.52	43.87	37.96	-1.43	-274.73	683.73	1,800.51	1,765.98	34.53	52.149		
12,200.00	12,138.53	10,621.18	10,339.03	43.99	37.99	-1.20	-295.42	683.94	1,835.87	1,801.30	34.56	53.118		
12,250.00	12,178.00	10,630.01	10,340.68	44.10	38.00	-1.07	-304.09	684.02	1,868.79	1,834.29	34.50	54.171		
12,300.00	12,214.64	10,650.00	10,343.93	44.21	38.03	-0.91	-323.81	684.22	1,899.08	1,864.59	34.50	55.050		
12,350.00	12,248.19	10,650.00	10,343.93	44.30	38.03	-0.86	-323.81	684.22	1,926.23	1,891.85	34.38	56.034		
12,400.00	12,278.37	10,650.00	10,343.93	44.39	38.03	-0.82	-323.81	684.22	1,950.59	1,916.32	34.27	56.919		
12,450.00	12,304.97	10,650.00	10,343.93	44.48	38.03	-0.79	-323.81	684.22	1,972.08	1,937.89	34.19	57.686		
12,500.00	12,327.78	10,679.31	10,347.44	44.58	38.08	-0.66	-352.91	684.51	1,989.68	1,955.46	34.22	58.142		
12,550.00	12,346.63	10,700.00	10,349.02	44.68	38.12	-0.57	-373.54	684.72	2,004.55	1,970.32	34.23	58.566		
12,600.00	12,361.37	10,700.00	10,349.02	44.79	38.12	-0.56	-373.54	684.72	2,015.88	1,981.70	34.19	58.969		
12,650.00	12,371.89	10,700.00	10,349.02	44.91	38.12	-0.55	-373.54	684.72	2,024.13	1,989.95	34.18	59.222		
12,700.00	12,378.11	10,733.47	10,350.00	45.04	38.19	-0.44	-406.99	685.05	2,028.85	1,994.61	34.24	59.252		
12,746.51	12,380.00	10,733.47	10,350.00	45.17	38.19	-0.44	-406.99	685.05	2,030.07	1,995.79	34.28	59.229		
12,800.00	12,380.00	10,782.35	10,350.00	45.34	38.31	-0.30	-455.86	685.54	2,030.03	1,995.66	34.37	59.064		
12,900.00	12,380.00	10,882.07	10,350.00	45.69	38.62	-0.09	-555.57	686.54	2,030.00	1,995.42	34.58	58.703		
12,977.69	12,380.00	10,959.68	10,350.00	45.99	38.91	0.00	-633.19	687.32	2,030.00	1,995.22	34.78	58.370		
13,000.00	12,380.00	10,981.98	10,350.00	46.08	39.01	0.02	-655.49	687.54	2,030.00	1,995.16	34.84	58.271		
13,063.21	12,380.00	11,045.19	10,350.00	46.35	39.29	0.04	-718.69	688.17	2,030.00	1,994.98	35.02	57.968		
13,100.00	12,380.00	11,081.98	10,350.00	46.52	39.47	0.04	-755.48	688.54	2,030.00	1,994.87	35.13	57.783		
13,200.00	12,380.00	11,181.98	10,350.00	47.00	40.00	0.04	-855.47	689.54	2,030.00	1,994.54	35.46	57.247		
13,300.00	12,380.00	11,281.98	10,350.00	47.54	40.59	0.03	-955.47	690.55	2,030.00	1,994.18	35.82	56.671		
13,400.00	12,380.00	11,381.98	10,350.00	48.13	41.24	0.03	-1,055.46	691.55	2,030.00	1,993.79	36.21	56.059		
13,500.00	12,380.00	11,481.98	10,350.00	48.77	41.95	0.03	-1,155.46	692.55	2,030.00	1,993.37	36.63	55.416		
13,600.00	12,380.00	11,581.98	10,350.00	49.45	42.71	0.03	-1,255.45	693.55	2,030.00	1,992.92	37.08	54.745		
13,700.00	12,380.00	11,681.98	10,350.00	50.18	43.52	0.03	-1,355.45	694.55	2,030.00	1,992.44	37.56	54.051		
13,800.00	12,380.00	11,781.98	10,350.00	50.95	44.37	0.03	-1,455.44	695.55	2,030.00	1,991.94	38.06	53.337		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		
13,900.00	12,380.00	11,881.98	10,350.00	51.77	45.27	0.03	-1,555.44	696.55	2,030.00	1,991.41	38.59	52.607		
14,000.00	12,380.00	11,981.98	10,350.00	52.62	46.21	0.03	-1,655.43	697.55	2,030.00	1,990.86	39.14	51.864		
14,100.00	12,380.00	12,081.98	10,350.00	53.51	47.19	0.03	-1,755.43	698.56	2,030.00	1,990.28	39.72	51.112		
14,200.00	12,380.00	12,181.98	10,350.00	54.44	48.21	0.03	-1,855.42	699.56	2,030.00	1,989.69	40.31	50.354		
14,300.00	12,380.00	12,281.98	10,350.00	55.40	49.26	0.03	-1,955.42	700.56	2,030.00	1,989.07	40.93	49.592		
14,400.00	12,380.00	12,381.98	10,350.00	56.39	50.34	0.03	-2,055.41	701.56	2,030.00	1,988.43	41.57	48.828		
14,500.00	12,380.00	12,481.98	10,350.00	57.41	51.45	0.03	-2,155.41	702.56	2,030.00	1,987.77	42.23	48.066		
14,600.00	12,380.00	12,581.98	10,350.00	58.46	52.59	0.03	-2,255.40	703.56	2,030.00	1,987.09	42.91	47.306		
14,700.00	12,380.00	12,681.98	10,350.00	59.54	53.76	0.03	-2,355.40	704.56	2,030.00	1,986.39	43.61	46.552		
14,800.00	12,380.00	12,781.98	10,350.00	60.64	54.95	0.03	-2,455.39	705.57	2,030.00	1,985.68	44.32	45.803		
14,900.00	12,380.00	12,881.98	10,350.00	61.77	56.17	0.03	-2,555.39	706.57	2,030.00	1,984.95	45.05	45.062		
15,000.00	12,380.00	12,981.98	10,350.00	62.92	57.40	0.03	-2,655.38	707.57	2,030.00	1,984.21	45.79	44.330		
15,100.00	12,380.00	13,081.98	10,350.00	64.09	58.66	0.03	-2,755.38	708.57	2,030.00	1,983.45	46.55	43.608		
15,200.00	12,380.00	13,181.98	10,350.00	65.28	59.94	0.03	-2,855.37	709.57	2,030.00	1,982.68	47.32	42.896		
15,300.00	12,380.00	13,281.98	10,350.00	66.50	61.23	0.03	-2,955.37	710.57	2,030.00	1,981.89	48.11	42.195		
15,400.00	12,380.00	13,381.98	10,350.00	67.73	62.54	0.03	-3,055.36	711.57	2,030.00	1,981.09	48.91	41.507		
15,500.00	12,380.00	13,481.98	10,350.00	68.98	63.87	0.03	-3,155.36	712.57	2,030.00	1,980.28	49.72	40.830		
15,600.00	12,380.00	13,581.98	10,350.00	70.24	65.21	0.03	-3,255.35	713.58	2,030.00	1,979.46	50.54	40.166		
15,700.00	12,380.00	13,681.98	10,350.00	71.52	66.56	0.03	-3,355.35	714.58	2,030.00	1,978.63	51.37	39.516		
15,800.00	12,380.00	13,781.98	10,350.00	72.82	67.93	0.03	-3,455.34	715.58	2,030.00	1,977.79	52.22	38.878		
15,900.00	12,380.00	13,881.98	10,350.00	74.13	69.31	0.03	-3,555.34	716.58	2,030.00	1,976.93	53.07	38.253		
16,000.00	12,380.00	13,981.98	10,350.00	75.46	70.70	0.02	-3,655.33	717.58	2,030.00	1,976.07	53.93	37.642		
16,100.00	12,380.00	14,081.98	10,350.00	76.79	72.11	0.02	-3,755.33	718.58	2,030.00	1,975.20	54.80	37.043		
16,200.00	12,380.00	14,181.98	10,350.00	78.14	73.52	0.02	-3,855.32	719.58	2,030.00	1,974.32	55.68	36.458		
16,300.00	12,380.00	14,281.98	10,350.00	79.50	74.94	0.02	-3,955.32	720.58	2,030.00	1,973.43	56.57	35.886		
16,400.00	12,380.00	14,381.98	10,350.00	80.87	76.38	0.02	-4,055.31	721.59	2,030.00	1,972.54	57.46	35.327		
16,500.00	12,380.00	14,481.98	10,350.00	82.25	77.82	0.02	-4,155.31	722.59	2,030.00	1,971.63	58.37	34.781		
16,600.00	12,380.00	14,581.98	10,350.00	83.64	79.27	0.02	-4,255.30	723.59	2,030.00	1,970.72	59.28	34.247		
16,700.00	12,380.00	14,681.98	10,350.00	85.04	80.72	0.02	-4,355.30	724.59	2,030.00	1,969.81	60.19	33.726		
16,800.00	12,380.00	14,781.98	10,350.00	86.45	82.19	0.02	-4,455.29	725.59	2,030.00	1,968.89	61.11	33.216		
16,900.00	12,380.00	14,881.98	10,350.00	87.87	83.66	0.02	-4,555.29	726.59	2,030.00	1,967.96	62.04	32.719		
17,000.00	12,380.00	14,981.98	10,350.00	89.30	85.14	0.02	-4,655.28	727.59	2,030.00	1,967.02	62.98	32.233		
17,100.00	12,380.00	15,081.98	10,350.00	90.73	86.62	0.02	-4,755.28	728.59	2,030.00	1,966.08	63.92	31.759		
17,200.00	12,380.00	15,181.98	10,350.00	92.17	88.11	0.02	-4,855.27	729.60	2,030.00	1,965.14	64.86	31.296		
17,300.00	12,380.00	15,281.98	10,350.00	93.62	89.60	0.02	-4,955.27	730.60	2,030.00	1,964.18	65.82	30.844		
17,400.00	12,380.00	15,381.98	10,350.00	95.07	91.11	0.02	-5,055.26	731.60	2,030.00	1,963.23	66.77	30.402		
17,500.00	12,380.00	15,481.98	10,350.00	96.53	92.61	0.02	-5,155.26	732.60	2,030.00	1,962.27	67.73	29.971		
17,600.00	12,380.00	15,581.98	10,350.00	98.00	94.12	0.02	-5,255.25	733.60	2,030.00	1,961.30	68.70	29.550		
17,700.00	12,380.00	15,681.98	10,350.00	99.47	95.64	0.02	-5,355.25	734.60	2,030.00	1,960.33	69.67	29.139		
17,800.00	12,380.00	15,781.98	10,350.00	100.95	97.16	0.02	-5,455.24	735.60	2,030.00	1,959.36	70.64	28.737		
17,900.00	12,380.00	15,881.98	10,350.00	102.43	98.68	0.02	-5,555.24	736.60	2,030.00	1,958.38	71.62	28.345		
18,000.00	12,380.00	15,981.98	10,350.00	103.92	100.21	0.02	-5,655.23	737.61	2,030.00	1,957.40	72.60	27.962		
18,100.00	12,380.00	16,081.98	10,350.00	105.41	101.74	0.02	-5,755.23	738.61	2,030.00	1,956.42	73.58	27.588		
18,200.00	12,380.00	16,181.98	10,350.00	106.91	103.28	0.02	-5,855.22	739.61	2,030.00	1,955.43	74.57	27.222		
18,300.00	12,380.00	16,281.98	10,350.00	108.41	104.82	0.02	-5,955.22	740.61	2,030.00	1,954.44	75.56	26.865		
18,400.00	12,380.00	16,381.98	10,350.00	109.92	106.36	0.02	-6,055.21	741.61	2,030.00	1,953.44	76.56	26.516		
18,500.00	12,380.00	16,481.98	10,350.00	111.43	107.91	0.02	-6,155.21	742.61	2,030.00	1,952.44	77.56	26.174		
18,600.00	12,380.00	16,581.98	10,350.00	112.94	109.45	0.01	-6,255.20	743.61	2,030.00	1,951.44	78.56	25.841		
18,700.00	12,380.00	16,681.98	10,350.00	114.46	111.01	0.01	-6,355.20	744.61	2,030.00	1,950.44	79.56	25.515		
18,800.00	12,380.00	16,781.98	10,350.00	115.98	112.56	0.01	-6,455.19	745.62	2,030.00	1,949.43	80.57	25.196		
18,900.00	12,380.00	16,881.98	10,350.00	117.51	114.12	0.01	-6,555.19	746.62	2,030.00	1,948.42	81.58	24.884		
19,000.00	12,380.00	16,981.98	10,350.00	119.04	115.68	0.01	-6,655.18	747.62	2,030.00	1,947.41	82.59	24.579		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		PF Fed Com - Paul Foster Fed Com 504H - OH - Plan #1											Offset Site Error:		0.00 usft	
Survey Program:		0-OWSG (Rev2) MWD											Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis		Distance										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)					
19,100.00	12,380.00	17,081.98	10,350.00	120.57	117.24	0.01	-6,755.18	748.62	2,030.00	1,946.40	83.61	24.281				
19,200.00	12,380.00	17,181.98	10,350.00	122.11	118.81	0.01	-6,855.17	749.62	2,030.00	1,945.38	84.62	23.989				
19,300.00	12,380.00	17,281.98	10,350.00	123.64	120.37	0.01	-6,955.17	750.62	2,030.00	1,944.36	85.64	23.704				
19,400.00	12,380.00	17,381.98	10,350.00	125.18	121.94	0.01	-7,055.16	751.62	2,030.00	1,943.34	86.66	23.424				
19,500.00	12,380.00	17,481.98	10,350.00	126.73	123.51	0.01	-7,155.16	752.63	2,030.00	1,942.31	87.69	23.151				
19,600.00	12,380.00	17,581.98	10,350.00	128.27	125.09	0.01	-7,255.15	753.63	2,030.00	1,941.29	88.71	22.883				
19,700.00	12,380.00	17,681.98	10,350.00	129.82	126.66	0.01	-7,355.15	754.63	2,030.00	1,940.26	89.74	22.621				
19,800.00	12,380.00	17,781.98	10,350.00	131.38	128.24	0.01	-7,455.14	755.63	2,030.00	1,939.23	90.77	22.364				
19,900.00	12,380.00	17,881.98	10,350.00	132.93	129.82	0.01	-7,555.14	756.63	2,030.00	1,938.20	91.80	22.113				
20,000.00	12,380.00	17,981.98	10,350.00	134.49	131.40	0.01	-7,655.13	757.63	2,030.00	1,937.17	92.83	21.867				
20,100.00	12,380.00	18,081.98	10,350.00	136.04	132.98	0.01	-7,755.13	758.63	2,030.00	1,936.13	93.87	21.626				
20,200.00	12,380.00	18,181.98	10,350.00	137.61	134.57	0.01	-7,855.12	759.63	2,030.00	1,935.09	94.91	21.389				
20,300.00	12,380.00	18,281.98	10,350.00	139.17	136.15	0.01	-7,955.11	760.64	2,030.00	1,934.06	95.94	21.158				
20,400.00	12,380.00	18,381.98	10,350.00	140.73	137.74	0.01	-8,055.11	761.64	2,030.00	1,933.02	96.98	20.931				
20,500.00	12,380.00	18,481.98	10,350.00	142.30	139.33	0.01	-8,155.10	762.64	2,030.00	1,931.97	98.03	20.709				
20,600.00	12,380.00	18,581.98	10,350.00	143.87	140.92	0.01	-8,255.10	763.64	2,030.00	1,930.93	99.07	20.491				
20,700.00	12,380.00	18,681.98	10,350.00	145.44	142.51	0.01	-8,355.09	764.64	2,030.00	1,929.89	100.11	20.277				
20,800.00	12,380.00	18,781.98	10,350.00	147.01	144.11	0.01	-8,455.09	765.64	2,030.00	1,928.84	101.16	20.067				
20,900.00	12,380.00	18,881.98	10,350.00	148.59	145.70	0.01	-8,555.08	766.64	2,030.00	1,927.79	102.21	19.862				
21,000.00	12,380.00	18,981.98	10,350.00	150.16	147.30	0.01	-8,655.08	767.64	2,030.00	1,926.74	103.26	19.660				
21,100.00	12,380.00	19,081.98	10,350.00	151.74	148.89	0.01	-8,755.07	768.65	2,030.00	1,925.69	104.31	19.462				
21,200.00	12,380.00	19,181.98	10,350.00	153.32	150.49	0.01	-8,855.07	769.65	2,030.00	1,924.64	105.36	19.268				
21,300.00	12,380.00	19,281.98	10,350.00	154.90	152.09	0.00	-8,955.06	770.65	2,030.00	1,923.59	106.41	19.077				
21,400.00	12,380.00	19,381.98	10,350.00	156.48	153.69	0.00	-9,055.06	771.65	2,030.00	1,922.54	107.46	18.890				
21,500.00	12,380.00	19,481.98	10,350.00	158.06	155.29	0.00	-9,155.05	772.65	2,030.00	1,921.48	108.52	18.707				
21,600.00	12,380.00	19,581.98	10,350.00	159.65	156.90	0.00	-9,255.05	773.65	2,030.00	1,920.43	109.57	18.527				
21,700.00	12,380.00	19,681.98	10,350.00	161.23	158.50	0.00	-9,355.04	774.65	2,030.00	1,919.37	110.63	18.350				
21,800.00	12,380.00	19,781.98	10,350.00	162.82	160.10	0.00	-9,455.04	775.65	2,030.00	1,918.31	111.69	18.176				
21,900.00	12,380.00	19,881.98	10,350.00	164.41	161.71	0.00	-9,555.03	776.66	2,030.00	1,917.25	112.75	18.005				
22,000.00	12,380.00	19,981.98	10,350.00	166.00	163.32	0.00	-9,655.03	777.66	2,030.00	1,916.20	113.80	17.838				
22,100.00	12,380.00	20,081.98	10,350.00	167.59	164.92	0.00	-9,755.02	778.66	2,030.00	1,915.13	114.87	17.673				
22,122.98	12,380.00	20,104.96	10,350.00	167.96	165.29	0.00	-9,778.00	778.89	2,030.00	1,914.89	115.11	17.635				
22,200.00	12,380.00	20,181.98	10,350.00	169.18	166.53	0.00	-9,855.02	779.66	2,030.00	1,914.07	115.93	17.511				
22,300.00	12,380.00	20,281.98	10,350.00	170.77	168.14	0.00	-9,955.01	780.66	2,030.00	1,913.01	116.99	17.352				
22,400.00	12,380.00	20,381.98	10,350.00	172.37	169.75	0.00	-10,055.01	781.66	2,030.00	1,911.95	118.05	17.196				
22,500.00	12,380.00	20,481.98	10,350.00	173.96	171.36	0.00	-10,155.00	782.66	2,030.00	1,910.88	119.12	17.042				
22,504.95	12,380.00	20,486.92	10,350.00	174.04	171.44	0.00	-10,159.95	782.71	2,030.00	1,910.83	119.17	17.035				
22,547.76	12,380.00	20,529.73	10,350.00	174.73	172.13	0.00	-10,202.76	783.14	2,030.00	1,910.37	119.63	16.970				
22,548.65	12,380.00	20,529.73	10,350.00	174.75	172.13	0.00	-10,202.76	783.14	2,030.00	1,910.36	119.64	16.968				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design PF Fed Com - Paul Foster Fed Com 804H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.54	-0.47	-49.87	49.87					
100.00	100.00	100.00	100.00	0.13	0.13	-90.54	-0.47	-49.87	49.87	49.69	0.18	281.066		
200.00	200.00	200.00	200.00	0.48	0.48	-90.54	-0.47	-49.87	49.87	49.19	0.68	72.869		
300.00	300.00	300.00	300.00	0.84	0.84	-90.54	-0.47	-49.87	49.87	48.68	1.19	41.861		
400.00	400.00	400.00	400.00	1.20	1.20	-90.54	-0.47	-49.87	49.87	48.17	1.70	29.365		
500.00	500.00	500.00	500.00	1.56	1.56	-90.54	-0.47	-49.87	49.87	47.67	2.21	22.615		
600.00	600.00	600.00	600.00	1.92	1.92	-90.54	-0.47	-49.87	49.87	47.16	2.71	18.388		
700.00	700.00	700.00	700.00	2.28	2.28	-90.54	-0.47	-49.87	49.87	46.65	3.22	15.492		
800.00	800.00	800.00	800.00	2.63	2.63	-90.54	-0.47	-49.87	49.87	46.14	3.73	13.384		
900.00	900.00	900.00	900.00	2.99	2.99	-90.54	-0.47	-49.87	49.87	45.64	4.23	11.781		
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	-90.54	-0.47	-49.87	49.87	45.13	4.74	10.521		
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	-90.54	-0.47	-49.87	49.87	44.62	5.25	9.505		
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	-90.54	-0.47	-49.87	49.87	44.12	5.75	8.667		
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	-90.54	-0.47	-49.87	49.87	43.61	6.26	7.965		
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-90.54	-0.47	-49.87	49.87	43.10	6.77	7.369		
1,500.00	1,500.00	1,500.00	1,500.00	5.14	5.14	-90.54	-0.47	-49.87	49.87	42.60	7.27	6.855		
1,600.00	1,600.00	1,600.00	1,600.00	5.50	5.50	-90.54	-0.47	-49.87	49.87	42.09	7.78	6.409		
1,700.00	1,700.00	1,700.00	1,700.00	5.86	5.86	-90.54	-0.47	-49.87	49.87	41.58	8.29	6.017		
1,800.00	1,800.00	1,800.00	1,800.00	6.22	6.22	-90.54	-0.47	-49.87	49.87	41.08	8.80	5.670		
1,900.00	1,900.00	1,900.00	1,900.00	6.58	6.58	-90.54	-0.47	-49.87	49.87	40.57	9.30	5.361		
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	-90.54	-0.47	-49.87	49.87	40.06	9.81	5.084 CC, ES		
2,100.00	2,100.00	2,098.74	2,098.73	7.29	7.28	-90.15	-0.13	-51.10	51.11	40.81	10.31	4.960 SF		
2,200.00	2,199.99	2,197.28	2,197.19	7.65	7.63	-163.96	0.88	-54.78	56.11	45.33	10.79	5.202		
2,300.00	2,299.91	2,295.26	2,294.96	7.99	7.97	-163.44	2.56	-60.86	66.11	54.85	11.25	5.874		
2,400.00	2,399.69	2,392.32	2,391.63	8.34	8.31	-163.12	4.88	-69.28	81.04	69.33	11.72	6.918		
2,500.00	2,499.27	2,488.88	2,487.56	8.70	8.66	-162.97	7.79	-79.88	100.75	88.57	12.18	8.273		
2,601.33	2,599.89	2,587.55	2,585.52	9.06	9.02	-163.13	10.93	-91.27	123.79	111.12	12.67	9.771		
2,700.00	2,697.71	2,683.34	2,680.62	9.42	9.37	-163.46	13.98	-102.33	147.45	134.30	13.15	11.215		
2,800.00	2,796.85	2,780.42	2,777.00	9.78	9.72	-163.69	17.07	-113.55	171.43	157.80	13.63	12.576		
2,900.00	2,895.99	2,877.50	2,873.38	10.15	10.08	-163.87	20.16	-124.76	195.41	181.29	14.12	13.841		
3,000.00	2,995.13	2,974.58	2,969.76	10.53	10.45	-164.01	23.25	-135.97	219.39	204.79	14.61	15.020		
3,100.00	3,094.27	3,071.66	3,066.14	10.90	10.81	-164.13	26.33	-147.18	243.38	228.28	15.10	16.122		
3,200.00	3,193.41	3,168.74	3,162.53	11.28	11.18	-164.22	29.42	-158.40	267.36	251.77	15.59	17.153		
3,300.00	3,292.55	3,265.82	3,258.91	11.67	11.55	-164.30	32.51	-169.61	291.35	275.27	16.08	18.120		
3,400.00	3,391.69	3,362.90	3,355.29	12.05	11.92	-164.36	35.60	-180.82	315.33	298.76	16.57	19.028		
3,500.00	3,490.83	3,459.98	3,451.67	12.44	12.29	-164.42	38.69	-192.03	339.32	322.25	17.07	19.882		
3,600.00	3,589.97	3,557.06	3,548.05	12.82	12.67	-164.47	41.78	-203.24	363.30	345.74	17.56	20.688		
3,700.00	3,689.11	3,654.14	3,644.43	13.21	13.04	-164.51	44.86	-214.46	387.29	369.23	18.06	21.447		
3,800.00	3,788.25	3,751.22	3,740.81	13.60	13.42	-164.55	47.95	-225.67	411.28	392.72	18.55	22.166		
3,900.00	3,887.39	3,848.30	3,837.19	13.99	13.79	-164.58	51.04	-236.88	435.27	416.21	19.05	22.846		
4,000.00	3,986.53	3,945.38	3,933.57	14.39	14.17	-164.61	54.13	-248.09	459.25	439.70	19.55	23.490		
4,100.00	4,085.67	4,042.46	4,029.96	14.78	14.55	-164.64	57.22	-259.31	483.24	463.19	20.05	24.101		
4,200.00	4,184.81	4,139.54	4,126.34	15.18	14.93	-164.66	60.31	-270.52	507.23	486.68	20.55	24.683		
4,300.00	4,283.95	4,236.62	4,222.72	15.57	15.31	-164.68	63.39	-281.73	531.21	510.16	21.05	25.235		
4,400.00	4,383.09	4,333.70	4,319.10	15.97	15.69	-164.70	66.48	-292.94	555.20	533.65	21.55	25.762		
4,500.00	4,482.23	4,430.78	4,415.48	16.37	16.07	-164.72	69.57	-304.15	579.19	557.14	22.05	26.264		
4,600.00	4,581.37	4,527.86	4,511.86	16.77	16.45	-164.74	72.66	-315.37	603.18	580.62	22.55	26.743		
4,700.00	4,680.51	4,624.94	4,608.24	17.17	16.83	-164.76	75.75	-326.58	627.16	604.11	23.06	27.200		
4,800.00	4,779.65	4,722.02	4,704.62	17.57	17.22	-164.77	78.83	-337.79	651.15	627.59	23.56	27.638		
4,900.00	4,878.79	4,819.10	4,801.00	17.97	17.60	-164.78	81.92	-349.00	675.14	651.08	24.06	28.057		
5,000.00	4,977.93	4,916.18	4,897.39	18.37	17.99	-164.80	85.01	-360.22	699.13	674.56	24.57	28.458		
5,100.00	5,077.07	5,013.27	4,993.77	18.77	18.37	-164.81	88.10	-371.43	723.11	698.04	25.07	28.843		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		
5,200.00	5,176.21	5,110.35	5,090.15	19.17	18.75	-164.82	91.19	-382.64	747.10	721.53	25.58	29.212		
5,300.00	5,275.35	5,207.43	5,186.53	19.57	19.14	-164.83	94.28	-393.85	771.09	745.01	26.08	29.567		
5,400.00	5,374.49	5,304.51	5,282.91	19.98	19.53	-164.84	97.36	-405.06	795.08	768.49	26.58	29.907		
5,500.00	5,473.63	5,401.59	5,379.29	20.38	19.91	-164.85	100.45	-416.28	819.07	791.98	27.09	30.235		
5,600.00	5,572.77	5,498.67	5,475.67	20.78	20.30	-164.86	103.54	-427.49	843.05	815.46	27.60	30.551		
5,700.00	5,671.91	5,595.75	5,572.05	21.19	20.68	-164.87	106.63	-438.70	867.04	838.94	28.10	30.854		
5,800.00	5,771.05	5,692.83	5,668.43	21.59	21.07	-164.87	109.72	-449.91	891.03	862.42	28.61	31.147		
5,900.00	5,870.19	5,789.91	5,764.82	22.00	21.46	-164.88	112.81	-461.13	915.02	885.90	29.11	31.429		
6,000.00	5,969.33	5,886.99	5,861.20	22.40	21.85	-164.89	115.89	-472.34	939.00	909.38	29.62	31.702		
6,100.00	6,068.47	5,984.07	5,957.58	22.81	22.23	-164.90	118.98	-483.55	962.99	932.87	30.13	31.965		
6,200.00	6,167.61	6,081.15	6,053.96	23.22	22.62	-164.90	122.07	-494.76	986.98	956.35	30.63	32.219		
6,300.00	6,266.75	6,178.23	6,150.34	23.62	23.01	-164.91	125.16	-505.97	1,010.97	979.83	31.14	32.464		
6,400.00	6,365.89	6,275.31	6,246.72	24.03	23.40	-164.91	128.25	-517.19	1,034.96	1,003.31	31.65	32.702		
6,500.00	6,465.03	6,372.39	6,343.10	24.44	23.79	-164.92	131.34	-528.40	1,058.94	1,026.79	32.16	32.931		
6,600.00	6,564.17	6,469.47	6,439.48	24.84	24.17	-164.92	134.42	-539.61	1,082.93	1,050.27	32.66	33.154		
6,700.00	6,663.31	6,566.55	6,535.86	25.25	24.56	-164.93	137.51	-550.82	1,106.92	1,073.75	33.17	33.369		
6,800.00	6,762.45	6,663.63	6,632.25	25.66	24.95	-164.93	140.60	-562.04	1,130.91	1,097.23	33.68	33.578		
6,856.14	6,818.11	6,718.13	6,686.35	25.89	25.17	-164.94	142.33	-568.33	1,144.37	1,110.41	33.97	33.692		
6,900.00	6,861.62	6,760.77	6,728.68	26.06	25.34	-164.98	143.69	-573.25	1,154.66	1,120.47	34.19	33.773		
7,000.00	6,961.05	6,858.38	6,825.60	26.46	25.73	-165.04	146.80	-584.53	1,176.34	1,141.64	34.70	33.904		
7,100.00	7,060.72	6,965.88	6,932.34	26.84	26.16	-165.05	150.18	-596.82	1,195.45	1,160.20	35.25	33.909		
7,200.00	7,160.57	7,107.84	7,073.67	27.20	26.71	-165.02	153.70	-609.58	1,209.63	1,173.66	35.97	33.629		
7,300.00	7,260.53	7,251.38	7,216.98	27.55	27.23	-165.00	155.83	-617.32	1,217.73	1,181.08	36.64	33.233		
7,357.47	7,318.00	7,334.26	7,299.82	27.74	27.52	-90.45	156.41	-619.43	1,219.60	1,182.59	37.01	32.956		
7,400.00	7,360.53	7,395.64	7,361.21	27.88	27.73	-90.44	156.53	-619.87	1,219.91	1,182.64	37.27	32.734		
7,432.83	7,393.36	7,427.80	7,393.36	27.99	27.84	-90.44	156.53	-619.87	1,219.91	1,182.48	37.43	32.596		
7,500.00	7,460.53	7,494.97	7,460.53	28.21	28.06	-90.44	156.53	-619.87	1,219.91	1,182.15	37.75	32.313		
7,600.00	7,560.53	7,594.97	7,560.53	28.54	28.39	-90.44	156.53	-619.87	1,219.91	1,181.67	38.24	31.901		
7,700.00	7,660.53	7,694.97	7,660.53	28.87	28.72	-90.44	156.53	-619.87	1,219.91	1,181.18	38.73	31.499		
7,800.00	7,760.53	7,794.97	7,760.53	29.20	29.06	-90.44	156.53	-619.87	1,219.91	1,180.69	39.22	31.106		
7,900.00	7,860.53	7,894.97	7,860.53	29.53	29.39	-90.44	156.53	-619.87	1,219.91	1,180.20	39.71	30.723		
8,000.00	7,960.53	7,994.97	7,960.53	29.87	29.73	-90.44	156.53	-619.87	1,219.91	1,179.71	40.20	30.349		
8,100.00	8,060.53	8,094.97	8,060.53	30.20	30.06	-90.44	156.53	-619.87	1,219.91	1,179.22	40.69	29.983		
8,200.00	8,160.53	8,194.97	8,160.53	30.53	30.40	-90.44	156.53	-619.87	1,219.91	1,178.73	41.18	29.626		
8,300.00	8,260.53	8,294.97	8,260.53	30.87	30.73	-90.44	156.53	-619.87	1,219.91	1,178.24	41.67	29.277		
8,400.00	8,360.53	8,394.97	8,360.53	31.20	31.07	-90.44	156.53	-619.87	1,219.91	1,177.75	42.16	28.936		
8,500.00	8,460.53	8,494.97	8,460.53	31.54	31.41	-90.44	156.53	-619.87	1,219.91	1,177.26	42.65	28.602		
8,600.00	8,560.53	8,594.97	8,560.53	31.88	31.74	-90.44	156.53	-619.87	1,219.91	1,176.76	43.14	28.276		
8,700.00	8,660.53	8,694.97	8,660.53	32.21	32.08	-90.44	156.53	-619.87	1,219.91	1,176.27	43.63	27.957		
8,800.00	8,760.53	8,794.97	8,760.53	32.55	32.42	-90.44	156.53	-619.87	1,219.91	1,175.78	44.13	27.645		
8,900.00	8,860.53	8,894.97	8,860.53	32.89	32.76	-90.44	156.53	-619.87	1,219.91	1,175.29	44.62	27.340		
9,000.00	8,960.53	8,994.97	8,960.53	33.23	33.10	-90.44	156.53	-619.87	1,219.91	1,174.79	45.11	27.041		
9,100.00	9,060.53	9,094.97	9,060.53	33.56	33.44	-90.44	156.53	-619.87	1,219.91	1,174.30	45.61	26.748		
9,200.00	9,160.53	9,194.97	9,160.53	33.90	33.78	-90.44	156.53	-619.87	1,219.91	1,173.80	46.10	26.462		
9,300.00	9,260.53	9,294.97	9,260.53	34.24	34.12	-90.44	156.53	-619.87	1,219.91	1,173.31	46.60	26.181		
9,400.00	9,360.53	9,394.97	9,360.53	34.58	34.46	-90.44	156.53	-619.87	1,219.91	1,172.82	47.09	25.906		
9,500.00	9,460.53	9,494.97	9,460.53	34.92	34.80	-90.44	156.53	-619.87	1,219.91	1,172.32	47.58	25.637		
9,600.00	9,560.53	9,594.97	9,560.53	35.26	35.14	-90.44	156.53	-619.87	1,219.91	1,171.83	48.08	25.373		
9,700.00	9,660.53	9,694.97	9,660.53	35.60	35.48	-90.44	156.53	-619.87	1,219.91	1,171.33	48.57	25.114		
9,800.00	9,760.53	9,794.97	9,760.53	35.94	35.83	-90.44	156.53	-619.87	1,219.91	1,170.84	49.07	24.861		
9,900.00	9,860.53	9,894.97	9,860.53	36.29	36.17	-90.44	156.53	-619.87	1,219.91	1,170.34	49.57	24.612		
10,000.00	9,960.53	9,994.97	9,960.53	36.63	36.51	-90.44	156.53	-619.87	1,219.91	1,169.84	50.06	24.368		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	10,060.53	10,094.97	10,060.53	36.97	36.85	-90.44	156.53	-619.87	1,219.91	1,169.35	50.56	24.129		
10,200.00	10,160.53	10,194.97	10,160.53	37.31	37.20	-90.44	156.53	-619.87	1,219.91	1,168.85	51.05	23.894		
10,300.00	10,260.53	10,294.97	10,260.53	37.65	37.54	-90.44	156.53	-619.87	1,219.91	1,168.36	51.55	23.664		
10,400.00	10,360.53	10,394.97	10,360.53	38.00	37.88	-90.44	156.53	-619.87	1,219.91	1,167.86	52.05	23.438		
10,500.00	10,460.53	10,494.97	10,460.53	38.34	38.23	-90.44	156.53	-619.87	1,219.91	1,167.36	52.54	23.217		
10,600.00	10,560.53	10,594.97	10,560.53	38.68	38.57	-90.44	156.53	-619.87	1,219.91	1,166.86	53.04	22.999		
10,700.00	10,660.53	10,694.97	10,660.53	39.03	38.92	-90.44	156.53	-619.87	1,219.91	1,166.37	53.54	22.786		
10,800.00	10,760.53	10,794.97	10,760.53	39.37	39.26	-90.44	156.53	-619.87	1,219.91	1,165.87	54.04	22.576		
10,900.00	10,860.53	10,894.97	10,860.53	39.72	39.61	-90.44	156.53	-619.87	1,219.91	1,165.37	54.53	22.370		
11,000.00	10,960.53	10,994.97	10,960.53	40.06	39.95	-90.44	156.53	-619.87	1,219.91	1,164.87	55.03	22.167		
11,100.00	11,060.53	11,094.97	11,060.53	40.41	40.30	-90.44	156.53	-619.87	1,219.91	1,164.38	55.53	21.969		
11,200.00	11,160.53	11,194.97	11,160.53	40.75	40.65	-90.44	156.53	-619.87	1,219.91	1,163.88	56.03	21.773		
11,300.00	11,260.53	11,294.97	11,260.53	41.10	40.99	-90.44	156.53	-619.87	1,219.91	1,163.38	56.53	21.581		
11,400.00	11,360.53	11,394.97	11,360.53	41.44	41.34	-90.44	156.53	-619.87	1,219.91	1,162.88	57.02	21.393		
11,500.00	11,460.53	11,494.97	11,460.53	41.79	41.68	-90.44	156.53	-619.87	1,219.91	1,162.38	57.52	21.207		
11,600.00	11,560.53	11,594.97	11,560.53	42.13	42.03	-90.44	156.53	-619.87	1,219.91	1,161.88	58.02	21.025		
11,700.00	11,660.53	11,694.97	11,660.53	42.48	42.38	-90.44	156.53	-619.87	1,219.91	1,161.38	58.52	20.846		
11,800.00	11,760.53	11,794.97	11,760.53	42.83	42.73	-90.44	156.53	-619.87	1,219.91	1,160.89	59.02	20.669		
11,846.51	11,807.04	11,841.48	11,807.04	42.99	42.89	-90.44	156.53	-619.87	1,219.91	1,160.65	59.25	20.588		
11,850.00	11,810.53	11,844.97	11,810.53	43.00	42.90	96.46	156.53	-619.87	1,219.91	1,160.64	59.27	20.583		
11,900.00	11,860.45	11,895.16	11,860.70	43.16	43.07	96.50	155.48	-619.86	1,220.18	1,160.68	59.50	20.506		
11,950.00	11,909.97	11,945.56	11,910.81	43.31	43.22	96.49	150.22	-619.81	1,220.94	1,161.21	59.73	20.441		
12,000.00	11,958.70	11,996.09	11,960.39	43.46	43.38	96.44	140.56	-619.71	1,222.18	1,162.23	59.94	20.388		
12,050.00	12,006.28	12,046.74	12,009.04	43.61	43.52	96.34	126.52	-619.57	1,223.88	1,163.72	60.15	20.346		
12,100.00	12,052.34	12,097.50	12,056.36	43.75	43.65	96.19	108.20	-619.39	1,226.03	1,165.67	60.35	20.315		
12,150.00	12,096.54	12,148.36	12,101.97	43.87	43.78	95.99	85.72	-619.16	1,228.61	1,168.07	60.54	20.293		
12,200.00	12,138.53	12,199.32	12,145.47	43.99	43.89	95.75	59.23	-618.90	1,231.61	1,170.88	60.73	20.281		
12,250.00	12,178.00	12,250.35	12,186.51	44.10	44.00	95.46	28.93	-618.60	1,235.00	1,174.10	60.91	20.277		
12,300.00	12,214.64	12,301.45	12,224.75	44.21	44.09	95.13	-4.95	-618.26	1,238.76	1,177.68	61.08	20.280		
12,350.00	12,248.19	12,352.61	12,259.85	44.30	44.17	94.76	-42.14	-617.89	1,242.86	1,181.61	61.25	20.290		
12,400.00	12,278.37	12,403.83	12,291.53	44.39	44.24	94.36	-82.35	-617.49	1,247.26	1,185.84	61.42	20.306		
12,450.00	12,304.97	12,455.08	12,319.52	44.48	44.31	93.92	-125.28	-617.07	1,251.94	1,190.34	61.60	20.325		
12,500.00	12,327.78	12,506.38	12,343.57	44.58	44.37	93.45	-170.56	-616.62	1,256.85	1,195.08	61.77	20.348		
12,550.00	12,346.63	12,557.70	12,363.49	44.68	44.44	92.96	-217.84	-616.15	1,261.96	1,200.02	61.94	20.373		
12,600.00	12,361.37	12,609.05	12,379.10	44.79	44.52	92.44	-266.74	-615.66	1,267.23	1,205.11	62.12	20.399		
12,650.00	12,371.89	12,660.42	12,390.28	44.91	44.61	91.91	-316.86	-615.16	1,272.62	1,210.32	62.30	20.426		
12,700.00	12,378.11	12,711.81	12,396.93	45.04	44.72	91.37	-367.79	-614.65	1,278.09	1,215.60	62.49	20.453		
12,746.51	12,380.00	12,759.62	12,399.00	45.17	44.83	90.85	-415.54	-614.18	1,283.22	1,220.55	62.66	20.478		
12,800.00	12,380.00	12,812.86	12,399.00	45.34	44.97	90.85	-468.78	-613.65	1,288.62	1,225.74	62.87	20.495		
12,900.00	12,380.00	12,912.58	12,399.00	45.69	45.29	90.84	-568.49	-612.66	1,296.04	1,232.71	63.33	20.464		
13,000.00	12,380.00	13,012.50	12,399.00	46.08	45.67	90.84	-668.41	-611.66	1,299.99	1,236.12	63.87	20.353		
13,063.21	12,380.00	13,075.70	12,399.00	46.35	45.94	90.84	-731.61	-611.04	1,300.68	1,236.43	64.25	20.243		
13,100.00	12,380.00	13,112.49	12,399.00	46.52	46.11	90.84	-768.40	-610.67	1,300.68	1,236.19	64.49	20.169		
13,200.00	12,380.00	13,212.49	12,399.00	47.00	46.60	90.84	-868.39	-609.68	1,300.67	1,235.49	65.18	19.954		
13,300.00	12,380.00	13,312.49	12,399.00	47.54	47.14	90.84	-968.39	-608.68	1,300.67	1,234.71	65.96	19.720		
13,400.00	12,380.00	13,412.49	12,399.00	48.13	47.73	90.84	-1,068.38	-607.69	1,300.66	1,233.86	66.80	19.471		
13,500.00	12,380.00	13,512.49	12,399.00	48.77	48.38	90.84	-1,168.38	-606.69	1,300.65	1,232.94	67.71	19.209		
13,600.00	12,380.00	13,612.49	12,399.00	49.45	49.06	90.84	-1,268.37	-605.70	1,300.65	1,231.95	68.69	18.934		
13,700.00	12,380.00	13,712.49	12,399.00	50.18	49.80	90.84	-1,368.37	-604.70	1,300.64	1,230.90	69.74	18.650		
13,800.00	12,380.00	13,812.49	12,399.00	50.95	50.57	90.84	-1,468.36	-603.71	1,300.63	1,229.79	70.85	18.359		
13,900.00	12,380.00	13,912.49	12,399.00	51.77	51.39	90.84	-1,568.36	-602.71	1,300.63	1,228.62	72.01	18.062		
14,000.00	12,380.00	14,012.49	12,399.00	52.62	52.25	90.84	-1,668.35	-601.72	1,300.62	1,227.39	73.23	17.760		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	12,380.00	14,112.49	12,399.00	53.51	53.14	90.84	-1,768.35	-600.73	1,300.61	1,226.11	74.51	17.456		
14,200.00	12,380.00	14,212.49	12,399.00	54.44	54.07	90.84	-1,868.34	-599.73	1,300.61	1,224.77	75.83	17.151		
14,300.00	12,380.00	14,312.49	12,399.00	55.40	55.04	90.84	-1,968.34	-598.74	1,300.60	1,223.39	77.21	16.846		
14,400.00	12,380.00	14,412.49	12,399.00	56.39	56.03	90.84	-2,068.33	-597.74	1,300.59	1,221.97	78.62	16.542		
14,500.00	12,380.00	14,512.49	12,399.00	57.41	57.06	90.84	-2,168.33	-596.75	1,300.59	1,220.50	80.09	16.240		
14,600.00	12,380.00	14,612.49	12,399.00	58.46	58.11	90.84	-2,268.32	-595.75	1,300.58	1,218.99	81.59	15.941		
14,700.00	12,380.00	14,712.49	12,399.00	59.54	59.19	90.84	-2,368.32	-594.76	1,300.57	1,217.45	83.13	15.645		
14,800.00	12,380.00	14,812.49	12,399.00	60.64	60.30	90.84	-2,468.31	-593.76	1,300.57	1,215.86	84.71	15.354		
14,900.00	12,380.00	14,912.49	12,399.00	61.77	61.43	90.84	-2,568.31	-592.77	1,300.56	1,214.24	86.32	15.067		
15,000.00	12,380.00	15,012.49	12,399.00	62.92	62.59	90.84	-2,668.30	-591.78	1,300.55	1,212.59	87.96	14.786		
15,100.00	12,380.00	15,112.49	12,399.00	64.09	63.76	90.84	-2,768.30	-590.78	1,300.55	1,210.91	89.64	14.509		
15,200.00	12,380.00	15,212.49	12,399.00	65.28	64.96	90.84	-2,868.29	-589.79	1,300.54	1,209.20	91.34	14.239		
15,300.00	12,380.00	15,312.49	12,399.00	66.50	66.18	90.84	-2,968.29	-588.79	1,300.53	1,207.46	93.07	13.974		
15,400.00	12,380.00	15,412.49	12,399.00	67.73	67.41	90.84	-3,068.28	-587.80	1,300.53	1,205.70	94.83	13.715		
15,500.00	12,380.00	15,512.49	12,399.00	68.98	68.66	90.84	-3,168.28	-586.80	1,300.52	1,203.91	96.61	13.462		
15,600.00	12,380.00	15,612.49	12,399.00	70.24	69.93	90.84	-3,268.27	-585.81	1,300.52	1,202.10	98.41	13.215		
15,700.00	12,380.00	15,712.49	12,399.00	71.52	71.22	90.84	-3,368.27	-584.81	1,300.51	1,200.27	100.24	12.974		
15,800.00	12,380.00	15,812.49	12,399.00	72.82	72.52	90.84	-3,468.26	-583.82	1,300.50	1,198.41	102.09	12.739		
15,900.00	12,380.00	15,912.49	12,399.00	74.13	73.83	90.84	-3,568.26	-582.83	1,300.50	1,196.54	103.95	12.510		
16,000.00	12,380.00	16,012.49	12,399.00	75.46	75.16	90.84	-3,668.25	-581.83	1,300.49	1,194.65	105.84	12.287		
16,100.00	12,380.00	16,112.49	12,399.00	76.79	76.50	90.84	-3,768.25	-580.84	1,300.48	1,192.74	107.74	12.070		
16,200.00	12,380.00	16,212.49	12,399.00	78.14	77.85	90.84	-3,868.24	-579.84	1,300.48	1,190.81	109.66	11.859		
16,300.00	12,380.00	16,312.49	12,399.00	79.50	79.21	90.84	-3,968.24	-578.85	1,300.47	1,188.87	111.60	11.653		
16,400.00	12,380.00	16,412.49	12,399.00	80.87	80.59	90.84	-4,068.23	-577.85	1,300.46	1,186.91	113.55	11.453		
16,500.00	12,380.00	16,512.49	12,399.00	82.25	81.97	90.84	-4,168.23	-576.86	1,300.46	1,184.94	115.51	11.258		
16,600.00	12,380.00	16,612.49	12,399.00	83.64	83.36	90.84	-4,268.22	-575.86	1,300.45	1,182.96	117.49	11.068		
16,700.00	12,380.00	16,712.49	12,399.00	85.04	84.77	90.84	-4,368.22	-574.87	1,300.44	1,180.96	119.48	10.884		
16,800.00	12,380.00	16,812.49	12,399.00	86.45	86.18	90.84	-4,468.21	-573.87	1,300.44	1,178.95	121.49	10.704		
16,900.00	12,380.00	16,912.49	12,399.00	87.87	87.60	90.84	-4,568.21	-572.88	1,300.43	1,176.93	123.50	10.530		
17,000.00	12,380.00	17,012.49	12,399.00	89.30	89.03	90.84	-4,668.20	-571.89	1,300.42	1,174.89	125.53	10.359		
17,100.00	12,380.00	17,112.49	12,399.00	90.73	90.46	90.84	-4,768.20	-570.89	1,300.42	1,172.85	127.57	10.194		
17,200.00	12,380.00	17,212.49	12,399.00	92.17	91.90	90.84	-4,868.19	-569.90	1,300.41	1,170.80	129.61	10.033		
17,300.00	12,380.00	17,312.49	12,399.00	93.62	93.35	90.84	-4,968.19	-568.90	1,300.40	1,168.73	131.67	9.876		
17,400.00	12,380.00	17,412.49	12,399.00	95.07	94.81	90.84	-5,068.18	-567.91	1,300.40	1,166.66	133.74	9.724		
17,500.00	12,380.00	17,512.49	12,399.00	96.53	96.27	90.84	-5,168.18	-566.91	1,300.39	1,164.58	135.81	9.575		
17,600.00	12,380.00	17,612.49	12,399.00	98.00	97.74	90.84	-5,268.17	-565.92	1,300.38	1,162.49	137.89	9.430		
17,700.00	12,380.00	17,712.49	12,399.00	99.47	99.22	90.84	-5,368.17	-564.92	1,300.38	1,160.39	139.98	9.289		
17,800.00	12,380.00	17,812.49	12,399.00	100.95	100.70	90.84	-5,468.16	-563.93	1,300.37	1,158.29	142.08	9.152		
17,900.00	12,380.00	17,912.49	12,399.00	102.43	102.18	90.84	-5,568.16	-562.94	1,300.36	1,156.18	144.19	9.018		
18,000.00	12,380.00	18,012.49	12,399.00	103.92	103.67	90.84	-5,668.15	-561.94	1,300.36	1,154.06	146.30	8.888		
18,100.00	12,380.00	18,112.49	12,399.00	105.41	105.17	90.84	-5,768.15	-560.95	1,300.35	1,151.93	148.42	8.761		
18,200.00	12,380.00	18,212.49	12,399.00	106.91	106.67	90.84	-5,868.14	-559.95	1,300.34	1,149.80	150.55	8.637		
18,300.00	12,380.00	18,312.49	12,399.00	108.41	108.17	90.84	-5,968.14	-558.96	1,300.34	1,147.66	152.68	8.517		
18,400.00	12,380.00	18,412.49	12,399.00	109.92	109.68	90.84	-6,068.13	-557.96	1,300.33	1,145.52	154.82	8.399		
18,500.00	12,380.00	18,512.49	12,399.00	111.43	111.19	90.84	-6,168.13	-556.97	1,300.33	1,143.37	156.96	8.284		
18,600.00	12,380.00	18,612.49	12,399.00	112.94	112.71	90.84	-6,268.12	-555.97	1,300.32	1,141.21	159.11	8.173		
18,700.00	12,380.00	18,712.49	12,399.00	114.46	114.23	90.84	-6,368.12	-554.98	1,300.31	1,139.05	161.26	8.063		
18,800.00	12,380.00	18,812.49	12,399.00	115.98	115.75	90.84	-6,468.11	-553.99	1,300.31	1,136.88	163.42	7.957		
18,900.00	12,380.00	18,912.49	12,399.00	117.51	117.28	90.84	-6,568.11	-552.99	1,300.30	1,134.71	165.59	7.853		
19,000.00	12,380.00	19,012.49	12,399.00	119.04	118.81	90.84	-6,668.10	-552.00	1,300.29	1,132.54	167.75	7.751		
19,100.00	12,380.00	19,112.49	12,399.00	120.57	120.34	90.84	-6,768.10	-551.00	1,300.29	1,130.36	169.93	7.652		
19,200.00	12,380.00	19,212.49	12,399.00	122.11	121.88	90.84	-6,868.09	-550.01	1,300.28	1,128.18	172.10	7.555		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
19,300.00	12,380.00	19,312.49	12,399.00	123.64	123.42	90.84	-6,968.09	-549.01	1,300.27	1,125.99	174.28	7.461		
19,400.00	12,380.00	19,412.49	12,399.00	125.18	124.96	90.84	-7,068.08	-548.02	1,300.27	1,123.80	176.47	7.368		
19,500.00	12,380.00	19,512.49	12,399.00	126.73	126.51	90.84	-7,168.08	-547.02	1,300.26	1,121.60	178.66	7.278		
19,600.00	12,380.00	19,612.49	12,399.00	128.27	128.05	90.84	-7,268.07	-546.03	1,300.25	1,119.40	180.85	7.190		
19,700.00	12,380.00	19,712.49	12,399.00	129.82	129.60	90.84	-7,368.07	-545.04	1,300.25	1,117.20	183.05	7.103		
19,800.00	12,380.00	19,812.49	12,399.00	131.38	131.16	90.84	-7,468.07	-544.04	1,300.24	1,114.99	185.25	7.019		
19,900.00	12,380.00	19,912.49	12,399.00	132.93	132.71	90.84	-7,568.06	-543.05	1,300.23	1,112.78	187.45	6.936		
20,000.00	12,380.00	20,012.49	12,399.00	134.49	134.27	90.84	-7,668.06	-542.05	1,300.23	1,110.57	189.66	6.856		
20,100.00	12,380.00	20,112.49	12,399.00	136.04	135.83	90.84	-7,768.05	-541.06	1,300.22	1,108.36	191.86	6.777		
20,200.00	12,380.00	20,212.49	12,399.00	137.61	137.39	90.84	-7,868.05	-540.06	1,300.21	1,106.14	194.08	6.699		
20,300.00	12,380.00	20,312.49	12,399.00	139.17	138.95	90.84	-7,968.04	-539.07	1,300.21	1,103.92	196.29	6.624		
20,400.00	12,380.00	20,412.49	12,399.00	140.73	140.52	90.84	-8,068.04	-538.07	1,300.20	1,101.69	198.51	6.550		
20,500.00	12,380.00	20,512.49	12,399.00	142.30	142.09	90.84	-8,168.03	-537.08	1,300.19	1,099.47	200.73	6.477		
20,600.00	12,380.00	20,612.49	12,399.00	143.87	143.66	90.84	-8,268.03	-536.08	1,300.19	1,097.24	202.95	6.406		
20,700.00	12,380.00	20,712.49	12,399.00	145.44	145.23	90.84	-8,368.02	-535.09	1,300.18	1,095.00	205.18	6.337		
20,800.00	12,380.00	20,812.49	12,399.00	147.01	146.80	90.84	-8,468.02	-534.10	1,300.17	1,092.77	207.40	6.269		
20,900.00	12,380.00	20,912.49	12,399.00	148.59	148.38	90.84	-8,568.01	-533.10	1,300.17	1,090.53	209.63	6.202		
21,000.00	12,380.00	21,012.49	12,399.00	150.16	149.95	90.84	-8,668.01	-532.11	1,300.16	1,088.29	211.87	6.137		
21,100.00	12,380.00	21,112.49	12,399.00	151.74	151.53	90.84	-8,768.00	-531.11	1,300.15	1,086.05	214.10	6.073		
21,200.00	12,380.00	21,212.49	12,399.00	153.32	153.11	90.84	-8,868.00	-530.12	1,300.15	1,083.81	216.34	6.010		
21,300.00	12,380.00	21,312.49	12,399.00	154.90	154.69	90.84	-8,967.99	-529.12	1,300.14	1,081.56	218.58	5.948		
21,400.00	12,380.00	21,412.49	12,399.00	156.48	156.28	90.84	-9,067.99	-528.13	1,300.14	1,079.32	220.82	5.888		
21,500.00	12,380.00	21,512.49	12,399.00	158.06	157.86	90.84	-9,167.98	-527.13	1,300.13	1,077.07	223.06	5.829		
21,600.00	12,380.00	21,612.49	12,399.00	159.65	159.45	90.84	-9,267.98	-526.14	1,300.12	1,074.82	225.30	5.771		
21,700.00	12,380.00	21,712.49	12,399.00	161.23	161.03	90.84	-9,367.97	-525.15	1,300.12	1,072.56	227.55	5.714		
21,800.00	12,380.00	21,812.49	12,399.00	162.82	162.62	90.84	-9,467.97	-524.15	1,300.11	1,070.31	229.80	5.658		
21,900.00	12,380.00	21,912.49	12,399.00	164.41	164.21	90.84	-9,567.96	-523.16	1,300.10	1,068.05	232.05	5.603		
22,000.00	12,380.00	22,012.49	12,399.00	166.00	165.80	90.84	-9,667.96	-522.16	1,300.10	1,065.80	234.30	5.549		
22,100.00	12,380.00	22,112.49	12,399.00	167.59	167.39	90.84	-9,767.95	-521.17	1,300.09	1,063.54	236.55	5.496		
22,200.00	12,380.00	22,212.49	12,399.00	169.18	168.99	90.84	-9,867.95	-520.17	1,300.08	1,061.27	238.81	5.444		
22,300.00	12,380.00	22,312.49	12,399.00	170.77	170.58	90.84	-9,967.94	-519.18	1,300.08	1,059.01	241.06	5.393		
22,400.00	12,380.00	22,412.49	12,399.00	172.37	172.18	90.84	-10,067.94	-518.18	1,300.07	1,056.75	243.32	5.343		
22,500.00	12,380.00	22,512.49	12,399.00	173.96	173.77	90.84	-10,167.93	-517.19	1,300.06	1,054.48	245.58	5.294		
22,547.76	12,380.00	22,560.25	12,399.00	174.73	174.53	90.84	-10,215.68	-516.72	1,300.06	1,053.40	246.66	5.271		
22,548.65	12,380.00	22,561.15	12,399.00	174.75	174.55	90.84	-10,216.58	-516.71	1,300.06	1,053.38	246.68	5.270		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		PF Fed Com - Paul Foster Fed Com 805H - OH - Plan #1											Offset Site Error: 0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.54	-0.23	-24.78	24.78					
100.00	100.00	100.00	100.00	0.13	0.13	-90.54	-0.23	-24.78	24.78	24.60	0.18	139.660		
200.00	200.00	200.00	200.00	0.48	0.48	-90.54	-0.23	-24.78	24.78	24.10	0.68	36.208		
300.00	300.00	300.00	300.00	0.84	0.84	-90.54	-0.23	-24.78	24.78	23.59	1.19	20.801		
400.00	400.00	400.00	400.00	1.20	1.20	-90.54	-0.23	-24.78	24.78	23.08	1.70	14.591		
500.00	500.00	500.00	500.00	1.56	1.56	-90.54	-0.23	-24.78	24.78	22.58	2.21	11.237		
600.00	600.00	600.00	600.00	1.92	1.92	-90.54	-0.23	-24.78	24.78	22.07	2.71	9.137		
700.00	700.00	700.00	700.00	2.28	2.28	-90.54	-0.23	-24.78	24.78	21.56	3.22	7.698		
800.00	800.00	800.00	800.00	2.63	2.63	-90.54	-0.23	-24.78	24.78	21.05	3.73	6.651		
900.00	900.00	900.00	900.00	2.99	2.99	-90.54	-0.23	-24.78	24.78	20.55	4.23	5.854		
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	-90.54	-0.23	-24.78	24.78	20.04	4.74	5.228		
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	-90.54	-0.23	-24.78	24.78	19.53	5.25	4.723		
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	-90.54	-0.23	-24.78	24.78	19.03	5.75	4.307		
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	-90.54	-0.23	-24.78	24.78	18.52	6.26	3.958		
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-90.54	-0.23	-24.78	24.78	18.01	6.77	3.662		
1,500.00	1,500.00	1,500.00	1,500.00	5.14	5.14	-90.54	-0.23	-24.78	24.78	17.51	7.27	3.406		
1,600.00	1,600.00	1,600.00	1,600.00	5.50	5.50	-90.54	-0.23	-24.78	24.78	17.00	7.78	3.184		
1,700.00	1,700.00	1,700.00	1,700.00	5.86	5.86	-90.54	-0.23	-24.78	24.78	16.49	8.29	2.990		
1,800.00	1,800.00	1,800.00	1,800.00	6.22	6.22	-90.54	-0.23	-24.78	24.78	15.98	8.80	2.817		
1,900.00	1,900.00	1,900.00	1,900.00	6.58	6.58	-90.54	-0.23	-24.78	24.78	15.48	9.30	2.664		
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	-90.54	-0.23	-24.78	24.78	14.97	9.81	2.526		
2,100.00	2,100.00	2,100.00	2,100.00	7.29	7.29	-90.54	-0.23	-24.78	24.78	14.46	10.32	2.402	CC, ES, SF	
2,200.00	2,199.99	2,199.99	2,199.99	7.65	7.65	-165.81	-0.23	-24.78	26.05	15.23	10.82	2.408		
2,300.00	2,299.91	2,300.60	2,300.59	7.99	8.01	-166.54	0.39	-23.61	28.68	17.37	11.31	2.536		
2,400.00	2,399.69	2,401.27	2,401.18	8.34	8.36	-166.14	2.27	-20.10	31.50	19.71	11.79	2.671		
2,500.00	2,499.27	2,501.75	2,501.45	8.70	8.72	-164.98	5.32	-14.38	34.62	22.34	12.28	2.820		
2,601.33	2,599.89	2,602.95	2,602.39	9.06	9.07	-164.60	8.71	-8.04	39.78	27.00	12.78	3.113		
2,700.00	2,697.71	2,701.42	2,700.61	9.42	9.42	-164.78	12.01	-1.87	46.07	32.81	13.27	3.473		
2,800.00	2,796.85	2,801.21	2,800.15	9.78	9.78	-164.91	15.35	4.38	52.45	38.68	13.76	3.810		
2,900.00	2,895.99	2,901.01	2,899.70	10.15	10.14	-165.02	18.69	10.63	58.83	44.56	14.26	4.124		
3,000.00	2,995.13	3,000.81	2,999.24	10.53	10.50	-165.10	22.03	16.88	65.20	50.44	14.76	4.416		
3,100.00	3,094.27	3,100.60	3,098.78	10.90	10.86	-165.17	25.37	23.13	71.58	56.31	15.27	4.689		
3,200.00	3,193.41	3,200.40	3,198.33	11.28	11.22	-165.23	28.71	29.38	77.96	62.19	15.77	4.944		
3,300.00	3,292.55	3,300.19	3,297.87	11.67	11.58	-165.28	32.05	35.63	84.33	68.06	16.27	5.183		
3,400.00	3,391.69	3,399.99	3,397.42	12.05	11.94	-165.32	35.39	41.88	90.71	73.93	16.78	5.407		
3,500.00	3,490.83	3,499.79	3,496.96	12.44	12.30	-165.36	38.73	48.13	97.09	79.81	17.28	5.618		
3,600.00	3,589.97	3,599.58	3,596.51	12.82	12.67	-165.39	42.07	54.38	103.47	85.68	17.79	5.817		
3,700.00	3,689.11	3,699.38	3,696.05	13.21	13.03	-165.42	45.41	60.63	109.84	91.55	18.29	6.004		
3,800.00	3,788.25	3,799.18	3,795.60	13.60	13.40	-165.44	48.75	66.88	116.22	97.42	18.80	6.181		
3,900.00	3,887.39	3,898.97	3,895.14	13.99	13.76	-165.46	52.09	73.13	122.60	103.29	19.31	6.349		
4,000.00	3,986.53	3,998.77	3,994.69	14.39	14.13	-165.49	55.43	79.38	128.97	109.15	19.82	6.507		
4,100.00	4,085.67	4,098.57	4,094.23	14.78	14.49	-165.50	58.77	85.63	135.35	115.02	20.33	6.658		
4,200.00	4,184.81	4,198.36	4,193.77	15.18	14.86	-165.52	62.11	91.88	141.73	120.89	20.84	6.801		
4,300.00	4,283.95	4,298.16	4,293.32	15.57	15.22	-165.54	65.45	98.13	148.11	126.76	21.35	6.937		
4,400.00	4,383.09	4,397.96	4,392.86	15.97	15.59	-165.55	68.80	104.39	154.48	132.62	21.86	7.067		
4,500.00	4,482.23	4,497.75	4,492.41	16.37	15.96	-165.56	72.14	110.64	160.86	138.49	22.37	7.191		
4,600.00	4,581.37	4,597.55	4,591.95	16.77	16.33	-165.58	75.48	116.89	167.24	144.36	22.88	7.309		
4,700.00	4,680.51	4,697.34	4,691.50	17.17	16.69	-165.59	78.82	123.14	173.62	150.22	23.39	7.421		
4,800.00	4,779.65	4,797.14	4,791.04	17.57	17.06	-165.60	82.16	129.39	179.99	156.09	23.91	7.529		
4,900.00	4,878.79	4,896.94	4,890.59	17.97	17.43	-165.61	85.50	135.64	186.37	161.95	24.42	7.632		
5,000.00	4,977.93	4,996.73	4,990.13	18.37	17.80	-165.62	88.84	141.89	192.75	167.82	24.93	7.731		
5,100.00	5,077.07	5,096.53	5,089.67	18.77	18.17	-165.62	92.18	148.14	199.13	173.68	25.44	7.826		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		
5,200.00	5,176.21	5,196.33	5,189.22	19.17	18.54	-165.63	95.52	154.39	205.50	179.54	25.96	7.917		
5,300.00	5,275.35	5,296.12	5,288.76	19.57	18.91	-165.64	98.86	160.64	211.88	185.41	26.47	8.004		
5,400.00	5,374.49	5,395.92	5,388.31	19.98	19.28	-165.65	102.20	166.89	218.26	191.27	26.99	8.088		
5,500.00	5,473.63	5,495.72	5,487.85	20.38	19.65	-165.65	105.54	173.14	224.64	197.14	27.50	8.169		
5,600.00	5,572.77	5,595.51	5,587.40	20.78	20.02	-165.66	108.88	179.39	231.01	203.00	28.01	8.246		
5,700.00	5,671.91	5,695.31	5,686.94	21.19	20.39	-165.66	112.22	185.64	237.39	208.86	28.53	8.321		
5,800.00	5,771.05	5,795.11	5,786.49	21.59	20.76	-165.67	115.56	191.89	243.77	214.72	29.04	8.393		
5,900.00	5,870.19	5,894.90	5,886.03	22.00	21.13	-165.68	118.90	198.14	250.15	220.59	29.56	8.463		
6,000.00	5,969.33	5,994.70	5,985.57	22.40	21.50	-165.68	122.24	204.39	256.52	226.45	30.07	8.530		
6,100.00	6,068.47	6,094.49	6,085.12	22.81	21.87	-165.69	125.58	210.64	262.90	232.31	30.59	8.595		
6,200.00	6,167.61	6,194.29	6,184.66	23.22	22.24	-165.69	128.92	216.89	269.28	238.17	31.10	8.658		
6,300.00	6,266.75	6,294.09	6,284.21	23.62	22.61	-165.69	132.26	223.14	275.65	244.04	31.62	8.718		
6,400.00	6,365.89	6,393.88	6,383.75	24.03	22.98	-165.70	135.60	229.39	282.03	249.90	32.13	8.777		
6,500.00	6,465.03	6,493.68	6,483.30	24.44	23.35	-165.70	138.94	235.65	288.41	255.76	32.65	8.834		
6,600.00	6,564.17	6,593.48	6,582.84	24.84	23.72	-165.71	142.28	241.90	294.79	261.62	33.16	8.889		
6,700.00	6,663.31	6,693.27	6,682.39	25.25	24.09	-165.71	145.62	248.15	301.16	267.48	33.68	8.942		
6,800.00	6,762.45	6,793.07	6,781.93	25.66	24.46	-165.71	148.97	254.40	307.54	273.35	34.20	8.993		
6,856.14	6,818.11	6,849.09	6,837.81	25.89	24.67	-165.72	150.84	257.91	311.12	276.64	34.49	9.022		
6,900.00	6,861.62	6,892.88	6,881.49	26.06	24.83	-165.72	152.31	260.65	313.68	278.96	34.71	9.036		
7,000.00	6,961.05	6,992.80	6,981.15	26.46	25.21	-165.62	155.65	266.91	317.68	282.45	35.23	9.018		
7,100.00	7,060.72	7,091.17	7,079.28	26.84	25.57	-165.42	158.91	273.01	319.20	283.46	35.74	8.932		
7,200.00	7,160.57	7,184.25	7,172.22	27.20	25.91	-165.24	161.25	277.38	319.73	283.51	36.22	8.827		
7,300.00	7,260.53	7,277.33	7,265.27	27.55	26.25	-165.14	162.52	279.75	319.88	283.20	36.68	8.721		
7,357.47	7,318.00	7,330.83	7,318.76	27.74	26.43	-90.58	162.76	280.21	319.81	282.87	36.94	8.658		
7,376.59	7,337.12	7,349.19	7,337.12	27.80	26.50	-90.58	162.77	280.22	319.80	282.77	37.02	8.638		
7,400.00	7,360.53	7,372.60	7,360.53	27.88	26.58	-90.58	162.77	280.22	319.80	282.66	37.14	8.611		
7,500.00	7,460.53	7,472.60	7,460.53	28.21	26.93	-90.58	162.77	280.22	319.80	282.17	37.63	8.498		
7,600.00	7,560.53	7,572.60	7,560.53	28.54	27.27	-90.58	162.77	280.22	319.80	281.67	38.12	8.389		
7,700.00	7,660.53	7,672.60	7,660.53	28.87	27.62	-90.58	162.77	280.22	319.80	281.18	38.61	8.282		
7,800.00	7,760.53	7,772.60	7,760.53	29.20	27.97	-90.58	162.77	280.22	319.80	280.69	39.11	8.177		
7,900.00	7,860.53	7,872.60	7,860.53	29.53	28.32	-90.58	162.77	280.22	319.80	280.20	39.60	8.076		
8,000.00	7,960.53	7,972.60	7,960.53	29.87	28.67	-90.58	162.77	280.22	319.80	279.70	40.09	7.976		
8,100.00	8,060.53	8,072.60	8,060.53	30.20	29.01	-90.58	162.77	280.22	319.80	279.21	40.59	7.879		
8,200.00	8,160.53	8,172.60	8,160.53	30.53	29.36	-90.58	162.77	280.22	319.80	278.71	41.08	7.784		
8,300.00	8,260.53	8,272.60	8,260.53	30.87	29.71	-90.58	162.77	280.22	319.80	278.22	41.58	7.692		
8,400.00	8,360.53	8,372.60	8,360.53	31.20	30.06	-90.58	162.77	280.22	319.80	277.73	42.07	7.601		
8,500.00	8,460.53	8,472.60	8,460.53	31.54	30.41	-90.58	162.77	280.22	319.80	277.23	42.57	7.513		
8,600.00	8,560.53	8,572.60	8,560.53	31.88	30.76	-90.58	162.77	280.22	319.80	276.74	43.06	7.427		
8,700.00	8,660.53	8,672.60	8,660.53	32.21	31.11	-90.58	162.77	280.22	319.80	276.24	43.56	7.342		
8,800.00	8,760.53	8,772.60	8,760.53	32.55	31.46	-90.58	162.77	280.22	319.80	275.74	44.05	7.260		
8,900.00	8,860.53	8,872.60	8,860.53	32.89	31.81	-90.58	162.77	280.22	319.80	275.25	44.55	7.179		
9,000.00	8,960.53	8,972.60	8,960.53	33.23	32.16	-90.58	162.77	280.22	319.80	274.75	45.04	7.100		
9,100.00	9,060.53	9,072.60	9,060.53	33.56	32.51	-90.58	162.77	280.22	319.80	274.26	45.54	7.022		
9,200.00	9,160.53	9,172.60	9,160.53	33.90	32.86	-90.58	162.77	280.22	319.80	273.76	46.04	6.946		
9,300.00	9,260.53	9,272.60	9,260.53	34.24	33.21	-90.58	162.77	280.22	319.80	273.26	46.53	6.872		
9,400.00	9,360.53	9,372.60	9,360.53	34.58	33.56	-90.58	162.77	280.22	319.80	272.76	47.03	6.800		
9,500.00	9,460.53	9,472.60	9,460.53	34.92	33.92	-90.58	162.77	280.22	319.80	272.27	47.53	6.728		
9,600.00	9,560.53	9,572.60	9,560.53	35.26	34.27	-90.58	162.77	280.22	319.80	271.77	48.03	6.659		
9,700.00	9,660.53	9,672.60	9,660.53	35.60	34.62	-90.58	162.77	280.22	319.80	271.27	48.52	6.590		
9,800.00	9,760.53	9,772.60	9,760.53	35.94	34.97	-90.58	162.77	280.22	319.80	270.77	49.02	6.524		
9,900.00	9,860.53	9,872.60	9,860.53	36.29	35.32	-90.58	162.77	280.22	319.80	270.28	49.52	6.458		
10,000.00	9,960.53	9,972.60	9,960.53	36.63	35.67	-90.58	162.77	280.22	319.80	269.78	50.02	6.394		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	10,060.53	10,072.60	10,060.53	36.97	36.03	-90.58	162.77	280.22	319.80	269.28	50.52	6.330		
10,200.00	10,160.53	10,172.60	10,160.53	37.31	36.38	-90.58	162.77	280.22	319.80	268.78	51.02	6.269		
10,300.00	10,260.53	10,272.60	10,260.53	37.65	36.73	-90.58	162.77	280.22	319.80	268.28	51.51	6.208		
10,400.00	10,360.53	10,372.60	10,360.53	38.00	37.08	-90.58	162.77	280.22	319.80	267.78	52.01	6.148		
10,500.00	10,460.53	10,472.60	10,460.53	38.34	37.44	-90.58	162.77	280.22	319.80	267.28	52.51	6.090		
10,600.00	10,560.53	10,572.60	10,560.53	38.68	37.79	-90.58	162.77	280.22	319.80	266.78	53.01	6.033		
10,700.00	10,660.53	10,672.60	10,660.53	39.03	38.14	-90.58	162.77	280.22	319.80	266.28	53.51	5.976		
10,800.00	10,760.53	10,772.60	10,760.53	39.37	38.49	-90.58	162.77	280.22	319.80	265.79	54.01	5.921		
10,900.00	10,860.53	10,872.60	10,860.53	39.72	38.85	-90.58	162.77	280.22	319.80	265.29	54.51	5.867		
11,000.00	10,960.53	10,972.60	10,960.53	40.06	39.20	-90.58	162.77	280.22	319.80	264.79	55.01	5.813		
11,100.00	11,060.53	11,072.60	11,060.53	40.41	39.55	-90.58	162.77	280.22	319.80	264.29	55.51	5.761		
11,200.00	11,160.53	11,172.60	11,160.53	40.75	39.91	-90.58	162.77	280.22	319.80	263.79	56.01	5.710		
11,300.00	11,260.53	11,272.60	11,260.53	41.10	40.26	-90.58	162.77	280.22	319.80	263.29	56.51	5.659		
11,400.00	11,360.53	11,372.60	11,360.53	41.44	40.61	-90.58	162.77	280.22	319.80	262.79	57.01	5.609		
11,500.00	11,460.53	11,472.60	11,460.53	41.79	40.97	-90.58	162.77	280.22	319.80	262.28	57.51	5.561		
11,600.00	11,560.53	11,572.60	11,560.53	42.13	41.32	-90.58	162.77	280.22	319.80	261.78	58.01	5.513		
11,700.00	11,660.53	11,672.60	11,660.53	42.48	41.68	-90.58	162.77	280.22	319.80	261.28	58.51	5.465		
11,800.00	11,760.53	11,772.60	11,760.53	42.83	42.03	-90.58	162.77	280.22	319.80	260.78	59.01	5.419		
11,846.51	11,807.04	11,819.11	11,807.04	42.99	42.19	-90.58	162.77	280.22	319.80	260.55	59.25	5.398		
11,850.00	11,810.53	11,822.60	11,810.53	43.00	42.21	96.32	162.77	280.22	319.80	260.53	59.26	5.396		
11,900.00	11,860.45	11,872.52	11,860.45	43.16	42.38	96.74	162.77	280.22	320.08	260.57	59.51	5.379		
11,950.00	11,909.97	11,922.03	11,909.97	43.31	42.56	97.85	162.77	280.22	320.96	261.20	59.75	5.371		
12,000.00	11,958.70	11,970.77	11,958.70	43.46	42.73	99.58	162.77	280.22	322.69	262.69	60.00	5.378		
12,050.00	12,006.28	12,018.34	12,006.28	43.61	42.90	101.82	162.77	280.22	325.68	265.43	60.25	5.406		
12,100.00	12,052.34	12,064.41	12,052.34	43.75	43.06	104.41	162.77	280.22	330.45	269.96	60.49	5.463		
12,150.00	12,096.54	12,108.60	12,096.54	43.87	43.22	107.16	162.77	280.22	337.58	276.85	60.74	5.558		
12,200.00	12,138.53	12,150.59	12,138.53	43.99	43.37	109.87	162.77	280.22	347.66	286.68	60.97	5.702		
12,250.00	12,178.00	12,193.45	12,181.38	44.10	43.52	112.67	162.59	280.22	361.12	299.90	61.22	5.898		
12,300.00	12,214.64	12,246.35	12,234.12	44.21	43.69	116.04	158.83	280.26	377.25	315.79	61.46	6.138		
12,350.00	12,248.19	12,303.81	12,290.76	44.30	43.86	119.27	149.25	280.35	395.33	333.77	61.56	6.422		
12,400.00	12,278.37	12,366.95	12,351.53	44.39	44.05	122.36	132.25	280.52	414.81	353.39	61.43	6.753		
12,450.00	12,304.97	12,437.14	12,416.44	44.48	44.23	125.29	105.64	280.79	435.07	374.10	60.97	7.136		
12,500.00	12,327.78	12,516.05	12,484.90	44.58	44.42	128.03	66.52	281.18	455.40	395.29	60.11	7.576		
12,550.00	12,346.63	12,605.46	12,555.12	44.68	44.60	130.47	11.33	281.72	474.97	416.15	58.82	8.075		
12,600.00	12,361.37	12,706.94	12,623.32	44.79	44.77	132.46	-63.64	282.47	492.84	435.65	57.18	8.619		
12,650.00	12,371.89	12,821.12	12,682.89	44.91	44.98	133.76	-160.82	283.43	507.93	452.43	55.50	9.151		
12,700.00	12,378.11	12,946.53	12,724.73	45.04	45.27	134.12	-278.77	284.60	519.22	464.87	54.35	9.554		
12,746.51	12,380.00	13,069.54	12,739.92	45.17	45.59	133.45	-400.60	285.81	525.60	471.30	54.30	9.680		
12,800.00	12,380.00	13,128.77	12,740.00	45.34	45.76	132.95	-459.82	286.40	529.57	474.90	54.66	9.688		
12,900.00	12,380.00	13,228.49	12,740.00	45.69	46.08	132.33	-559.54	287.39	535.04	479.78	55.26	9.682		
13,000.00	12,380.00	13,328.40	12,740.00	46.08	46.46	132.01	-659.45	288.38	537.97	482.14	55.82	9.637		
13,063.21	12,380.00	13,391.61	12,740.00	46.35	46.72	131.95	-722.65	289.01	538.48	482.33	56.15	9.590		
13,100.00	12,380.00	13,428.40	12,740.00	46.52	46.88	131.96	-759.44	289.37	538.48	482.14	56.34	9.557		
13,200.00	12,380.00	13,528.40	12,740.00	47.00	47.36	131.96	-859.43	290.37	538.48	481.58	56.90	9.464		
13,300.00	12,380.00	13,628.40	12,740.00	47.54	47.89	131.96	-959.43	291.36	538.47	480.97	57.50	9.364		
13,400.00	12,380.00	13,728.40	12,740.00	48.13	48.47	131.96	-1,059.42	292.35	538.47	480.31	58.17	9.258		
13,500.00	12,380.00	13,828.40	12,740.00	48.77	49.10	131.96	-1,159.42	293.34	538.47	479.59	58.87	9.146		
13,600.00	12,380.00	13,928.40	12,740.00	49.45	49.78	131.96	-1,259.41	294.34	538.46	478.83	59.63	9.030		
13,700.00	12,380.00	14,028.40	12,740.00	50.18	50.50	131.96	-1,359.41	295.33	538.46	478.02	60.44	8.910		
13,800.00	12,380.00	14,128.40	12,740.00	50.95	51.26	131.96	-1,459.40	296.32	538.46	477.17	61.28	8.786		
13,900.00	12,380.00	14,228.40	12,740.00	51.77	52.06	131.96	-1,559.40	297.31	538.45	476.28	62.17	8.661		
14,000.00	12,380.00	14,328.40	12,740.00	52.62	52.91	131.96	-1,659.39	298.31	538.45	475.35	63.10	8.533		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	12,380.00	14,428.40	12,740.00	53.51	53.79	131.96	-1,759.39	299.30	538.45	474.38	64.07	8.404		
14,200.00	12,380.00	14,528.40	12,740.00	54.44	54.70	131.96	-1,859.38	300.29	538.44	473.37	65.07	8.274		
14,300.00	12,380.00	14,628.40	12,740.00	55.40	55.65	131.96	-1,959.38	301.28	538.44	472.33	66.11	8.144		
14,400.00	12,380.00	14,728.40	12,740.00	56.39	56.63	131.96	-2,059.37	302.28	538.44	471.25	67.18	8.014		
14,500.00	12,380.00	14,828.40	12,740.00	57.41	57.65	131.96	-2,159.37	303.27	538.43	470.15	68.29	7.885		
14,600.00	12,380.00	14,928.40	12,740.00	58.46	58.69	131.96	-2,259.36	304.26	538.43	469.01	69.42	7.756		
14,700.00	12,380.00	15,028.40	12,740.00	59.54	59.76	131.96	-2,359.36	305.25	538.43	467.85	70.58	7.629		
14,800.00	12,380.00	15,128.40	12,740.00	60.64	60.85	131.96	-2,459.35	306.25	538.42	466.66	71.76	7.503		
14,900.00	12,380.00	15,228.40	12,740.00	61.77	61.97	131.96	-2,559.35	307.24	538.42	465.45	72.97	7.378		
15,000.00	12,380.00	15,328.40	12,740.00	62.92	63.11	131.96	-2,659.34	308.23	538.42	464.21	74.21	7.256		
15,100.00	12,380.00	15,428.40	12,740.00	64.09	64.28	131.96	-2,759.34	309.22	538.41	462.95	75.46	7.135		
15,200.00	12,380.00	15,528.40	12,740.00	65.28	65.46	131.96	-2,859.33	310.22	538.41	461.67	76.74	7.016		
15,300.00	12,380.00	15,628.40	12,740.00	66.50	66.67	131.96	-2,959.33	311.21	538.41	460.37	78.03	6.900		
15,400.00	12,380.00	15,728.40	12,740.00	67.73	67.89	131.96	-3,059.32	312.20	538.40	459.05	79.35	6.785		
15,500.00	12,380.00	15,828.40	12,740.00	68.98	69.14	131.96	-3,159.32	313.19	538.40	457.72	80.68	6.673		
15,600.00	12,380.00	15,928.40	12,740.00	70.24	70.40	131.96	-3,259.31	314.19	538.40	456.37	82.03	6.563		
15,700.00	12,380.00	16,028.40	12,740.00	71.52	71.67	131.96	-3,359.31	315.18	538.39	455.00	83.39	6.456		
15,800.00	12,380.00	16,128.40	12,740.00	72.82	72.96	131.96	-3,459.30	316.17	538.39	453.62	84.77	6.351		
15,900.00	12,380.00	16,228.40	12,740.00	74.13	74.27	131.96	-3,559.30	317.16	538.39	452.22	86.16	6.249		
16,000.00	12,380.00	16,328.40	12,740.00	75.46	75.58	131.96	-3,659.29	318.16	538.38	450.82	87.57	6.148		
16,100.00	12,380.00	16,428.40	12,740.00	76.79	76.91	131.96	-3,759.29	319.15	538.38	449.40	88.98	6.050		
16,200.00	12,380.00	16,528.40	12,740.00	78.14	78.26	131.97	-3,859.28	320.14	538.37	447.96	90.41	5.955		
16,300.00	12,380.00	16,628.40	12,740.00	79.50	79.61	131.97	-3,959.28	321.13	538.37	446.52	91.85	5.861		
16,400.00	12,380.00	16,728.40	12,740.00	80.87	80.98	131.97	-4,059.27	322.13	538.37	445.07	93.30	5.770		
16,500.00	12,380.00	16,828.40	12,740.00	82.25	82.35	131.97	-4,159.27	323.12	538.36	443.61	94.76	5.682		
16,600.00	12,380.00	16,928.40	12,740.00	83.64	83.74	131.97	-4,259.26	324.11	538.36	442.14	96.22	5.595		
16,700.00	12,380.00	17,028.40	12,740.00	85.04	85.13	131.97	-4,359.26	325.10	538.36	440.66	97.70	5.511		
16,800.00	12,380.00	17,128.40	12,740.00	86.45	86.54	131.97	-4,459.25	326.10	538.35	439.18	99.18	5.428		
16,900.00	12,380.00	17,228.40	12,740.00	87.87	87.95	131.97	-4,559.25	327.09	538.35	437.68	100.67	5.348		
17,000.00	12,380.00	17,328.40	12,740.00	89.30	89.37	131.97	-4,659.25	328.08	538.35	436.18	102.16	5.269		
17,100.00	12,380.00	17,428.40	12,740.00	90.73	90.80	131.97	-4,759.24	329.07	538.34	434.68	103.67	5.193		
17,200.00	12,380.00	17,528.40	12,740.00	92.17	92.24	131.97	-4,859.24	330.07	538.34	433.17	105.18	5.119		
17,300.00	12,380.00	17,628.40	12,740.00	93.62	93.68	131.97	-4,959.23	331.06	538.34	431.65	106.69	5.046		
17,400.00	12,380.00	17,728.40	12,740.00	95.07	95.13	131.97	-5,059.23	332.05	538.33	430.13	108.21	4.975		
17,500.00	12,380.00	17,828.40	12,740.00	96.53	96.59	131.97	-5,159.22	333.04	538.33	428.60	109.73	4.906		
17,600.00	12,380.00	17,928.40	12,740.00	98.00	98.05	131.97	-5,259.22	334.04	538.33	427.07	111.26	4.838		
17,700.00	12,380.00	18,028.40	12,740.00	99.47	99.52	131.97	-5,359.21	335.03	538.32	425.53	112.79	4.773		
17,800.00	12,380.00	18,128.40	12,740.00	100.95	101.00	131.97	-5,459.21	336.02	538.32	423.99	114.33	4.708		
17,900.00	12,380.00	18,228.40	12,740.00	102.43	102.48	131.97	-5,559.20	337.01	538.32	422.45	115.87	4.646		
18,000.00	12,380.00	18,328.40	12,740.00	103.92	103.96	131.97	-5,659.20	338.01	538.31	420.90	117.41	4.585		
18,100.00	12,380.00	18,428.40	12,740.00	105.41	105.45	131.97	-5,759.19	339.00	538.31	419.35	118.96	4.525		
18,200.00	12,380.00	18,528.40	12,740.00	106.91	106.95	131.97	-5,859.19	339.99	538.31	417.80	120.51	4.467		
18,300.00	12,380.00	18,628.40	12,740.00	108.41	108.44	131.97	-5,959.18	340.98	538.30	416.25	122.06	4.410		
18,400.00	12,380.00	18,728.40	12,740.00	109.92	109.95	131.97	-6,059.18	341.98	538.30	414.69	123.61	4.355		
18,500.00	12,380.00	18,828.40	12,740.00	111.43	111.46	131.97	-6,159.17	342.97	538.30	413.13	125.17	4.301		
18,600.00	12,380.00	18,928.40	12,740.00	112.94	112.97	131.97	-6,259.17	343.96	538.29	411.57	126.72	4.248		
18,700.00	12,380.00	19,028.40	12,740.00	114.46	114.48	131.97	-6,359.16	344.95	538.29	410.01	128.28	4.196		
18,800.00	12,380.00	19,128.40	12,740.00	115.98	116.00	131.97	-6,459.16	345.95	538.29	408.44	129.85	4.146		
18,900.00	12,380.00	19,228.40	12,740.00	117.51	117.53	131.97	-6,559.15	346.94	538.28	406.88	131.41	4.096		
19,000.00	12,380.00	19,328.40	12,740.00	119.04	119.05	131.97	-6,659.15	347.93	538.28	405.31	132.97	4.048		
19,100.00	12,380.00	19,428.40	12,740.00	120.57	120.58	131.97	-6,759.14	348.92	538.28	403.74	134.53	4.001		
19,200.00	12,380.00	19,528.40	12,740.00	122.11	122.11	131.98	-6,859.14	349.92	538.27	402.17	136.10	3.955		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		PF Fed Com - Paul Foster Fed Com 805H - OH - Plan #1											Offset Site Error:		0.00 usft
Survey Program:		0-OWSG (Rev2) MWD											Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
19,300.00	12,380.00	19,628.40	12,740.00	123.64	123.65	131.98	-6,959.13	350.91	538.27	400.60	137.67	3.910			
19,400.00	12,380.00	19,728.40	12,740.00	125.18	125.19	131.98	-7,059.13	351.90	538.27	399.03	139.23	3.866			
19,500.00	12,380.00	19,828.40	12,740.00	126.73	126.73	131.98	-7,159.12	352.89	538.26	397.46	140.80	3.823			
19,600.00	12,380.00	19,928.40	12,740.00	128.27	128.28	131.98	-7,259.12	353.89	538.26	395.89	142.37	3.781			
19,700.00	12,380.00	20,028.40	12,740.00	129.82	129.82	131.98	-7,359.11	354.88	538.26	394.32	143.93	3.740			
19,800.00	12,380.00	20,128.40	12,740.00	131.38	131.37	131.98	-7,459.11	355.87	538.25	392.75	145.50	3.699			
19,900.00	12,380.00	20,228.40	12,740.00	132.93	132.92	131.98	-7,559.10	356.86	538.25	391.18	147.07	3.660			
20,000.00	12,380.00	20,328.40	12,740.00	134.49	134.48	131.98	-7,659.10	357.86	538.25	389.61	148.64	3.621			
20,100.00	12,380.00	20,428.40	12,740.00	136.04	136.04	131.98	-7,759.09	358.85	538.24	388.04	150.20	3.583			
20,200.00	12,380.00	20,528.40	12,740.00	137.61	137.59	131.98	-7,859.09	359.84	538.24	386.47	151.77	3.546			
20,300.00	12,380.00	20,628.40	12,740.00	139.17	139.16	131.98	-7,959.08	360.83	538.23	384.90	153.34	3.510			
20,400.00	12,380.00	20,728.40	12,740.00	140.73	140.72	131.98	-8,059.08	361.83	538.23	383.33	154.90	3.475			
20,500.00	12,380.00	20,828.40	12,740.00	142.30	142.28	131.98	-8,159.07	362.82	538.23	381.76	156.47	3.440			
20,600.00	12,380.00	20,928.40	12,740.00	143.87	143.85	131.98	-8,259.07	363.81	538.22	380.19	158.04	3.406			
20,700.00	12,380.00	21,028.40	12,740.00	145.44	145.42	131.98	-8,359.06	364.80	538.22	378.62	159.60	3.372			
20,800.00	12,380.00	21,128.40	12,740.00	147.01	146.99	131.98	-8,459.06	365.80	538.22	377.05	161.16	3.340			
20,900.00	12,380.00	21,228.40	12,740.00	148.59	148.56	131.98	-8,559.05	366.79	538.21	375.49	162.73	3.307			
21,000.00	12,380.00	21,328.40	12,740.00	150.16	150.14	131.98	-8,659.05	367.78	538.21	373.92	164.29	3.276			
21,100.00	12,380.00	21,428.40	12,740.00	151.74	151.71	131.98	-8,759.04	368.77	538.21	372.36	165.85	3.245			
21,200.00	12,380.00	21,528.40	12,740.00	153.32	153.29	131.98	-8,859.04	369.77	538.20	370.80	167.41	3.215			
21,300.00	12,380.00	21,628.40	12,740.00	154.90	154.87	131.98	-8,959.03	370.76	538.20	369.23	168.97	3.185			
21,400.00	12,380.00	21,728.40	12,740.00	156.48	156.45	131.98	-9,059.03	371.75	538.20	367.67	170.53	3.156			
21,500.00	12,380.00	21,828.40	12,740.00	158.06	158.03	131.98	-9,159.02	372.74	538.19	366.11	172.08	3.128			
21,600.00	12,380.00	21,928.40	12,740.00	159.65	159.61	131.98	-9,259.02	373.74	538.19	364.55	173.64	3.100			
21,700.00	12,380.00	22,028.40	12,740.00	161.23	161.20	131.98	-9,359.01	374.73	538.19	363.00	175.19	3.072			
21,800.00	12,380.00	22,128.40	12,740.00	162.82	162.79	131.98	-9,459.01	375.72	538.18	361.44	176.74	3.045			
21,900.00	12,380.00	22,228.40	12,740.00	164.41	164.37	131.98	-9,559.00	376.71	538.18	359.88	178.30	3.018			
22,000.00	12,380.00	22,328.40	12,740.00	166.00	165.96	131.98	-9,659.00	377.71	538.18	358.33	179.85	2.992			
22,100.00	12,380.00	22,428.40	12,740.00	167.59	167.55	131.98	-9,758.99	378.70	538.17	356.78	181.39	2.967			
22,200.00	12,380.00	22,528.40	12,740.00	169.18	169.14	131.98	-9,858.99	379.69	538.17	355.23	182.94	2.942			
22,300.00	12,380.00	22,628.40	12,740.00	170.77	170.73	131.99	-9,958.98	380.68	538.17	353.68	184.49	2.917			
22,400.00	12,380.00	22,728.40	12,740.00	172.37	172.33	131.99	-10,058.98	381.68	538.16	352.13	186.03	2.893			
22,500.00	12,380.00	22,828.40	12,740.00	173.96	173.92	131.99	-10,158.97	382.67	538.16	350.59	187.57	2.869			
22,545.74	12,380.00	22,874.14	12,740.00	174.69	174.65	131.99	-10,204.71	383.12	538.16	349.88	188.28	2.858			
22,547.76	12,380.00	22,874.14	12,740.00	174.73	174.65	131.99	-10,204.71	383.12	538.16	349.94	188.23	2.859			
22,548.65	12,380.00	22,874.14	12,740.00	174.75	174.65	131.99	-10,204.71	383.12	538.17	349.90	188.26	2.859			

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	22.00	22.00	0.00	0.03	-99.01	-467.54	-2,948.36	2,985.20					
100.00	100.00	122.00	122.00	0.13	0.20	-99.01	-467.54	-2,948.36	2,985.20	2,984.96	0.24	N/A		
200.00	200.00	222.00	222.00	0.48	0.56	-99.01	-467.54	-2,948.36	2,985.20	2,984.46	0.74	4,021.816		
300.00	300.00	322.00	322.00	0.84	0.92	-99.01	-467.54	-2,948.36	2,985.20	2,983.96	1.25	2,391.308		
400.00	400.00	422.00	422.00	1.20	1.28	-99.01	-467.54	-2,948.36	2,985.20	2,983.45	1.75	1,701.018		
500.00	500.00	522.00	522.00	1.56	1.64	-99.01	-467.54	-2,948.36	2,985.20	2,982.94	2.26	1,319.889		
600.00	600.00	622.00	622.00	1.92	2.00	-99.01	-467.54	-2,948.36	2,985.20	2,982.44	2.77	1,078.260		
700.00	700.00	722.00	722.00	2.28	2.36	-99.01	-467.54	-2,948.36	2,985.20	2,981.93	3.28	911.400		
800.00	800.00	822.00	822.00	2.63	2.71	-99.01	-467.54	-2,948.36	2,985.20	2,981.42	3.78	789.257		
900.00	900.00	922.00	922.00	2.99	3.07	-99.01	-467.54	-2,948.36	2,985.20	2,980.92	4.29	695.981		
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-99.01	-467.54	-2,948.36	2,985.20	2,980.41	4.80	622.421		
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-99.01	-467.54	-2,948.36	2,985.20	2,979.90	5.30	562.923		
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-99.01	-467.54	-2,948.36	2,985.20	2,979.39	5.81	513.807		
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-99.01	-467.54	-2,948.36	2,985.20	2,978.89	6.32	472.574		
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-99.01	-467.54	-2,948.36	2,985.20	2,978.38	6.82	437.467		
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-99.01	-467.54	-2,948.36	2,985.20	2,977.87	7.33	407.215		
1,600.00	1,600.00	1,622.00	1,622.00	5.50	5.58	-99.01	-467.54	-2,948.36	2,985.20	2,977.37	7.84	380.876		
1,700.00	1,700.00	1,722.00	1,722.00	5.86	5.94	-99.01	-467.54	-2,948.36	2,985.20	2,976.86	8.34	357.738		
1,800.00	1,800.00	1,822.00	1,822.00	6.22	6.30	-99.01	-467.54	-2,948.36	2,985.20	2,976.35	8.85	337.250		
1,900.00	1,900.00	1,922.00	1,922.00	6.58	6.66	-99.01	-467.54	-2,948.36	2,985.20	2,975.85	9.36	318.981		
1,907.27	1,907.27	1,929.27	1,929.27	6.60	6.68	-99.01	-467.54	-2,948.36	2,985.20	2,975.81	9.40	317.731 CC		
2,000.00	2,000.00	2,016.16	2,016.16	6.94	6.99	-99.01	-467.51	-2,948.38	2,985.23	2,975.38	9.85	303.057 ES		
2,100.00	2,100.00	2,100.00	2,099.99	7.29	7.29	-98.99	-466.49	-2,949.14	2,985.89	2,975.58	10.31	289.474		
2,200.00	2,199.99	2,162.96	2,162.91	7.65	7.52	-173.48	-464.75	-2,950.43	2,988.70	2,977.98	10.72	278.784		
2,300.00	2,299.91	2,236.09	2,235.94	7.99	7.78	-173.41	-461.68	-2,952.71	2,995.02	2,983.87	11.15	268.672		
2,400.00	2,399.69	2,300.00	2,299.69	8.34	8.01	-173.33	-458.08	-2,955.38	3,004.84	2,993.29	11.55	260.146		
2,500.00	2,499.27	2,381.11	2,380.48	8.70	8.30	-173.20	-452.28	-2,959.68	3,018.10	3,006.10	12.00	251.547		
2,601.33	2,599.89	2,453.67	2,452.61	9.06	8.56	-173.05	-445.92	-2,964.39	3,035.08	3,022.65	12.43	244.243		
2,700.00	2,697.71	2,537.62	2,535.89	9.42	8.86	-172.90	-437.46	-2,970.66	3,053.65	3,040.77	12.88	237.106		
2,800.00	2,796.85	2,635.35	2,632.83	9.78	9.22	-172.72	-427.47	-2,978.06	3,072.60	3,059.23	13.37	229.757		
2,900.00	2,895.99	2,733.09	2,729.77	10.15	9.58	-172.55	-417.49	-2,985.46	3,091.58	3,077.71	13.87	222.888		
3,000.00	2,995.13	2,830.82	2,826.72	10.53	9.95	-172.37	-407.50	-2,992.86	3,110.59	3,096.22	14.37	216.459		
3,100.00	3,094.27	2,928.56	2,923.66	10.90	10.32	-172.20	-397.52	-3,000.26	3,129.62	3,114.75	14.87	210.431		
3,200.00	3,193.41	3,026.30	3,020.60	11.28	10.69	-172.03	-387.53	-3,007.66	3,148.68	3,133.30	15.38	204.770		
3,300.00	3,292.55	3,124.03	3,117.54	11.67	11.06	-171.86	-377.55	-3,015.06	3,167.77	3,151.89	15.88	199.448		
3,400.00	3,391.69	3,221.77	3,214.49	12.05	11.43	-171.70	-367.56	-3,022.46	3,186.88	3,170.49	16.39	194.436		
3,500.00	3,490.83	3,319.51	3,311.43	12.44	11.81	-171.53	-357.57	-3,029.86	3,206.02	3,189.12	16.90	189.710		
3,600.00	3,589.97	3,417.24	3,408.37	12.82	12.18	-171.37	-347.59	-3,037.26	3,225.18	3,207.77	17.41	185.247		
3,700.00	3,689.11	3,514.98	3,505.32	13.21	12.56	-171.21	-337.60	-3,044.66	3,244.37	3,226.45	17.92	181.027		
3,800.00	3,788.25	3,612.72	3,602.26	13.60	12.94	-171.05	-327.62	-3,052.06	3,263.59	3,245.15	18.44	177.031		
3,900.00	3,887.39	3,710.45	3,699.20	13.99	13.32	-170.90	-317.63	-3,059.46	3,282.82	3,263.87	18.95	173.244		
4,000.00	3,986.53	3,808.19	3,796.14	14.39	13.71	-170.74	-307.64	-3,066.86	3,302.08	3,282.62	19.46	169.650		
4,100.00	4,085.67	3,905.93	3,893.09	14.78	14.09	-170.59	-297.66	-3,074.26	3,321.37	3,301.39	19.98	166.234		
4,200.00	4,184.81	4,003.66	3,990.03	15.18	14.47	-170.44	-287.67	-3,081.67	3,340.67	3,320.18	20.50	162.986		
4,300.00	4,283.95	4,101.40	4,086.97	15.57	14.86	-170.29	-277.69	-3,089.07	3,360.00	3,338.99	21.01	159.892		
4,400.00	4,383.09	4,199.14	4,183.92	15.97	15.24	-170.14	-267.70	-3,096.47	3,379.35	3,357.82	21.53	156.943		
4,500.00	4,482.23	4,296.87	4,280.86	16.37	15.63	-170.00	-257.72	-3,103.87	3,398.73	3,376.67	22.05	154.129		
4,600.00	4,581.37	4,394.61	4,377.80	16.77	16.02	-169.85	-247.73	-3,111.27	3,418.12	3,395.55	22.57	151.442		
4,700.00	4,680.51	4,492.34	4,474.74	17.17	16.40	-169.71	-237.74	-3,118.67	3,437.53	3,414.44	23.09	148.872		
4,800.00	4,779.65	4,590.08	4,571.69	17.57	16.79	-169.57	-227.76	-3,126.07	3,456.97	3,433.36	23.61	146.414		
4,900.00	4,878.79	4,687.82	4,668.63	17.97	17.18	-169.43	-217.77	-3,133.47	3,476.42	3,452.29	24.13	144.059		
5,000.00	4,977.93	4,785.55	4,765.57	18.37	17.57	-169.29	-207.79	-3,140.87	3,495.90	3,471.24	24.65	141.802		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		
5,100.00	5,077.07	4,883.29	4,862.52	18.77	17.96	-169.15	-197.80	-3,148.27	3,515.39	3,490.22	25.18	139.638		
5,200.00	5,176.21	4,981.03	4,959.46	19.17	18.35	-169.02	-187.81	-3,155.67	3,534.90	3,509.21	25.70	137.559		
5,300.00	5,275.35	5,078.76	5,056.40	19.57	18.74	-168.88	-177.83	-3,163.07	3,554.44	3,528.22	26.22	135.563		
5,400.00	5,374.49	5,176.50	5,153.35	19.98	19.13	-168.75	-167.84	-3,170.47	3,573.99	3,547.24	26.74	133.643		
5,500.00	5,473.63	5,274.24	5,250.29	20.38	19.52	-168.62	-157.86	-3,177.87	3,593.55	3,566.29	27.27	131.796		
5,600.00	5,572.77	5,371.97	5,347.23	20.78	19.91	-168.49	-147.87	-3,185.27	3,613.14	3,585.35	27.79	130.018		
5,700.00	5,671.91	5,469.71	5,444.17	21.19	20.30	-168.36	-137.89	-3,192.67	3,632.74	3,604.43	28.31	128.305		
5,800.00	5,771.05	5,567.45	5,541.12	21.59	20.69	-168.24	-127.90	-3,200.07	3,652.37	3,623.53	28.84	126.654		
5,900.00	5,870.19	5,665.18	5,638.06	22.00	21.09	-168.11	-117.91	-3,207.48	3,672.00	3,642.64	29.36	125.061		
6,000.00	5,969.33	5,762.92	5,735.00	22.40	21.48	-167.99	-107.93	-3,214.88	3,691.66	3,661.77	29.89	123.523		
6,100.00	6,068.47	5,860.66	5,831.95	22.81	21.87	-167.87	-97.94	-3,222.28	3,711.33	3,680.92	30.41	122.038		
6,200.00	6,167.61	5,958.39	5,928.89	23.22	22.27	-167.75	-87.96	-3,229.68	3,731.02	3,700.08	30.94	120.603		
6,300.00	6,266.75	6,056.13	6,025.83	23.62	22.66	-167.63	-77.97	-3,237.08	3,750.72	3,719.26	31.46	119.216		
6,400.00	6,365.89	6,153.86	6,122.77	24.03	23.05	-167.51	-67.98	-3,244.48	3,770.44	3,738.45	31.99	117.874		
6,500.00	6,465.03	6,251.60	6,219.72	24.44	23.45	-167.39	-58.00	-3,251.88	3,790.18	3,757.66	32.51	116.575		
6,600.00	6,564.17	6,349.34	6,316.66	24.84	23.84	-167.27	-48.01	-3,259.28	3,809.93	3,776.89	33.04	115.317		
6,700.00	6,663.31	6,447.07	6,413.60	25.25	24.23	-167.16	-38.03	-3,266.68	3,829.69	3,796.13	33.56	114.099		
6,800.00	6,762.45	6,544.81	6,510.55	25.66	24.63	-167.04	-28.04	-3,274.08	3,849.47	3,815.38	34.09	112.918		
6,856.14	6,818.11	6,599.68	6,564.97	25.89	24.85	-166.98	-22.44	-3,278.23	3,860.58	3,826.20	34.39	112.271		
6,900.00	6,861.62	6,642.59	6,607.53	26.06	25.02	-166.96	-18.05	-3,281.48	3,869.03	3,834.41	34.62	111.767		
7,000.00	6,961.05	6,740.72	6,704.87	26.46	25.42	-166.90	-8.02	-3,288.92	3,886.48	3,851.34	35.14	110.592		
7,100.00	7,060.72	6,839.22	6,802.57	26.84	25.82	-166.82	2.04	-3,296.37	3,901.44	3,865.78	35.67	109.384		
7,200.00	7,160.57	6,938.01	6,900.55	27.20	26.22	-166.73	12.13	-3,303.85	3,913.90	3,877.71	36.19	108.146		
7,300.00	7,260.53	7,156.55	7,117.92	27.55	27.07	-166.51	30.08	-3,317.15	3,922.55	3,885.45	37.10	105.739		
7,357.47	7,318.00	7,294.47	7,255.61	27.74	27.57	-91.89	36.27	-3,321.74	3,924.79	3,887.17	37.62	104.317		
7,400.00	7,360.53	7,396.82	7,357.93	27.88	27.93	-91.86	38.27	-3,323.23	3,925.38	3,887.39	38.00	103.310		
7,500.00	7,460.53	7,521.42	7,482.53	28.21	28.34	-91.86	38.46	-3,323.36	3,925.44	3,886.89	38.54	101.845		
7,600.00	7,560.53	7,621.42	7,582.53	28.54	28.68	-91.86	38.46	-3,323.36	3,925.44	3,886.41	39.03	100.584		
7,700.00	7,660.53	7,721.42	7,682.53	28.87	29.01	-91.86	38.46	-3,323.36	3,925.44	3,885.93	39.51	99.353		
7,800.00	7,760.53	7,821.42	7,782.53	29.20	29.35	-91.86	38.46	-3,323.36	3,925.44	3,885.44	39.99	98.150		
7,900.00	7,860.53	7,921.42	7,882.53	29.53	29.68	-91.86	38.46	-3,323.36	3,925.44	3,884.96	40.48	96.975		
8,000.00	7,960.53	8,021.42	7,982.53	29.87	30.02	-91.86	38.46	-3,323.36	3,925.44	3,884.47	40.96	95.826		
8,100.00	8,060.53	8,108.77	8,069.64	30.20	30.27	-91.94	33.18	-3,323.31	3,925.58	3,884.19	41.39	94.846		
8,200.00	8,160.53	8,191.47	8,150.48	30.53	30.46	-92.19	16.12	-3,323.14	3,926.14	3,884.37	41.77	93.997		
8,300.00	8,260.53	8,267.86	8,222.28	30.87	30.60	-92.57	-9.83	-3,322.89	3,927.29	3,885.18	42.11	93.265		
8,400.00	8,360.53	8,336.29	8,283.15	31.20	30.70	-93.02	-41.00	-3,322.58	3,929.30	3,886.88	42.42	92.637		
8,500.00	8,460.53	8,400.00	8,336.11	31.54	30.76	-93.54	-76.35	-3,322.24	3,932.44	3,889.74	42.70	92.097		
8,600.00	8,560.53	8,450.00	8,374.73	31.88	30.80	-94.00	-108.08	-3,321.93	3,936.98	3,894.03	42.95	91.662		
8,700.00	8,660.53	8,500.00	8,410.44	32.21	30.82	-94.51	-143.06	-3,321.58	3,943.14	3,899.95	43.19	91.299		
8,800.00	8,760.53	8,531.49	8,431.31	32.55	30.83	-94.85	-166.63	-3,321.35	3,951.07	3,907.68	43.39	91.051		
8,900.00	8,860.53	8,564.66	8,451.86	32.89	30.83	-95.23	-192.66	-3,321.09	3,960.95	3,917.36	43.59	90.875		
9,000.00	8,960.53	8,600.00	8,472.06	33.23	30.84	-95.65	-221.65	-3,320.81	3,972.86	3,929.09	43.77	90.770 SF		
9,100.00	9,060.53	8,618.33	8,481.82	33.56	30.83	-95.87	-237.17	-3,320.66	3,986.85	3,942.93	43.91	90.786		
9,200.00	9,160.53	8,650.00	8,497.50	33.90	30.83	-96.27	-264.68	-3,320.39	4,003.02	3,958.96	44.06	90.847		
9,300.00	9,260.53	8,650.00	8,497.50	34.24	30.83	-96.27	-264.68	-3,320.39	4,021.34	3,977.19	44.15	91.076		
9,400.00	9,360.53	8,676.35	8,509.36	34.58	30.82	-96.61	-288.20	-3,320.16	4,041.82	3,997.56	44.27	91.307		
9,500.00	9,460.53	8,700.00	8,519.09	34.92	30.82	-96.92	-309.76	-3,319.95	4,064.55	4,020.19	44.36	91.625		
9,600.00	9,560.53	8,700.00	8,519.09	35.26	30.82	-96.92	-309.76	-3,319.95	4,089.40	4,045.00	44.40	92.094		
9,700.00	9,660.53	8,700.00	8,519.09	35.60	30.82	-96.92	-309.76	-3,319.95	4,116.54	4,072.11	44.43	92.647		
9,800.00	9,760.53	8,728.03	8,529.45	35.94	30.81	-97.30	-335.79	-3,319.69	4,145.60	4,101.11	44.49	93.175		
9,900.00	9,860.53	8,750.00	8,536.67	36.29	30.81	-97.59	-356.54	-3,319.49	4,176.93	4,132.40	44.53	93.798		
10,000.00	9,960.53	8,750.00	8,536.67	36.63	30.81	-97.59	-356.54	-3,319.49	4,210.22	4,165.69	44.52	94.561		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design PF Fed Com - PF Fed Com 101H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						
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	10,060.53	8,750.00	8,536.67	36.97	30.81	-97.59	-356.54	-3,319.49	4,245.60	4,201.09	44.51	95.393	
10,200.00	10,160.53	8,750.00	8,536.67	37.31	30.81	-97.59	-356.54	-3,319.49	4,283.02	4,238.54	44.48	96.292	
10,300.00	10,260.53	8,769.73	8,542.47	37.65	30.80	-97.86	-375.40	-3,319.30	4,322.25	4,277.77	44.48	97.175	
10,400.00	10,360.53	8,776.14	8,544.22	38.00	30.80	-97.95	-381.57	-3,319.24	4,363.45	4,319.00	44.45	98.167	
10,500.00	10,460.53	8,800.00	8,550.10	38.34	30.79	-98.29	-404.69	-3,319.01	4,406.66	4,362.21	44.44	99.154	
10,600.00	10,560.53	8,800.00	8,550.10	38.68	30.79	-98.29	-404.69	-3,319.01	4,451.42	4,407.02	44.39	100.275	
10,700.00	10,660.53	8,800.00	8,550.10	39.03	30.79	-98.29	-404.69	-3,319.01	4,497.95	4,453.62	44.34	101.448	
10,800.00	10,760.53	8,800.00	8,550.10	39.37	30.79	-98.29	-404.69	-3,319.01	4,546.22	4,501.93	44.28	102.668	
10,900.00	10,860.53	8,800.00	8,550.10	39.72	30.79	-98.29	-404.69	-3,319.01	4,596.15	4,551.92	44.22	103.933	
11,000.00	10,960.53	8,800.00	8,550.10	40.06	30.79	-98.29	-404.69	-3,319.01	4,647.69	4,603.53	44.16	105.239	
11,100.00	11,060.53	8,800.00	8,550.10	40.41	30.79	-98.29	-404.69	-3,319.01	4,700.80	4,656.70	44.10	106.583	
11,200.00	11,160.53	8,800.00	8,550.10	40.75	30.79	-98.29	-404.69	-3,319.01	4,755.42	4,711.37	44.05	107.963	
11,300.00	11,260.53	8,800.00	8,550.10	41.10	30.79	-98.29	-404.69	-3,319.01	4,811.50	4,767.50	43.99	109.373	
11,400.00	11,360.53	8,800.00	8,550.10	41.44	30.79	-98.29	-404.69	-3,319.01	4,868.98	4,825.04	43.94	110.812	
11,500.00	11,460.53	8,823.54	8,554.96	41.79	30.79	-98.62	-427.72	-3,318.79	4,927.48	4,883.55	43.93	112.163	
11,600.00	11,560.53	8,826.47	8,555.50	42.13	30.79	-98.66	-430.59	-3,318.76	4,987.53	4,943.64	43.89	113.633	

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	22.00	22.00	0.00	0.03	-99.23	-466.84	-2,873.41	2,911.08					
100.00	100.00	122.00	122.00	0.13	0.20	-99.23	-466.84	-2,873.41	2,911.08	2,910.84	0.24	N/A		
200.00	200.00	222.00	222.00	0.48	0.56	-99.23	-466.84	-2,873.41	2,911.08	2,910.34	0.74	3,921.955		
300.00	300.00	322.00	322.00	0.84	0.92	-99.23	-466.84	-2,873.41	2,911.08	2,909.83	1.25	2,331.932		
400.00	400.00	422.00	422.00	1.20	1.28	-99.23	-466.84	-2,873.41	2,911.08	2,909.33	1.75	1,658.782		
500.00	500.00	522.00	522.00	1.56	1.64	-99.23	-466.84	-2,873.41	2,911.08	2,908.82	2.26	1,287.116		
600.00	600.00	622.00	622.00	1.92	2.00	-99.23	-466.84	-2,873.41	2,911.08	2,908.31	2.77	1,051.487		
700.00	700.00	722.00	722.00	2.28	2.36	-99.23	-466.84	-2,873.41	2,911.08	2,907.81	3.28	888.770		
800.00	800.00	822.00	822.00	2.63	2.71	-99.23	-466.84	-2,873.41	2,911.08	2,907.30	3.78	769.660		
900.00	900.00	922.00	922.00	2.99	3.07	-99.23	-466.84	-2,873.41	2,911.08	2,906.79	4.29	678.700		
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-99.23	-466.84	-2,873.41	2,911.08	2,906.29	4.80	606.966		
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-99.23	-466.84	-2,873.41	2,911.08	2,905.78	5.30	548.945		
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-99.23	-466.84	-2,873.41	2,911.08	2,905.27	5.81	501.049		
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-99.23	-466.84	-2,873.41	2,911.08	2,904.77	6.32	460.840		
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-99.23	-466.84	-2,873.41	2,911.08	2,904.26	6.82	426.604		
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-99.23	-466.84	-2,873.41	2,911.08	2,903.75	7.33	397.104		
1,600.00	1,600.00	1,622.00	1,622.00	5.50	5.58	-99.23	-466.84	-2,873.41	2,911.08	2,903.24	7.84	371.419		
1,700.00	1,700.00	1,722.00	1,722.00	5.86	5.94	-99.23	-466.84	-2,873.41	2,911.08	2,902.74	8.34	348.855		
1,800.00	1,800.00	1,822.00	1,822.00	6.22	6.30	-99.23	-466.84	-2,873.41	2,911.08	2,902.23	8.85	328.876		
1,900.00	1,900.00	1,922.00	1,922.00	6.58	6.66	-99.23	-466.84	-2,873.41	2,911.08	2,901.72	9.36	311.061		
2,000.00	2,000.00	2,022.00	2,022.00	6.94	7.02	-99.23	-466.84	-2,873.41	2,911.08	2,901.22	9.87	295.077		
2,100.00	2,100.00	2,122.00	2,122.00	7.29	7.37	-99.23	-466.84	-2,873.41	2,911.08	2,900.71	10.37	280.655		
2,200.00	2,199.99	2,270.51	2,270.50	7.65	7.90	-173.76	-466.47	-2,872.87	2,912.20	2,901.20	11.00	264.850		
2,300.00	2,299.91	2,590.79	2,590.11	7.99	9.04	-173.63	-455.46	-2,856.99	2,910.65	2,898.64	12.02	242.221		
2,400.00	2,399.69	2,908.62	2,904.57	8.34	10.20	-173.29	-429.50	-2,819.54	2,904.18	2,891.19	13.00	223.436		
2,500.00	2,499.27	3,038.61	3,032.09	8.70	10.70	-173.11	-415.13	-2,798.82	2,895.62	2,882.06	13.56	213.563		
2,601.33	2,599.89	3,139.50	3,131.01	9.06	11.09	-172.98	-403.87	-2,782.58	2,889.53	2,875.47	14.06	205.454		
2,700.00	2,697.71	3,237.81	3,227.42	9.42	11.48	-172.84	-392.89	-2,766.75	2,884.92	2,870.36	14.56	198.138		
2,800.00	2,796.85	3,337.45	3,325.12	9.78	11.89	-172.70	-381.76	-2,750.70	2,880.26	2,865.19	15.07	191.174		
2,900.00	2,895.99	3,437.08	3,422.83	10.15	12.29	-172.56	-370.64	-2,734.66	2,875.62	2,860.04	15.57	184.631		
3,000.00	2,995.13	3,536.72	3,520.54	10.53	12.70	-172.42	-359.52	-2,718.61	2,871.00	2,854.91	16.09	178.473		
3,100.00	3,094.27	3,636.36	3,618.25	10.90	13.12	-172.28	-348.39	-2,702.57	2,866.39	2,849.79	16.60	172.672		
3,200.00	3,193.41	3,736.00	3,715.95	11.28	13.54	-172.13	-337.27	-2,686.52	2,861.80	2,844.68	17.12	167.198		
3,300.00	3,292.55	3,835.64	3,813.66	11.67	13.96	-171.99	-326.14	-2,670.48	2,857.23	2,839.60	17.63	162.027		
3,400.00	3,391.69	3,935.28	3,911.37	12.05	14.39	-171.85	-315.02	-2,654.43	2,852.68	2,834.52	18.15	157.136		
3,500.00	3,490.83	4,034.92	4,009.07	12.44	14.82	-171.70	-303.89	-2,638.39	2,848.14	2,829.47	18.68	152.504		
3,600.00	3,589.97	4,134.56	4,106.78	12.82	15.25	-171.56	-292.77	-2,622.34	2,843.63	2,824.43	19.20	148.112		
3,700.00	3,689.11	4,234.19	4,204.49	13.21	15.68	-171.41	-281.64	-2,606.30	2,839.13	2,819.41	19.72	143.942		
3,800.00	3,788.25	4,333.83	4,302.20	13.60	16.12	-171.27	-270.52	-2,590.25	2,834.65	2,814.40	20.25	139.980		
3,900.00	3,887.39	4,433.47	4,399.90	13.99	16.55	-171.12	-259.40	-2,574.21	2,830.19	2,809.41	20.78	136.210		
4,000.00	3,986.53	4,533.11	4,497.61	14.39	16.99	-170.97	-248.27	-2,558.16	2,825.75	2,804.44	21.31	132.620		
4,100.00	4,085.67	4,632.75	4,595.32	14.78	17.44	-170.83	-237.15	-2,542.12	2,821.32	2,799.48	21.84	129.197		
4,200.00	4,184.81	4,732.39	4,693.03	15.18	17.88	-170.68	-226.02	-2,526.07	2,816.92	2,794.55	22.37	125.930		
4,300.00	4,283.95	4,832.03	4,790.73	15.57	18.32	-170.53	-214.90	-2,510.03	2,812.53	2,789.63	22.90	122.810		
4,400.00	4,383.09	4,931.67	4,888.44	15.97	18.77	-170.38	-203.77	-2,493.98	2,808.16	2,784.73	23.44	119.827		
4,500.00	4,482.23	5,031.30	4,986.15	16.37	19.22	-170.24	-192.65	-2,477.94	2,803.81	2,779.84	23.97	116.973		
4,600.00	4,581.37	5,130.94	5,083.85	16.77	19.66	-170.09	-181.52	-2,461.89	2,799.48	2,774.98	24.51	114.240		
4,700.00	4,680.51	5,230.58	5,181.56	17.17	20.11	-169.94	-170.40	-2,445.85	2,795.17	2,770.13	25.04	111.619		
4,800.00	4,779.65	5,330.22	5,279.27	17.57	20.56	-169.79	-159.28	-2,429.80	2,790.88	2,765.30	25.58	109.106		
4,900.00	4,878.79	5,429.86	5,376.98	17.97	21.01	-169.64	-148.15	-2,413.76	2,786.61	2,760.49	26.12	106.693		
5,000.00	4,977.93	5,529.50	5,474.68	18.37	21.47	-169.49	-137.03	-2,397.71	2,782.35	2,755.69	26.66	104.375		
5,100.00	5,077.07	5,629.14	5,572.39	18.77	21.92	-169.33	-125.90	-2,381.67	2,778.12	2,750.92	27.20	102.147		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		
5,200.00	5,176.21	5,728.78	5,670.10	19.17	22.37	-169.18	-114.78	-2,365.62	2,773.90	2,746.17	27.74	100.003		
5,300.00	5,275.35	5,828.41	5,767.80	19.57	22.83	-169.03	-103.65	-2,349.58	2,769.71	2,741.43	28.28	97.939		
5,400.00	5,374.49	5,928.05	5,865.51	19.98	23.28	-168.88	-92.53	-2,333.53	2,765.53	2,736.71	28.82	95.950		
5,500.00	5,473.63	6,027.69	5,963.22	20.38	23.74	-168.72	-81.40	-2,317.49	2,761.38	2,732.01	29.37	94.034		
5,600.00	5,572.77	6,127.33	6,060.93	20.78	24.20	-168.57	-70.28	-2,301.44	2,757.24	2,727.33	29.91	92.185		
5,700.00	5,671.91	6,226.97	6,158.63	21.19	24.65	-168.42	-59.16	-2,285.40	2,753.13	2,722.67	30.45	90.401		
5,800.00	5,771.05	6,326.61	6,256.34	21.59	25.11	-168.26	-48.03	-2,269.35	2,749.03	2,718.03	31.00	88.678		
5,900.00	5,870.19	6,426.25	6,354.05	22.00	25.57	-168.11	-36.91	-2,253.31	2,744.96	2,713.41	31.55	87.013		
6,000.00	5,969.33	6,525.89	6,451.75	22.40	26.03	-167.95	-25.78	-2,237.26	2,740.90	2,708.81	32.09	85.404		
6,100.00	6,068.47	6,625.52	6,549.46	22.81	26.49	-167.79	-14.66	-2,221.22	2,736.87	2,704.23	32.64	83.848		
6,200.00	6,167.61	6,725.16	6,647.17	23.22	26.95	-167.64	-3.53	-2,205.17	2,732.86	2,699.67	33.19	82.342		
6,300.00	6,266.75	6,824.80	6,744.88	23.62	27.41	-167.48	7.59	-2,189.13	2,728.86	2,695.12	33.74	80.884		
6,400.00	6,365.89	6,900.00	6,818.67	24.03	27.75	-167.37	15.84	-2,177.23	2,725.22	2,690.99	34.23	79.615		
6,500.00	6,465.03	6,960.30	6,878.01	24.44	28.02	-167.28	21.91	-2,168.48	2,722.92	2,688.24	34.68	78.516		
6,600.00	6,564.17	7,022.47	6,939.38	24.84	28.29	-167.21	27.61	-2,160.26	2,722.01	2,686.88	35.13	77.490		
6,615.49	6,579.53	7,032.11	6,948.91	24.91	28.33	-167.20	28.44	-2,159.06	2,721.99	2,686.79	35.20	77.339 CC		
6,700.00	6,663.31	7,100.00	7,016.11	25.25	28.62	-167.13	33.91	-2,151.17	2,722.55	2,686.95	35.61	76.462		
6,800.00	6,762.45	7,146.97	7,062.71	25.66	28.81	-167.09	37.30	-2,146.28	2,724.35	2,688.36	36.00	75.682		
6,856.14	6,818.11	7,200.00	7,115.39	25.89	29.02	-167.06	40.73	-2,141.33	2,726.10	2,689.82	36.29	75.128		
6,900.00	6,861.62	7,200.00	7,115.39	26.06	29.02	-167.06	40.73	-2,141.33	2,727.39	2,690.99	36.39	74.939		
7,000.00	6,961.05	7,271.51	7,186.56	26.46	29.29	-167.03	44.70	-2,135.61	2,729.60	2,692.77	36.83	74.107		
7,100.00	7,060.72	7,333.80	7,248.64	26.84	29.53	-167.00	47.54	-2,131.51	2,730.67	2,693.44	37.24	73.335		
7,200.00	7,160.57	7,400.00	7,314.72	27.20	29.77	-166.97	49.92	-2,128.08	2,730.58	2,692.94	37.64	72.544		
7,300.00	7,260.53	7,458.42	7,373.07	27.55	29.96	-166.94	51.48	-2,125.82	2,729.31	2,691.30	38.01	71.808		
7,357.47	7,318.00	7,500.00	7,414.63	27.74	30.11	-92.39	52.28	-2,124.67	2,728.06	2,689.82	38.24	71.339		
7,400.00	7,360.53	7,520.76	7,435.38	27.88	30.17	-92.38	52.59	-2,124.23	2,727.10	2,688.73	38.38	71.062		
7,500.00	7,460.53	7,583.14	7,497.75	28.21	30.37	-92.37	53.11	-2,123.47	2,725.86	2,687.12	38.73	70.374		
7,555.99	7,516.52	7,623.91	7,538.52	28.39	30.50	-92.37	53.16	-2,123.41	2,725.74	2,686.79	38.95	69.979		
7,600.00	7,560.53	7,667.92	7,582.53	28.54	30.64	-92.37	53.16	-2,123.41	2,725.74	2,686.58	39.16	69.603		
7,700.00	7,660.53	7,767.92	7,682.53	28.87	30.95	-92.37	53.16	-2,123.41	2,725.74	2,686.10	39.64	68.762		
7,800.00	7,760.53	7,867.92	7,782.53	29.20	31.26	-92.37	53.16	-2,123.41	2,725.74	2,685.62	40.12	67.941		
7,900.00	7,860.53	7,967.92	7,882.53	29.53	31.58	-92.37	53.16	-2,123.41	2,725.74	2,685.14	40.60	67.138		
8,000.00	7,960.53	8,067.92	7,982.53	29.87	31.89	-92.37	53.16	-2,123.41	2,725.74	2,684.66	41.08	66.352		
8,011.91	7,972.44	8,079.83	7,994.44	29.91	31.93	-92.37	53.16	-2,123.41	2,725.74	2,684.60	41.14	66.260		
8,100.00	8,060.53	8,166.28	8,080.89	30.20	32.20	-92.37	53.06	-2,123.40	2,725.75	2,684.19	41.55	65.596		
8,200.00	8,160.53	8,250.00	8,164.18	30.53	32.42	-92.54	45.37	-2,123.33	2,726.06	2,684.12	41.94	64.996 ES		
8,300.00	8,260.53	8,334.11	8,245.84	30.87	32.60	-92.95	25.52	-2,123.13	2,727.00	2,684.72	42.28	64.495		
8,400.00	8,360.53	8,409.08	8,315.49	31.20	32.72	-93.53	-2.08	-2,122.86	2,728.87	2,686.31	42.56	64.114		
8,500.00	8,460.53	8,475.82	8,373.99	31.54	32.79	-94.20	-34.11	-2,122.55	2,732.05	2,689.26	42.79	63.841		
8,600.00	8,560.53	8,534.09	8,421.73	31.88	32.83	-94.90	-67.47	-2,122.22	2,736.95	2,693.96	42.98	63.674		
8,700.00	8,660.53	8,584.43	8,460.06	32.21	32.85	-95.58	-100.07	-2,121.90	2,743.91	2,700.78	43.13	63.617		
8,800.00	8,760.53	8,627.71	8,490.63	32.55	32.85	-96.22	-130.71	-2,121.60	2,753.25	2,710.01	43.24	63.671		
8,900.00	8,860.53	8,664.92	8,515.00	32.89	32.85	-96.81	-158.82	-2,121.33	2,765.18	2,721.87	43.31	63.840		
9,000.00	8,960.53	8,700.00	8,536.25	33.23	32.84	-97.39	-186.72	-2,121.06	2,779.88	2,736.52	43.35	64.120		
9,100.00	9,060.53	8,724.79	8,550.22	33.56	32.83	-97.81	-207.20	-2,120.86	2,797.44	2,754.10	43.35	64.537		
9,200.00	9,160.53	8,750.00	8,563.50	33.90	32.81	-98.25	-228.62	-2,120.65	2,817.95	2,774.64	43.31	65.061		
9,300.00	9,260.53	8,770.14	8,573.43	34.24	32.80	-98.61	-246.14	-2,120.47	2,841.42	2,798.18	43.24	65.710		
9,400.00	9,360.53	8,800.00	8,587.00	34.58	32.78	-99.16	-272.73	-2,120.21	2,867.91	2,824.74	43.17	66.435		
9,500.00	9,460.53	8,800.00	8,587.00	34.92	32.78	-99.16	-272.73	-2,120.21	2,897.24	2,854.24	43.00	67.372		
9,600.00	9,560.53	8,819.96	8,595.29	35.26	32.76	-99.53	-290.89	-2,120.04	2,929.50	2,886.64	42.87	68.339		
9,700.00	9,660.53	8,833.10	8,600.40	35.60	32.75	-99.78	-302.99	-2,119.92	2,964.61	2,921.91	42.70	69.436		
9,800.00	9,760.53	8,850.00	8,606.56	35.94	32.74	-100.11	-318.73	-2,119.76	3,002.49	2,959.97	42.52	70.615		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		
9,900.00	9,860.53	8,850.00	8,606.56	36.29	32.74	-100.11	-318.73	-2,119.76	3,043.05	3,000.76	42.29	71.958		
10,000.00	9,960.53	8,850.00	8,606.56	36.63	32.74	-100.11	-318.73	-2,119.76	3,086.32	3,044.27	42.05	73.395		
10,100.00	10,060.53	8,874.08	8,614.54	36.97	32.72	-100.57	-341.45	-2,119.54	3,131.84	3,089.97	41.87	74.802		
10,200.00	10,160.53	8,900.00	8,622.05	37.31	32.70	-101.07	-366.25	-2,119.30	3,180.09	3,138.41	41.68	76.289		
10,300.00	10,260.53	8,900.00	8,622.05	37.65	32.70	-101.07	-366.25	-2,119.30	3,230.34	3,188.90	41.44	77.957		
10,400.00	10,360.53	8,900.00	8,622.05	38.00	32.70	-101.07	-366.25	-2,119.30	3,282.86	3,241.67	41.19	79.696		
10,500.00	10,460.53	8,900.00	8,622.05	38.34	32.70	-101.07	-366.25	-2,119.30	3,337.55	3,296.60	40.95	81.501		
10,600.00	10,560.53	8,900.00	8,622.05	38.68	32.70	-101.07	-366.25	-2,119.30	3,394.31	3,353.60	40.72	83.365		
10,700.00	10,660.53	8,900.00	8,622.05	39.03	32.70	-101.07	-366.25	-2,119.30	3,453.04	3,412.55	40.49	85.283		
10,800.00	10,760.53	8,900.00	8,622.05	39.37	32.70	-101.07	-366.25	-2,119.30	3,513.63	3,473.35	40.27	87.247		
10,900.00	10,860.53	8,923.53	8,627.88	39.72	32.68	-101.54	-389.04	-2,119.07	3,575.59	3,535.47	40.12	89.119		
11,000.00	10,960.53	8,927.91	8,628.87	40.06	32.67	-101.62	-393.31	-2,119.03	3,639.46	3,599.53	39.94	91.131		
11,100.00	11,060.53	8,950.00	8,633.33	40.41	32.66	-102.06	-414.94	-2,118.82	3,705.14	3,665.34	39.80	93.088		
11,200.00	11,160.53	8,950.00	8,633.33	40.75	32.66	-102.06	-414.94	-2,118.82	3,771.99	3,732.36	39.63	95.169		
11,300.00	11,260.53	8,950.00	8,633.33	41.10	32.66	-102.06	-414.94	-2,118.82	3,840.28	3,800.80	39.48	97.269		
11,400.00	11,360.53	8,950.00	8,633.33	41.44	32.66	-102.06	-414.94	-2,118.82	3,909.94	3,870.59	39.34	99.382		
11,500.00	11,460.53	8,950.00	8,633.33	41.79	32.66	-102.06	-414.94	-2,118.82	3,980.88	3,941.67	39.22	101.503		
11,600.00	11,560.53	8,950.00	8,633.33	42.13	32.66	-102.06	-414.94	-2,118.82	4,053.06	4,013.95	39.11	103.626		
11,700.00	11,660.53	8,950.00	8,633.33	42.48	32.66	-102.06	-414.94	-2,118.82	4,126.39	4,087.37	39.02	105.747		
11,800.00	11,760.53	8,950.00	8,633.33	42.83	32.66	-102.06	-414.94	-2,118.82	4,200.83	4,161.88	38.95	107.862		
11,846.51	11,807.04	8,950.00	8,633.33	42.99	32.66	-102.06	-414.94	-2,118.82	4,235.81	4,196.89	38.92	108.842		
11,850.00	11,810.53	8,950.00	8,633.33	43.00	32.66	84.44	-414.94	-2,118.82	4,238.44	4,199.53	38.91	108.916		
11,900.00	11,860.45	8,950.00	8,633.33	43.16	32.66	78.78	-414.94	-2,118.82	4,276.10	4,237.22	38.88	109.981		
11,950.00	11,909.97	8,950.00	8,633.33	43.31	32.66	73.32	-414.94	-2,118.82	4,313.46	4,274.61	38.85	111.036		
12,000.00	11,958.70	8,950.00	8,633.33	43.46	32.66	68.20	-414.94	-2,118.82	4,350.24	4,311.42	38.82	112.073		
12,050.00	12,006.28	8,950.00	8,633.33	43.61	32.66	63.48	-414.94	-2,118.82	4,386.18	4,347.39	38.79	113.085		
12,100.00	12,052.34	8,950.00	8,633.33	43.75	32.66	59.22	-414.94	-2,118.82	4,421.03	4,382.27	38.76	114.066		
12,150.00	12,096.54	8,973.75	8,637.19	43.87	32.64	55.19	-438.37	-2,118.59	4,454.10	4,415.33	38.77	114.877		
12,200.00	12,138.53	8,978.28	8,637.81	43.99	32.63	51.84	-442.86	-2,118.55	4,485.89	4,447.13	38.76	115.748		
12,250.00	12,178.00	9,000.00	8,640.32	44.10	32.62	48.80	-464.43	-2,118.34	4,516.09	4,477.33	38.77	116.496		
12,300.00	12,214.64	9,000.00	8,640.32	44.21	32.62	46.32	-464.43	-2,118.34	4,543.94	4,505.19	38.75	117.268		
12,350.00	12,248.19	9,000.00	8,640.32	44.30	32.62	44.19	-464.43	-2,118.34	4,569.64	4,530.90	38.74	117.969		
12,400.00	12,278.37	9,000.00	8,640.32	44.39	32.62	42.38	-464.43	-2,118.34	4,593.03	4,554.30	38.73	118.590		
12,450.00	12,304.97	9,000.00	8,640.32	44.48	32.62	40.85	-464.43	-2,118.34	4,613.97	4,575.24	38.73	119.123		
12,500.00	12,327.78	9,000.00	8,640.32	44.58	32.62	39.57	-464.43	-2,118.34	4,632.34	4,593.59	38.75	119.559		
12,550.00	12,346.63	9,000.00	8,640.32	44.68	32.62	38.53	-464.43	-2,118.34	4,648.02	4,609.25	38.77	119.893		
12,600.00	12,361.37	9,024.41	8,642.16	44.79	32.60	37.70	-488.77	-2,118.10	4,660.44	4,621.62	38.83	120.035		
12,650.00	12,371.89	9,050.00	8,642.97	44.91	32.59	37.09	-514.34	-2,117.85	4,670.50	4,631.61	38.89	120.092		
12,700.00	12,378.11	9,050.00	8,642.97	45.04	32.59	36.69	-514.34	-2,117.85	4,677.12	4,638.17	38.95	120.082		
12,746.51	12,380.00	9,050.00	8,642.97	45.17	32.59	36.48	-514.34	-2,117.85	4,680.63	4,641.61	39.02	119.964		
12,800.00	12,380.00	9,050.00	8,642.97	45.34	32.59	36.53	-514.34	-2,117.85	4,683.20	4,644.09	39.11	119.753		
12,900.00	12,380.00	9,118.69	8,643.00	45.69	32.59	36.64	-583.03	-2,117.17	4,687.52	4,648.18	39.33	119.170		
13,000.00	12,380.00	9,218.61	8,643.00	46.08	32.67	36.72	-682.95	-2,116.20	4,689.89	4,650.26	39.62	118.362		
13,063.21	12,380.00	9,281.81	8,643.00	46.35	32.80	36.73	-746.15	-2,115.58	4,690.31	4,650.48	39.83	117.756		
13,100.00	12,380.00	9,318.60	8,643.00	46.52	32.90	36.73	-782.94	-2,115.22	4,690.31	4,650.35	39.96	117.371		
13,200.00	12,380.00	9,418.60	8,643.00	47.00	33.27	36.73	-882.93	-2,114.24	4,690.31	4,649.95	40.36	116.208		
13,300.00	12,380.00	9,518.60	8,643.00	47.54	33.74	36.73	-982.93	-2,113.26	4,690.32	4,649.49	40.82	114.891		
13,400.00	12,380.00	9,618.60	8,643.00	48.13	34.31	36.73	-1,082.92	-2,112.28	4,690.32	4,648.98	41.35	113.436		
13,500.00	12,380.00	9,718.60	8,643.00	48.77	34.94	36.73	-1,182.92	-2,111.30	4,690.33	4,648.40	41.93	111.861		
13,600.00	12,380.00	9,818.60	8,643.00	49.45	35.65	36.73	-1,282.91	-2,110.32	4,690.33	4,647.77	42.57	110.184		
13,700.00	12,380.00	9,918.60	8,643.00	50.18	36.42	36.73	-1,382.91	-2,109.34	4,690.34	4,647.08	43.26	108.422		
13,800.00	12,380.00	10,018.60	8,643.00	50.95	37.24	36.73	-1,482.90	-2,108.36	4,690.34	4,646.34	44.00	106.591		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		PF Fed Com - PF Fed Com 102H - OH - Plan #1											Offset Site Error: 0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	12,380.00	10,118.60	8,643.00	51.77	38.12	36.73	-1,582.90	-2,107.38	4,690.35	4,645.55	44.79	104.708		
14,000.00	12,380.00	10,218.60	8,643.00	52.62	39.04	36.73	-1,682.89	-2,106.40	4,690.35	4,644.72	45.63	102.787		
14,100.00	12,380.00	10,318.60	8,643.00	53.51	40.01	36.73	-1,782.89	-2,105.42	4,690.36	4,643.85	46.51	100.840		
14,200.00	12,380.00	10,418.60	8,643.00	54.44	41.02	36.73	-1,882.88	-2,104.44	4,690.36	4,642.93	47.43	98.880		
14,300.00	12,380.00	10,518.60	8,643.00	55.40	42.08	36.73	-1,982.88	-2,103.46	4,690.37	4,641.98	48.39	96.920		
14,400.00	12,380.00	10,618.60	8,643.00	56.39	43.16	36.73	-2,082.87	-2,102.49	4,690.37	4,640.99	49.39	94.969		
14,500.00	12,380.00	10,718.60	8,643.00	57.41	44.29	36.73	-2,182.87	-2,101.51	4,690.38	4,639.96	50.42	93.031		
14,600.00	12,380.00	10,818.60	8,643.00	58.46	45.44	36.73	-2,282.86	-2,100.53	4,690.38	4,638.91	51.48	91.115		
14,700.00	12,380.00	10,918.60	8,643.00	59.54	46.63	36.73	-2,382.86	-2,099.55	4,690.39	4,637.82	52.57	89.224		
14,800.00	12,380.00	11,018.60	8,643.00	60.64	47.84	36.73	-2,482.85	-2,098.57	4,690.40	4,636.71	53.69	87.364		
14,900.00	12,380.00	11,118.60	8,643.00	61.77	49.07	36.73	-2,582.85	-2,097.59	4,690.40	4,635.57	54.83	85.537		
15,000.00	12,380.00	11,218.60	8,643.00	62.92	50.33	36.73	-2,682.84	-2,096.61	4,690.41	4,634.40	56.01	83.747		
15,100.00	12,380.00	11,318.60	8,643.00	64.09	51.61	36.73	-2,782.84	-2,095.63	4,690.41	4,633.21	57.20	81.997		
15,200.00	12,380.00	11,418.60	8,643.00	65.28	52.92	36.73	-2,882.83	-2,094.65	4,690.42	4,632.00	58.42	80.288		
15,300.00	12,380.00	11,518.60	8,643.00	66.50	54.24	36.73	-2,982.83	-2,093.67	4,690.42	4,630.76	59.66	78.621		
15,400.00	12,380.00	11,618.60	8,643.00	67.73	55.57	36.73	-3,082.82	-2,092.69	4,690.43	4,629.51	60.91	77.002		
15,500.00	12,380.00	11,718.60	8,643.00	68.98	56.93	36.73	-3,182.82	-2,091.71	4,690.43	4,628.25	62.19	75.427		
15,600.00	12,380.00	11,818.60	8,643.00	70.24	58.30	36.73	-3,282.82	-2,090.73	4,690.44	4,626.96	63.48	73.893		
15,700.00	12,380.00	11,918.60	8,643.00	71.52	59.68	36.73	-3,382.81	-2,089.75	4,690.44	4,625.66	64.78	72.401		
15,800.00	12,380.00	12,018.60	8,643.00	72.82	61.08	36.73	-3,482.81	-2,088.78	4,690.45	4,624.34	66.11	70.952		
15,900.00	12,380.00	12,118.60	8,643.00	74.13	62.49	36.73	-3,582.80	-2,087.80	4,690.45	4,623.01	67.44	69.548		
16,000.00	12,380.00	12,218.60	8,643.00	75.46	63.91	36.73	-3,682.80	-2,086.82	4,690.46	4,621.67	68.79	68.186		
16,100.00	12,380.00	12,318.60	8,643.00	76.79	65.34	36.73	-3,782.79	-2,085.84	4,690.46	4,620.31	70.15	66.864		
16,200.00	12,380.00	12,418.60	8,643.00	78.14	66.78	36.73	-3,882.79	-2,084.86	4,690.47	4,618.95	71.52	65.582		
16,300.00	12,380.00	12,518.60	8,643.00	79.50	68.23	36.73	-3,982.78	-2,083.88	4,690.47	4,617.57	72.90	64.338		
16,400.00	12,380.00	12,618.60	8,643.00	80.87	69.69	36.73	-4,082.78	-2,082.90	4,690.48	4,616.18	74.30	63.131		
16,500.00	12,380.00	12,718.60	8,643.00	82.25	71.15	36.74	-4,182.77	-2,081.92	4,690.48	4,614.78	75.70	61.959		
16,600.00	12,380.00	12,818.60	8,643.00	83.64	72.63	36.74	-4,282.77	-2,080.94	4,690.49	4,613.37	77.12	60.823		
16,700.00	12,380.00	12,918.60	8,643.00	85.04	74.11	36.74	-4,382.76	-2,079.96	4,690.49	4,611.95	78.54	59.721		
16,800.00	12,380.00	13,018.60	8,643.00	86.45	75.60	36.74	-4,482.76	-2,078.98	4,690.50	4,610.53	79.97	58.652		
16,900.00	12,380.00	13,118.60	8,643.00	87.87	77.10	36.74	-4,582.75	-2,078.00	4,690.50	4,609.10	81.41	57.618		
17,000.00	12,380.00	13,218.60	8,643.00	89.30	78.60	36.74	-4,682.75	-2,077.02	4,690.51	4,607.66	82.85	56.614		
17,100.00	12,380.00	13,318.60	8,643.00	90.73	80.11	36.74	-4,782.74	-2,076.04	4,690.51	4,606.21	84.30	55.640		
17,200.00	12,380.00	13,418.60	8,643.00	92.17	81.62	36.74	-4,882.74	-2,075.06	4,690.52	4,604.76	85.76	54.694		
17,300.00	12,380.00	13,518.60	8,643.00	93.62	83.14	36.74	-4,982.73	-2,074.09	4,690.52	4,603.30	87.22	53.776		
17,400.00	12,380.00	13,618.60	8,643.00	95.07	84.67	36.74	-5,082.73	-2,073.11	4,690.53	4,601.83	88.69	52.884		
17,500.00	12,380.00	13,718.60	8,643.00	96.53	86.19	36.74	-5,182.72	-2,072.13	4,690.53	4,600.36	90.17	52.019		
17,600.00	12,380.00	13,818.60	8,643.00	98.00	87.73	36.74	-5,282.72	-2,071.15	4,690.54	4,598.89	91.65	51.178		
17,700.00	12,380.00	13,918.60	8,643.00	99.47	89.26	36.74	-5,382.71	-2,070.17	4,690.54	4,597.41	93.14	50.361		
17,800.00	12,380.00	14,018.60	8,643.00	100.95	90.81	36.74	-5,482.71	-2,069.19	4,690.55	4,595.92	94.63	49.567		
17,900.00	12,380.00	14,118.60	8,643.00	102.43	92.35	36.74	-5,582.71	-2,068.21	4,690.55	4,594.43	96.13	48.795		
18,000.00	12,380.00	14,218.60	8,643.00	103.92	93.90	36.74	-5,682.70	-2,067.23	4,690.56	4,592.93	97.63	48.044		
18,100.00	12,380.00	14,318.60	8,643.00	105.41	95.45	36.74	-5,782.70	-2,066.25	4,690.56	4,591.43	99.13	47.316		
18,200.00	12,380.00	14,418.60	8,643.00	106.91	97.01	36.74	-5,882.69	-2,065.27	4,690.57	4,589.93	100.64	46.608		
18,300.00	12,380.00	14,518.60	8,643.00	108.41	98.56	36.74	-5,982.69	-2,064.29	4,690.58	4,588.43	102.15	45.919		
18,400.00	12,380.00	14,618.60	8,643.00	109.92	100.13	36.74	-6,082.68	-2,063.31	4,690.58	4,586.92	103.66	45.248		
18,500.00	12,380.00	14,718.60	8,643.00	111.43	101.69	36.74	-6,182.68	-2,062.33	4,690.59	4,585.40	105.18	44.594		
18,600.00	12,380.00	14,818.60	8,643.00	112.94	103.26	36.74	-6,282.67	-2,061.35	4,690.59	4,583.88	106.71	43.958		
18,700.00	12,380.00	14,918.60	8,643.00	114.46	104.83	36.74	-6,382.67	-2,060.37	4,690.60	4,582.36	108.23	43.338		
18,800.00	12,380.00	15,018.60	8,643.00	115.98	106.40	36.74	-6,482.66	-2,059.40	4,690.60	4,580.84	109.76	42.735		
18,900.00	12,380.00	15,118.60	8,643.00	117.51	107.97	36.74	-6,582.66	-2,058.42	4,690.61	4,579.31	111.29	42.146		
19,000.00	12,380.00	15,218.60	8,643.00	119.04	109.55	36.74	-6,682.65	-2,057.44	4,690.61	4,577.79	112.82	41.574		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design PF Fed Com - PF Fed Com 102H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
							+N/-S (usft)	+E/-W (usft)						
19,100.00	12,380.00	15,318.60	8,643.00	120.57	111.13	36.74	-6,782.65	-2,056.46	4,690.62	4,576.26	114.36	41.017		
19,200.00	12,380.00	15,418.60	8,643.00	122.11	112.71	36.74	-6,882.64	-2,055.48	4,690.62	4,574.73	115.90	40.473		
19,300.00	12,380.00	15,518.60	8,643.00	123.64	114.29	36.74	-6,982.64	-2,054.50	4,690.63	4,573.19	117.44	39.941		
19,400.00	12,380.00	15,618.60	8,643.00	125.18	115.87	36.74	-7,082.63	-2,053.52	4,690.63	4,571.65	118.98	39.423		
19,500.00	12,380.00	15,718.60	8,643.00	126.73	117.46	36.74	-7,182.63	-2,052.54	4,690.64	4,570.11	120.53	38.917		
19,600.00	12,380.00	15,818.60	8,643.00	128.27	119.05	36.74	-7,282.62	-2,051.56	4,690.64	4,568.57	122.07	38.425		
19,700.00	12,380.00	15,918.60	8,643.00	129.82	120.64	36.74	-7,382.62	-2,050.58	4,690.65	4,567.03	123.62	37.944		
19,800.00	12,380.00	16,018.60	8,643.00	131.38	122.23	36.74	-7,482.61	-2,049.60	4,690.65	4,565.48	125.17	37.474		
19,900.00	12,380.00	16,118.60	8,643.00	132.93	123.82	36.74	-7,582.61	-2,048.62	4,690.66	4,563.93	126.72	37.015		
20,000.00	12,380.00	16,218.60	8,643.00	134.49	125.42	36.74	-7,682.60	-2,047.64	4,690.66	4,562.39	128.28	36.567		
20,100.00	12,380.00	16,318.60	8,643.00	136.04	127.01	36.74	-7,782.60	-2,046.66	4,690.67	4,560.83	129.83	36.128		
20,200.00	12,380.00	16,418.60	8,643.00	137.61	128.61	36.74	-7,882.59	-2,045.68	4,690.67	4,559.28	131.39	35.700		
20,300.00	12,380.00	16,518.60	8,643.00	139.17	130.21	36.74	-7,982.59	-2,044.71	4,690.68	4,557.72	132.95	35.281		
20,400.00	12,380.00	16,618.60	8,643.00	140.73	131.81	36.74	-8,082.59	-2,043.73	4,690.68	4,556.17	134.51	34.872		
20,500.00	12,380.00	16,718.60	8,643.00	142.30	133.41	36.74	-8,182.58	-2,042.75	4,690.69	4,554.62	136.07	34.472		
20,600.00	12,380.00	16,818.60	8,643.00	143.87	135.01	36.74	-8,282.58	-2,041.77	4,690.69	4,553.06	137.63	34.081		
20,700.00	12,380.00	16,918.60	8,643.00	145.44	136.62	36.74	-8,382.57	-2,040.79	4,690.70	4,551.50	139.20	33.698		
20,800.00	12,380.00	17,018.60	8,643.00	147.01	138.22	36.74	-8,482.57	-2,039.81	4,690.70	4,549.94	140.76	33.323		
20,900.00	12,380.00	17,118.60	8,643.00	148.59	139.83	36.74	-8,582.56	-2,038.83	4,690.71	4,548.38	142.33	32.957		
21,000.00	12,380.00	17,218.60	8,643.00	150.16	141.44	36.74	-8,682.56	-2,037.85	4,690.71	4,546.82	143.90	32.598		
21,100.00	12,380.00	17,318.60	8,643.00	151.74	143.04	36.74	-8,782.55	-2,036.87	4,690.72	4,545.25	145.47	32.246		
21,200.00	12,380.00	17,418.60	8,643.00	153.32	144.65	36.74	-8,882.55	-2,035.89	4,690.72	4,543.69	147.04	31.902		
21,300.00	12,380.00	17,518.60	8,643.00	154.90	146.26	36.74	-8,982.54	-2,034.91	4,690.73	4,542.12	148.61	31.564		
21,400.00	12,380.00	17,618.60	8,643.00	156.48	147.87	36.74	-9,082.54	-2,033.93	4,690.73	4,540.55	150.18	31.234		
21,500.00	12,380.00	17,718.60	8,643.00	158.06	149.48	36.74	-9,182.53	-2,032.95	4,690.74	4,538.99	151.75	30.910		
21,600.00	12,380.00	17,818.60	8,643.00	159.65	151.10	36.74	-9,282.53	-2,031.97	4,690.74	4,537.42	153.32	30.594		
21,700.00	12,380.00	17,918.60	8,643.00	161.23	152.71	36.74	-9,382.52	-2,030.99	4,690.75	4,535.85	154.90	30.283		
21,800.00	12,380.00	18,018.60	8,643.00	162.82	154.32	36.74	-9,482.52	-2,030.02	4,690.75	4,534.28	156.47	29.978		
21,900.00	12,380.00	18,118.60	8,643.00	164.41	155.94	36.74	-9,582.51	-2,029.04	4,690.76	4,532.71	158.05	29.679		
22,000.00	12,380.00	18,218.60	8,643.00	166.00	157.56	36.74	-9,682.51	-2,028.06	4,690.77	4,531.14	159.62	29.386		
22,100.00	12,380.00	18,318.60	8,643.00	167.59	159.17	36.74	-9,782.50	-2,027.08	4,690.77	4,529.57	161.20	29.099		
22,200.00	12,380.00	18,418.60	8,643.00	169.18	160.79	36.74	-9,882.50	-2,026.10	4,690.78	4,527.99	162.78	28.816		
22,300.00	12,380.00	18,518.60	8,643.00	170.77	162.41	36.74	-9,982.49	-2,025.12	4,690.78	4,526.42	164.36	28.540		
22,400.00	12,380.00	18,618.60	8,643.00	172.37	164.02	36.74	-10,082.49	-2,024.14	4,690.79	4,524.85	165.94	28.268		
22,500.00	12,380.00	18,718.60	8,643.00	173.96	165.64	36.74	-10,182.48	-2,023.16	4,690.79	4,523.28	167.52	28.002		
22,547.76	12,380.00	18,766.36	8,643.00	174.73	166.42	36.74	-10,230.24	-2,022.69	4,690.79	4,522.52	168.27	27.877		
22,548.65	12,380.00	18,767.26	8,643.00	174.75	166.43	36.74	-10,231.14	-2,022.68	4,690.79	4,522.52	168.28	27.875 SF		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	22.00	22.00	0.00	0.03	-99.08	-467.31	-2,923.58	2,960.70					
100.00	100.00	122.00	122.00	0.13	0.20	-99.08	-467.31	-2,923.58	2,960.70	2,960.46	0.24	N/A		
200.00	200.00	222.00	222.00	0.48	0.56	-99.08	-467.31	-2,923.58	2,960.70	2,959.95	0.74	3,988.798		
300.00	300.00	322.00	322.00	0.84	0.92	-99.08	-467.31	-2,923.58	2,960.70	2,959.45	1.25	2,371.675		
400.00	400.00	422.00	422.00	1.20	1.28	-99.08	-467.31	-2,923.58	2,960.70	2,958.94	1.75	1,687.053		
500.00	500.00	522.00	522.00	1.56	1.64	-99.08	-467.31	-2,923.58	2,960.70	2,958.43	2.26	1,309.053		
600.00	600.00	622.00	622.00	1.92	2.00	-99.08	-467.31	-2,923.58	2,960.70	2,957.93	2.77	1,069.408		
700.00	700.00	722.00	722.00	2.28	2.36	-99.08	-467.31	-2,923.58	2,960.70	2,957.42	3.28	903.917		
800.00	800.00	822.00	822.00	2.63	2.71	-99.08	-467.31	-2,923.58	2,960.70	2,956.91	3.78	782.777		
900.00	900.00	922.00	922.00	2.99	3.07	-99.08	-467.31	-2,923.58	2,960.70	2,956.41	4.29	690.267		
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-99.08	-467.31	-2,923.58	2,960.70	2,955.90	4.80	617.311		
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-99.08	-467.31	-2,923.58	2,960.70	2,955.39	5.30	558.301		
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-99.08	-467.31	-2,923.58	2,960.70	2,954.89	5.81	509.588		
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-99.08	-467.31	-2,923.58	2,960.70	2,954.38	6.32	468.694		
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-99.08	-467.31	-2,923.58	2,960.70	2,953.87	6.82	433.875		
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-99.08	-467.31	-2,923.58	2,960.70	2,953.37	7.33	403.872		
1,600.00	1,600.00	1,622.00	1,622.00	5.50	5.58	-99.08	-467.31	-2,923.58	2,960.70	2,952.86	7.84	377.749		
1,700.00	1,700.00	1,722.00	1,722.00	5.86	5.94	-99.08	-467.31	-2,923.58	2,960.70	2,952.35	8.34	354.801		
1,800.00	1,800.00	1,822.00	1,822.00	6.22	6.30	-99.08	-467.31	-2,923.58	2,960.70	2,951.84	8.85	334.481		
1,900.00	1,900.00	1,922.00	1,922.00	6.58	6.66	-99.08	-467.31	-2,923.58	2,960.70	2,951.34	9.36	316.362		
2,000.00	2,000.00	2,022.00	2,022.00	6.94	7.02	-99.08	-467.31	-2,923.58	2,960.70	2,950.83	9.87	300.106		
2,007.27	2,007.27	2,029.27	2,029.27	6.96	7.04	-99.08	-467.31	-2,923.58	2,960.70	2,950.79	9.90	298.990 CC		
2,100.00	2,100.00	2,116.60	2,116.60	7.29	7.35	-99.08	-467.28	-2,923.60	2,960.72	2,950.36	10.36	285.825 ES		
2,200.00	2,199.99	2,200.00	2,199.99	7.65	7.65	-173.59	-466.22	-2,924.31	2,962.63	2,951.81	10.82	273.879		
2,300.00	2,299.91	2,267.32	2,267.27	7.99	7.89	-173.55	-464.27	-2,925.63	2,967.94	2,956.71	11.23	264.286		
2,400.00	2,399.69	2,342.29	2,342.13	8.34	8.16	-173.47	-460.93	-2,927.87	2,976.69	2,965.03	11.66	255.242		
2,500.00	2,499.27	2,416.81	2,416.45	8.70	8.43	-173.37	-456.41	-2,930.90	2,988.85	2,976.76	12.09	247.156		
2,601.33	2,599.89	2,500.00	2,499.27	9.06	8.72	-173.23	-449.93	-2,935.25	3,004.66	2,992.11	12.55	239.428		
2,700.00	2,697.71	2,564.10	2,562.96	9.42	8.95	-173.12	-443.93	-2,939.28	3,022.12	3,009.17	12.95	233.387		
2,800.00	2,796.85	2,637.00	2,635.24	9.78	9.22	-172.98	-436.02	-2,944.59	3,040.66	3,027.28	13.37	227.343		
2,900.00	2,895.99	2,720.97	2,718.28	10.15	9.53	-172.79	-425.71	-2,951.51	3,059.95	3,046.12	13.83	221.213		
3,000.00	2,995.13	2,818.37	2,814.57	10.53	9.89	-172.57	-413.55	-2,959.66	3,079.40	3,065.07	14.33	214.880		
3,100.00	3,094.27	2,915.76	2,910.86	10.90	10.26	-172.35	-401.40	-2,967.82	3,098.90	3,084.07	14.83	208.929		
3,200.00	3,193.41	3,013.16	3,007.15	11.28	10.63	-172.14	-389.25	-2,975.97	3,118.44	3,103.10	15.34	203.333		
3,300.00	3,292.55	3,110.55	3,103.44	11.67	11.00	-171.92	-377.10	-2,984.13	3,138.02	3,122.18	15.84	198.064		
3,400.00	3,391.69	3,207.94	3,199.72	12.05	11.38	-171.71	-364.95	-2,992.28	3,157.64	3,141.29	16.35	193.096		
3,500.00	3,490.83	3,305.34	3,296.01	12.44	11.76	-171.51	-352.80	-3,000.44	3,177.31	3,160.44	16.86	188.407		
3,600.00	3,589.97	3,402.73	3,392.30	12.82	12.14	-171.30	-340.65	-3,008.59	3,197.01	3,179.63	17.38	183.976		
3,700.00	3,689.11	3,500.12	3,488.59	13.21	12.53	-171.10	-328.50	-3,016.75	3,216.75	3,198.86	17.89	179.784		
3,800.00	3,788.25	3,597.52	3,584.87	13.60	12.91	-170.90	-316.34	-3,024.90	3,236.53	3,218.12	18.41	175.814		
3,900.00	3,887.39	3,694.91	3,681.16	13.99	13.30	-170.70	-304.19	-3,033.06	3,256.35	3,237.43	18.93	172.049		
4,000.00	3,986.53	3,792.30	3,777.45	14.39	13.69	-170.51	-292.04	-3,041.21	3,276.21	3,256.76	19.45	168.475		
4,100.00	4,085.67	3,889.70	3,873.74	14.78	14.08	-170.32	-279.89	-3,049.37	3,296.10	3,276.14	19.97	165.080		
4,200.00	4,184.81	3,987.09	3,970.03	15.18	14.47	-170.13	-267.74	-3,057.52	3,316.03	3,295.54	20.49	161.850		
4,300.00	4,283.95	4,084.49	4,066.31	15.57	14.87	-169.94	-255.59	-3,065.68	3,335.99	3,314.98	21.01	158.774		
4,400.00	4,383.09	4,181.88	4,162.60	15.97	15.26	-169.75	-243.44	-3,073.83	3,355.99	3,334.46	21.53	155.843		
4,500.00	4,482.23	4,279.27	4,258.89	16.37	15.66	-169.57	-231.29	-3,081.99	3,376.03	3,353.97	22.06	153.046		
4,600.00	4,581.37	4,376.67	4,355.18	16.77	16.06	-169.39	-219.13	-3,090.14	3,396.09	3,373.51	22.58	150.376		
4,700.00	4,680.51	4,474.06	4,451.47	17.17	16.45	-169.21	-206.98	-3,098.30	3,416.19	3,393.08	23.11	147.824		
4,800.00	4,779.65	4,571.45	4,547.75	17.57	16.85	-169.03	-194.83	-3,106.45	3,436.32	3,412.68	23.64	145.382		
4,900.00	4,878.79	4,668.85	4,644.04	17.97	17.25	-168.85	-182.68	-3,114.61	3,456.48	3,432.32	24.16	143.045		
5,000.00	4,977.93	4,766.24	4,740.33	18.37	17.65	-168.68	-170.53	-3,122.77	3,476.68	3,451.98	24.69	140.805		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		
5,100.00	5,077.07	4,863.63	4,836.62	18.77	18.06	-168.51	-158.38	-3,130.92	3,496.90	3,471.68	25.22	138.657		
5,200.00	5,176.21	4,961.03	4,932.90	19.17	18.46	-168.34	-146.23	-3,139.08	3,517.15	3,491.41	25.75	136.596		
5,300.00	5,275.35	5,058.42	5,029.19	19.57	18.86	-168.17	-134.08	-3,147.23	3,537.44	3,511.16	26.28	134.617		
5,400.00	5,374.49	5,155.81	5,125.48	19.98	19.26	-168.01	-121.92	-3,155.39	3,557.75	3,530.94	26.81	132.714		
5,500.00	5,473.63	5,253.21	5,221.77	20.38	19.67	-167.84	-109.77	-3,163.54	3,578.09	3,550.75	27.34	130.885		
5,600.00	5,572.77	5,350.60	5,318.06	20.78	20.07	-167.68	-97.62	-3,171.70	3,598.46	3,570.59	27.87	129.124		
5,700.00	5,671.91	5,448.00	5,414.34	21.19	20.48	-167.52	-85.47	-3,179.85	3,618.86	3,590.46	28.40	127.429		
5,800.00	5,771.05	5,545.39	5,510.63	21.59	20.88	-167.36	-73.32	-3,188.01	3,639.28	3,610.35	28.93	125.795		
5,900.00	5,870.19	5,642.78	5,606.92	22.00	21.29	-167.21	-61.17	-3,196.16	3,659.73	3,630.27	29.46	124.220		
6,000.00	5,969.33	5,740.18	5,703.21	22.40	21.69	-167.05	-49.02	-3,204.32	3,680.20	3,650.21	29.99	122.700		
6,100.00	6,068.47	5,837.57	5,799.50	22.81	22.10	-166.90	-36.87	-3,212.47	3,700.71	3,670.18	30.53	121.233		
6,200.00	6,167.61	5,934.96	5,895.78	23.22	22.51	-166.75	-24.72	-3,220.63	3,721.23	3,690.18	31.06	119.815		
6,300.00	6,266.75	6,032.36	5,992.07	23.62	22.92	-166.60	-12.56	-3,228.78	3,741.79	3,710.19	31.59	118.446		
6,400.00	6,365.89	6,129.75	6,088.36	24.03	23.32	-166.45	-0.41	-3,236.94	3,762.36	3,730.24	32.12	117.122		
6,500.00	6,465.03	6,227.14	6,184.65	24.44	23.73	-166.30	11.74	-3,245.09	3,782.96	3,750.31	32.66	115.841		
6,600.00	6,564.17	6,324.54	6,280.93	24.84	24.14	-166.16	23.89	-3,253.25	3,803.59	3,770.40	33.19	114.601		
6,700.00	6,663.31	6,421.93	6,377.22	25.25	24.55	-166.01	36.04	-3,261.40	3,824.23	3,790.51	33.72	113.400		
6,800.00	6,762.45	6,519.32	6,473.51	25.66	24.96	-165.87	48.19	-3,269.56	3,844.90	3,810.65	34.26	112.237		
6,856.14	6,818.11	6,574.00	6,527.56	25.89	25.19	-165.79	55.01	-3,274.14	3,856.52	3,821.96	34.56	111.600		
6,900.00	6,861.62	6,616.76	6,569.84	26.06	25.37	-165.76	60.35	-3,277.72	3,865.36	3,830.57	34.79	111.103		
7,000.00	6,961.05	6,714.56	6,666.53	26.46	25.78	-165.68	72.55	-3,285.91	3,883.74	3,848.42	35.32	109.947		
7,100.00	7,060.72	6,812.72	6,763.57	26.84	26.19	-165.59	84.80	-3,294.13	3,899.65	3,863.79	35.86	108.758		
7,200.00	7,160.57	6,956.12	6,905.46	27.20	26.79	-165.41	102.00	-3,305.67	3,912.88	3,876.33	36.54	107.073		
7,300.00	7,260.53	7,182.90	7,131.07	27.55	27.67	-165.18	120.82	-3,318.30	3,921.07	3,883.60	37.48	104.631		
7,357.47	7,318.00	7,314.39	7,262.38	27.74	28.14	-90.58	126.63	-3,322.20	3,923.17	3,885.19	37.98	103.302		
7,400.00	7,360.53	7,411.95	7,359.90	27.88	28.48	-90.55	128.52	-3,323.47	3,923.71	3,885.38	38.33	102.358		
7,500.00	7,460.53	7,534.57	7,482.53	28.21	28.88	-90.54	128.69	-3,323.58	3,923.76	3,884.89	38.87	100.946		
7,600.00	7,560.53	7,634.57	7,582.53	28.54	29.21	-90.54	128.69	-3,323.58	3,923.76	3,884.41	39.35	99.718		
7,700.00	7,660.53	7,734.57	7,682.53	28.87	29.53	-90.54	128.69	-3,323.58	3,923.76	3,883.93	39.83	98.517		
7,800.00	7,760.53	7,834.57	7,782.53	29.20	29.86	-90.54	128.69	-3,323.58	3,923.76	3,883.45	40.31	97.343		
7,900.00	7,860.53	7,934.57	7,882.53	29.53	30.19	-90.54	128.69	-3,323.58	3,923.76	3,882.97	40.79	96.195		
8,000.00	7,960.53	8,034.57	7,982.53	29.87	30.52	-90.54	128.69	-3,323.58	3,923.76	3,882.49	41.27	95.073		
8,100.00	8,060.53	8,134.57	8,082.53	30.20	30.85	-90.54	128.69	-3,323.58	3,923.76	3,882.01	41.75	93.975		
8,200.00	8,160.53	8,234.57	8,182.53	30.53	31.19	-90.54	128.69	-3,323.58	3,923.76	3,881.53	42.24	92.901		
8,300.00	8,260.53	8,334.57	8,282.53	30.87	31.52	-90.54	128.69	-3,323.58	3,923.76	3,881.04	42.72	91.850		
8,400.00	8,360.53	8,434.57	8,382.53	31.20	31.85	-90.54	128.69	-3,323.58	3,923.76	3,880.56	43.20	90.821		
8,500.00	8,460.53	8,534.57	8,482.53	31.54	32.19	-90.54	128.69	-3,323.58	3,923.76	3,880.07	43.69	89.814		
8,600.00	8,560.53	8,634.57	8,582.53	31.88	32.52	-90.54	128.69	-3,323.58	3,923.76	3,879.59	44.17	88.828		
8,700.00	8,660.53	8,734.57	8,682.53	32.21	32.85	-90.54	128.69	-3,323.58	3,923.76	3,879.10	44.66	87.863		
8,800.00	8,760.53	8,834.57	8,782.53	32.55	33.19	-90.54	128.69	-3,323.58	3,923.76	3,878.62	45.14	86.917		
8,900.00	8,860.53	8,934.57	8,882.53	32.89	33.52	-90.54	128.69	-3,323.58	3,923.76	3,878.13	45.63	85.991		
9,000.00	8,960.53	9,034.57	8,982.53	33.23	33.86	-90.54	128.69	-3,323.58	3,923.76	3,877.64	46.12	85.083		
9,100.00	9,060.53	9,134.57	9,082.53	33.56	34.20	-90.54	128.69	-3,323.58	3,923.76	3,877.16	46.60	84.194		
9,200.00	9,160.53	9,234.57	9,182.53	33.90	34.53	-90.54	128.69	-3,323.58	3,923.76	3,876.67	47.09	83.322		
9,300.00	9,260.53	9,334.57	9,282.53	34.24	34.87	-90.54	128.69	-3,323.58	3,923.76	3,876.18	47.58	82.467		
9,400.00	9,360.53	9,434.57	9,382.53	34.58	35.21	-90.54	128.69	-3,323.58	3,923.76	3,875.69	48.07	81.629		
9,500.00	9,460.53	9,534.57	9,482.53	34.92	35.55	-90.54	128.69	-3,323.58	3,923.76	3,875.21	48.56	80.808		
9,600.00	9,560.53	9,634.57	9,582.53	35.26	35.88	-90.54	128.69	-3,323.58	3,923.76	3,874.72	49.05	80.002		
9,700.00	9,660.53	9,734.57	9,682.53	35.60	36.22	-90.54	128.69	-3,323.58	3,923.76	3,874.23	49.54	79.211		
9,800.00	9,760.53	9,834.57	9,782.53	35.94	36.56	-90.54	128.69	-3,323.58	3,923.76	3,873.74	50.03	78.436		
9,900.00	9,860.53	9,934.57	9,882.53	36.29	36.90	-90.54	128.69	-3,323.58	3,923.76	3,873.25	50.52	77.674		
10,000.00	9,960.53	10,034.57	9,982.53	36.63	37.24	-90.54	128.69	-3,323.58	3,923.76	3,872.76	51.01	76.927		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		
10,080.34	10,040.86	10,114.93	10,062.89	36.90	37.51	-90.55	128.44	-3,323.58	3,923.76	3,872.37	51.40	76.345		
10,100.00	10,060.53	10,134.59	10,082.52	36.97	37.57	-90.56	127.53	-3,323.57	3,923.76	3,872.28	51.49	76.211		
10,200.00	10,160.53	10,232.29	10,179.03	37.31	37.82	-90.77	113.04	-3,323.43	3,923.79	3,871.88	51.91	75.582		
10,300.00	10,260.53	10,322.71	10,264.95	37.65	38.00	-91.18	85.22	-3,323.16	3,924.03	3,871.74	52.29	75.039		
10,400.00	10,360.53	10,400.00	10,334.18	38.00	38.12	-91.68	50.97	-3,322.83	3,924.81	3,872.19	52.62	74.581		
10,500.00	10,460.53	10,471.56	10,393.62	38.34	38.19	-92.26	11.22	-3,322.44	3,926.50	3,873.57	52.92	74.191		
10,600.00	10,560.53	10,529.74	10,438.00	38.68	38.23	-92.81	-26.35	-3,322.07	3,929.44	3,876.25	53.19	73.872		
10,700.00	10,660.53	10,578.63	10,472.20	39.03	38.25	-93.32	-61.28	-3,321.73	3,933.94	3,880.50	53.44	73.620		
10,800.00	10,760.53	10,619.74	10,498.55	39.37	38.26	-93.78	-92.81	-3,321.42	3,940.20	3,886.55	53.66	73.435		
10,900.00	10,860.53	10,650.00	10,516.48	39.72	38.26	-94.13	-117.19	-3,321.19	3,948.40	3,894.56	53.85	73.324		
11,000.00	10,960.53	10,683.92	10,535.01	40.06	38.26	-94.54	-145.60	-3,320.91	3,958.65	3,904.62	54.03	73.271		
11,100.00	11,060.53	10,700.00	10,543.19	40.41	38.26	-94.74	-159.43	-3,320.77	3,971.05	3,916.88	54.17	73.306		
11,200.00	11,160.53	10,730.92	10,557.83	40.75	38.25	-95.14	-186.67	-3,320.51	3,985.60	3,931.29	54.31	73.383		
11,300.00	11,260.53	10,750.00	10,566.12	41.10	38.25	-95.39	-203.85	-3,320.34	4,002.39	3,947.96	54.42	73.541		
11,400.00	11,360.53	10,766.38	10,572.78	41.44	38.24	-95.61	-218.81	-3,320.19	4,021.40	3,966.89	54.51	73.767		
11,500.00	11,460.53	10,780.97	10,578.35	41.79	38.24	-95.80	-232.29	-3,320.06	4,042.66	3,988.07	54.59	74.059		
11,600.00	11,560.53	10,800.00	10,585.10	42.13	38.23	-96.06	-250.09	-3,319.89	4,066.15	4,011.50	54.65	74.409		
11,700.00	11,660.53	10,800.00	10,585.10	42.48	38.23	-96.06	-250.09	-3,319.89	4,091.82	4,037.16	54.66	74.853		
11,800.00	11,760.53	10,800.00	10,585.10	42.83	38.23	-96.06	-250.09	-3,319.89	4,119.77	4,065.10	54.67	75.358		
11,846.51	11,807.04	10,820.22	10,591.61	42.99	38.22	-96.34	-269.23	-3,319.70	4,133.37	4,078.67	54.69	75.573		
11,850.00	11,810.53	10,820.55	10,591.71	43.00	38.22	90.45	-269.54	-3,319.70	4,134.41	4,079.72	54.69	75.592		
11,900.00	11,860.45	10,825.79	10,593.29	43.16	38.22	88.78	-274.53	-3,319.65	4,149.68	4,095.00	54.69	75.883		
11,950.00	11,909.97	10,831.94	10,595.08	43.31	38.22	87.04	-280.42	-3,319.59	4,165.38	4,110.71	54.67	76.187		
12,000.00	11,958.70	10,850.00	10,599.97	43.46	38.21	85.14	-297.80	-3,319.42	4,181.42	4,126.75	54.67	76.481		
12,050.00	12,006.28	10,850.00	10,599.97	43.61	38.21	83.45	-297.80	-3,319.42	4,197.51	4,142.86	54.65	76.812		
12,100.00	12,052.34	10,850.00	10,599.97	43.75	38.21	81.75	-297.80	-3,319.42	4,213.66	4,159.05	54.62	77.149		
12,150.00	12,096.54	10,850.00	10,599.97	43.87	38.21	80.08	-297.80	-3,319.42	4,229.76	4,175.17	54.59	77.485		
12,200.00	12,138.53	10,873.54	10,605.51	43.99	38.20	78.22	-320.68	-3,319.20	4,245.42	4,190.83	54.59	77.769		
12,250.00	12,178.00	10,900.00	10,610.62	44.10	38.19	76.43	-346.64	-3,318.95	4,260.90	4,206.30	54.60	78.044		
12,300.00	12,214.64	10,900.00	10,610.62	44.21	38.19	74.93	-346.64	-3,318.95	4,275.62	4,221.04	54.57	78.344		
12,350.00	12,248.19	10,900.00	10,610.62	44.30	38.19	73.51	-346.64	-3,318.95	4,289.99	4,235.23	54.56	78.626		
12,400.00	12,278.37	10,900.00	10,610.62	44.39	38.19	72.17	-346.64	-3,318.95	4,303.31	4,248.76	54.55	78.886		
12,450.00	12,304.97	10,927.05	10,614.60	44.48	38.18	70.80	-373.39	-3,318.69	4,315.74	4,261.16	54.58	79.067		
12,500.00	12,327.78	10,950.00	10,616.98	44.58	38.17	69.60	-396.21	-3,318.46	4,327.38	4,272.76	54.62	79.228		
12,550.00	12,346.63	10,950.00	10,616.98	44.68	38.17	68.60	-396.21	-3,318.46	4,337.84	4,283.20	54.64	79.385		
12,600.00	12,361.37	10,950.00	10,616.98	44.79	38.17	67.70	-396.21	-3,318.46	4,347.29	4,292.62	54.68	79.505		
12,650.00	12,371.89	10,974.18	10,618.50	44.91	38.16	66.90	-420.34	-3,318.23	4,355.40	4,300.65	54.75	79.545		
12,700.00	12,378.11	10,998.09	10,619.00	45.04	38.16	66.25	-444.24	-3,318.00	4,362.38	4,307.54	54.84	79.548		
12,746.51	12,380.00	10,998.09	10,619.00	45.17	38.16	65.78	-444.24	-3,318.00	4,367.56	4,312.65	54.91	79.537		
12,800.00	12,380.00	11,048.76	10,619.00	45.34	38.16	65.84	-494.91	-3,317.50	4,372.50	4,317.44	55.06	79.409		
12,900.00	12,380.00	11,148.47	10,619.00	45.69	38.26	65.94	-594.62	-3,316.53	4,379.30	4,323.90	55.40	79.048		
13,000.00	12,380.00	11,248.39	10,619.00	46.08	38.49	65.99	-694.53	-3,315.55	4,382.92	4,327.11	55.81	78.527		
13,063.21	12,380.00	11,311.59	10,619.00	46.35	38.68	66.00	-757.73	-3,314.94	4,383.57	4,327.46	56.11	78.124		
13,100.00	12,380.00	11,348.39	10,619.00	46.52	38.81	66.00	-794.52	-3,314.58	4,383.57	4,327.27	56.30	77.860		
13,200.00	12,380.00	11,448.39	10,619.00	47.00	39.19	66.00	-894.52	-3,313.60	4,383.58	4,326.72	56.87	77.087		
13,300.00	12,380.00	11,548.39	10,619.00	47.54	39.64	66.00	-994.51	-3,312.63	4,383.60	4,326.09	57.51	76.227		
13,400.00	12,380.00	11,648.39	10,619.00	48.13	40.15	66.00	-1,094.51	-3,311.65	4,383.61	4,325.38	58.22	75.290		
13,500.00	12,380.00	11,748.39	10,619.00	48.77	40.72	66.00	-1,194.50	-3,310.68	4,383.62	4,324.61	59.01	74.284		
13,600.00	12,380.00	11,848.39	10,619.00	49.45	41.34	66.00	-1,294.50	-3,309.70	4,383.63	4,323.76	59.87	73.221		
13,700.00	12,380.00	11,948.39	10,619.00	50.18	42.02	66.00	-1,394.49	-3,308.73	4,383.64	4,322.85	60.79	72.110		
13,800.00	12,380.00	12,048.39	10,619.00	50.95	42.75	66.00	-1,494.49	-3,307.75	4,383.65	4,321.88	61.78	70.960		
13,900.00	12,380.00	12,148.39	10,619.00	51.77	43.53	66.00	-1,594.49	-3,306.78	4,383.66	4,320.84	62.82	69.778		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design PF Fed Com - PF Fed Com 501H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,000.00	12,380.00	12,248.39	10,619.00	52.62	44.35	66.00	-1,694.48	-3,305.80	4,383.68	4,319.75	63.93	68.575		
14,100.00	12,380.00	12,348.39	10,619.00	53.51	45.22	66.00	-1,794.48	-3,304.83	4,383.69	4,318.60	65.08	67.356		
14,200.00	12,380.00	12,448.39	10,619.00	54.44	46.13	66.00	-1,894.47	-3,303.85	4,383.70	4,317.41	66.29	66.128		
14,300.00	12,380.00	12,548.39	10,619.00	55.40	47.09	66.00	-1,994.47	-3,302.87	4,383.71	4,316.16	67.55	64.897		
14,400.00	12,380.00	12,648.39	10,619.00	56.39	48.07	66.00	-2,094.46	-3,301.90	4,383.72	4,314.87	68.85	63.669		
14,500.00	12,380.00	12,748.39	10,619.00	57.41	49.10	66.00	-2,194.46	-3,300.92	4,383.73	4,313.54	70.20	62.448		
14,600.00	12,380.00	12,848.39	10,619.00	58.46	50.16	66.00	-2,294.45	-3,299.95	4,383.74	4,312.16	71.59	61.238		
14,700.00	12,380.00	12,948.39	10,619.00	59.54	51.24	66.00	-2,394.45	-3,298.97	4,383.76	4,310.74	73.01	60.042		
14,800.00	12,380.00	13,048.39	10,619.00	60.64	52.36	66.00	-2,494.44	-3,298.00	4,383.77	4,309.29	74.47	58.863		
14,900.00	12,380.00	13,148.39	10,619.00	61.77	53.51	66.00	-2,594.44	-3,297.02	4,383.78	4,307.81	75.97	57.704		
15,000.00	12,380.00	13,248.39	10,619.00	62.92	54.68	66.00	-2,694.43	-3,296.05	4,383.79	4,306.29	77.50	56.566		
15,100.00	12,380.00	13,348.39	10,619.00	64.09	55.87	66.00	-2,794.43	-3,295.07	4,383.80	4,304.74	79.06	55.450		
15,200.00	12,380.00	13,448.39	10,619.00	65.28	57.09	66.00	-2,894.42	-3,294.10	4,383.81	4,303.17	80.65	54.358		
15,300.00	12,380.00	13,548.39	10,619.00	66.50	58.33	66.00	-2,994.42	-3,293.12	4,383.82	4,301.56	82.26	53.291		
15,400.00	12,380.00	13,648.39	10,619.00	67.73	59.59	66.00	-3,094.41	-3,292.15	4,383.84	4,299.93	83.90	52.249		
15,500.00	12,380.00	13,748.39	10,619.00	68.98	60.86	66.00	-3,194.41	-3,291.17	4,383.85	4,298.28	85.57	51.233		
15,600.00	12,380.00	13,848.39	10,619.00	70.24	62.16	66.00	-3,294.40	-3,290.19	4,383.86	4,296.61	87.25	50.243		
15,700.00	12,380.00	13,948.39	10,619.00	71.52	63.47	66.00	-3,394.40	-3,289.22	4,383.87	4,294.91	88.96	49.278		
15,800.00	12,380.00	14,048.39	10,619.00	72.82	64.80	66.00	-3,494.39	-3,288.24	4,383.88	4,293.19	90.69	48.339		
15,900.00	12,380.00	14,148.39	10,619.00	74.13	66.14	66.00	-3,594.39	-3,287.27	4,383.89	4,291.46	92.44	47.426		
16,000.00	12,380.00	14,248.39	10,619.00	75.46	67.49	66.00	-3,694.39	-3,286.29	4,383.91	4,289.71	94.20	46.539		
16,100.00	12,380.00	14,348.39	10,619.00	76.79	68.86	66.00	-3,794.38	-3,285.32	4,383.92	4,287.94	95.98	45.676		
16,200.00	12,380.00	14,448.39	10,619.00	78.14	70.24	66.00	-3,894.38	-3,284.34	4,383.93	4,286.15	97.78	44.837		
16,300.00	12,380.00	14,548.39	10,619.00	79.50	71.63	66.00	-3,994.37	-3,283.37	4,383.94	4,284.35	99.59	44.021		
16,400.00	12,380.00	14,648.39	10,619.00	80.87	73.04	66.00	-4,094.37	-3,282.39	4,383.95	4,282.54	101.41	43.229		
16,500.00	12,380.00	14,748.39	10,619.00	82.25	74.45	66.00	-4,194.36	-3,281.42	4,383.96	4,280.71	103.25	42.459		
16,600.00	12,380.00	14,848.39	10,619.00	83.64	75.87	66.00	-4,294.36	-3,280.44	4,383.97	4,278.87	105.10	41.711		
16,700.00	12,380.00	14,948.39	10,619.00	85.04	77.30	66.00	-4,394.35	-3,279.47	4,383.99	4,277.02	106.97	40.984		
16,800.00	12,380.00	15,048.39	10,619.00	86.45	78.74	66.00	-4,494.35	-3,278.49	4,384.00	4,275.15	108.84	40.278		
16,900.00	12,380.00	15,148.39	10,619.00	87.87	80.19	66.00	-4,594.34	-3,277.51	4,384.01	4,273.28	110.73	39.592		
17,000.00	12,380.00	15,248.39	10,619.00	89.30	81.64	66.00	-4,694.34	-3,276.54	4,384.02	4,271.39	112.63	38.925		
17,100.00	12,380.00	15,348.39	10,619.00	90.73	83.11	66.00	-4,794.33	-3,275.56	4,384.03	4,269.50	114.53	38.277		
17,200.00	12,380.00	15,448.39	10,619.00	92.17	84.58	66.00	-4,894.33	-3,274.59	4,384.04	4,267.59	116.45	37.647		
17,300.00	12,380.00	15,548.39	10,619.00	93.62	86.05	66.00	-4,994.32	-3,273.61	4,384.05	4,265.68	118.38	37.035		
17,400.00	12,380.00	15,648.39	10,619.00	95.07	87.54	66.00	-5,094.32	-3,272.64	4,384.07	4,263.76	120.31	36.440		
17,500.00	12,380.00	15,748.39	10,619.00	96.53	89.03	66.00	-5,194.31	-3,271.66	4,384.08	4,261.83	122.25	35.861		
17,600.00	12,380.00	15,848.39	10,619.00	98.00	90.52	66.00	-5,294.31	-3,270.69	4,384.09	4,259.89	124.20	35.299		
17,700.00	12,380.00	15,948.39	10,619.00	99.47	92.02	66.00	-5,394.30	-3,269.71	4,384.10	4,257.95	126.15	34.752		
17,800.00	12,380.00	16,048.39	10,619.00	100.95	93.52	66.00	-5,494.30	-3,268.74	4,384.11	4,256.00	128.12	34.220		
17,900.00	12,380.00	16,148.39	10,619.00	102.43	95.03	66.00	-5,594.29	-3,267.76	4,384.12	4,254.04	130.09	33.702		
18,000.00	12,380.00	16,248.39	10,619.00	103.92	96.55	66.00	-5,694.29	-3,266.79	4,384.13	4,252.07	132.06	33.198		
18,100.00	12,380.00	16,348.39	10,619.00	105.41	98.07	66.00	-5,794.29	-3,265.81	4,384.15	4,250.10	134.04	32.707		
18,200.00	12,380.00	16,448.39	10,619.00	106.91	99.59	66.00	-5,894.28	-3,264.83	4,384.16	4,248.13	136.03	32.229		
18,300.00	12,380.00	16,548.39	10,619.00	108.41	101.12	66.00	-5,994.28	-3,263.86	4,384.17	4,246.14	138.02	31.764		
18,400.00	12,380.00	16,648.39	10,619.00	109.92	102.65	66.00	-6,094.27	-3,262.88	4,384.18	4,244.16	140.02	31.310		
18,500.00	12,380.00	16,748.39	10,619.00	111.43	104.18	66.00	-6,194.27	-3,261.91	4,384.19	4,242.16	142.03	30.869		
18,600.00	12,380.00	16,848.39	10,619.00	112.94	105.72	66.00	-6,294.26	-3,260.93	4,384.20	4,240.17	144.04	30.438		
18,700.00	12,380.00	16,948.39	10,619.00	114.46	107.26	66.00	-6,394.26	-3,259.96	4,384.21	4,238.17	146.05	30.019		
18,800.00	12,380.00	17,048.39	10,619.00	115.98	108.80	66.00	-6,494.25	-3,258.98	4,384.23	4,236.16	148.07	29.610		
18,900.00	12,380.00	17,148.39	10,619.00	117.51	110.35	66.00	-6,594.25	-3,258.01	4,384.24	4,234.15	150.09	29.211		
19,000.00	12,380.00	17,248.39	10,619.00	119.04	111.90	66.00	-6,694.24	-3,257.03	4,384.25	4,232.14	152.11	28.823		
19,100.00	12,380.00	17,348.39	10,619.00	120.57	113.46	66.00	-6,794.24	-3,256.06	4,384.26	4,230.12	154.14	28.443		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design PF Fed Com - PF Fed Com 501H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
							+N/-S (usft)	+E/-W (usft)						
19,200.00	12,380.00	17,448.39	10,619.00	122.11	115.01	66.00	-6,894.23	-3,255.08	4,384.27	4,228.10	156.17	28.073		
19,300.00	12,380.00	17,548.39	10,619.00	123.64	116.57	66.00	-6,994.23	-3,254.11	4,384.28	4,226.08	158.21	27.712		
19,400.00	12,380.00	17,648.39	10,619.00	125.18	118.13	66.00	-7,094.22	-3,253.13	4,384.29	4,224.05	160.25	27.360		
19,500.00	12,380.00	17,748.39	10,619.00	126.73	119.70	66.00	-7,194.22	-3,252.15	4,384.31	4,222.02	162.29	27.015		
19,600.00	12,380.00	17,848.39	10,619.00	128.27	121.26	66.00	-7,294.21	-3,251.18	4,384.32	4,219.98	164.34	26.679		
19,700.00	12,380.00	17,948.39	10,619.00	129.82	122.83	66.00	-7,394.21	-3,250.20	4,384.33	4,217.94	166.38	26.351		
19,800.00	12,380.00	18,048.39	10,619.00	131.38	124.40	66.00	-7,494.20	-3,249.23	4,384.34	4,215.90	168.44	26.030		
19,900.00	12,380.00	18,148.39	10,619.00	132.93	125.97	66.00	-7,594.20	-3,248.25	4,384.35	4,213.86	170.49	25.716		
20,000.00	12,380.00	18,248.39	10,619.00	134.49	127.55	66.00	-7,694.19	-3,247.28	4,384.36	4,211.81	172.55	25.409		
20,100.00	12,380.00	18,348.39	10,619.00	136.04	129.12	66.00	-7,794.19	-3,246.30	4,384.37	4,209.76	174.61	25.109		
20,200.00	12,380.00	18,448.39	10,619.00	137.61	130.70	66.00	-7,894.19	-3,245.33	4,384.39	4,207.71	176.67	24.816		
20,300.00	12,380.00	18,548.39	10,619.00	139.17	132.28	66.00	-7,994.18	-3,244.35	4,384.40	4,205.66	178.74	24.529		
20,400.00	12,380.00	18,648.39	10,619.00	140.73	133.86	66.00	-8,094.18	-3,243.38	4,384.41	4,203.60	180.81	24.249		
20,500.00	12,380.00	18,748.39	10,619.00	142.30	135.45	66.00	-8,194.17	-3,242.40	4,384.42	4,201.54	182.88	23.974		
20,600.00	12,380.00	18,848.39	10,619.00	143.87	137.03	66.00	-8,294.17	-3,241.43	4,384.43	4,199.48	184.95	23.706		
20,700.00	12,380.00	18,948.39	10,619.00	145.44	138.62	66.00	-8,394.16	-3,240.45	4,384.44	4,197.41	187.03	23.443		
20,800.00	12,380.00	19,048.39	10,619.00	147.01	140.21	66.00	-8,494.16	-3,239.47	4,384.45	4,195.35	189.11	23.185		
20,900.00	12,380.00	19,148.39	10,619.00	148.59	141.80	66.00	-8,594.15	-3,238.50	4,384.47	4,193.28	191.19	22.933		
21,000.00	12,380.00	19,248.39	10,619.00	150.16	143.39	66.00	-8,694.15	-3,237.52	4,384.48	4,191.21	193.27	22.686		
21,100.00	12,380.00	19,348.39	10,619.00	151.74	144.98	66.00	-8,794.14	-3,236.55	4,384.49	4,189.14	195.35	22.444		
21,200.00	12,380.00	19,448.39	10,619.00	153.32	146.57	66.00	-8,894.14	-3,235.57	4,384.50	4,187.06	197.44	22.207		
21,300.00	12,380.00	19,548.39	10,619.00	154.90	148.17	66.00	-8,994.13	-3,234.60	4,384.51	4,184.99	199.52	21.975		
21,400.00	12,380.00	19,648.39	10,619.00	156.48	149.76	66.00	-9,094.13	-3,233.62	4,384.52	4,182.91	201.61	21.748		
21,500.00	12,380.00	19,748.39	10,619.00	158.06	151.36	66.01	-9,194.12	-3,232.65	4,384.53	4,180.84	203.70	21.525		
21,600.00	12,380.00	19,848.39	10,619.00	159.65	152.96	66.01	-9,294.12	-3,231.67	4,384.55	4,178.76	205.79	21.306		
21,700.00	12,380.00	19,948.39	10,619.00	161.23	154.56	66.01	-9,394.11	-3,230.70	4,384.56	4,176.68	207.88	21.092		
21,800.00	12,380.00	20,048.39	10,619.00	162.82	156.16	66.01	-9,494.11	-3,229.72	4,384.57	4,174.60	209.97	20.882		
21,900.00	12,380.00	20,148.39	10,619.00	164.41	157.76	66.01	-9,594.10	-3,228.75	4,384.58	4,172.51	212.07	20.675		
22,000.00	12,380.00	20,248.39	10,619.00	166.00	159.36	66.01	-9,694.10	-3,227.77	4,384.59	4,170.43	214.16	20.473		
22,100.00	12,380.00	20,348.39	10,619.00	167.59	160.97	66.01	-9,794.10	-3,226.79	4,384.60	4,168.34	216.26	20.275		
22,200.00	12,380.00	20,448.39	10,619.00	169.18	162.57	66.01	-9,894.09	-3,225.82	4,384.61	4,166.25	218.36	20.080		
22,300.00	12,380.00	20,548.39	10,619.00	170.77	164.18	66.01	-9,994.09	-3,224.84	4,384.63	4,164.17	220.46	19.888		
22,400.00	12,380.00	20,648.39	10,619.00	172.37	165.78	66.01	-10,094.08	-3,223.87	4,384.64	4,162.07	222.56	19.701		
22,500.00	12,380.00	20,748.39	10,619.00	173.96	167.30	66.01	-10,194.08	-3,222.89	4,384.65	4,160.05	224.60	19.522		
22,500.01	12,380.00	20,748.39	10,619.00	173.96	167.30	66.01	-10,194.08	-3,222.89	4,384.65	4,160.05	224.60	19.522		
22,547.76	12,380.00	20,792.10	10,619.00	174.73	167.92	66.01	-10,237.79	-3,222.47	4,384.66	4,159.16	225.49	19.445		
22,548.65	12,380.00	20,792.10	10,619.00	174.75	167.92	66.01	-10,237.79	-3,222.47	4,384.66	4,159.16	225.50	19.444 SF		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	22.00	22.00	0.00	0.03	-99.15	-467.07	-2,898.49	2,935.89					
100.00	100.00	122.00	122.00	0.13	0.20	-99.15	-467.07	-2,898.49	2,935.89	2,935.65	0.24	N/A		
200.00	200.00	222.00	222.00	0.48	0.56	-99.15	-467.07	-2,898.49	2,935.89	2,935.14	0.74	3,955.373		
300.00	300.00	322.00	322.00	0.84	0.92	-99.15	-467.07	-2,898.49	2,935.89	2,934.64	1.25	2,351.802		
400.00	400.00	422.00	422.00	1.20	1.28	-99.15	-467.07	-2,898.49	2,935.89	2,934.13	1.75	1,672.916		
500.00	500.00	522.00	522.00	1.56	1.64	-99.15	-467.07	-2,898.49	2,935.89	2,933.63	2.26	1,298.084		
600.00	600.00	622.00	622.00	1.92	2.00	-99.15	-467.07	-2,898.49	2,935.89	2,933.12	2.77	1,060.447		
700.00	700.00	722.00	722.00	2.28	2.36	-99.15	-467.07	-2,898.49	2,935.89	2,932.61	3.28	896.343		
800.00	800.00	822.00	822.00	2.63	2.71	-99.15	-467.07	-2,898.49	2,935.89	2,932.10	3.78	776.218		
900.00	900.00	922.00	922.00	2.99	3.07	-99.15	-467.07	-2,898.49	2,935.89	2,931.60	4.29	684.483		
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-99.15	-467.07	-2,898.49	2,935.89	2,931.09	4.80	612.138		
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-99.15	-467.07	-2,898.49	2,935.89	2,930.58	5.30	553.623		
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-99.15	-467.07	-2,898.49	2,935.89	2,930.08	5.81	505.318		
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-99.15	-467.07	-2,898.49	2,935.89	2,929.57	6.32	464.766		
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-99.15	-467.07	-2,898.49	2,935.89	2,929.06	6.82	430.239		
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-99.15	-467.07	-2,898.49	2,935.89	2,928.56	7.33	400.487		
1,600.00	1,600.00	1,622.00	1,622.00	5.50	5.58	-99.15	-467.07	-2,898.49	2,935.89	2,928.05	7.84	374.584		
1,700.00	1,700.00	1,722.00	1,722.00	5.86	5.94	-99.15	-467.07	-2,898.49	2,935.89	2,927.54	8.34	351.828		
1,800.00	1,800.00	1,822.00	1,822.00	6.22	6.30	-99.15	-467.07	-2,898.49	2,935.89	2,927.04	8.85	331.678		
1,900.00	1,900.00	1,922.00	1,922.00	6.58	6.66	-99.15	-467.07	-2,898.49	2,935.89	2,926.53	9.36	313.711		
2,000.00	2,000.00	2,022.00	2,022.00	6.94	7.02	-99.15	-467.07	-2,898.49	2,935.89	2,926.02	9.87	297.591		
2,100.00	2,100.00	2,122.00	2,122.00	7.29	7.37	-99.15	-467.07	-2,898.49	2,935.89	2,925.51	10.37	283.046		
2,200.00	2,199.99	2,221.99	2,221.99	7.65	7.73	-173.69	-467.07	-2,898.49	2,937.19	2,926.31	10.87	270.094		
2,300.00	2,299.91	2,365.75	2,365.75	7.99	8.25	-173.69	-466.72	-2,898.06	2,940.93	2,929.44	11.48	256.127		
2,400.00	2,399.69	2,665.86	2,665.30	8.34	9.31	-173.57	-456.02	-2,884.92	2,942.54	2,930.08	12.46	236.192		
2,500.00	2,499.27	2,964.92	2,961.57	8.70	10.39	-173.24	-430.62	-2,853.74	2,939.97	2,926.57	13.40	219.347		
2,601.33	2,599.89	3,179.00	3,171.32	9.06	11.21	-172.88	-403.64	-2,820.61	2,933.84	2,919.69	14.15	207.313		
2,700.00	2,697.71	3,277.06	3,267.04	9.42	11.60	-172.70	-390.20	-2,804.12	2,928.12	2,913.47	14.65	199.899		
2,800.00	2,796.85	3,376.43	3,364.05	9.78	12.01	-172.51	-376.58	-2,787.40	2,922.35	2,907.20	15.16	192.829		
2,900.00	2,895.99	3,475.81	3,461.06	10.15	12.42	-172.32	-362.97	-2,770.68	2,916.61	2,900.95	15.67	186.177		
3,000.00	2,995.13	3,575.19	3,558.07	10.53	12.83	-172.14	-349.35	-2,753.96	2,910.91	2,894.73	16.18	179.909		
3,100.00	3,094.27	3,674.57	3,655.08	10.90	13.25	-171.95	-335.73	-2,737.24	2,905.24	2,888.54	16.70	173.996		
3,200.00	3,193.41	3,773.95	3,752.09	11.28	13.68	-171.76	-322.12	-2,720.52	2,899.60	2,882.38	17.22	168.412		
3,300.00	3,292.55	3,873.33	3,849.10	11.67	14.11	-171.57	-308.50	-2,703.81	2,893.99	2,876.25	17.74	163.133		
3,400.00	3,391.69	3,972.70	3,946.11	12.05	14.54	-171.38	-294.88	-2,687.09	2,888.41	2,870.14	18.27	158.137		
3,500.00	3,490.83	4,072.08	4,043.13	12.44	14.98	-171.19	-281.26	-2,670.37	2,882.86	2,864.07	18.79	153.402		
3,600.00	3,589.97	4,171.46	4,140.14	12.82	15.42	-171.00	-267.65	-2,653.65	2,877.35	2,858.03	19.32	148.910		
3,700.00	3,689.11	4,270.84	4,237.15	13.21	15.86	-170.80	-254.03	-2,636.93	2,871.87	2,852.01	19.85	144.644		
3,800.00	3,788.25	4,370.22	4,334.16	13.60	16.31	-170.61	-240.41	-2,620.22	2,866.42	2,846.03	20.39	140.589		
3,900.00	3,887.39	4,469.60	4,431.17	13.99	16.76	-170.42	-226.80	-2,603.50	2,861.01	2,840.08	20.92	136.731		
4,000.00	3,986.53	4,568.97	4,528.18	14.39	17.21	-170.22	-213.18	-2,586.78	2,855.62	2,834.16	21.46	133.055		
4,100.00	4,085.67	4,668.35	4,625.19	14.78	17.67	-170.03	-199.56	-2,570.06	2,850.28	2,828.27	22.00	129.551		
4,200.00	4,184.81	4,767.73	4,722.20	15.18	18.12	-169.83	-185.94	-2,553.34	2,844.96	2,822.42	22.54	126.206		
4,300.00	4,283.95	4,867.11	4,819.21	15.57	18.58	-169.63	-172.33	-2,536.63	2,839.68	2,816.60	23.08	123.011		
4,400.00	4,383.09	4,966.49	4,916.22	15.97	19.04	-169.44	-158.71	-2,519.91	2,834.43	2,810.80	23.63	119.957		
4,500.00	4,482.23	5,065.87	5,013.24	16.37	19.50	-169.24	-145.09	-2,503.19	2,829.22	2,805.05	24.17	117.035		
4,600.00	4,581.37	5,165.24	5,110.25	16.77	19.96	-169.04	-131.48	-2,486.47	2,824.04	2,799.32	24.72	114.236		
4,700.00	4,680.51	5,264.62	5,207.26	17.17	20.43	-168.84	-117.86	-2,469.75	2,818.90	2,793.63	25.27	111.554		
4,800.00	4,779.65	5,364.00	5,304.27	17.57	20.89	-168.64	-104.24	-2,453.04	2,813.79	2,787.97	25.82	108.982		
4,900.00	4,878.79	5,463.38	5,401.28	17.97	21.36	-168.44	-90.62	-2,436.32	2,808.71	2,782.34	26.37	106.513		
5,000.00	4,977.93	5,562.76	5,498.29	18.37	21.83	-168.23	-77.01	-2,419.60	2,803.67	2,776.75	26.92	104.141		
5,100.00	5,077.07	5,662.14	5,595.30	18.77	22.30	-168.03	-63.39	-2,402.88	2,798.67	2,771.19	27.48	101.861		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		
5,200.00	5,176.21	5,761.51	5,692.31	19.17	22.77	-167.83	-49.77	-2,386.16	2,793.70	2,765.67	28.03	99.669		
5,300.00	5,275.35	5,860.89	5,789.32	19.57	23.24	-167.62	-36.16	-2,369.44	2,788.76	2,760.18	28.59	97.558		
5,400.00	5,374.49	5,960.27	5,886.33	19.98	23.71	-167.42	-22.54	-2,352.73	2,783.87	2,754.72	29.14	95.526		
5,500.00	5,473.63	6,059.65	5,983.35	20.38	24.19	-167.21	-8.92	-2,336.01	2,779.00	2,749.30	29.70	93.567		
5,600.00	5,572.77	6,159.03	6,080.36	20.78	24.66	-167.01	4.70	-2,319.29	2,774.18	2,743.92	30.26	91.679		
5,700.00	5,671.91	6,258.41	6,177.37	21.19	25.13	-166.80	18.31	-2,302.57	2,769.39	2,738.57	30.82	89.857		
5,800.00	5,771.05	6,357.78	6,274.38	21.59	25.61	-166.59	31.93	-2,285.85	2,764.64	2,733.25	31.38	88.098		
5,900.00	5,870.19	6,457.16	6,371.39	22.00	26.09	-166.38	45.55	-2,269.14	2,759.92	2,727.98	31.94	86.399		
6,000.00	5,969.33	6,556.54	6,468.40	22.40	26.56	-166.18	59.17	-2,252.42	2,755.24	2,722.73	32.51	84.757		
6,100.00	6,068.47	6,655.92	6,565.41	22.81	27.04	-165.97	72.78	-2,235.70	2,750.60	2,717.53	33.07	83.170		
6,200.00	6,167.61	6,742.20	6,649.66	23.22	27.45	-165.78	84.56	-2,221.24	2,746.08	2,712.47	33.60	81.716		
6,300.00	6,266.75	6,800.00	6,706.24	23.62	27.73	-165.67	92.00	-2,212.11	2,742.65	2,708.58	34.06	80.516		
6,400.00	6,365.89	6,869.17	6,774.19	24.03	28.04	-165.55	100.18	-2,202.06	2,740.53	2,705.99	34.54	79.341		
6,500.00	6,465.03	6,932.87	6,836.95	24.44	28.32	-165.45	107.03	-2,193.65	2,739.76	2,704.77	35.00	78.283		
6,507.90	6,472.86	6,937.90	6,841.92	24.47	28.34	-165.45	107.55	-2,193.02	2,739.76	2,704.73	35.03	78.203 CC		
6,600.00	6,564.17	7,000.00	6,903.29	24.84	28.61	-165.37	113.54	-2,185.66	2,740.33	2,704.87	35.46	77.287		
6,700.00	6,663.31	7,060.48	6,963.20	25.25	28.86	-165.30	118.76	-2,179.25	2,742.21	2,706.32	35.89	76.413		
6,800.00	6,762.45	7,124.34	7,026.59	25.66	29.12	-165.25	123.63	-2,173.27	2,745.41	2,709.09	36.32	75.594		
6,856.14	6,818.11	7,160.18	7,062.22	25.89	29.26	-165.22	126.07	-2,170.27	2,747.78	2,711.23	36.56	75.167		
6,900.00	6,861.62	7,200.00	7,101.85	26.06	29.41	-165.20	128.53	-2,167.25	2,749.72	2,712.94	36.77	74.771		
7,000.00	6,961.05	7,252.04	7,153.70	26.46	29.61	-165.19	131.36	-2,163.78	2,753.13	2,715.98	37.15	74.106		
7,100.00	7,060.72	7,300.00	7,201.53	26.84	29.78	-165.17	133.57	-2,161.07	2,755.44	2,717.94	37.50	73.472		
7,200.00	7,160.57	7,379.83	7,281.23	27.20	30.06	-165.14	136.40	-2,157.60	2,756.38	2,718.44	37.94	72.647		
7,300.00	7,260.53	7,443.74	7,345.10	27.55	30.27	-165.12	137.91	-2,155.74	2,756.18	2,717.86	38.32	71.925		
7,357.47	7,318.00	7,480.48	7,381.83	27.74	30.39	-90.57	138.47	-2,155.05	2,755.51	2,716.98	38.53	71.512		
7,400.00	7,360.53	7,500.00	7,401.34	27.88	30.46	-90.57	138.68	-2,154.80	2,755.00	2,716.34	38.66	71.261		
7,500.00	7,460.53	7,581.19	7,482.53	28.21	30.71	-90.56	138.93	-2,154.49	2,754.63	2,715.55	39.07	70.500		
7,600.00	7,560.53	7,681.19	7,582.53	28.54	31.02	-90.56	138.93	-2,154.49	2,754.63	2,715.08	39.55	69.655		
7,700.00	7,660.53	7,781.19	7,682.53	28.87	31.33	-90.56	138.93	-2,154.49	2,754.63	2,714.61	40.02	68.830		
7,800.00	7,760.53	7,881.19	7,782.53	29.20	31.63	-90.56	138.93	-2,154.49	2,754.63	2,714.13	40.50	68.022		
7,900.00	7,860.53	7,981.19	7,882.53	29.53	31.95	-90.56	138.93	-2,154.49	2,754.63	2,713.66	40.97	67.232		
8,000.00	7,960.53	8,081.19	7,982.53	29.87	32.26	-90.56	138.93	-2,154.49	2,754.63	2,713.18	41.45	66.459		
8,100.00	8,060.53	8,181.19	8,082.53	30.20	32.57	-90.56	138.93	-2,154.49	2,754.63	2,712.70	41.93	65.702		
8,200.00	8,160.53	8,281.19	8,182.53	30.53	32.88	-90.56	138.93	-2,154.49	2,754.63	2,712.22	42.40	64.961		
8,300.00	8,260.53	8,381.19	8,282.53	30.87	33.20	-90.56	138.93	-2,154.49	2,754.63	2,711.75	42.88	64.236		
8,400.00	8,360.53	8,481.19	8,382.53	31.20	33.51	-90.56	138.93	-2,154.49	2,754.63	2,711.27	43.36	63.526		
8,500.00	8,460.53	8,581.19	8,482.53	31.54	33.83	-90.56	138.93	-2,154.49	2,754.63	2,710.79	43.84	62.830		
8,600.00	8,560.53	8,681.19	8,582.53	31.88	34.14	-90.56	138.93	-2,154.49	2,754.63	2,710.31	44.32	62.149		
8,700.00	8,660.53	8,781.19	8,682.53	32.21	34.46	-90.56	138.93	-2,154.49	2,754.63	2,709.82	44.80	61.482		
8,800.00	8,760.53	8,881.19	8,782.53	32.55	34.78	-90.56	138.93	-2,154.49	2,754.63	2,709.34	45.29	60.828		
8,900.00	8,860.53	8,981.19	8,882.53	32.89	35.10	-90.56	138.93	-2,154.49	2,754.63	2,708.86	45.77	60.187		
9,000.00	8,960.53	9,081.19	8,982.53	33.23	35.42	-90.56	138.93	-2,154.49	2,754.63	2,708.38	46.25	59.558		
9,100.00	9,060.53	9,181.19	9,082.53	33.56	35.74	-90.56	138.93	-2,154.49	2,754.63	2,707.89	46.73	58.942		
9,200.00	9,160.53	9,281.19	9,182.53	33.90	36.06	-90.56	138.93	-2,154.49	2,754.63	2,707.41	47.22	58.339		
9,300.00	9,260.53	9,381.19	9,282.53	34.24	36.38	-90.56	138.93	-2,154.49	2,754.63	2,706.93	47.70	57.746		
9,400.00	9,360.53	9,481.19	9,382.53	34.58	36.71	-90.56	138.93	-2,154.49	2,754.63	2,706.44	48.19	57.165		
9,500.00	9,460.53	9,581.19	9,482.53	34.92	37.03	-90.56	138.93	-2,154.49	2,754.63	2,705.96	48.67	56.595		
9,600.00	9,560.53	9,681.19	9,582.53	35.26	37.36	-90.56	138.93	-2,154.49	2,754.63	2,705.47	49.16	56.036		
9,700.00	9,660.53	9,781.19	9,682.53	35.60	37.68	-90.56	138.93	-2,154.49	2,754.63	2,704.98	49.64	55.488		
9,800.00	9,760.53	9,881.19	9,782.53	35.94	38.01	-90.56	138.93	-2,154.49	2,754.63	2,704.50	50.13	54.949		
9,900.00	9,860.53	9,981.19	9,882.53	36.29	38.33	-90.56	138.93	-2,154.49	2,754.63	2,704.01	50.62	54.421		
10,000.00	9,960.53	10,094.25	9,995.49	36.63	38.68	-90.62	136.04	-2,154.33	2,754.52	2,703.39	51.13	53.875		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	10,060.53	10,217.95	10,116.28	36.97	38.96	-91.15	110.54	-2,152.86	2,753.62	2,702.04	51.58	53.386		
10,200.00	10,160.53	10,326.50	10,215.64	37.31	39.13	-92.06	67.30	-2,150.37	2,752.33	2,700.41	51.92	53.008		
10,300.00	10,260.53	10,416.39	10,290.54	37.65	39.21	-93.09	17.86	-2,147.51	2,751.52	2,699.33	52.19	52.721		
10,320.78	10,281.31	10,432.77	10,303.31	37.73	39.22	-93.30	7.61	-2,146.92	2,751.49	2,699.25	52.24	52.671 ES		
10,400.00	10,360.53	10,488.68	10,344.58	38.00	39.24	-94.08	-30.01	-2,144.75	2,752.01	2,699.60	52.41	52.513		
10,500.00	10,460.53	10,550.00	10,385.38	38.34	39.25	-95.04	-75.67	-2,142.12	2,754.46	2,701.88	52.58	52.383		
10,600.00	10,560.53	10,592.62	10,410.75	38.68	39.24	-95.75	-109.85	-2,140.15	2,759.35	2,706.64	52.71	52.347		
10,700.00	10,660.53	10,630.05	10,430.88	39.03	39.22	-96.40	-141.35	-2,138.33	2,767.00	2,714.19	52.80	52.404		
10,800.00	10,760.53	10,660.73	10,445.81	39.37	39.20	-96.96	-168.10	-2,136.79	2,777.59	2,724.75	52.85	52.558		
10,900.00	10,860.53	10,686.20	10,457.10	39.72	39.18	-97.43	-190.89	-2,135.48	2,791.27	2,738.42	52.85	52.813		
11,000.00	10,960.53	10,700.00	10,462.80	40.06	39.18	-97.69	-203.44	-2,134.75	2,808.11	2,755.31	52.80	53.180		
11,100.00	11,060.53	10,725.79	10,472.61	40.41	39.15	-98.19	-227.24	-2,133.38	2,828.08	2,775.33	52.74	53.621		
11,200.00	11,160.53	10,750.00	10,480.85	40.75	39.13	-98.66	-249.97	-2,132.07	2,851.25	2,798.60	52.65	54.159		
11,300.00	11,260.53	10,750.00	10,480.85	41.10	39.13	-98.66	-249.97	-2,132.07	2,877.49	2,825.00	52.48	54.826		
11,400.00	11,360.53	10,766.77	10,485.98	41.44	39.12	-98.99	-265.91	-2,131.15	2,906.81	2,854.48	52.32	55.555		
11,500.00	11,460.53	10,777.20	10,488.94	41.79	39.11	-99.19	-275.89	-2,130.58	2,939.14	2,887.01	52.13	56.380		
11,600.00	11,560.53	10,800.00	10,494.77	42.13	39.09	-99.65	-297.90	-2,129.31	2,974.48	2,922.54	51.94	57.269		
11,700.00	11,660.53	10,800.00	10,494.77	42.48	39.09	-99.65	-297.90	-2,129.31	3,012.49	2,960.79	51.70	58.273		
11,800.00	11,760.53	10,800.00	10,494.77	42.83	39.09	-99.65	-297.90	-2,129.31	3,053.30	3,001.86	51.44	59.354		
11,846.51	11,807.04	10,800.00	10,494.77	42.99	39.09	-99.65	-297.90	-2,129.31	3,073.21	3,021.89	51.32	59.882		
11,850.00	11,810.53	10,800.00	10,494.77	43.00	39.09	87.09	-297.90	-2,129.31	3,074.72	3,023.41	51.31	59.922		
11,900.00	11,860.45	10,800.00	10,494.77	43.16	39.09	84.65	-297.90	-2,129.31	3,096.67	3,045.49	51.17	60.515		
11,950.00	11,909.97	10,800.00	10,494.77	43.31	39.09	82.19	-297.90	-2,129.31	3,118.89	3,067.86	51.03	61.117		
12,000.00	11,958.70	10,820.23	10,499.20	43.46	39.07	79.37	-317.61	-2,128.17	3,140.99	3,090.07	50.92	61.680		
12,050.00	12,006.28	10,826.85	10,500.50	43.61	39.06	76.85	-324.08	-2,127.80	3,163.08	3,112.29	50.80	62.270		
12,100.00	12,052.34	10,850.00	10,504.45	43.75	39.04	74.14	-346.86	-2,126.48	3,185.01	3,134.32	50.69	62.828		
12,150.00	12,096.54	10,850.00	10,504.45	43.87	39.04	71.91	-346.86	-2,126.48	3,206.19	3,155.63	50.57	63.407		
12,200.00	12,138.53	10,850.00	10,504.45	43.99	39.04	69.77	-346.86	-2,126.48	3,226.78	3,176.34	50.45	63.965		
12,250.00	12,178.00	10,850.00	10,504.45	44.10	39.04	67.75	-346.86	-2,126.48	3,246.64	3,196.31	50.34	64.499		
12,300.00	12,214.64	10,869.34	10,507.04	44.21	39.02	65.68	-365.99	-2,125.38	3,265.41	3,215.14	50.26	64.969		
12,350.00	12,248.19	10,879.29	10,508.12	44.30	39.01	63.87	-375.86	-2,124.81	3,283.10	3,232.91	50.19	65.417		
12,400.00	12,278.37	10,900.00	10,509.82	44.39	39.00	62.16	-396.47	-2,123.62	3,299.60	3,249.47	50.14	65.813		
12,450.00	12,304.97	10,900.00	10,509.82	44.48	39.00	60.78	-396.47	-2,123.62	3,314.59	3,264.50	50.09	66.177		
12,500.00	12,327.78	10,900.00	10,509.82	44.58	39.00	59.55	-396.47	-2,123.62	3,328.22	3,278.17	50.06	66.488		
12,550.00	12,346.63	10,922.11	10,510.81	44.68	38.98	58.38	-418.52	-2,122.35	3,340.11	3,290.05	50.06	66.722		
12,600.00	12,361.37	10,936.70	10,511.00	44.79	38.97	57.44	-433.08	-2,121.51	3,350.41	3,300.34	50.08	66.903		
12,650.00	12,371.89	10,954.22	10,511.00	44.91	38.96	56.68	-450.58	-2,120.56	3,358.90	3,308.78	50.12	67.015		
12,700.00	12,378.11	10,979.31	10,511.00	45.04	38.95	56.11	-475.64	-2,119.38	3,365.40	3,315.21	50.19	67.052		
12,746.51	12,380.00	11,000.00	10,511.00	45.17	38.94	55.76	-496.31	-2,118.57	3,369.60	3,319.33	50.27	67.024		
12,800.00	12,380.00	11,029.78	10,511.00	45.34	38.92	55.82	-526.08	-2,117.67	3,373.20	3,322.80	50.40	66.930		
12,900.00	12,380.00	11,086.64	10,511.00	45.69	38.93	55.92	-582.93	-2,116.77	3,378.81	3,328.16	50.65	66.709		
13,000.00	12,380.00	11,186.55	10,511.00	46.08	39.01	56.00	-682.84	-2,115.80	3,382.10	3,331.10	51.00	66.322		
13,063.21	12,380.00	11,249.76	10,511.00	46.35	39.12	56.01	-746.04	-2,115.18	3,382.68	3,331.44	51.25	66.009		
13,100.00	12,380.00	11,286.55	10,511.00	46.52	39.22	56.01	-782.83	-2,114.82	3,382.69	3,331.29	51.40	65.812		
13,200.00	12,380.00	11,386.55	10,511.00	47.00	39.54	56.01	-882.82	-2,113.85	3,382.70	3,330.82	51.88	65.206		
13,300.00	12,380.00	11,486.55	10,511.00	47.54	39.97	56.01	-982.82	-2,112.87	3,382.71	3,330.28	52.43	64.519		
13,400.00	12,380.00	11,586.55	10,511.00	48.13	40.46	56.01	-1,082.81	-2,111.90	3,382.72	3,329.66	53.05	63.761		
13,500.00	12,380.00	11,686.55	10,511.00	48.77	41.03	56.01	-1,182.81	-2,110.92	3,382.73	3,328.98	53.75	62.939		
13,600.00	12,380.00	11,786.55	10,511.00	49.45	41.64	56.01	-1,282.80	-2,109.94	3,382.74	3,328.23	54.51	62.061		
13,700.00	12,380.00	11,886.55	10,511.00	50.18	42.32	56.01	-1,382.80	-2,108.97	3,382.75	3,327.42	55.33	61.137		
13,800.00	12,380.00	11,986.55	10,511.00	50.95	43.05	56.01	-1,482.79	-2,107.99	3,382.76	3,326.54	56.22	60.174		
13,900.00	12,380.00	12,086.55	10,511.00	51.77	43.82	56.01	-1,582.79	-2,107.02	3,382.77	3,325.61	57.16	59.181		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design PF Fed Com - PF Fed Com 502H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,000.00	12,380.00	12,186.55	10,511.00	52.62	44.64	56.01	-1,682.79	-2,106.04	3,382.78	3,324.62	58.16	58.164		
14,100.00	12,380.00	12,286.55	10,511.00	53.51	45.51	56.01	-1,782.78	-2,105.07	3,382.79	3,323.58	59.21	57.131		
14,200.00	12,380.00	12,386.55	10,511.00	54.44	46.41	56.01	-1,882.78	-2,104.09	3,382.80	3,322.49	60.31	56.088		
14,300.00	12,380.00	12,486.55	10,511.00	55.40	47.36	56.01	-1,982.77	-2,103.12	3,382.81	3,321.35	61.46	55.042		
14,400.00	12,380.00	12,586.55	10,511.00	56.39	48.34	56.01	-2,082.77	-2,102.14	3,382.82	3,320.17	62.65	53.996		
14,500.00	12,380.00	12,686.55	10,511.00	57.41	49.36	56.01	-2,182.76	-2,101.16	3,382.83	3,318.95	63.88	52.954		
14,600.00	12,380.00	12,786.55	10,511.00	58.46	50.41	56.01	-2,282.76	-2,100.19	3,382.84	3,317.68	65.16	51.919		
14,700.00	12,380.00	12,886.55	10,511.00	59.54	51.49	56.01	-2,382.75	-2,099.21	3,382.85	3,316.38	66.47	50.895		
14,800.00	12,380.00	12,986.55	10,511.00	60.64	52.60	56.01	-2,482.75	-2,098.24	3,382.86	3,315.05	67.81	49.884		
14,900.00	12,380.00	13,086.55	10,511.00	61.77	53.73	56.01	-2,582.74	-2,097.26	3,382.87	3,313.68	69.19	48.890		
15,000.00	12,380.00	13,186.55	10,511.00	62.92	54.90	56.01	-2,682.74	-2,096.29	3,382.88	3,312.28	70.60	47.913		
15,100.00	12,380.00	13,286.55	10,511.00	64.09	56.08	56.01	-2,782.73	-2,095.31	3,382.89	3,310.85	72.04	46.956		
15,200.00	12,380.00	13,386.55	10,511.00	65.28	57.29	56.01	-2,882.73	-2,094.33	3,382.90	3,309.39	73.51	46.019		
15,300.00	12,380.00	13,486.55	10,511.00	66.50	58.52	56.01	-2,982.72	-2,093.36	3,382.91	3,307.91	75.00	45.105		
15,400.00	12,380.00	13,586.55	10,511.00	67.73	59.78	56.01	-3,082.72	-2,092.38	3,382.92	3,306.40	76.52	44.211		
15,500.00	12,380.00	13,686.55	10,511.00	68.98	61.05	56.01	-3,182.71	-2,091.41	3,382.93	3,304.88	78.06	43.340		
15,600.00	12,380.00	13,786.55	10,511.00	70.24	62.33	56.01	-3,282.71	-2,090.43	3,382.94	3,303.32	79.62	42.490		
15,700.00	12,380.00	13,886.55	10,511.00	71.52	63.64	56.01	-3,382.70	-2,089.46	3,382.95	3,301.75	81.20	41.663		
15,800.00	12,380.00	13,986.55	10,511.00	72.82	64.96	56.01	-3,482.70	-2,088.48	3,382.96	3,300.16	82.80	40.858		
15,900.00	12,380.00	14,086.55	10,511.00	74.13	66.29	56.01	-3,582.69	-2,087.50	3,382.97	3,298.56	84.42	40.075		
16,000.00	12,380.00	14,186.55	10,511.00	75.46	67.64	56.02	-3,682.69	-2,086.53	3,382.98	3,296.93	86.05	39.314		
16,100.00	12,380.00	14,286.55	10,511.00	76.79	69.00	56.02	-3,782.69	-2,085.55	3,382.99	3,295.29	87.70	38.574		
16,200.00	12,380.00	14,386.55	10,511.00	78.14	70.37	56.02	-3,882.68	-2,084.58	3,383.00	3,293.64	89.37	37.855		
16,300.00	12,380.00	14,486.55	10,511.00	79.50	71.76	56.02	-3,982.68	-2,083.60	3,383.01	3,291.97	91.05	37.157		
16,400.00	12,380.00	14,586.55	10,511.00	80.87	73.16	56.02	-4,082.67	-2,082.63	3,383.02	3,290.28	92.74	36.479		
16,500.00	12,380.00	14,686.55	10,511.00	82.25	74.56	56.02	-4,182.67	-2,081.65	3,383.03	3,288.59	94.45	35.820		
16,600.00	12,380.00	14,786.55	10,511.00	83.64	75.98	56.02	-4,282.66	-2,080.67	3,383.04	3,286.88	96.16	35.180		
16,700.00	12,380.00	14,886.55	10,511.00	85.04	77.40	56.02	-4,382.66	-2,079.70	3,383.05	3,285.16	97.89	34.558		
16,800.00	12,380.00	14,986.55	10,511.00	86.45	78.84	56.02	-4,482.65	-2,078.72	3,383.06	3,283.43	99.63	33.955		
16,900.00	12,380.00	15,086.55	10,511.00	87.87	80.28	56.02	-4,582.65	-2,077.75	3,383.07	3,281.69	101.38	33.369		
17,000.00	12,380.00	15,186.55	10,511.00	89.30	81.73	56.02	-4,682.64	-2,076.77	3,383.08	3,279.94	103.14	32.800		
17,100.00	12,380.00	15,286.55	10,511.00	90.73	83.19	56.02	-4,782.64	-2,075.80	3,383.09	3,278.18	104.91	32.247		
17,200.00	12,380.00	15,386.55	10,511.00	92.17	84.65	56.02	-4,882.63	-2,074.82	3,383.10	3,276.41	106.69	31.710		
17,300.00	12,380.00	15,486.55	10,511.00	93.62	86.12	56.02	-4,982.63	-2,073.85	3,383.11	3,274.64	108.48	31.188		
17,400.00	12,380.00	15,586.55	10,511.00	95.07	87.60	56.02	-5,082.62	-2,072.87	3,383.12	3,272.85	110.27	30.681		
17,500.00	12,380.00	15,686.55	10,511.00	96.53	89.09	56.02	-5,182.62	-2,071.89	3,383.13	3,271.06	112.07	30.187		
17,600.00	12,380.00	15,786.55	10,511.00	98.00	90.58	56.02	-5,282.61	-2,070.92	3,383.14	3,269.26	113.88	29.708		
17,700.00	12,380.00	15,886.55	10,511.00	99.47	92.07	56.02	-5,382.61	-2,069.94	3,383.15	3,267.46	115.70	29.242		
17,800.00	12,380.00	15,986.55	10,511.00	100.95	93.57	56.02	-5,482.60	-2,068.97	3,383.16	3,265.65	117.52	28.789		
17,900.00	12,380.00	16,086.55	10,511.00	102.43	95.08	56.02	-5,582.60	-2,067.99	3,383.18	3,263.83	119.34	28.348		
18,000.00	12,380.00	16,186.55	10,511.00	103.92	96.59	56.02	-5,682.59	-2,067.02	3,383.19	3,262.01	121.18	27.920		
18,100.00	12,380.00	16,286.55	10,511.00	105.41	98.10	56.02	-5,782.59	-2,066.04	3,383.20	3,260.18	123.01	27.502		
18,200.00	12,380.00	16,386.55	10,511.00	106.91	99.62	56.02	-5,882.59	-2,065.06	3,383.21	3,258.35	124.86	27.096		
18,300.00	12,380.00	16,486.55	10,511.00	108.41	101.14	56.02	-5,982.58	-2,064.09	3,383.22	3,256.51	126.71	26.700		
18,400.00	12,380.00	16,586.55	10,511.00	109.92	102.67	56.02	-6,082.58	-2,063.11	3,383.23	3,254.66	128.56	26.316		
18,500.00	12,380.00	16,686.55	10,511.00	111.43	104.20	56.02	-6,182.57	-2,062.14	3,383.24	3,252.82	130.42	25.941		
18,600.00	12,380.00	16,786.55	10,511.00	112.94	105.74	56.02	-6,282.57	-2,061.16	3,383.25	3,250.96	132.28	25.576		
18,700.00	12,380.00	16,886.55	10,511.00	114.46	107.27	56.02	-6,382.56	-2,060.19	3,383.26	3,249.11	134.15	25.220		
18,800.00	12,380.00	16,986.55	10,511.00	115.98	108.82	56.02	-6,482.56	-2,059.21	3,383.27	3,247.25	136.02	24.874		
18,900.00	12,380.00	17,086.55	10,511.00	117.51	110.36	56.02	-6,582.55	-2,058.23	3,383.28	3,245.38	137.89	24.535		
19,000.00	12,380.00	17,186.55	10,511.00	119.04	111.91	56.02	-6,682.55	-2,057.26	3,383.29	3,243.52	139.77	24.206		
19,100.00	12,380.00	17,286.55	10,511.00	120.57	113.46	56.02	-6,782.54	-2,056.28	3,383.30	3,241.64	141.65	23.884		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													PF Fed Com - PF Fed Com 502H - OH - Plan #1		Offset Site Error:		0.00 usft
Survey Program: 0-OWSG (Rev2) MWD															Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Minimum	Separation	Warning				
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor					
19,200.00	12,380.00	17,386.55	10,511.00	122.11	115.01	56.02	-6,882.54	-2,055.31	3,383.31	3,239.77	143.54	23.571					
19,300.00	12,380.00	17,486.55	10,511.00	123.64	116.57	56.02	-6,982.53	-2,054.33	3,383.32	3,237.89	145.43	23.264					
19,400.00	12,380.00	17,586.55	10,511.00	125.18	118.13	56.02	-7,082.53	-2,053.36	3,383.33	3,236.01	147.32	22.966					
19,500.00	12,380.00	17,686.55	10,511.00	126.73	119.69	56.02	-7,182.52	-2,052.38	3,383.34	3,234.12	149.21	22.674					
19,600.00	12,380.00	17,786.55	10,511.00	128.27	121.25	56.02	-7,282.52	-2,051.41	3,383.35	3,232.24	151.11	22.390					
19,700.00	12,380.00	17,886.55	10,511.00	129.82	122.82	56.02	-7,382.51	-2,050.43	3,383.36	3,230.35	153.01	22.112					
19,800.00	12,380.00	17,986.55	10,511.00	131.38	124.38	56.02	-7,482.51	-2,049.45	3,383.37	3,228.45	154.91	21.840					
19,900.00	12,380.00	18,086.55	10,511.00	132.93	125.95	56.02	-7,582.50	-2,048.48	3,383.38	3,226.56	156.82	21.575					
20,000.00	12,380.00	18,186.55	10,511.00	134.49	127.52	56.02	-7,682.50	-2,047.50	3,383.39	3,224.66	158.72	21.316					
20,100.00	12,380.00	18,286.55	10,511.00	136.04	129.10	56.02	-7,782.49	-2,046.53	3,383.40	3,222.77	160.63	21.063					
20,200.00	12,380.00	18,386.55	10,511.00	137.61	130.67	56.02	-7,882.49	-2,045.55	3,383.41	3,220.87	162.54	20.815					
20,300.00	12,380.00	18,486.55	10,511.00	139.17	132.25	56.02	-7,982.49	-2,044.58	3,383.42	3,218.96	164.46	20.573					
20,400.00	12,380.00	18,586.55	10,511.00	140.73	133.83	56.02	-8,082.48	-2,043.60	3,383.43	3,217.06	166.37	20.337					
20,500.00	12,380.00	18,686.55	10,511.00	142.30	135.41	56.02	-8,182.48	-2,042.62	3,383.44	3,215.15	168.29	20.105					
20,600.00	12,380.00	18,786.55	10,511.00	143.87	137.00	56.02	-8,282.47	-2,041.65	3,383.45	3,213.24	170.21	19.878					
20,700.00	12,380.00	18,886.55	10,511.00	145.44	138.58	56.02	-8,382.47	-2,040.67	3,383.46	3,211.33	172.13	19.656					
20,800.00	12,380.00	18,986.55	10,511.00	147.01	140.17	56.02	-8,482.46	-2,039.70	3,383.47	3,209.41	174.06	19.439					
20,900.00	12,380.00	19,086.55	10,511.00	148.59	141.75	56.02	-8,582.46	-2,038.72	3,383.48	3,207.50	175.98	19.226					
21,000.00	12,380.00	19,186.55	10,511.00	150.16	143.34	56.02	-8,682.45	-2,037.75	3,383.49	3,205.58	177.91	19.018					
21,100.00	12,380.00	19,286.55	10,511.00	151.74	144.93	56.02	-8,782.45	-2,036.77	3,383.50	3,203.67	179.83	18.815					
21,200.00	12,380.00	19,386.55	10,511.00	153.32	146.52	56.02	-8,882.44	-2,035.79	3,383.51	3,201.75	181.76	18.615					
21,300.00	12,380.00	19,486.55	10,511.00	154.90	148.12	56.02	-8,982.44	-2,034.82	3,383.52	3,199.83	183.69	18.419					
21,400.00	12,380.00	19,586.55	10,511.00	156.48	149.71	56.02	-9,082.43	-2,033.84	3,383.53	3,197.91	185.63	18.228					
21,500.00	12,380.00	19,686.55	10,511.00	158.06	151.31	56.02	-9,182.43	-2,032.87	3,383.54	3,195.98	187.56	18.040					
21,600.00	12,380.00	19,786.55	10,511.00	159.65	152.90	56.02	-9,282.42	-2,031.89	3,383.55	3,194.06	189.49	17.856					
21,700.00	12,380.00	19,886.55	10,511.00	161.23	154.50	56.02	-9,382.42	-2,030.92	3,383.56	3,192.14	191.43	17.676					
21,800.00	12,380.00	19,986.55	10,511.00	162.82	156.10	56.02	-9,482.41	-2,029.94	3,383.57	3,190.21	193.36	17.499					
21,900.00	12,380.00	20,086.55	10,511.00	164.41	157.70	56.02	-9,582.41	-2,028.97	3,383.58	3,188.28	195.30	17.325					
22,000.00	12,380.00	20,186.55	10,511.00	166.00	159.30	56.02	-9,682.40	-2,027.99	3,383.59	3,186.35	197.24	17.155					
22,100.00	12,380.00	20,286.55	10,511.00	167.59	160.90	56.02	-9,782.40	-2,027.01	3,383.60	3,184.42	199.18	16.988					
22,200.00	12,380.00	20,386.55	10,511.00	169.18	162.51	56.02	-9,882.39	-2,026.04	3,383.61	3,182.49	201.12	16.824					
22,300.00	12,380.00	20,486.55	10,511.00	170.77	164.11	56.02	-9,982.39	-2,025.06	3,383.62	3,180.56	203.07	16.663					
22,400.00	12,380.00	20,586.55	10,511.00	172.37	165.72	56.02	-10,082.39	-2,024.09	3,383.63	3,178.62	205.01	16.505					
22,500.00	12,380.00	20,686.55	10,511.00	173.96	167.32	56.02	-10,182.38	-2,023.11	3,383.64	3,176.69	206.95	16.350					
22,547.76	12,380.00	20,734.30	10,511.00	174.73	168.09	56.02	-10,230.13	-2,022.65	3,383.65	3,175.77	207.88	16.277					
22,548.65	12,380.00	20,735.20	10,511.00	174.75	168.10	56.02	-10,231.03	-2,022.64	3,383.65	3,175.75	207.89	16.276 SF					

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	22.00	22.00	0.00	0.03	-97.61	-392.48	-2,936.67	2,962.79					
100.00	100.00	122.00	122.00	0.13	0.20	-97.61	-392.48	-2,936.67	2,962.79	2,962.55	0.24	N/A		
200.00	200.00	222.00	222.00	0.48	0.56	-97.61	-392.48	-2,936.67	2,962.79	2,962.04	0.74	3,991.613		
300.00	300.00	322.00	322.00	0.84	0.92	-97.61	-392.48	-2,936.67	2,962.79	2,961.54	1.25	2,373.349		
400.00	400.00	422.00	422.00	1.20	1.28	-97.61	-392.48	-2,936.67	2,962.79	2,961.03	1.75	1,688.243		
500.00	500.00	522.00	522.00	1.56	1.64	-97.61	-392.48	-2,936.67	2,962.79	2,960.52	2.26	1,309.977		
600.00	600.00	622.00	622.00	1.92	2.00	-97.61	-392.48	-2,936.67	2,962.79	2,960.02	2.77	1,070.163		
700.00	700.00	722.00	722.00	2.28	2.36	-97.61	-392.48	-2,936.67	2,962.79	2,959.51	3.28	904.555		
800.00	800.00	822.00	822.00	2.63	2.71	-97.61	-392.48	-2,936.67	2,962.79	2,959.00	3.78	783.330		
900.00	900.00	922.00	922.00	2.99	3.07	-97.61	-392.48	-2,936.67	2,962.79	2,958.50	4.29	690.754		
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-97.61	-392.48	-2,936.67	2,962.79	2,957.99	4.80	617.746		
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-97.61	-392.48	-2,936.67	2,962.79	2,957.48	5.30	558.695		
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-97.61	-392.48	-2,936.67	2,962.79	2,956.98	5.81	509.948		
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-97.61	-392.48	-2,936.67	2,962.79	2,956.47	6.32	469.025		
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-97.61	-392.48	-2,936.67	2,962.79	2,955.96	6.82	434.181		
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-97.61	-392.48	-2,936.67	2,962.79	2,955.45	7.33	404.157		
1,600.00	1,600.00	1,622.00	1,622.00	5.50	5.58	-97.61	-392.48	-2,936.67	2,962.79	2,954.95	7.84	378.016		
1,700.00	1,700.00	1,722.00	1,722.00	5.86	5.94	-97.61	-392.48	-2,936.67	2,962.79	2,954.44	8.34	355.051		
1,800.00	1,800.00	1,822.00	1,822.00	6.22	6.30	-97.61	-392.48	-2,936.67	2,962.79	2,953.93	8.85	334.717		
1,900.00	1,900.00	1,922.00	1,922.00	6.58	6.66	-97.61	-392.48	-2,936.67	2,962.79	2,953.43	9.36	316.586		
1,907.26	1,907.26	1,929.26	1,929.26	6.60	6.68	-97.61	-392.48	-2,936.67	2,962.79	2,953.39	9.40	315.345 CC		
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	-97.61	-392.48	-2,936.67	2,962.87	2,953.06	9.81	302.044 ES		
2,100.00	2,100.00	2,084.09	2,084.09	7.29	7.24	-97.60	-391.81	-2,937.31	2,963.57	2,953.29	10.27	288.452		
2,200.00	2,199.99	2,152.94	2,152.90	7.65	7.48	-172.10	-390.25	-2,938.77	2,966.67	2,955.97	10.69	277.411		
2,300.00	2,299.91	2,221.58	2,221.45	7.99	7.72	-172.04	-387.79	-2,941.07	2,973.40	2,962.30	11.11	267.662		
2,400.00	2,399.69	2,300.00	2,299.69	8.34	8.00	-171.94	-383.89	-2,944.72	2,983.80	2,972.25	11.55	258.371		
2,500.00	2,499.27	2,357.68	2,357.16	8.70	8.21	-171.85	-380.27	-2,948.11	2,997.75	2,985.82	11.93	251.189		
2,601.33	2,599.89	2,425.78	2,424.90	9.06	8.45	-171.72	-375.18	-2,952.88	3,015.58	3,003.23	12.35	244.196		
2,700.00	2,697.71	2,500.00	2,498.57	9.42	8.72	-171.61	-368.63	-2,959.01	3,035.24	3,022.47	12.77	237.630		
2,800.00	2,796.85	2,559.95	2,557.95	9.78	8.94	-171.50	-362.58	-2,964.68	3,056.15	3,042.99	13.16	232.217		
2,900.00	2,895.99	2,653.89	2,650.88	10.15	9.29	-171.33	-352.56	-2,974.06	3,077.63	3,063.98	13.64	225.566		
3,000.00	2,995.13	2,751.08	2,747.03	10.53	9.65	-171.15	-342.20	-2,983.76	3,099.14	3,085.00	14.14	219.186		
3,100.00	3,094.27	2,848.27	2,843.18	10.90	10.02	-170.97	-331.84	-2,993.47	3,120.69	3,106.05	14.64	213.200		
3,200.00	3,193.41	2,945.46	2,939.32	11.28	10.39	-170.79	-321.48	-3,003.17	3,142.26	3,127.12	15.14	207.576		
3,300.00	3,292.55	3,042.65	3,035.47	11.67	10.77	-170.62	-311.12	-3,012.88	3,163.86	3,148.22	15.64	202.284		
3,400.00	3,391.69	3,139.84	3,131.62	12.05	11.14	-170.45	-300.75	-3,022.58	3,185.48	3,169.34	16.15	197.299		
3,500.00	3,490.83	3,237.03	3,227.76	12.44	11.52	-170.28	-290.39	-3,032.29	3,207.14	3,190.49	16.65	192.598		
3,600.00	3,589.97	3,334.22	3,323.91	12.82	11.90	-170.11	-280.03	-3,041.99	3,228.82	3,211.66	17.16	188.157		
3,700.00	3,689.11	3,431.41	3,420.06	13.21	12.29	-169.95	-269.67	-3,051.69	3,250.53	3,232.86	17.67	183.957		
3,800.00	3,788.25	3,528.60	3,516.20	13.60	12.67	-169.79	-259.31	-3,061.40	3,272.26	3,254.08	18.18	179.981		
3,900.00	3,887.39	3,625.78	3,612.35	13.99	13.06	-169.63	-248.95	-3,071.10	3,294.02	3,275.32	18.69	176.212		
4,000.00	3,986.53	3,722.97	3,708.50	14.39	13.45	-169.47	-238.58	-3,080.81	3,315.80	3,296.59	19.21	172.635		
4,100.00	4,085.67	3,820.16	3,804.64	14.78	13.84	-169.31	-228.22	-3,090.51	3,337.60	3,317.88	19.72	169.237		
4,200.00	4,184.81	3,917.35	3,900.79	15.18	14.23	-169.16	-217.86	-3,100.22	3,359.43	3,339.20	20.24	166.005		
4,300.00	4,283.95	4,014.54	3,996.94	15.57	14.62	-169.01	-207.50	-3,109.92	3,381.28	3,360.53	20.75	162.927		
4,400.00	4,383.09	4,111.73	4,093.08	15.97	15.02	-168.86	-197.14	-3,119.62	3,403.16	3,381.89	21.27	159.994		
4,500.00	4,482.23	4,208.92	4,189.23	16.37	15.41	-168.71	-186.77	-3,129.33	3,425.06	3,403.27	21.79	157.196		
4,600.00	4,581.37	4,306.11	4,285.38	16.77	15.81	-168.56	-176.41	-3,139.03	3,446.97	3,424.67	22.31	154.524		
4,700.00	4,680.51	4,403.30	4,381.52	17.17	16.20	-168.42	-166.05	-3,148.74	3,468.91	3,446.09	22.83	151.970		
4,800.00	4,779.65	4,500.49	4,477.67	17.57	16.60	-168.27	-155.69	-3,158.44	3,490.87	3,467.53	23.35	149.527		
4,900.00	4,878.79	4,597.68	4,573.82	17.97	17.00	-168.13	-145.33	-3,168.14	3,512.85	3,488.99	23.87	147.188		
5,000.00	4,977.93	4,694.87	4,669.96	18.37	17.40	-167.99	-134.97	-3,177.85	3,534.86	3,510.47	24.39	144.946		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		
5,100.00	5,077.07	4,792.05	4,766.11	18.77	17.80	-167.86	-124.60	-3,187.55	3,556.88	3,531.97	24.91	142.796		
5,200.00	5,176.21	4,889.24	4,862.26	19.17	18.20	-167.72	-114.24	-3,197.26	3,578.92	3,553.49	25.43	140.732		
5,300.00	5,275.35	4,986.43	4,958.40	19.57	18.60	-167.59	-103.88	-3,206.96	3,600.98	3,575.02	25.95	138.750		
5,400.00	5,374.49	5,083.62	5,054.55	19.98	19.00	-167.45	-93.52	-3,216.67	3,623.05	3,596.58	26.48	136.845		
5,500.00	5,473.63	5,180.81	5,150.70	20.38	19.40	-167.32	-83.16	-3,226.37	3,645.15	3,618.15	27.00	135.013		
5,600.00	5,572.77	5,278.00	5,246.84	20.78	19.80	-167.19	-72.79	-3,236.07	3,667.26	3,639.74	27.52	133.249		
5,700.00	5,671.91	5,375.19	5,342.99	21.19	20.21	-167.07	-62.43	-3,245.78	3,689.40	3,661.35	28.05	131.550		
5,800.00	5,771.05	5,472.38	5,439.14	21.59	20.61	-166.94	-52.07	-3,255.48	3,711.55	3,682.98	28.57	129.912		
5,900.00	5,870.19	5,569.57	5,535.28	22.00	21.01	-166.81	-41.71	-3,265.19	3,733.71	3,704.62	29.09	128.333		
6,000.00	5,969.33	5,666.76	5,631.43	22.40	21.42	-166.69	-31.35	-3,274.89	3,755.89	3,726.28	29.62	126.809		
6,100.00	6,068.47	5,763.95	5,727.58	22.81	21.82	-166.57	-20.99	-3,284.60	3,778.09	3,747.95	30.14	125.338		
6,200.00	6,167.61	5,861.14	5,823.72	23.22	22.22	-166.45	-10.62	-3,294.30	3,800.31	3,769.64	30.67	123.917		
6,300.00	6,266.75	5,958.33	5,919.87	23.62	22.63	-166.33	-0.26	-3,304.00	3,822.54	3,791.35	31.19	122.543		
6,400.00	6,365.89	6,055.51	6,016.02	24.03	23.03	-166.21	10.10	-3,313.71	3,844.79	3,813.07	31.72	121.214		
6,500.00	6,465.03	6,152.70	6,112.16	24.44	23.44	-166.10	20.46	-3,323.41	3,867.05	3,834.81	32.24	119.928		
6,600.00	6,564.17	6,249.89	6,208.31	24.84	23.84	-165.98	30.82	-3,333.12	3,889.33	3,856.56	32.77	118.683		
6,700.00	6,663.31	6,347.08	6,304.46	25.25	24.25	-165.87	41.19	-3,342.82	3,911.62	3,878.32	33.30	117.477		
6,800.00	6,762.45	6,444.27	6,400.61	25.66	24.66	-165.75	51.55	-3,352.53	3,933.93	3,900.10	33.82	116.309		
6,856.14	6,818.11	6,498.83	6,454.58	25.89	24.88	-165.69	57.36	-3,357.97	3,946.46	3,912.34	34.12	115.669		
6,900.00	6,861.62	6,541.51	6,496.80	26.06	25.06	-165.68	61.91	-3,362.23	3,956.01	3,921.66	34.35	115.170		
7,000.00	6,961.05	6,639.15	6,593.39	26.46	25.47	-165.64	72.32	-3,371.98	3,976.02	3,941.15	34.88	114.007		
7,100.00	7,060.72	6,737.21	6,690.40	26.84	25.88	-165.58	82.78	-3,381.78	3,993.56	3,958.16	35.40	112.811		
7,200.00	7,160.57	6,835.62	6,787.76	27.20	26.29	-165.50	93.27	-3,391.60	4,008.61	3,972.69	35.92	111.584		
7,300.00	7,260.53	6,934.27	6,885.81	27.55	27.27	-165.24	115.21	-3,412.15	4,020.15	3,983.22	36.93	108.867		
7,357.47	7,318.00	7,276.28	7,226.02	27.74	28.01	-90.58	125.07	-3,421.38	4,023.21	3,985.57	37.64	106.883		
7,400.00	7,360.53	7,424.22	7,373.92	27.88	28.51	-90.55	127.50	-3,423.66	4,023.85	3,985.73	38.13	105.532		
7,500.00	7,460.53	7,532.83	7,482.53	28.21	28.87	-90.55	127.52	-3,423.67	4,023.86	3,985.23	38.63	104.160		
7,600.00	7,560.53	7,632.83	7,582.53	28.54	29.19	-90.55	127.52	-3,423.67	4,023.86	3,984.75	39.11	102.879		
7,700.00	7,660.53	7,732.83	7,682.53	28.87	29.52	-90.55	127.52	-3,423.67	4,023.86	3,984.26	39.59	101.628		
7,800.00	7,760.53	7,832.83	7,782.53	29.20	29.85	-90.55	127.52	-3,423.67	4,023.86	3,983.78	40.08	100.405		
7,900.00	7,860.53	7,932.83	7,882.53	29.53	30.18	-90.55	127.52	-3,423.67	4,023.86	3,983.30	40.56	99.209		
8,000.00	7,960.53	8,032.83	7,982.53	29.87	30.51	-90.55	127.52	-3,423.67	4,023.86	3,982.82	41.04	98.040		
8,100.00	8,060.53	8,132.83	8,082.53	30.20	30.84	-90.55	127.52	-3,423.67	4,023.86	3,982.33	41.53	96.898		
8,200.00	8,160.53	8,232.83	8,182.53	30.53	31.17	-90.55	127.52	-3,423.67	4,023.86	3,981.85	42.01	95.780		
8,300.00	8,260.53	8,332.83	8,282.53	30.87	31.50	-90.55	127.52	-3,423.67	4,023.86	3,981.36	42.50	94.687		
8,400.00	8,360.53	8,432.83	8,382.53	31.20	31.84	-90.55	127.52	-3,423.67	4,023.86	3,980.88	42.98	93.617		
8,500.00	8,460.53	8,532.83	8,482.53	31.54	32.17	-90.55	127.52	-3,423.67	4,023.86	3,980.39	43.47	92.570		
8,600.00	8,560.53	8,632.83	8,582.53	31.88	32.50	-90.55	127.52	-3,423.67	4,023.86	3,979.90	43.95	91.545		
8,700.00	8,660.53	8,732.83	8,682.53	32.21	32.84	-90.55	127.52	-3,423.67	4,023.86	3,979.42	44.44	90.542		
8,800.00	8,760.53	8,832.83	8,782.53	32.55	33.17	-90.55	127.52	-3,423.67	4,023.86	3,978.93	44.93	89.560		
8,900.00	8,860.53	8,932.83	8,882.53	32.89	33.51	-90.55	127.52	-3,423.67	4,023.86	3,978.44	45.42	88.597		
9,000.00	8,960.53	9,032.83	8,982.53	33.23	33.84	-90.55	127.52	-3,423.67	4,023.86	3,977.95	45.91	87.655		
9,100.00	9,060.53	9,132.83	9,082.53	33.56	34.18	-90.55	127.52	-3,423.67	4,023.86	3,977.46	46.39	86.732		
9,200.00	9,160.53	9,232.83	9,182.53	33.90	34.52	-90.55	127.52	-3,423.67	4,023.86	3,976.97	46.88	85.827		
9,300.00	9,260.53	9,332.83	9,282.53	34.24	34.85	-90.55	127.52	-3,423.67	4,023.86	3,976.49	47.37	84.940		
9,400.00	9,360.53	9,432.83	9,382.53	34.58	35.19	-90.55	127.52	-3,423.67	4,023.86	3,976.00	47.86	84.071		
9,500.00	9,460.53	9,532.83	9,482.53	34.92	35.53	-90.55	127.52	-3,423.67	4,023.86	3,975.51	48.35	83.219		
9,600.00	9,560.53	9,632.83	9,582.53	35.26	35.87	-90.55	127.52	-3,423.67	4,023.86	3,975.01	48.84	82.383		
9,700.00	9,660.53	9,732.83	9,682.53	35.60	36.21	-90.55	127.52	-3,423.67	4,023.86	3,974.52	49.33	81.563		
9,800.00	9,760.53	9,832.83	9,782.53	35.94	36.55	-90.55	127.52	-3,423.67	4,023.86	3,974.03	49.83	80.759		
9,900.00	9,860.53	9,932.83	9,882.53	36.29	36.88	-90.55	127.52	-3,423.67	4,023.86	3,973.54	50.32	79.970		
10,000.00	9,960.53	10,032.83	9,982.53	36.63	37.22	-90.55	127.52	-3,423.67	4,023.86	3,973.05	50.81	79.196		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	10,060.53	10,132.83	10,082.53	36.97	37.56	-90.55	127.52	-3,423.67	4,023.86	3,972.56	51.30	78.436		
10,200.00	10,160.53	10,232.83	10,182.53	37.31	37.91	-90.55	127.52	-3,423.67	4,023.86	3,972.07	51.79	77.691		
10,300.00	10,260.53	10,332.83	10,282.53	37.65	38.25	-90.55	127.52	-3,423.67	4,023.86	3,971.57	52.29	76.959		
10,400.00	10,360.53	10,432.83	10,382.53	38.00	38.59	-90.55	127.52	-3,423.67	4,023.86	3,971.08	52.78	76.240		
10,500.00	10,460.53	10,532.83	10,482.53	38.34	38.93	-90.55	127.52	-3,423.67	4,023.86	3,970.59	53.27	75.534		
10,600.00	10,560.53	10,632.83	10,582.53	38.68	39.27	-90.55	127.52	-3,423.67	4,023.86	3,970.09	53.77	74.841		
10,700.00	10,660.53	10,732.83	10,682.53	39.03	39.61	-90.55	127.52	-3,423.67	4,023.86	3,969.60	54.26	74.160		
10,800.00	10,760.53	10,832.83	10,782.53	39.37	39.96	-90.55	127.52	-3,423.67	4,023.86	3,969.11	54.75	73.491		
10,900.00	10,860.53	10,932.83	10,882.53	39.72	40.30	-90.55	127.52	-3,423.67	4,023.86	3,968.61	55.25	72.834		
11,000.00	10,960.53	11,032.83	10,982.53	40.06	40.64	-90.55	127.52	-3,423.67	4,023.86	3,968.12	55.74	72.188		
11,100.00	11,060.53	11,132.83	11,082.53	40.41	40.98	-90.55	127.52	-3,423.67	4,023.86	3,967.62	56.24	71.553		
11,200.00	11,160.53	11,232.83	11,182.53	40.75	41.33	-90.55	127.52	-3,423.67	4,023.86	3,967.13	56.73	70.928		
11,300.00	11,260.53	11,332.83	11,282.53	41.10	41.67	-90.55	127.52	-3,423.67	4,023.86	3,966.63	57.23	70.315		
11,400.00	11,360.53	11,432.83	11,382.53	41.44	42.01	-90.55	127.52	-3,423.67	4,023.86	3,966.14	57.72	69.712		
11,500.00	11,460.53	11,532.83	11,482.53	41.79	42.36	-90.55	127.52	-3,423.67	4,023.86	3,965.64	58.22	69.118		
11,600.00	11,560.53	11,632.83	11,582.53	42.13	42.70	-90.55	127.52	-3,423.67	4,023.86	3,965.15	58.71	68.535		
11,700.00	11,660.53	11,732.83	11,682.53	42.48	43.05	-90.55	127.52	-3,423.67	4,023.86	3,964.65	59.21	67.961		
11,800.00	11,760.53	11,832.83	11,782.53	42.83	43.39	-90.55	127.52	-3,423.67	4,023.86	3,964.15	59.70	67.396		
11,846.51	11,807.04	11,879.34	11,829.04	42.99	43.55	-90.55	127.52	-3,423.67	4,023.86	3,963.92	59.94	67.137		
11,850.00	11,810.53	11,882.83	11,832.53	43.00	43.57	96.35	127.52	-3,423.67	4,023.86	3,963.91	59.95	67.118		
11,900.00	11,860.45	11,932.76	11,882.45	43.16	43.74	96.36	127.52	-3,423.67	4,024.14	3,963.95	60.19	66.857		
11,950.00	11,909.97	11,982.27	11,931.97	43.31	43.91	96.38	127.52	-3,423.67	4,024.90	3,964.48	60.42	66.613		
12,000.00	11,958.70	12,031.37	11,981.07	43.46	44.08	96.41	127.43	-3,423.67	4,026.17	3,965.52	60.65	66.387		
12,050.00	12,006.28	12,082.22	12,031.81	43.61	44.23	96.41	124.29	-3,423.64	4,027.94	3,967.09	60.86	66.185		
12,100.00	12,052.34	12,134.26	12,083.23	43.75	44.37	96.36	116.43	-3,423.57	4,030.21	3,969.15	61.06	66.007		
12,150.00	12,096.54	12,187.54	12,134.91	43.87	44.50	96.27	103.58	-3,423.44	4,032.94	3,971.69	61.25	65.849		
12,200.00	12,138.53	12,242.11	12,186.38	43.99	44.62	96.13	85.51	-3,423.26	4,036.11	3,974.69	61.42	65.712		
12,250.00	12,178.00	12,298.01	12,237.08	44.10	44.73	95.95	62.01	-3,423.04	4,039.70	3,978.11	61.59	65.594		
12,300.00	12,214.64	12,355.26	12,286.37	44.21	44.82	95.72	32.94	-3,422.75	4,043.68	3,981.93	61.74	65.494		
12,350.00	12,248.19	12,413.87	12,333.57	44.30	44.89	95.45	-1.75	-3,422.41	4,048.00	3,986.11	61.89	65.410		
12,400.00	12,278.37	12,473.81	12,377.92	44.39	44.94	95.14	-42.04	-3,422.02	4,052.63	3,990.61	62.02	65.339		
12,450.00	12,304.97	12,535.03	12,418.62	44.48	44.98	94.79	-87.73	-3,421.57	4,057.53	3,995.37	62.16	65.278		
12,500.00	12,327.78	12,597.46	12,454.87	44.58	45.00	94.40	-138.52	-3,421.08	4,062.65	4,000.36	62.29	65.224		
12,550.00	12,346.63	12,660.97	12,485.85	44.68	45.00	93.98	-193.92	-3,420.54	4,067.95	4,005.53	62.42	65.173		
12,600.00	12,361.37	12,725.41	12,510.82	44.79	44.99	93.52	-253.29	-3,419.96	4,073.38	4,010.83	62.55	65.123		
12,650.00	12,371.89	12,790.60	12,529.15	44.91	44.96	93.03	-315.81	-3,419.35	4,078.89	4,016.21	62.68	65.072		
12,700.00	12,378.11	12,856.31	12,540.31	45.04	44.93	92.51	-380.53	-3,418.72	4,084.45	4,021.63	62.82	65.017		
12,746.51	12,380.00	12,917.71	12,543.99	45.17	44.89	92.00	-441.78	-3,418.12	4,089.61	4,026.65	62.95	64.963		
12,800.00	12,380.00	12,971.82	12,544.00	45.34	44.86	92.00	-495.89	-3,417.59	4,095.01	4,031.91	63.10	64.892		
12,900.00	12,380.00	13,071.54	12,544.00	45.69	44.97	91.99	-595.60	-3,416.62	4,102.46	4,039.01	63.45	64.656		
13,000.00	12,380.00	13,171.46	12,544.00	46.08	45.23	91.98	-695.51	-3,415.65	4,106.42	4,042.54	63.88	64.287		
13,063.21	12,380.00	13,234.66	12,544.00	46.35	45.42	91.98	-758.72	-3,415.03	4,107.12	4,042.93	64.19	63.987		
13,100.00	12,380.00	13,271.45	12,544.00	46.52	45.54	91.98	-795.50	-3,414.67	4,107.13	4,042.74	64.38	63.793		
13,200.00	12,380.00	13,371.45	12,544.00	47.00	45.91	91.98	-895.50	-3,413.69	4,107.14	4,042.17	64.97	63.218		
13,300.00	12,380.00	13,471.45	12,544.00	47.54	46.32	91.98	-995.50	-3,412.72	4,107.15	4,041.52	65.63	62.578		
13,400.00	12,380.00	13,571.45	12,544.00	48.13	46.79	91.98	-1,095.49	-3,411.74	4,107.16	4,040.79	66.37	61.881		
13,500.00	12,380.00	13,671.45	12,544.00	48.77	47.30	91.98	-1,195.49	-3,410.77	4,107.18	4,039.99	67.18	61.133		
13,600.00	12,380.00	13,771.45	12,544.00	49.45	47.87	91.98	-1,295.48	-3,409.79	4,107.19	4,039.12	68.07	60.340		
13,700.00	12,380.00	13,871.45	12,544.00	50.18	48.48	91.98	-1,395.48	-3,408.82	4,107.20	4,038.18	69.02	59.509		
13,800.00	12,380.00	13,971.45	12,544.00	50.95	49.14	91.98	-1,495.47	-3,407.84	4,107.21	4,037.18	70.03	58.647		
13,900.00	12,380.00	14,071.45	12,544.00	51.77	49.85	91.98	-1,595.47	-3,406.87	4,107.23	4,036.11	71.11	57.758		
14,000.00	12,380.00	14,171.45	12,544.00	52.62	50.59	91.98	-1,695.46	-3,405.89	4,107.24	4,034.99	72.25	56.849		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		PF Fed Com - PF Fed Com 801H - OH - Plan #1											Offset Site Error:		0.00 usft
Survey Program:		0-OWSG (Rev2) MWD											Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,100.00	12,380.00	14,271.45	12,544.00	53.51	51.38	91.98	-1,795.46	-3,404.91	4,107.25	4,033.81	73.44	55.925			
14,200.00	12,380.00	14,371.45	12,544.00	54.44	52.21	91.98	-1,895.45	-3,403.94	4,107.26	4,032.57	74.69	54.991			
14,300.00	12,380.00	14,471.45	12,544.00	55.40	53.07	91.98	-1,995.45	-3,402.96	4,107.27	4,031.29	75.99	54.052			
14,400.00	12,380.00	14,571.45	12,544.00	56.39	53.98	91.98	-2,095.44	-3,401.99	4,107.29	4,029.95	77.34	53.110			
14,500.00	12,380.00	14,671.45	12,544.00	57.41	54.91	91.98	-2,195.44	-3,401.01	4,107.30	4,028.57	78.73	52.170			
14,600.00	12,380.00	14,771.45	12,544.00	58.46	55.88	91.98	-2,295.43	-3,400.04	4,107.31	4,027.15	80.17	51.235			
14,700.00	12,380.00	14,871.45	12,544.00	59.54	56.88	91.98	-2,395.43	-3,399.06	4,107.32	4,025.68	81.65	50.307			
14,800.00	12,380.00	14,971.45	12,544.00	60.64	57.91	91.98	-2,495.42	-3,398.09	4,107.34	4,024.17	83.16	49.389			
14,900.00	12,380.00	15,071.45	12,544.00	61.77	58.97	91.98	-2,595.42	-3,397.11	4,107.35	4,022.63	84.72	48.482			
15,000.00	12,380.00	15,171.45	12,544.00	62.92	60.05	91.98	-2,695.41	-3,396.13	4,107.36	4,021.05	86.31	47.589			
15,100.00	12,380.00	15,271.45	12,544.00	64.09	61.16	91.98	-2,795.41	-3,395.16	4,107.37	4,019.44	87.93	46.710			
15,200.00	12,380.00	15,371.45	12,544.00	65.28	62.30	91.98	-2,895.40	-3,394.18	4,107.39	4,017.80	89.59	45.847			
15,300.00	12,380.00	15,471.45	12,544.00	66.50	63.45	91.98	-2,995.40	-3,393.21	4,107.40	4,016.13	91.27	45.001			
15,400.00	12,380.00	15,571.45	12,544.00	67.73	64.63	91.98	-3,095.40	-3,392.23	4,107.41	4,014.43	92.99	44.173			
15,500.00	12,380.00	15,671.45	12,544.00	68.98	65.83	91.98	-3,195.39	-3,391.26	4,107.42	4,012.70	94.73	43.362			
15,600.00	12,380.00	15,771.45	12,544.00	70.24	67.04	91.98	-3,295.39	-3,390.28	4,107.44	4,010.95	96.49	42.569			
15,700.00	12,380.00	15,871.45	12,544.00	71.52	68.28	91.98	-3,395.38	-3,389.31	4,107.45	4,009.17	98.28	41.794			
15,800.00	12,380.00	15,971.45	12,544.00	72.82	69.53	91.98	-3,495.38	-3,388.33	4,107.46	4,007.37	100.09	41.038			
15,900.00	12,380.00	16,071.45	12,544.00	74.13	70.80	91.98	-3,595.37	-3,387.35	4,107.47	4,005.55	101.92	40.301			
16,000.00	12,380.00	16,171.45	12,544.00	75.46	72.08	91.98	-3,695.37	-3,386.38	4,107.49	4,003.71	103.77	39.581			
16,100.00	12,380.00	16,271.45	12,544.00	76.79	73.38	91.98	-3,795.36	-3,385.40	4,107.50	4,001.85	105.64	38.880			
16,200.00	12,380.00	16,371.45	12,544.00	78.14	74.69	91.98	-3,895.36	-3,384.43	4,107.51	3,999.98	107.53	38.197			
16,300.00	12,380.00	16,471.45	12,544.00	79.50	76.02	91.98	-3,995.35	-3,383.45	4,107.52	3,998.08	109.44	37.532			
16,400.00	12,380.00	16,571.45	12,544.00	80.87	77.36	91.98	-4,095.35	-3,382.48	4,107.53	3,996.17	111.36	36.884			
16,500.00	12,380.00	16,671.45	12,544.00	82.25	78.71	91.98	-4,195.34	-3,381.50	4,107.55	3,994.25	113.30	36.253			
16,600.00	12,380.00	16,771.45	12,544.00	83.64	80.07	91.98	-4,295.34	-3,380.53	4,107.56	3,992.30	115.25	35.639			
16,700.00	12,380.00	16,871.45	12,544.00	85.04	81.44	91.98	-4,395.33	-3,379.55	4,107.57	3,990.35	117.22	35.041			
16,800.00	12,380.00	16,971.45	12,544.00	86.45	82.82	91.98	-4,495.33	-3,378.58	4,107.58	3,988.38	119.20	34.459			
16,900.00	12,380.00	17,071.45	12,544.00	87.87	84.21	91.98	-4,595.32	-3,377.60	4,107.60	3,986.40	121.20	33.892			
17,000.00	12,380.00	17,171.45	12,544.00	89.30	85.61	91.98	-4,695.32	-3,376.62	4,107.61	3,984.41	123.20	33.341			
17,100.00	12,380.00	17,271.45	12,544.00	90.73	87.02	91.98	-4,795.31	-3,375.65	4,107.62	3,982.41	125.22	32.804			
17,200.00	12,380.00	17,371.45	12,544.00	92.17	88.44	91.98	-4,895.31	-3,374.67	4,107.63	3,980.39	127.24	32.282			
17,300.00	12,380.00	17,471.45	12,544.00	93.62	89.87	91.98	-4,995.30	-3,373.70	4,107.65	3,978.37	129.28	31.773			
17,400.00	12,380.00	17,571.45	12,544.00	95.07	91.30	91.98	-5,095.30	-3,372.72	4,107.66	3,976.33	131.33	31.278			
17,500.00	12,380.00	17,671.45	12,544.00	96.53	92.74	91.98	-5,195.30	-3,371.75	4,107.67	3,974.29	133.39	30.795			
17,600.00	12,380.00	17,771.45	12,544.00	98.00	94.19	91.98	-5,295.29	-3,370.77	4,107.68	3,972.23	135.45	30.326			
17,700.00	12,380.00	17,871.45	12,544.00	99.47	95.64	91.98	-5,395.29	-3,369.80	4,107.70	3,970.17	137.53	29.869			
17,800.00	12,380.00	17,971.45	12,544.00	100.95	97.11	91.98	-5,495.28	-3,368.82	4,107.71	3,968.10	139.61	29.423			
17,900.00	12,380.00	18,071.45	12,544.00	102.43	98.57	91.98	-5,595.28	-3,367.84	4,107.72	3,966.02	141.70	28.989			
18,000.00	12,380.00	18,171.45	12,544.00	103.92	100.04	91.98	-5,695.27	-3,366.87	4,107.73	3,963.94	143.80	28.566			
18,100.00	12,380.00	18,271.45	12,544.00	105.41	101.52	91.98	-5,795.27	-3,365.89	4,107.75	3,961.84	145.90	28.154			
18,200.00	12,380.00	18,371.45	12,544.00	106.91	103.00	91.98	-5,895.26	-3,364.92	4,107.76	3,959.74	148.01	27.752			
18,300.00	12,380.00	18,471.45	12,544.00	108.41	104.49	91.98	-5,995.26	-3,363.94	4,107.77	3,957.64	150.13	27.361			
18,400.00	12,380.00	18,571.45	12,544.00	109.92	105.99	91.98	-6,095.25	-3,362.97	4,107.78	3,955.52	152.26	26.979			
18,500.00	12,380.00	18,671.45	12,544.00	111.43	107.48	91.98	-6,195.25	-3,361.99	4,107.79	3,953.41	154.39	26.607			
18,600.00	12,380.00	18,771.45	12,544.00	112.94	108.99	91.98	-6,295.24	-3,361.02	4,107.81	3,951.28	156.53	26.244			
18,700.00	12,380.00	18,871.45	12,544.00	114.46	110.49	91.98	-6,395.24	-3,360.04	4,107.82	3,949.15	158.67	25.889			
18,800.00	12,380.00	18,971.45	12,544.00	115.98	112.00	91.98	-6,495.23	-3,359.06	4,107.83	3,947.02	160.82	25.544			
18,900.00	12,380.00	19,071.45	12,544.00	117.51	113.52	91.98	-6,595.23	-3,358.09	4,107.84	3,944.88	162.97	25.206			
19,000.00	12,380.00	19,171.45	12,544.00	119.04	115.03	91.98	-6,695.22	-3,357.11	4,107.86	3,942.73	165.13	24.877			
19,100.00	12,380.00	19,271.45	12,544.00	120.57	116.56	91.98	-6,795.22	-3,356.14	4,107.87	3,940.58	167.29	24.555			
19,200.00	12,380.00	19,371.45	12,544.00	122.11	118.08	91.98	-6,895.21	-3,355.16	4,107.88	3,938.42	169.46	24.241			

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													PF Fed Com - PF Fed Com 801H - OH - Plan #1		Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor					
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)					
19,300.00	12,380.00	19,471.45	12,544.00	123.64	119.61	91.98	-6,995.21	-3,354.19	4,107.89	3,936.27	171.63	23.935				
19,400.00	12,380.00	19,571.45	12,544.00	125.18	121.14	91.98	-7,095.21	-3,353.21	4,107.91	3,934.10	173.80	23.635				
19,500.00	12,380.00	19,671.45	12,544.00	126.73	122.68	91.98	-7,195.20	-3,352.24	4,107.92	3,931.93	175.98	23.343				
19,600.00	12,380.00	19,771.45	12,544.00	128.27	124.21	91.98	-7,295.20	-3,351.26	4,107.93	3,929.76	178.17	23.057				
19,700.00	12,380.00	19,871.45	12,544.00	129.82	125.76	91.98	-7,395.19	-3,350.29	4,107.94	3,927.59	180.36	22.777				
19,800.00	12,380.00	19,971.45	12,544.00	131.38	127.30	91.98	-7,495.19	-3,349.31	4,107.96	3,925.41	182.55	22.504				
19,900.00	12,380.00	20,071.45	12,544.00	132.93	128.84	91.98	-7,595.18	-3,348.33	4,107.97	3,923.23	184.74	22.236				
20,000.00	12,380.00	20,171.45	12,544.00	134.49	130.39	91.98	-7,695.18	-3,347.36	4,107.98	3,921.04	186.94	21.975				
20,100.00	12,380.00	20,271.45	12,544.00	136.04	131.94	91.98	-7,795.17	-3,346.38	4,107.99	3,918.85	189.14	21.719				
20,200.00	12,380.00	20,371.45	12,544.00	137.61	133.50	91.98	-7,895.17	-3,345.41	4,108.01	3,916.66	191.34	21.469				
20,300.00	12,380.00	20,471.45	12,544.00	139.17	135.05	91.98	-7,995.16	-3,344.43	4,108.02	3,914.47	193.55	21.224				
20,400.00	12,380.00	20,571.45	12,544.00	140.73	136.61	91.98	-8,095.16	-3,343.46	4,108.03	3,912.27	195.76	20.985				
20,500.00	12,380.00	20,671.45	12,544.00	142.30	138.17	91.98	-8,195.15	-3,342.48	4,108.04	3,910.07	197.98	20.750				
20,600.00	12,380.00	20,771.45	12,544.00	143.87	139.74	91.98	-8,295.15	-3,341.51	4,108.05	3,907.86	200.19	20.521				
20,700.00	12,380.00	20,871.45	12,544.00	145.44	141.30	91.98	-8,395.14	-3,340.53	4,108.07	3,905.66	202.41	20.296				
20,800.00	12,380.00	20,971.45	12,544.00	147.01	142.87	91.98	-8,495.14	-3,339.55	4,108.08	3,903.45	204.63	20.075				
20,900.00	12,380.00	21,071.45	12,544.00	148.59	144.43	91.98	-8,595.13	-3,338.58	4,108.09	3,901.24	206.86	19.860				
21,000.00	12,380.00	21,171.45	12,544.00	150.16	146.00	91.98	-8,695.13	-3,337.60	4,108.10	3,899.02	209.08	19.648				
21,100.00	12,380.00	21,271.45	12,544.00	151.74	147.58	91.98	-8,795.12	-3,336.63	4,108.12	3,896.81	211.31	19.441				
21,200.00	12,380.00	21,371.45	12,544.00	153.32	149.15	91.98	-8,895.12	-3,335.65	4,108.13	3,894.59	213.54	19.238				
21,300.00	12,380.00	21,471.45	12,544.00	154.90	150.73	91.98	-8,995.11	-3,334.68	4,108.14	3,892.37	215.77	19.039				
21,400.00	12,380.00	21,571.45	12,544.00	156.48	152.30	91.98	-9,095.11	-3,333.70	4,108.15	3,890.14	218.01	18.844				
21,500.00	12,380.00	21,671.45	12,544.00	158.06	153.88	91.98	-9,195.11	-3,332.73	4,108.17	3,887.92	220.25	18.653				
21,600.00	12,380.00	21,771.45	12,544.00	159.65	155.46	91.98	-9,295.10	-3,331.75	4,108.18	3,885.69	222.49	18.465				
21,700.00	12,380.00	21,871.45	12,544.00	161.23	157.04	91.98	-9,395.10	-3,330.77	4,108.19	3,883.46	224.73	18.281				
21,800.00	12,380.00	21,971.45	12,544.00	162.82	158.62	91.98	-9,495.09	-3,329.80	4,108.20	3,881.23	226.97	18.100				
21,900.00	12,380.00	22,071.45	12,544.00	164.41	160.21	91.98	-9,595.09	-3,328.82	4,108.22	3,879.00	229.21	17.923				
22,000.00	12,380.00	22,171.45	12,544.00	166.00	161.79	91.98	-9,695.08	-3,327.85	4,108.23	3,876.77	231.46	17.749				
22,100.00	12,380.00	22,271.45	12,544.00	167.59	163.38	91.98	-9,795.08	-3,326.87	4,108.24	3,874.53	233.71	17.578				
22,200.00	12,380.00	22,371.45	12,544.00	169.18	164.97	91.98	-9,895.07	-3,325.90	4,108.25	3,872.29	235.96	17.411				
22,300.00	12,380.00	22,471.45	12,544.00	170.77	166.56	91.98	-9,995.07	-3,324.92	4,108.27	3,870.05	238.21	17.246				
22,400.00	12,380.00	22,571.45	12,544.00	172.37	168.15	91.98	-10,095.06	-3,323.95	4,108.28	3,867.81	240.46	17.085				
22,500.00	12,380.00	22,671.45	12,544.00	173.96	169.74	91.98	-10,195.06	-3,322.97	4,108.29	3,865.57	242.72	16.926				
22,500.16	12,380.00	22,671.61	12,544.00	173.97	169.74	91.98	-10,195.22	-3,322.97	4,108.29	3,865.57	242.72	16.926				
22,547.76	12,380.00	22,715.49	12,544.00	174.73	170.44	91.98	-10,239.09	-3,322.54	4,108.30	3,864.55	243.75	16.854				
22,548.65	12,380.00	22,715.49	12,544.00	174.75	170.44	91.98	-10,239.09	-3,322.54	4,108.30	3,864.54	243.76	16.854 SF				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	22.00	22.00	0.00	0.03	-97.67	-392.25	-2,911.58	2,937.89					
100.00	100.00	122.00	122.00	0.13	0.20	-97.67	-392.25	-2,911.58	2,937.89	2,937.65	0.24	N/A		
200.00	200.00	222.00	222.00	0.48	0.56	-97.67	-392.25	-2,911.58	2,937.89	2,937.15	0.74	3,958.069		
300.00	300.00	322.00	322.00	0.84	0.92	-97.67	-392.25	-2,911.58	2,937.89	2,936.64	1.25	2,353.405		
400.00	400.00	422.00	422.00	1.20	1.28	-97.67	-392.25	-2,911.58	2,937.89	2,936.13	1.75	1,674.056		
500.00	500.00	522.00	522.00	1.56	1.64	-97.67	-392.25	-2,911.58	2,937.89	2,935.63	2.26	1,298.968		
600.00	600.00	622.00	622.00	1.92	2.00	-97.67	-392.25	-2,911.58	2,937.89	2,935.12	2.77	1,061.169		
700.00	700.00	722.00	722.00	2.28	2.36	-97.67	-392.25	-2,911.58	2,937.89	2,934.61	3.28	896.954		
800.00	800.00	822.00	822.00	2.63	2.71	-97.67	-392.25	-2,911.58	2,937.89	2,934.11	3.78	776.747		
900.00	900.00	922.00	922.00	2.99	3.07	-97.67	-392.25	-2,911.58	2,937.89	2,933.60	4.29	684.949		
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-97.67	-392.25	-2,911.58	2,937.89	2,933.09	4.80	612.555		
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-97.67	-392.25	-2,911.58	2,937.89	2,932.58	5.30	554.000		
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-97.67	-392.25	-2,911.58	2,937.89	2,932.08	5.81	505.663		
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-97.67	-392.25	-2,911.58	2,937.89	2,931.57	6.32	465.083		
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-97.67	-392.25	-2,911.58	2,937.89	2,931.06	6.82	430.533		
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-97.67	-392.25	-2,911.58	2,937.89	2,930.56	7.33	400.760		
1,600.00	1,600.00	1,622.00	1,622.00	5.50	5.58	-97.67	-392.25	-2,911.58	2,937.89	2,930.05	7.84	374.839		
1,700.00	1,700.00	1,722.00	1,722.00	5.86	5.94	-97.67	-392.25	-2,911.58	2,937.89	2,929.54	8.34	352.068		
1,800.00	1,800.00	1,822.00	1,822.00	6.22	6.30	-97.67	-392.25	-2,911.58	2,937.89	2,929.04	8.85	331.904		
1,900.00	1,900.00	1,922.00	1,922.00	6.58	6.66	-97.67	-392.25	-2,911.58	2,937.89	2,928.53	9.36	313.925		
2,000.00	2,000.00	2,022.00	2,022.00	6.94	7.02	-97.67	-392.25	-2,911.58	2,937.89	2,928.02	9.87	297.794		
2,100.00	2,100.00	2,122.00	2,122.00	7.29	7.37	-97.67	-392.25	-2,911.58	2,937.89	2,927.52	10.37	283.239 CC, ES		
2,200.00	2,199.99	2,240.94	2,240.94	7.65	7.80	-172.21	-392.06	-2,911.48	2,939.11	2,928.19	10.92	269.089		
2,300.00	2,299.91	2,427.04	2,426.90	7.99	8.46	-172.12	-386.37	-2,908.28	2,940.89	2,929.26	11.63	252.793		
2,400.00	2,399.69	2,612.67	2,611.87	8.34	9.13	-171.91	-372.83	-2,900.68	2,942.35	2,930.01	12.34	238.458		
2,500.00	2,499.27	2,746.02	2,744.23	8.70	9.61	-171.68	-358.69	-2,892.74	2,944.05	2,931.13	12.92	227.893		
2,601.33	2,599.89	2,846.90	2,844.29	9.06	9.98	-171.51	-347.53	-2,886.48	2,948.21	2,934.79	13.43	219.588		
2,700.00	2,697.71	2,945.08	2,941.68	9.42	10.34	-171.35	-336.67	-2,880.38	2,953.58	2,939.66	13.92	212.144		
2,800.00	2,796.85	3,044.59	3,040.38	9.78	10.71	-171.19	-325.67	-2,874.20	2,959.04	2,944.61	14.43	205.090		
2,900.00	2,895.99	3,144.10	3,139.09	10.15	11.08	-171.03	-314.66	-2,868.02	2,964.53	2,949.59	14.94	198.482		
3,000.00	2,995.13	3,243.61	3,237.79	10.53	11.46	-170.87	-303.66	-2,861.85	2,970.03	2,954.59	15.45	192.283		
3,100.00	3,094.27	3,343.11	3,336.50	10.90	11.83	-170.71	-292.65	-2,855.67	2,975.57	2,959.61	15.96	186.458		
3,200.00	3,193.41	3,442.62	3,435.20	11.28	12.21	-170.56	-281.65	-2,849.49	2,981.12	2,964.65	16.47	180.977		
3,300.00	3,292.55	3,542.13	3,533.91	11.67	12.59	-170.40	-270.64	-2,843.31	2,986.70	2,969.71	16.99	175.810		
3,400.00	3,391.69	3,641.64	3,632.61	12.05	12.97	-170.24	-259.64	-2,837.13	2,992.29	2,974.79	17.51	170.935		
3,500.00	3,490.83	3,741.15	3,731.32	12.44	13.36	-170.09	-248.63	-2,830.95	2,997.92	2,979.89	18.02	166.327		
3,600.00	3,589.97	3,840.66	3,830.02	12.82	13.74	-169.93	-237.63	-2,824.77	3,003.56	2,985.01	18.54	161.966		
3,700.00	3,689.11	3,940.17	3,928.73	13.21	14.13	-169.78	-226.62	-2,818.60	3,009.22	2,990.16	19.07	157.834		
3,800.00	3,788.25	4,039.67	4,027.43	13.60	14.51	-169.62	-215.61	-2,812.42	3,014.91	2,995.32	19.59	153.914		
3,900.00	3,887.39	4,139.18	4,126.14	13.99	14.90	-169.47	-204.61	-2,806.24	3,020.62	3,000.51	20.11	150.191		
4,000.00	3,986.53	4,238.69	4,224.84	14.39	15.29	-169.32	-193.60	-2,800.06	3,026.35	3,005.71	20.64	146.650		
4,100.00	4,085.67	4,338.20	4,323.55	14.78	15.68	-169.17	-182.60	-2,793.88	3,032.10	3,010.94	21.16	143.279		
4,200.00	4,184.81	4,437.71	4,422.25	15.18	16.07	-169.01	-171.59	-2,787.70	3,037.87	3,016.19	21.69	140.067		
4,300.00	4,283.95	4,537.22	4,520.96	15.57	16.46	-168.86	-160.59	-2,781.52	3,043.67	3,021.45	22.22	137.003		
4,400.00	4,383.09	4,636.72	4,619.66	15.97	16.85	-168.71	-149.58	-2,775.34	3,049.48	3,026.74	22.74	134.078		
4,500.00	4,482.23	4,736.23	4,718.36	16.37	17.24	-168.56	-138.58	-2,769.17	3,055.32	3,032.05	23.27	131.281		
4,600.00	4,581.37	4,835.74	4,817.77	16.77	17.64	-168.41	-127.57	-2,762.99	3,061.18	3,037.38	23.80	128.606		
4,700.00	4,680.51	4,935.25	4,915.77	17.17	18.03	-168.26	-116.57	-2,756.81	3,067.06	3,042.72	24.33	126.045		
4,800.00	4,779.65	5,034.76	5,014.48	17.57	18.42	-168.12	-105.56	-2,750.63	3,072.96	3,048.09	24.86	123.591		
4,900.00	4,878.79	5,134.27	5,113.18	17.97	18.82	-167.97	-94.56	-2,744.45	3,078.88	3,053.48	25.40	121.237		
5,000.00	4,977.93	5,233.77	5,211.89	18.37	19.21	-167.82	-83.55	-2,738.27	3,084.82	3,058.89	25.93	118.977		
5,100.00	5,077.07	5,333.28	5,310.59	18.77	19.61	-167.67	-72.55	-2,732.09	3,090.78	3,064.32	26.46	116.807		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		
5,200.00	5,176.21	5,432.79	5,409.30	19.17	20.00	-167.53	-61.54	-2,725.91	3,096.76	3,069.76	26.99	114.721		
5,300.00	5,275.35	5,532.30	5,508.00	19.57	20.40	-167.38	-50.54	-2,719.74	3,102.76	3,075.23	27.53	112.714		
5,400.00	5,374.49	5,631.81	5,606.71	19.98	20.80	-167.24	-39.53	-2,713.56	3,108.78	3,080.72	28.06	110.782		
5,500.00	5,473.63	5,731.32	5,705.41	20.38	21.19	-167.09	-28.53	-2,707.38	3,114.82	3,086.22	28.60	108.921		
5,600.00	5,572.77	5,830.83	5,804.12	20.78	21.59	-166.95	-17.52	-2,701.20	3,120.88	3,091.75	29.13	107.128		
5,700.00	5,671.91	5,930.33	5,902.82	21.19	21.99	-166.81	-6.52	-2,695.02	3,126.96	3,097.29	29.67	105.398		
5,800.00	5,771.05	6,029.84	6,001.53	21.59	22.39	-166.66	4.49	-2,688.84	3,133.06	3,102.85	30.20	103.729		
5,900.00	5,870.19	6,129.35	6,100.23	22.00	22.78	-166.52	15.49	-2,682.66	3,139.18	3,108.44	30.74	102.117		
6,000.00	5,969.33	6,228.86	6,198.94	22.40	23.18	-166.38	26.50	-2,676.48	3,145.31	3,114.04	31.28	100.560		
6,100.00	6,068.47	6,328.37	6,297.64	22.81	23.58	-166.24	37.50	-2,670.31	3,151.47	3,119.66	31.82	99.055		
6,200.00	6,167.61	6,427.88	6,396.35	23.22	23.98	-166.10	48.51	-2,664.13	3,157.65	3,125.29	32.35	97.599		
6,300.00	6,266.75	6,527.38	6,495.05	23.62	24.38	-165.96	59.51	-2,657.95	3,163.84	3,130.95	32.89	96.190		
6,400.00	6,365.89	6,626.89	6,593.76	24.03	24.78	-165.82	70.52	-2,651.77	3,170.06	3,136.63	33.43	94.827		
6,500.00	6,465.03	6,726.40	6,692.46	24.44	25.18	-165.68	81.53	-2,645.59	3,176.29	3,142.32	33.97	93.506		
6,600.00	6,564.17	6,825.91	6,791.16	24.84	25.58	-165.54	92.53	-2,639.41	3,182.54	3,148.03	34.51	92.225		
6,700.00	6,663.31	6,925.42	6,889.87	25.25	25.98	-165.41	103.54	-2,633.23	3,188.81	3,153.76	35.05	90.984		
6,800.00	6,762.45	7,025.00	6,963.85	25.66	26.28	-165.30	114.55	-2,627.05	3,195.22	3,159.70	35.52	89.966		
6,856.14	6,818.11	7,051.68	7,015.19	25.89	26.48	-165.24	116.96	-2,625.70	3,199.08	3,163.28	35.80	89.351		
6,900.00	6,861.62	7,082.42	7,045.76	26.06	26.60	-165.22	119.77	-2,624.12	3,202.09	3,166.09	36.00	88.946		
7,000.00	6,961.05	7,152.60	7,115.64	26.46	26.87	-165.18	125.38	-2,620.97	3,207.80	3,171.36	36.44	88.026		
7,100.00	7,060.72	7,222.89	7,185.74	26.84	27.13	-165.14	129.88	-2,618.44	3,211.91	3,175.04	36.87	87.104		
7,200.00	7,160.57	7,300.00	7,262.74	27.20	27.41	-165.10	133.52	-2,616.40	3,214.43	3,177.11	37.32	86.134		
7,300.00	7,260.53	7,363.69	7,326.38	27.55	27.64	-165.08	135.50	-2,615.29	3,215.31	3,177.60	37.71	85.259		
7,357.47	7,318.00	7,400.00	7,362.69	27.74	27.77	-90.53	136.22	-2,614.88	3,215.10	3,177.17	37.93	84.756		
7,400.00	7,360.53	7,434.15	7,396.84	27.88	27.88	-90.52	136.62	-2,614.66	3,214.83	3,176.71	38.12	84.344		
7,464.69	7,425.22	7,484.53	7,447.22	28.09	28.05	-90.52	136.75	-2,614.58	3,214.72	3,176.33	38.39	83.746		
7,500.00	7,460.53	7,519.85	7,482.53	28.21	28.17	-90.52	136.75	-2,614.58	3,214.72	3,176.16	38.56	83.376		
7,600.00	7,560.53	7,619.85	7,582.53	28.54	28.51	-90.52	136.75	-2,614.58	3,214.72	3,175.68	39.04	82.344		
7,700.00	7,660.53	7,719.85	7,682.53	28.87	28.84	-90.52	136.75	-2,614.58	3,214.72	3,175.19	39.52	81.336		
7,800.00	7,760.53	7,819.85	7,782.53	29.20	29.18	-90.52	136.75	-2,614.58	3,214.72	3,174.71	40.01	80.351		
7,900.00	7,860.53	7,919.85	7,882.53	29.53	29.52	-90.52	136.75	-2,614.58	3,214.72	3,174.22	40.49	79.389		
8,000.00	7,960.53	8,019.85	7,982.53	29.87	29.85	-90.52	136.75	-2,614.58	3,214.72	3,173.74	40.98	78.448		
8,100.00	8,060.53	8,119.85	8,082.53	30.20	30.19	-90.52	136.75	-2,614.58	3,214.72	3,173.25	41.47	77.528		
8,200.00	8,160.53	8,219.85	8,182.53	30.53	30.53	-90.52	136.75	-2,614.58	3,214.72	3,172.77	41.95	76.629		
8,300.00	8,260.53	8,319.85	8,282.53	30.87	30.87	-90.52	136.75	-2,614.58	3,214.72	3,172.28	42.44	75.750		
8,400.00	8,360.53	8,419.85	8,382.53	31.20	31.21	-90.52	136.75	-2,614.58	3,214.72	3,171.79	42.93	74.890		
8,500.00	8,460.53	8,519.85	8,482.53	31.54	31.55	-90.52	136.75	-2,614.58	3,214.72	3,171.30	43.41	74.048		
8,600.00	8,560.53	8,619.85	8,582.53	31.88	31.89	-90.52	136.75	-2,614.58	3,214.72	3,170.82	43.90	73.224		
8,700.00	8,660.53	8,719.85	8,682.53	32.21	32.23	-90.52	136.75	-2,614.58	3,214.72	3,170.33	44.39	72.418		
8,800.00	8,760.53	8,819.85	8,782.53	32.55	32.57	-90.52	136.75	-2,614.58	3,214.72	3,169.84	44.88	71.629		
8,900.00	8,860.53	8,919.85	8,882.53	32.89	32.91	-90.52	136.75	-2,614.58	3,214.72	3,169.35	45.37	70.856		
9,000.00	8,960.53	9,019.85	8,982.53	33.23	33.26	-90.52	136.75	-2,614.58	3,214.72	3,168.86	45.86	70.099		
9,100.00	9,060.53	9,119.85	9,082.53	33.56	33.60	-90.52	136.75	-2,614.58	3,214.72	3,168.37	46.35	69.357		
9,200.00	9,160.53	9,219.85	9,182.53	33.90	33.94	-90.52	136.75	-2,614.58	3,214.72	3,167.88	46.84	68.631		
9,300.00	9,260.53	9,319.85	9,282.53	34.24	34.28	-90.52	136.75	-2,614.58	3,214.72	3,167.39	47.33	67.919		
9,400.00	9,360.53	9,419.85	9,382.53	34.58	34.63	-90.52	136.75	-2,614.58	3,214.72	3,166.89	47.82	67.221		
9,500.00	9,460.53	9,519.85	9,482.53	34.92	34.97	-90.52	136.75	-2,614.58	3,214.72	3,166.40	48.31	66.537		
9,600.00	9,560.53	9,619.85	9,582.53	35.26	35.31	-90.52	136.75	-2,614.58	3,214.72	3,165.91	48.81	65.866		
9,700.00	9,660.53	9,719.85	9,682.53	35.60	35.66	-90.52	136.75	-2,614.58	3,214.72	3,165.42	49.30	65.209		
9,800.00	9,760.53	9,819.85	9,782.53	35.94	36.00	-90.52	136.75	-2,614.58	3,214.72	3,164.93	49.79	64.563		
9,900.00	9,860.53	9,919.85	9,882.53	36.29	36.35	-90.52	136.75	-2,614.58	3,214.72	3,164.43	50.28	63.931		
10,000.00	9,960.53	10,019.85	9,982.53	36.63	36.69	-90.52	136.75	-2,614.58	3,214.72	3,163.94	50.78	63.310		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	10,060.53	10,119.85	10,082.53	36.97	37.04	-90.52	136.75	-2,614.58	3,214.72	3,163.45	51.27	62.700		
10,200.00	10,160.53	10,219.85	10,182.53	37.31	37.38	-90.52	136.75	-2,614.58	3,214.72	3,162.95	51.76	62.103		
10,300.00	10,260.53	10,319.85	10,282.53	37.65	37.73	-90.52	136.75	-2,614.58	3,214.72	3,162.46	52.26	61.516		
10,400.00	10,360.53	10,419.85	10,382.53	38.00	38.07	-90.52	136.75	-2,614.58	3,214.72	3,161.97	52.75	60.939		
10,500.00	10,460.53	10,519.85	10,482.53	38.34	38.42	-90.52	136.75	-2,614.58	3,214.72	3,161.47	53.25	60.373		
10,600.00	10,560.53	10,619.85	10,582.53	38.68	38.77	-90.52	136.75	-2,614.58	3,214.72	3,160.98	53.74	59.818		
10,700.00	10,660.53	10,719.85	10,682.53	39.03	39.11	-90.52	136.75	-2,614.58	3,214.72	3,160.48	54.24	59.272		
10,800.00	10,760.53	10,819.85	10,782.53	39.37	39.46	-90.52	136.75	-2,614.58	3,214.72	3,159.99	54.73	58.736		
10,900.00	10,860.53	10,919.85	10,882.53	39.72	39.81	-90.52	136.75	-2,614.58	3,214.72	3,159.49	55.23	58.209		
11,000.00	10,960.53	11,019.85	10,982.53	40.06	40.15	-90.52	136.75	-2,614.58	3,214.72	3,159.00	55.72	57.691		
11,100.00	11,060.53	11,119.85	11,082.53	40.41	40.50	-90.52	136.75	-2,614.58	3,214.72	3,158.50	56.22	57.183		
11,200.00	11,160.53	11,219.85	11,182.53	40.75	40.85	-90.52	136.75	-2,614.58	3,214.72	3,158.00	56.71	56.683		
11,300.00	11,260.53	11,319.85	11,282.53	41.10	41.20	-90.52	136.75	-2,614.58	3,214.72	3,157.51	57.21	56.191		
11,400.00	11,360.53	11,419.85	11,382.53	41.44	41.55	-90.52	136.75	-2,614.58	3,214.72	3,157.01	57.71	55.708		
11,500.00	11,460.53	11,519.85	11,482.53	41.79	41.89	-90.52	136.75	-2,614.58	3,214.72	3,156.51	58.20	55.233		
11,600.00	11,560.53	11,619.85	11,582.53	42.13	42.24	-90.52	136.75	-2,614.58	3,214.72	3,156.02	58.70	54.765		
11,700.00	11,660.53	11,719.85	11,682.53	42.48	42.59	-90.52	136.75	-2,614.58	3,214.72	3,155.52	59.20	54.306		
11,800.00	11,760.53	11,819.85	11,782.53	42.83	42.94	-90.52	136.75	-2,614.58	3,214.72	3,155.02	59.69	53.854		
11,846.51	11,807.04	11,866.36	11,829.04	42.99	43.10	-90.52	136.75	-2,614.58	3,214.72	3,154.79	59.92	53.646		
11,850.00	11,810.53	11,869.85	11,832.53	43.00	43.11	96.38	136.75	-2,614.58	3,214.72	3,154.78	59.94	53.631		
11,900.00	11,860.45	11,957.91	11,920.54	43.16	43.41	96.42	134.80	-2,614.29	3,214.94	3,154.66	60.28	53.330		
11,950.00	11,909.97	12,200.35	12,150.81	43.31	43.98	95.89	65.75	-2,603.72	3,213.59	3,152.80	60.79	52.862		
12,000.00	11,958.70	12,395.50	12,302.25	43.46	44.22	94.71	-54.43	-2,585.33	3,210.21	3,149.17	61.03	52.597		
12,050.00	12,006.28	12,538.04	12,382.49	43.61	44.28	93.60	-170.45	-2,567.58	3,205.75	3,144.53	61.22	52.365		
12,100.00	12,052.34	12,643.10	12,421.76	43.75	44.29	92.75	-266.62	-2,552.86	3,200.91	3,139.50	61.41	52.126		
12,150.00	12,096.54	12,724.30	12,439.55	43.87	44.32	92.12	-344.87	-2,540.89	3,196.09	3,134.49	61.60	51.886		
12,200.00	12,138.53	12,790.33	12,445.65	43.99	44.39	91.65	-409.82	-2,530.95	3,191.48	3,129.71	61.77	51.664		
12,250.00	12,178.00	12,810.36	12,446.00	44.10	44.42	91.78	-429.61	-2,527.92	3,187.31	3,125.41	61.91	51.487		
12,300.00	12,214.64	12,836.24	12,446.00	44.21	44.46	91.78	-455.21	-2,524.12	3,183.81	3,121.77	62.04	51.320		
12,350.00	12,248.19	12,853.81	12,446.00	44.30	44.50	91.85	-472.61	-2,521.67	3,181.07	3,118.91	62.16	51.179		
12,400.00	12,278.37	12,872.70	12,446.00	44.39	44.53	91.85	-491.33	-2,519.16	3,179.02	3,116.76	62.27	51.053		
12,450.00	12,304.97	12,900.00	12,446.00	44.48	44.59	91.73	-518.42	-2,515.75	3,177.67	3,115.28	62.39	50.932		
12,500.00	12,327.78	12,900.00	12,446.00	44.58	44.59	91.79	-518.42	-2,515.75	3,176.99	3,114.52	62.47	50.853		
12,534.88	12,341.36	12,929.10	12,446.00	44.64	44.65	91.60	-547.33	-2,512.40	3,176.79	3,114.20	62.58	50.763		
12,550.00	12,346.63	12,935.82	12,446.00	44.68	44.67	91.55	-554.01	-2,511.66	3,176.81	3,114.19	62.62	50.734		
12,600.00	12,361.37	12,958.47	12,446.00	44.79	44.73	91.39	-576.53	-2,509.31	3,177.27	3,114.53	62.74	50.643		
12,650.00	12,371.89	13,000.00	12,446.00	44.91	44.83	91.14	-617.89	-2,505.46	3,178.38	3,115.48	62.89	50.535		
12,700.00	12,378.11	13,000.00	12,446.00	45.04	44.83	91.00	-617.89	-2,505.46	3,179.79	3,116.81	62.98	50.492		
12,746.51	12,380.00	13,027.12	12,446.00	45.17	44.91	90.79	-644.92	-2,503.26	3,181.63	3,118.52	63.11	50.412		
12,800.00	12,380.00	13,052.44	12,446.00	45.34	44.98	90.79	-670.18	-2,501.45	3,183.73	3,120.47	63.26	50.327		
12,900.00	12,380.00	13,100.00	12,446.00	45.69	45.12	90.79	-717.65	-2,498.64	3,186.25	3,122.69	63.57	50.125		
13,000.00	12,380.00	13,147.12	12,446.00	46.08	45.28	90.79	-764.73	-2,496.64	3,186.94	3,123.02	63.92	49.860		
13,063.21	12,380.00	13,200.00	12,446.00	46.35	45.46	90.79	-817.59	-2,495.32	3,186.60	3,122.37	64.22	49.618		
13,100.00	12,380.00	13,200.00	12,446.00	46.52	45.46	90.79	-817.59	-2,495.32	3,186.03	3,121.72	64.31	49.538		
13,147.83	12,380.00	13,217.18	12,446.00	46.75	45.52	90.79	-834.76	-2,495.09	3,185.83	3,121.33	64.50	49.393		
13,200.00	12,380.00	13,269.21	12,446.00	47.00	45.72	90.79	-886.80	-2,494.58	3,185.83	3,121.02	64.82	49.152		
13,300.00	12,380.00	13,369.21	12,446.00	47.54	46.14	90.79	-986.79	-2,493.60	3,185.84	3,120.35	65.49	48.647		
13,400.00	12,380.00	13,469.21	12,446.00	48.13	46.60	90.79	-1,086.79	-2,492.62	3,185.84	3,119.61	66.23	48.099		
13,500.00	12,380.00	13,569.21	12,446.00	48.77	47.12	90.79	-1,186.78	-2,491.63	3,185.85	3,118.79	67.05	47.511		
13,600.00	12,380.00	13,669.21	12,446.00	49.45	47.69	90.79	-1,286.78	-2,490.65	3,185.85	3,117.91	67.94	46.889		
13,700.00	12,380.00	13,769.21	12,446.00	50.18	48.31	90.79	-1,386.77	-2,489.66	3,185.86	3,116.95	68.90	46.237		
13,800.00	12,380.00	13,869.21	12,446.00	50.95	48.97	90.79	-1,486.77	-2,488.68	3,185.86	3,115.93	69.92	45.561		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		PF Fed Com - PF Fed Com 802H - OH - Plan #1											Offset Site Error:		0.00 usft	
Survey Program:		0-OWSG (Rev2) MWD											Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
13,900.00	12,380.00	13,969.21	12,446.00	51.77	49.68	90.79	-1,586.76	-2,487.70	3,185.86	3,114.85	71.01	44.865				
14,000.00	12,380.00	14,069.21	12,446.00	52.62	50.43	90.79	-1,686.76	-2,486.71	3,185.87	3,113.71	72.15	44.154				
14,100.00	12,380.00	14,169.21	12,446.00	53.51	51.22	90.79	-1,786.75	-2,485.73	3,185.87	3,112.52	73.35	43.432				
14,200.00	12,380.00	14,269.21	12,446.00	54.44	52.05	90.79	-1,886.75	-2,484.75	3,185.88	3,111.27	74.61	42.701				
14,300.00	12,380.00	14,369.21	12,446.00	55.40	52.92	90.79	-1,986.74	-2,483.76	3,185.88	3,109.97	75.91	41.967				
14,400.00	12,380.00	14,469.21	12,446.00	56.39	53.83	90.79	-2,086.74	-2,482.78	3,185.88	3,108.62	77.27	41.232				
14,500.00	12,380.00	14,569.21	12,446.00	57.41	54.77	90.79	-2,186.73	-2,481.79	3,185.89	3,107.22	78.67	40.499				
14,600.00	12,380.00	14,669.21	12,446.00	58.46	55.74	90.79	-2,286.73	-2,480.81	3,185.89	3,105.78	80.11	39.769				
14,700.00	12,380.00	14,769.21	12,446.00	59.54	56.75	90.79	-2,386.72	-2,479.83	3,185.90	3,104.30	81.59	39.046				
14,800.00	12,380.00	14,869.21	12,446.00	60.64	57.78	90.79	-2,486.72	-2,478.84	3,185.90	3,102.78	83.12	38.330				
14,900.00	12,380.00	14,969.21	12,446.00	61.77	58.85	90.79	-2,586.71	-2,477.86	3,185.91	3,101.23	84.68	37.624				
15,000.00	12,380.00	15,069.21	12,446.00	62.92	59.94	90.79	-2,686.71	-2,476.88	3,185.91	3,099.64	86.27	36.928				
15,100.00	12,380.00	15,169.21	12,446.00	64.09	61.05	90.79	-2,786.70	-2,475.89	3,185.91	3,098.01	87.90	36.244				
15,200.00	12,380.00	15,269.21	12,446.00	65.28	62.19	90.79	-2,886.70	-2,474.91	3,185.92	3,096.36	89.56	35.572				
15,300.00	12,380.00	15,369.21	12,446.00	66.50	63.35	90.79	-2,986.69	-2,473.92	3,185.92	3,094.67	91.25	34.913				
15,400.00	12,380.00	15,469.21	12,446.00	67.73	64.53	90.79	-3,086.69	-2,472.94	3,185.93	3,092.96	92.97	34.268				
15,500.00	12,380.00	15,569.21	12,446.00	68.98	65.74	90.79	-3,186.68	-2,471.96	3,185.93	3,091.22	94.71	33.637				
15,600.00	12,380.00	15,669.21	12,446.00	70.24	66.96	90.79	-3,286.68	-2,470.97	3,185.93	3,089.45	96.48	33.021				
15,700.00	12,380.00	15,769.21	12,446.00	71.52	68.20	90.79	-3,386.67	-2,469.99	3,185.94	3,087.66	98.28	32.418				
15,800.00	12,380.00	15,869.21	12,446.00	72.82	69.45	90.79	-3,486.67	-2,469.01	3,185.94	3,085.85	100.09	31.830				
15,900.00	12,380.00	15,969.21	12,446.00	74.13	70.73	90.79	-3,586.67	-2,468.02	3,185.95	3,084.02	101.93	31.257				
16,000.00	12,380.00	16,069.21	12,446.00	75.46	72.01	90.79	-3,686.66	-2,467.04	3,185.95	3,082.17	103.78	30.698				
16,100.00	12,380.00	16,169.21	12,446.00	76.79	73.32	90.79	-3,786.66	-2,466.05	3,185.96	3,080.30	105.66	30.153				
16,200.00	12,380.00	16,269.21	12,446.00	78.14	74.63	90.79	-3,886.65	-2,465.07	3,185.96	3,078.41	107.55	29.623				
16,300.00	12,380.00	16,369.21	12,446.00	79.50	75.96	90.79	-3,986.65	-2,464.09	3,185.96	3,076.50	109.46	29.106				
16,400.00	12,380.00	16,469.21	12,446.00	80.87	77.31	90.79	-4,086.64	-2,463.10	3,185.97	3,074.58	111.39	28.602				
16,500.00	12,380.00	16,569.21	12,446.00	82.25	78.66	90.79	-4,186.64	-2,462.12	3,185.97	3,072.64	113.33	28.112				
16,600.00	12,380.00	16,669.21	12,446.00	83.64	80.02	90.79	-4,286.63	-2,461.14	3,185.98	3,070.69	115.29	27.635				
16,700.00	12,380.00	16,769.21	12,446.00	85.04	81.40	90.79	-4,386.63	-2,460.15	3,185.98	3,068.72	117.26	27.171				
16,800.00	12,380.00	16,869.21	12,446.00	86.45	82.79	90.79	-4,486.62	-2,459.17	3,185.98	3,066.74	119.24	26.719				
16,900.00	12,380.00	16,969.21	12,446.00	87.87	84.18	90.79	-4,586.62	-2,458.18	3,185.99	3,064.75	121.24	26.279				
17,000.00	12,380.00	17,069.21	12,446.00	89.30	85.59	90.79	-4,686.61	-2,457.20	3,185.99	3,062.75	123.25	25.851				
17,100.00	12,380.00	17,169.21	12,446.00	90.73	87.00	90.79	-4,786.61	-2,456.22	3,186.00	3,060.73	125.26	25.434				
17,200.00	12,380.00	17,269.21	12,446.00	92.17	88.42	90.79	-4,886.60	-2,455.23	3,186.00	3,058.71	127.30	25.028				
17,300.00	12,380.00	17,369.21	12,446.00	93.62	89.85	90.79	-4,986.60	-2,454.25	3,186.01	3,056.67	129.34	24.634				
17,400.00	12,380.00	17,469.21	12,446.00	95.07	91.29	90.79	-5,086.59	-2,453.27	3,186.01	3,054.62	131.39	24.249				
17,500.00	12,380.00	17,569.21	12,446.00	96.53	92.73	90.79	-5,186.59	-2,452.28	3,186.01	3,052.57	133.45	23.875				
17,600.00	12,380.00	17,669.21	12,446.00	98.00	94.18	90.79	-5,286.58	-2,451.30	3,186.02	3,050.50	135.51	23.511				
17,700.00	12,380.00	17,769.21	12,446.00	99.47	95.64	90.79	-5,386.58	-2,450.31	3,186.02	3,048.43	137.59	23.156				
17,800.00	12,380.00	17,869.21	12,446.00	100.95	97.10	90.79	-5,486.57	-2,449.33	3,186.03	3,046.35	139.68	22.810				
17,900.00	12,380.00	17,969.21	12,446.00	102.43	98.57	90.79	-5,586.57	-2,448.35	3,186.03	3,044.26	141.77	22.473				
18,000.00	12,380.00	18,069.21	12,446.00	103.92	100.04	90.79	-5,686.56	-2,447.36	3,186.03	3,042.16	143.87	22.145				
18,100.00	12,380.00	18,169.21	12,446.00	105.41	101.52	90.79	-5,786.56	-2,446.38	3,186.04	3,040.06	145.98	21.825				
18,200.00	12,380.00	18,269.21	12,446.00	106.91	103.01	90.79	-5,886.55	-2,445.40	3,186.04	3,037.95	148.09	21.514				
18,300.00	12,380.00	18,369.21	12,446.00	108.41	104.50	90.79	-5,986.55	-2,444.41	3,186.05	3,035.83	150.21	21.210				
18,400.00	12,380.00	18,469.21	12,446.00	109.92	106.00	90.79	-6,086.54	-2,443.43	3,186.05	3,033.71	152.34	20.914				
18,500.00	12,380.00	18,569.21	12,446.00	111.43	107.50	90.79	-6,186.54	-2,442.44	3,186.06	3,031.58	154.47	20.625				
18,600.00	12,380.00	18,669.21	12,446.00	112.94	109.00	90.79	-6,286.53	-2,441.46	3,186.06	3,029.45	156.61	20.343				
18,700.00	12,380.00	18,769.21	12,446.00	114.46	110.51	90.79	-6,386.53	-2,440.48	3,186.06	3,027.30	158.76	20.069				
18,800.00	12,380.00	18,869.21	12,446.00	115.98	112.02	90.79	-6,486.52	-2,439.49	3,186.07	3,025.16	160.91	19.800				
18,900.00	12,380.00	18,969.21	12,446.00	117.51	113.54	90.79	-6,586.52	-2,438.51	3,186.07	3,023.01	163.06	19.539				
19,000.00	12,380.00	19,069.21	12,446.00	119.04	115.06	90.79	-6,686.52	-2,437.53	3,186.08	3,020.85	165.22	19.283				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	12,380.00	19,169.21	12,446.00	120.57	116.58	90.79	-6,786.51	-2,436.54	3,186.08	3,018.69	167.39	19.034		
19,200.00	12,380.00	19,269.21	12,446.00	122.11	118.11	90.79	-6,886.51	-2,435.56	3,186.08	3,016.53	169.56	18.791		
19,300.00	12,380.00	19,369.21	12,446.00	123.64	119.64	90.79	-6,986.50	-2,434.57	3,186.09	3,014.36	171.73	18.553		
19,400.00	12,380.00	19,469.21	12,446.00	125.18	121.17	90.79	-7,086.50	-2,433.59	3,186.09	3,012.18	173.91	18.320		
19,500.00	12,380.00	19,569.21	12,446.00	126.73	122.71	90.79	-7,186.49	-2,432.61	3,186.10	3,010.01	176.09	18.093		
19,600.00	12,380.00	19,669.21	12,446.00	128.27	124.25	90.79	-7,286.49	-2,431.62	3,186.10	3,007.82	178.28	17.872		
19,700.00	12,380.00	19,769.21	12,446.00	129.82	125.79	90.79	-7,386.48	-2,430.64	3,186.11	3,005.64	180.47	17.655		
19,800.00	12,380.00	19,869.21	12,446.00	131.38	127.34	90.79	-7,486.48	-2,429.66	3,186.11	3,003.45	182.66	17.443		
19,900.00	12,380.00	19,969.21	12,446.00	132.93	128.88	90.79	-7,586.47	-2,428.67	3,186.11	3,001.26	184.86	17.236		
20,000.00	12,380.00	20,069.21	12,446.00	134.49	130.43	90.79	-7,686.47	-2,427.69	3,186.12	2,999.06	187.06	17.033		
20,100.00	12,380.00	20,169.21	12,446.00	136.04	131.99	90.79	-7,786.46	-2,426.70	3,186.12	2,996.86	189.26	16.835		
20,200.00	12,380.00	20,269.21	12,446.00	137.61	133.54	90.79	-7,886.46	-2,425.72	3,186.13	2,994.66	191.47	16.641		
20,300.00	12,380.00	20,369.21	12,446.00	139.17	135.10	90.79	-7,986.45	-2,424.74	3,186.13	2,992.46	193.67	16.451		
20,400.00	12,380.00	20,469.21	12,446.00	140.73	136.66	90.79	-8,086.45	-2,423.75	3,186.13	2,990.25	195.89	16.265		
20,500.00	12,380.00	20,569.21	12,446.00	142.30	138.22	90.79	-8,186.44	-2,422.77	3,186.14	2,988.04	198.10	16.083		
20,600.00	12,380.00	20,669.21	12,446.00	143.87	139.78	90.79	-8,286.44	-2,421.79	3,186.14	2,985.82	200.32	15.905		
20,700.00	12,380.00	20,769.21	12,446.00	145.44	141.35	90.79	-8,386.43	-2,420.80	3,186.15	2,983.61	202.54	15.731		
20,800.00	12,380.00	20,869.21	12,446.00	147.01	142.92	90.79	-8,486.43	-2,419.82	3,186.15	2,981.39	204.76	15.560		
20,900.00	12,380.00	20,969.21	12,446.00	148.59	144.49	90.79	-8,586.42	-2,418.83	3,186.15	2,979.17	206.99	15.393		
21,000.00	12,380.00	21,069.21	12,446.00	150.16	146.06	90.79	-8,686.42	-2,417.85	3,186.16	2,976.94	209.22	15.229		
21,100.00	12,380.00	21,169.21	12,446.00	151.74	147.63	90.79	-8,786.41	-2,416.87	3,186.16	2,974.72	211.45	15.068		
21,200.00	12,380.00	21,269.21	12,446.00	153.32	149.21	90.79	-8,886.41	-2,415.88	3,186.17	2,972.49	213.68	14.911		
21,300.00	12,380.00	21,369.21	12,446.00	154.90	150.78	90.79	-8,986.40	-2,414.90	3,186.17	2,970.26	215.91	14.757		
21,400.00	12,380.00	21,469.21	12,446.00	156.48	152.36	90.79	-9,086.40	-2,413.92	3,186.18	2,968.02	218.15	14.605		
21,500.00	12,380.00	21,569.21	12,446.00	158.06	153.94	90.79	-9,186.39	-2,412.93	3,186.18	2,965.79	220.39	14.457		
21,600.00	12,380.00	21,669.21	12,446.00	159.65	155.52	90.79	-9,286.39	-2,411.95	3,186.18	2,963.55	222.63	14.312		
21,700.00	12,380.00	21,769.21	12,446.00	161.23	157.10	90.79	-9,386.38	-2,410.96	3,186.19	2,961.32	224.87	14.169		
21,800.00	12,380.00	21,869.21	12,446.00	162.82	158.69	90.79	-9,486.38	-2,409.98	3,186.19	2,959.07	227.12	14.029		
21,900.00	12,380.00	21,969.21	12,446.00	164.41	160.27	90.79	-9,586.37	-2,409.00	3,186.20	2,956.83	229.36	13.891		
22,000.00	12,380.00	22,069.21	12,446.00	166.00	161.86	90.79	-9,686.37	-2,408.01	3,186.20	2,954.59	231.61	13.757		
22,100.00	12,380.00	22,169.21	12,446.00	167.59	163.45	90.79	-9,786.37	-2,407.03	3,186.20	2,952.34	233.86	13.624		
22,200.00	12,380.00	22,269.21	12,446.00	169.18	165.04	90.79	-9,886.36	-2,406.05	3,186.21	2,950.10	236.11	13.494		
22,300.00	12,380.00	22,369.21	12,446.00	170.77	166.63	90.79	-9,986.36	-2,405.06	3,186.21	2,947.85	238.37	13.367		
22,400.00	12,380.00	22,469.21	12,446.00	172.37	168.22	90.79	-10,086.35	-2,404.08	3,186.22	2,945.60	240.62	13.242		
22,500.00	12,380.00	22,569.21	12,446.00	173.96	169.81	90.79	-10,186.35	-2,403.09	3,186.22	2,943.34	242.88	13.119		
22,547.76	12,380.00	22,616.97	12,446.00	174.73	170.57	90.79	-10,234.10	-2,402.62	3,186.22	2,942.27	243.96	13.061		
22,548.65	12,380.00	22,617.87	12,446.00	174.75	170.59	90.79	-10,235.00	-2,402.62	3,186.22	2,942.25	243.97	13.060 SF		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	22.00	22.00	0.00	0.03	-97.73	-392.02	-2,886.81	2,913.30					
100.00	100.00	122.00	122.00	0.13	0.20	-97.73	-392.02	-2,886.81	2,913.30	2,913.06	0.24	N/A		
200.00	200.00	222.00	222.00	0.48	0.56	-97.73	-392.02	-2,886.81	2,913.30	2,912.56	0.74	3,924.944		
300.00	300.00	322.00	322.00	0.84	0.92	-97.73	-392.02	-2,886.81	2,913.30	2,912.05	1.25	2,333.709		
400.00	400.00	422.00	422.00	1.20	1.28	-97.73	-392.02	-2,886.81	2,913.30	2,911.55	1.75	1,660.046		
500.00	500.00	522.00	522.00	1.56	1.64	-97.73	-392.02	-2,886.81	2,913.30	2,911.04	2.26	1,288.097		
600.00	600.00	622.00	622.00	1.92	2.00	-97.73	-392.02	-2,886.81	2,913.30	2,910.53	2.77	1,052.289		
700.00	700.00	722.00	722.00	2.28	2.36	-97.73	-392.02	-2,886.81	2,913.30	2,910.03	3.28	889.447		
800.00	800.00	822.00	822.00	2.63	2.71	-97.73	-392.02	-2,886.81	2,913.30	2,909.52	3.78	770.246		
900.00	900.00	922.00	922.00	2.99	3.07	-97.73	-392.02	-2,886.81	2,913.30	2,909.01	4.29	679.217		
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-97.73	-392.02	-2,886.81	2,913.30	2,908.50	4.80	607.428		
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-97.73	-392.02	-2,886.81	2,913.30	2,908.00	5.30	549.364		
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-97.73	-392.02	-2,886.81	2,913.30	2,907.49	5.81	501.431		
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-97.73	-392.02	-2,886.81	2,913.30	2,906.98	6.32	461.191		
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-97.73	-392.02	-2,886.81	2,913.30	2,906.48	6.82	426.929		
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-97.73	-392.02	-2,886.81	2,913.30	2,905.97	7.33	397.406		
1,600.00	1,600.00	2,363.28	2,354.28	5.50	8.33	-97.18	-352.12	-2,793.94	2,909.69	2,900.04	9.65	301.557		
1,700.00	1,700.00	2,459.80	2,447.46	5.86	8.75	-97.04	-342.17	-2,770.77	2,884.53	2,874.40	10.13	284.616		
1,800.00	1,800.00	2,556.33	2,540.63	6.22	9.18	-96.89	-332.22	-2,747.60	2,859.39	2,848.77	10.63	269.117		
1,900.00	1,900.00	2,652.86	2,633.81	6.58	9.62	-96.75	-322.26	-2,724.44	2,834.27	2,823.15	11.12	254.896		
2,000.00	2,000.00	2,749.39	2,726.99	6.94	10.07	-96.60	-312.31	-2,701.27	2,809.16	2,797.55	11.62	241.815		
2,100.00	2,100.00	2,845.92	2,820.16	7.29	10.52	-96.44	-302.36	-2,678.10	2,784.08	2,771.96	12.12	229.750		
2,200.00	2,199.99	2,942.77	2,913.66	7.65	10.99	-170.88	-292.37	-2,654.86	2,760.26	2,747.65	12.62	218.756		
2,300.00	2,299.91	3,040.24	3,007.74	7.99	11.46	-170.79	-282.32	-2,631.46	2,738.99	2,725.87	13.12	208.777		
2,400.00	2,399.69	3,138.25	3,102.35	8.34	11.95	-170.70	-272.22	-2,607.94	2,720.26	2,706.63	13.63	199.635		
2,500.00	2,499.27	3,236.74	3,197.42	8.70	12.44	-170.60	-262.06	-2,584.30	2,704.09	2,689.95	14.14	191.262		
2,601.33	2,599.89	3,336.96	3,294.16	9.06	12.94	-170.51	-251.73	-2,560.25	2,690.32	2,675.66	14.66	183.493		
2,700.00	2,697.71	3,434.72	3,388.53	9.42	13.44	-170.39	-241.65	-2,536.79	2,678.20	2,663.03	15.18	176.482		
2,800.00	2,796.85	3,533.81	3,484.17	9.78	13.95	-170.27	-231.43	-2,513.01	2,665.94	2,650.24	15.70	169.811		
2,900.00	2,895.99	3,632.89	3,579.82	10.15	14.46	-170.15	-221.22	-2,489.23	2,653.68	2,637.46	16.23	163.548		
3,000.00	2,995.13	3,731.98	3,675.46	10.53	14.97	-170.03	-211.00	-2,465.45	2,641.44	2,624.69	16.75	157.659		
3,100.00	3,094.27	3,831.06	3,771.11	10.90	15.48	-169.90	-200.78	-2,441.67	2,629.21	2,611.93	17.28	152.113		
3,200.00	3,193.41	3,930.15	3,866.75	11.28	16.00	-169.78	-190.57	-2,417.88	2,617.00	2,599.18	17.82	146.882		
3,300.00	3,292.55	4,029.23	3,962.40	11.67	16.52	-169.65	-180.35	-2,394.10	2,604.79	2,586.44	18.35	141.942		
3,400.00	3,391.69	4,128.32	4,058.04	12.05	17.04	-169.52	-170.14	-2,370.32	2,592.60	2,573.71	18.89	137.270		
3,500.00	3,490.83	4,227.40	4,153.69	12.44	17.57	-169.39	-159.92	-2,346.54	2,580.42	2,561.00	19.42	132.846		
3,600.00	3,589.97	4,326.49	4,249.33	12.82	18.09	-169.26	-149.70	-2,322.76	2,568.26	2,548.29	19.96	128.651		
3,700.00	3,689.11	4,425.57	4,344.98	13.21	18.62	-169.13	-139.49	-2,298.98	2,556.10	2,535.60	20.50	124.669		
3,800.00	3,788.25	4,524.66	4,440.62	13.60	19.15	-168.99	-129.27	-2,275.20	2,543.96	2,522.92	21.04	120.884		
3,900.00	3,887.39	4,623.74	4,536.27	13.99	19.68	-168.86	-119.06	-2,251.42	2,531.84	2,510.25	21.59	117.283		
4,000.00	3,986.53	4,722.83	4,631.91	14.39	20.21	-168.72	-108.84	-2,227.64	2,519.73	2,497.60	22.13	113.852		
4,100.00	4,085.67	4,821.91	4,727.56	14.78	20.74	-168.59	-98.62	-2,203.86	2,507.63	2,484.96	22.68	110.581		
4,200.00	4,184.81	4,921.00	4,823.20	15.18	21.28	-168.45	-88.41	-2,180.08	2,495.55	2,472.33	23.22	107.459		
4,300.00	4,283.95	5,020.08	4,918.85	15.57	21.81	-168.31	-78.19	-2,156.30	2,483.48	2,459.71	23.77	104.476		
4,400.00	4,383.09	5,119.17	5,014.49	15.97	22.34	-168.17	-67.98	-2,132.52	2,471.43	2,447.11	24.32	101.624		
4,500.00	4,482.23	5,218.25	5,110.14	16.37	22.88	-168.02	-57.76	-2,108.74	2,459.39	2,434.52	24.87	98.893		
4,600.00	4,581.37	5,317.34	5,205.78	16.77	23.42	-167.88	-47.54	-2,084.96	2,447.37	2,421.95	25.42	96.278		
4,700.00	4,680.51	5,416.42	5,301.43	17.17	23.95	-167.73	-37.33	-2,061.18	2,435.36	2,409.39	25.97	93.770		
4,800.00	4,779.65	5,515.51	5,397.07	17.57	24.49	-167.59	-27.11	-2,037.40	2,423.37	2,396.85	26.52	91.364		
4,900.00	4,878.79	5,614.59	5,492.72	17.97	25.03	-167.44	-16.89	-2,013.61	2,411.39	2,384.32	27.08	89.054		
5,000.00	4,977.93	5,713.68	5,588.36	18.37	25.57	-167.29	-6.68	-1,989.83	2,399.43	2,371.80	27.63	86.833		
5,100.00	5,077.07	5,812.76	5,684.01	18.77	26.11	-167.14	3.54	-1,966.05	2,387.49	2,359.30	28.19	84.698		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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		
5,200.00	5,176.21	5,911.85	5,779.65	19.17	26.65	-166.99	13.75	-1,942.27	2,375.56	2,346.82	28.75	82.642		
5,300.00	5,275.35	6,010.93	5,875.29	19.57	27.19	-166.83	23.97	-1,918.49	2,363.65	2,334.35	29.30	80.663		
5,400.00	5,374.49	6,110.02	5,970.94	19.98	27.73	-166.68	34.19	-1,894.71	2,351.76	2,321.90	29.86	78.756		
5,500.00	5,473.63	6,209.10	6,066.58	20.38	28.27	-166.52	44.40	-1,870.93	2,339.89	2,309.47	30.42	76.917		
5,600.00	5,572.77	6,308.19	6,162.23	20.78	28.81	-166.36	54.62	-1,847.15	2,328.03	2,297.05	30.98	75.143		
5,700.00	5,671.91	6,407.27	6,257.87	21.19	29.35	-166.20	64.83	-1,823.37	2,316.19	2,284.65	31.54	73.430		
5,800.00	5,771.05	6,506.36	6,353.52	21.59	29.89	-166.04	75.05	-1,799.59	2,304.37	2,272.26	32.10	71.776		
5,900.00	5,870.19	6,605.44	6,449.16	22.00	30.44	-165.87	85.27	-1,775.81	2,292.57	2,259.90	32.67	70.177		
6,000.00	5,969.33	6,704.53	6,544.81	22.40	30.98	-165.71	95.48	-1,752.03	2,280.78	2,247.55	33.23	68.632		
6,100.00	6,068.47	6,803.61	6,640.45	22.81	31.52	-165.54	105.70	-1,728.25	2,269.02	2,235.22	33.80	67.137		
6,200.00	6,167.61	6,902.70	6,737.59	23.22	32.06	-165.38	115.92	-1,704.47	2,257.26	2,223.46	34.37	65.686		
6,300.00	6,266.75	7,001.80	6,832.68	23.62	32.60	-165.22	126.14	-1,680.69	2,245.50	2,211.70	34.94	64.287		
6,400.00	6,365.89	7,100.90	6,927.77	24.03	33.14	-165.06	136.36	-1,656.91	2,233.74	2,200.00	35.51	62.888		
6,500.00	6,465.03	7,199.99	6,999.99	24.44	33.68	-164.90	146.58	-1,633.13	2,222.00	2,188.26	36.08	61.489		
6,600.00	6,564.17	7,299.09	7,099.09	24.84	34.22	-164.74	156.80	-1,609.35	2,210.26	2,176.52	36.65	60.090		
6,700.00	6,663.31	7,398.18	7,198.18	25.25	34.76	-164.58	167.02	-1,585.57	2,198.52	2,164.78	37.22	58.691		
6,800.00	6,762.45	7,497.28	7,297.28	25.66	35.30	-164.42	177.24	-1,561.79	2,186.78	2,153.04	37.79	57.292		
6,900.00	6,861.59	7,596.37	7,396.37	26.06	35.84	-164.26	187.46	-1,538.01	2,175.04	2,141.30	38.36	55.893		
7,000.00	6,960.73	7,695.47	7,495.47	26.46	36.38	-164.10	197.68	-1,514.23	2,163.30	2,129.56	38.93	54.494		
7,100.00	7,060.72	7,794.56	7,594.56	26.87	36.92	-163.94	207.90	-1,490.45	2,151.56	2,117.82	39.50	53.095		
7,200.00	7,160.57	7,893.66	7,693.66	27.27	37.46	-163.78	218.12	-1,466.67	2,139.82	2,106.08	40.07	51.696		
7,300.00	7,260.53	7,992.75	7,792.75	27.68	38.00	-163.62	228.34	-1,442.89	2,128.08	2,094.34	40.64	50.297		
7,400.00	7,360.53	8,091.85	7,891.85	28.08	38.54	-163.46	238.56	-1,419.11	2,116.34	2,082.60	41.21	48.898		
7,500.00	7,460.53	8,190.94	7,990.94	28.49	39.08	-163.30	248.78	-1,395.33	2,104.60	2,070.86	41.78	47.499		
7,600.00	7,560.53	8,289.99	8,089.99	28.89	39.62	-163.14	259.00	-1,371.55	2,092.86	2,059.12	42.35	46.100		
7,700.00	7,660.53	8,389.09	8,189.09	29.30	40.16	-162.98	269.22	-1,347.77	2,081.12	2,047.38	42.92	44.701		
7,800.00	7,760.53	8,488.18	8,288.18	29.70	40.70	-162.82	279.44	-1,323.99	2,069.38	2,035.64	43.49	43.302		
7,900.00	7,860.53	8,587.28	8,387.28	30.11	41.24	-162.66	289.66	-1,300.21	2,057.64	2,023.90	44.06	41.903		
8,000.00	7,960.53	8,686.37	8,486.37	30.51	41.78	-162.50	299.88	-1,276.43	2,045.90	2,012.16	44.63	40.504		
8,100.00	8,060.53	8,785.47	8,585.47	30.92	42.32	-162.34	310.10	-1,252.65	2,034.16	2,000.42	45.20	39.105		
8,200.00	8,160.53	8,884.56	8,684.56	31.32	42.86	-162.18	320.32	-1,228.87	2,022.42	1,988.68	45.77	37.706		
8,300.00	8,260.53	8,983.66	8,783.66	31.73	43.40	-162.02	330.54	-1,205.09	2,010.68	1,976.94	46.34	36.307		
8,400.00	8,360.53	9,082.75	8,882.75	32.13	43.94	-161.86	340.76	-1,181.31	2,000.00	1,965.20	46.91	34.908		
8,500.00	8,460.53	9,181.85	8,981.85	32.54	44.48	-161.70	350.98	-1,157.53	1,988.26	1,953.46	47.48	33.509		
8,600.00	8,560.53	9,280.94	9,080.94	32.94	45.02	-161.54	361.20	-1,133.75	1,976.52	1,941.72	48.05	32.110		
8,700.00	8,660.53	9,379.99	9,179.99	33.35	45.56	-161.38	371.42	-1,109.97	1,964.78	1,930.00	48.62	30.711		
8,800.00	8,760.53	9,479.09	9,279.09	33.75	46.10	-161.22	381.64	-1,086.19	1,953.04	1,918.26	49.19	29.312		
8,900.00	8,860.53	9,578.18	9,378.18	34.16	46.64	-161.06	391.86	-1,062.41	1,941.30	1,906.52	49.76	27.913		
9,000.00	8,960.53	9,677.28	9,477.28	34.56	47.18	-160.90	402.08	-1,038.63	1,929.56	1,894.78	50.33	26.514		
9,100.00	9,060.53	9,776.37	9,576.37	34.97	47.72	-160.74	412.30	-1,014.85	1,917.82	1,883.04	50.90	25.115		
9,200.00	9,160.53	9,875.47	9,675.47	35.37	48.26	-160.58	422.52	-991.07	1,906.08	1,871.30	51.47	23.716		
9,300.00	9,260.53	9,974.56	9,774.56	35.78	48.80	-160.42	432.74	-967.29	1,894.34	1,859.56	52.04	22.317		
9,400.00	9,360.53	10,073.66	9,873.66	36.18	49.34	-160.26	442.96	-943.51	1,882.60	1,847.82	52.61	20.918		
9,500.00	9,460.53	10,172.75	9,972.75	36.59	49.88	-160.10	453.18	-919.73	1,870.86	1,836.08	53.18	19.519		
9,600.00	9,560.53	10,271.85	10,071.85	36.99	50.42	-159.94	463.40	-895.95	1,859.12	1,824.34	53.75	18.120		
9,700.00	9,660.53	10,370.94	10,170.94	37.40	50.96	-159.78	473.62	-872.17	1,847.38	1,812.60	54.32	16.721		
9,800.00	9,760.53	10,469.99	10,269.99	37.80	51.50	-159.62	483.84	-848.39	1,835.64	1,800.86	54.89	15.322		
9,900.00	9,860.53	10,569.09	10,369.09	38.21	52.04	-159.46	494.06	-824.61	1,823.90	1,789.12	55.46	13.923		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	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	9,960.53	10,154.48	9,982.53	36.63	42.00	-90.54	144.98	-1,636.81	2,236.90	2,185.64	51.27	43.631		
10,100.00	10,060.53	10,254.48	10,082.53	36.97	42.30	-90.54	144.98	-1,636.81	2,236.90	2,185.15	51.75	43.224		
10,200.00	10,160.53	10,354.48	10,182.53	37.31	42.61	-90.54	144.98	-1,636.81	2,236.90	2,184.67	52.23	42.825		
10,300.00	10,260.53	10,454.48	10,282.53	37.65	42.91	-90.54	144.98	-1,636.81	2,236.90	2,184.19	52.72	42.432		
10,400.00	10,360.53	10,554.48	10,382.53	38.00	43.21	-90.54	144.98	-1,636.81	2,236.90	2,183.70	53.20	42.046		
10,500.00	10,460.53	10,654.48	10,482.53	38.34	43.52	-90.54	144.98	-1,636.81	2,236.90	2,183.22	53.69	41.667		
10,600.00	10,560.53	10,754.48	10,582.53	38.68	43.82	-90.54	144.98	-1,636.81	2,236.90	2,182.73	54.17	41.294		
10,700.00	10,660.53	10,854.48	10,682.53	39.03	44.13	-90.54	144.98	-1,636.81	2,236.90	2,182.25	54.66	40.927		
10,800.00	10,760.53	10,954.48	10,782.53	39.37	44.43	-90.54	144.98	-1,636.81	2,236.90	2,181.76	55.14	40.567		
10,900.00	10,860.53	11,054.48	10,882.53	39.72	44.74	-90.54	144.98	-1,636.81	2,236.90	2,181.28	55.63	40.212		
11,000.00	10,960.53	11,154.48	10,982.53	40.06	45.05	-90.54	144.98	-1,636.81	2,236.90	2,180.79	56.11	39.864		
11,100.00	11,060.53	11,254.48	11,082.53	40.41	45.36	-90.54	144.98	-1,636.81	2,236.90	2,180.30	56.60	39.521		
11,200.00	11,160.53	11,354.48	11,182.53	40.75	45.67	-90.54	144.98	-1,636.81	2,236.90	2,179.82	57.09	39.184		
11,300.00	11,260.53	11,454.48	11,282.53	41.10	45.98	-90.54	144.98	-1,636.81	2,236.90	2,179.33	57.57	38.852		
11,400.00	11,360.53	11,554.48	11,382.53	41.44	46.29	-90.54	144.98	-1,636.81	2,236.90	2,178.84	58.06	38.526		
11,500.00	11,460.53	11,654.48	11,482.53	41.79	46.60	-90.54	144.98	-1,636.81	2,236.90	2,178.35	58.55	38.205		
11,600.00	11,560.53	11,754.48	11,582.53	42.13	46.91	-90.54	144.98	-1,636.81	2,236.90	2,177.87	59.04	37.889		
11,700.00	11,660.53	11,854.48	11,682.53	42.48	47.22	-90.54	144.98	-1,636.81	2,236.90	2,177.38	59.53	37.578		
11,800.00	11,760.53	11,954.48	11,782.53	42.83	47.54	-90.54	144.98	-1,636.81	2,236.90	2,176.89	60.02	37.271		
11,846.51	11,807.04	12,000.99	11,829.04	42.99	47.68	-90.54	144.98	-1,636.81	2,236.90	2,176.66	60.24	37.131		
11,850.00	11,810.53	12,004.48	11,832.53	43.00	47.70	96.36	144.98	-1,636.81	2,236.91	2,176.64	60.26	37.120		
11,900.00	11,860.45	12,054.40	11,882.45	43.16	47.85	96.40	144.98	-1,636.81	2,237.18	2,176.68	60.50	36.979		
11,950.00	11,909.97	12,103.92	11,931.97	43.31	48.01	96.49	144.98	-1,636.81	2,237.96	2,177.22	60.74	36.847		
12,000.00	11,958.70	12,195.63	12,023.43	43.46	48.27	96.79	139.51	-1,636.04	2,238.91	2,177.80	61.11	36.636		
12,050.00	12,006.28	12,304.51	12,129.18	43.61	48.54	96.98	114.55	-1,632.53	2,239.15	2,177.70	61.46	36.435		
12,100.00	12,052.34	12,414.21	12,228.98	43.75	48.75	96.97	69.85	-1,626.25	2,238.60	2,176.89	61.72	36.272		
12,150.00	12,096.54	12,521.46	12,316.51	43.87	48.89	96.75	8.74	-1,617.66	2,237.28	2,175.36	61.91	36.136		
12,200.00	12,138.53	12,623.52	12,387.75	43.99	48.99	96.38	-63.44	-1,607.51	2,235.27	2,173.20	62.08	36.008		
12,250.00	12,178.00	12,718.65	12,441.56	44.10	49.03	95.90	-140.99	-1,596.61	2,232.74	2,170.51	62.24	35.876		
12,300.00	12,214.64	12,806.18	12,479.01	44.21	49.06	95.36	-219.24	-1,585.62	2,229.85	2,167.45	62.41	35.732		
12,350.00	12,248.19	12,886.22	12,502.37	44.30	49.08	94.80	-294.99	-1,574.97	2,226.77	2,164.18	62.59	35.578		
12,400.00	12,278.37	12,959.37	12,514.20	44.39	49.11	94.23	-366.42	-1,564.93	2,223.62	2,160.85	62.78	35.422		
12,450.00	12,304.97	13,015.99	12,517.00	44.48	49.14	93.82	-422.40	-1,557.06	2,220.56	2,157.62	62.94	35.280		
12,500.00	12,327.78	13,045.03	12,517.00	44.58	49.16	93.72	-451.17	-1,553.17	2,218.12	2,155.06	63.07	35.172		
12,550.00	12,346.63	13,071.15	12,517.00	44.68	49.19	93.62	-477.09	-1,549.91	2,216.57	2,153.41	63.17	35.092		
12,600.00	12,361.37	13,100.00	12,517.00	44.79	49.21	93.47	-505.75	-1,546.59	2,215.86	2,152.58	63.29	35.013		
12,612.23	12,364.33	13,100.00	12,517.00	44.81	49.21	93.47	-505.75	-1,546.59	2,215.82	2,152.52	63.30	35.005 CC		
12,650.00	12,371.89	13,125.67	12,517.00	44.91	49.24	93.32	-531.28	-1,543.88	2,215.95	2,152.55	63.40	34.951		
12,700.00	12,378.11	13,153.65	12,517.00	45.04	49.26	93.15	-559.12	-1,541.19	2,216.80	2,153.27	63.53	34.896		
12,746.51	12,380.00	13,200.00	12,517.00	45.17	49.32	92.97	-605.32	-1,537.32	2,218.41	2,154.72	63.70	34.827		
12,800.00	12,380.00	13,200.00	12,517.00	45.34	49.32	92.97	-605.32	-1,537.32	2,220.10	2,156.34	63.76	34.820		
12,900.00	12,380.00	13,266.32	12,517.00	45.69	49.41	92.97	-671.50	-1,533.09	2,222.28	2,158.19	64.09	34.673		
13,000.00	12,380.00	13,322.66	12,517.00	46.08	49.50	92.97	-727.79	-1,530.70	2,222.98	2,158.55	64.43	34.504		
13,063.21	12,380.00	13,358.27	12,517.00	46.35	49.56	92.97	-763.39	-1,529.77	2,222.64	2,157.98	64.66	34.376		
13,100.00	12,380.00	13,387.80	12,517.00	46.52	49.62	92.97	-792.91	-1,529.32	2,222.42	2,157.60	64.83	34.283		
13,115.58	12,380.00	13,387.80	12,517.00	46.59	49.62	92.97	-792.91	-1,529.32	2,222.37	2,157.51	64.86	34.266		
13,200.00	12,380.00	13,472.19	12,517.00	47.00	49.79	92.97	-877.30	-1,528.49	2,222.37	2,157.02	65.36	34.004		
13,300.00	12,380.00	13,572.19	12,517.00	47.54	50.05	92.97	-977.29	-1,527.51	2,222.38	2,156.36	66.02	33.664		
13,400.00	12,380.00	13,672.19	12,517.00	48.13	50.38	92.97	-1,077.29	-1,526.53	2,222.38	2,155.63	66.75	33.293		
13,500.00	12,380.00	13,772.19	12,517.00	48.77	50.76	92.97	-1,177.28	-1,525.54	2,222.38	2,154.82	67.56	32.895		
13,600.00	12,380.00	13,872.19	12,517.00	49.45	51.21	92.97	-1,277.28	-1,524.56	2,222.39	2,153.95	68.44	32.473		
13,700.00	12,380.00	13,972.19	12,517.00	50.18	51.71	92.97	-1,377.27	-1,523.57	2,222.39	2,153.01	69.38	32.030		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													PF Fed Com - PF Fed Com 803H - OH - Plan #1		Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD															Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface Toolface (°)	Offset Wellbore Centre		Distance				Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
13,800.00	12,380.00	14,072.19	12,517.00	50.95	52.27	92.97	-1,477.27	-1,522.59	2,222.40	2,152.00	70.39	31.571				
13,900.00	12,380.00	14,172.19	12,517.00	51.77	52.88	92.97	-1,577.26	-1,521.61	2,222.40	2,150.93	71.47	31.097				
14,000.00	12,380.00	14,272.19	12,517.00	52.62	53.55	92.97	-1,677.26	-1,520.62	2,222.40	2,149.81	72.60	30.612				
14,100.00	12,380.00	14,372.19	12,517.00	53.51	54.26	92.97	-1,777.25	-1,519.64	2,222.41	2,148.62	73.79	30.120				
14,200.00	12,380.00	14,472.19	12,517.00	54.44	55.01	92.97	-1,877.25	-1,518.65	2,222.41	2,147.38	75.03	29.621				
14,300.00	12,380.00	14,572.19	12,517.00	55.40	55.81	92.97	-1,977.24	-1,517.67	2,222.42	2,146.09	76.32	29.119				
14,400.00	12,380.00	14,672.19	12,517.00	56.39	56.65	92.97	-2,077.24	-1,516.69	2,222.42	2,144.76	77.66	28.617				
14,500.00	12,380.00	14,772.19	12,517.00	57.41	57.52	92.97	-2,177.23	-1,515.70	2,222.42	2,143.37	79.05	28.114				
14,600.00	12,380.00	14,872.19	12,517.00	58.46	58.43	92.97	-2,277.23	-1,514.72	2,222.43	2,141.95	80.48	27.614				
14,700.00	12,380.00	14,972.19	12,517.00	59.54	59.38	92.97	-2,377.22	-1,513.73	2,222.43	2,140.48	81.95	27.118				
14,800.00	12,380.00	15,072.19	12,517.00	60.64	60.35	92.97	-2,477.22	-1,512.75	2,222.44	2,138.97	83.47	26.627				
14,900.00	12,380.00	15,172.19	12,517.00	61.77	61.36	92.97	-2,577.21	-1,511.77	2,222.44	2,137.42	85.02	26.142				
15,000.00	12,380.00	15,272.19	12,517.00	62.92	62.39	92.97	-2,677.21	-1,510.78	2,222.44	2,135.84	86.60	25.664				
15,100.00	12,380.00	15,372.19	12,517.00	64.09	63.45	92.97	-2,777.20	-1,509.80	2,222.45	2,134.23	88.22	25.193				
15,200.00	12,380.00	15,472.19	12,517.00	65.28	64.54	92.97	-2,877.20	-1,508.81	2,222.45	2,132.59	89.86	24.731				
15,300.00	12,380.00	15,572.19	12,517.00	66.50	65.65	92.97	-2,977.19	-1,507.83	2,222.46	2,130.91	91.54	24.278				
15,400.00	12,380.00	15,672.19	12,517.00	67.73	66.78	92.97	-3,077.19	-1,506.85	2,222.46	2,129.21	93.25	23.834				
15,500.00	12,380.00	15,772.19	12,517.00	68.98	67.93	92.97	-3,177.18	-1,505.86	2,222.46	2,127.48	94.98	23.399				
15,600.00	12,380.00	15,872.19	12,517.00	70.24	69.11	92.97	-3,277.18	-1,504.88	2,222.47	2,125.73	96.74	22.974				
15,700.00	12,380.00	15,972.19	12,517.00	71.52	70.30	92.97	-3,377.17	-1,503.89	2,222.47	2,123.95	98.52	22.558				
15,800.00	12,380.00	16,072.19	12,517.00	72.82	71.51	92.97	-3,477.17	-1,502.91	2,222.48	2,122.15	100.33	22.153				
15,900.00	12,380.00	16,172.19	12,517.00	74.13	72.74	92.97	-3,577.16	-1,501.93	2,222.48	2,120.33	102.15	21.757				
16,000.00	12,380.00	16,272.19	12,517.00	75.46	73.99	92.97	-3,677.16	-1,500.94	2,222.48	2,118.49	104.00	21.370				
16,100.00	12,380.00	16,372.19	12,517.00	76.79	75.25	92.97	-3,777.15	-1,499.96	2,222.49	2,116.62	105.86	20.994				
16,200.00	12,380.00	16,472.19	12,517.00	78.14	76.53	92.97	-3,877.15	-1,498.98	2,222.49	2,114.74	107.75	20.627				
16,300.00	12,380.00	16,572.19	12,517.00	79.50	77.82	92.97	-3,977.15	-1,497.99	2,222.49	2,112.85	109.65	20.269				
16,400.00	12,380.00	16,672.19	12,517.00	80.87	79.12	92.97	-4,077.14	-1,497.01	2,222.50	2,110.93	111.57	19.921				
16,500.00	12,380.00	16,772.19	12,517.00	82.25	80.44	92.97	-4,177.14	-1,496.02	2,222.50	2,109.00	113.50	19.582				
16,600.00	12,380.00	16,872.19	12,517.00	83.64	81.77	92.97	-4,277.13	-1,495.04	2,222.51	2,107.06	115.45	19.251				
16,700.00	12,380.00	16,972.19	12,517.00	85.04	83.11	92.97	-4,377.13	-1,494.06	2,222.51	2,105.10	117.41	18.930				
16,800.00	12,380.00	17,072.19	12,517.00	86.45	84.46	92.97	-4,477.12	-1,493.07	2,222.51	2,103.13	119.38	18.617				
16,900.00	12,380.00	17,172.19	12,517.00	87.87	85.82	92.97	-4,577.12	-1,492.09	2,222.52	2,101.15	121.37	18.312				
17,000.00	12,380.00	17,272.19	12,517.00	89.30	87.19	92.97	-4,677.11	-1,491.10	2,222.52	2,099.15	123.37	18.015				
17,100.00	12,380.00	17,372.19	12,517.00	90.73	88.57	92.97	-4,777.11	-1,490.12	2,222.53	2,097.14	125.38	17.726				
17,200.00	12,380.00	17,472.19	12,517.00	92.17	89.97	92.97	-4,877.10	-1,489.14	2,222.53	2,095.13	127.40	17.445				
17,300.00	12,380.00	17,572.19	12,517.00	93.62	91.36	92.97	-4,977.10	-1,488.15	2,222.53	2,093.10	129.44	17.171				
17,400.00	12,380.00	17,672.19	12,517.00	95.07	92.77	92.97	-5,077.09	-1,487.17	2,222.54	2,091.06	131.48	16.904				
17,500.00	12,380.00	17,772.19	12,517.00	96.53	94.19	92.97	-5,177.09	-1,486.18	2,222.54	2,089.01	133.53	16.644				
17,600.00	12,380.00	17,872.19	12,517.00	98.00	95.61	92.97	-5,277.08	-1,485.20	2,222.55	2,086.95	135.59	16.391				
17,700.00	12,380.00	17,972.19	12,517.00	99.47	97.04	92.97	-5,377.08	-1,484.22	2,222.55	2,084.89	137.66	16.145				
17,800.00	12,380.00	18,072.19	12,517.00	100.95	98.48	92.97	-5,477.07	-1,483.23	2,222.55	2,082.81	139.74	15.905				
17,900.00	12,380.00	18,172.19	12,517.00	102.43	99.92	92.97	-5,577.07	-1,482.25	2,222.56	2,080.73	141.83	15.671				
18,000.00	12,380.00	18,272.19	12,517.00	103.92	101.37	92.97	-5,677.06	-1,481.26	2,222.56	2,078.64	143.92	15.443				
18,100.00	12,380.00	18,372.19	12,517.00	105.41	102.83	92.97	-5,777.06	-1,480.28	2,222.57	2,076.54	146.02	15.220				
18,200.00	12,380.00	18,472.19	12,517.00	106.91	104.29	92.97	-5,877.05	-1,479.30	2,222.57	2,074.44	148.13	15.004				
18,300.00	12,380.00	18,572.19	12,517.00	108.41	105.76	92.97	-5,977.05	-1,478.31	2,222.57	2,072.33	150.25	14.793				
18,400.00	12,380.00	18,672.19	12,517.00	109.92	107.23	92.97	-6,077.04	-1,477.33	2,222.58	2,070.21	152.37	14.587				
18,500.00	12,380.00	18,772.19	12,517.00	111.43	108.71	92.97	-6,177.04	-1,476.34	2,222.58	2,068.09	154.50	14.386				
18,600.00	12,380.00	18,872.19	12,517.00	112.94	110.19	92.97	-6,277.03	-1,475.36	2,222.59	2,065.96	156.63	14.190				
18,700.00	12,380.00	18,972.19	12,517.00	114.46	111.68	92.97	-6,377.03	-1,474.38	2,222.59	2,063.82	158.77	13.999				
18,800.00	12,380.00	19,072.19	12,517.00	115.98	113.17	92.97	-6,477.02	-1,473.39	2,222.59	2,061.68	160.91	13.812				
18,900.00	12,380.00	19,172.19	12,517.00	117.51	114.67	92.97	-6,577.02	-1,472.41	2,222.60	2,059.54	163.06	13.630				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design PF Fed Com - PF Fed Com 803H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,000.00	12,380.00	19,272.19	12,517.00	119.04	116.17	92.97	-6,677.01	-1,471.42	2,222.60	2,057.39	165.22	13.453		
19,100.00	12,380.00	19,372.19	12,517.00	120.57	117.67	92.97	-6,777.01	-1,470.44	2,222.61	2,055.23	167.37	13.279		
19,200.00	12,380.00	19,472.19	12,517.00	122.11	119.18	92.97	-6,877.00	-1,469.46	2,222.61	2,053.07	169.54	13.110		
19,300.00	12,380.00	19,572.19	12,517.00	123.64	120.69	92.97	-6,977.00	-1,468.47	2,222.61	2,050.91	171.71	12,944		
19,400.00	12,380.00	19,672.19	12,517.00	125.18	122.21	92.97	-7,077.00	-1,467.49	2,222.62	2,048.74	173.88	12,783		
19,500.00	12,380.00	19,772.19	12,517.00	126.73	123.73	92.97	-7,176.99	-1,466.51	2,222.62	2,046.57	176.06	12,625		
19,600.00	12,380.00	19,872.19	12,517.00	128.27	125.25	92.97	-7,276.99	-1,465.52	2,222.63	2,044.39	178.24	12,470		
19,700.00	12,380.00	19,972.19	12,517.00	129.82	126.78	92.97	-7,376.98	-1,464.54	2,222.63	2,042.21	180.42	12,319		
19,800.00	12,380.00	20,072.19	12,517.00	131.38	128.31	92.97	-7,476.98	-1,463.55	2,222.63	2,040.03	182.61	12,172		
19,900.00	12,380.00	20,172.19	12,517.00	132.93	129.84	92.97	-7,576.97	-1,462.57	2,222.64	2,037.84	184.80	12,027		
20,000.00	12,380.00	20,272.19	12,517.00	134.49	131.37	92.97	-7,676.97	-1,461.59	2,222.64	2,035.65	187.00	11,886		
20,100.00	12,380.00	20,372.19	12,517.00	136.04	132.91	92.97	-7,776.96	-1,460.60	2,222.65	2,033.45	189.19	11,748		
20,200.00	12,380.00	20,472.19	12,517.00	137.61	134.45	92.97	-7,876.96	-1,459.62	2,222.65	2,031.25	191.40	11,613		
20,300.00	12,380.00	20,572.19	12,517.00	139.17	135.99	92.97	-7,976.95	-1,458.63	2,222.65	2,029.05	193.60	11,481		
20,400.00	12,380.00	20,672.19	12,517.00	140.73	137.54	92.97	-8,076.95	-1,457.65	2,222.66	2,026.85	195.81	11,351		
20,500.00	12,380.00	20,772.19	12,517.00	142.30	139.09	92.97	-8,176.94	-1,456.67	2,222.66	2,024.64	198.02	11,225		
20,600.00	12,380.00	20,872.19	12,517.00	143.87	140.64	92.97	-8,276.94	-1,455.68	2,222.67	2,022.43	200.23	11,101		
20,700.00	12,380.00	20,972.19	12,517.00	145.44	142.19	92.97	-8,376.93	-1,454.70	2,222.67	2,020.22	202.45	10,979		
20,800.00	12,380.00	21,072.19	12,517.00	147.01	143.74	92.97	-8,476.93	-1,453.71	2,222.67	2,018.01	204.67	10,860		
20,900.00	12,380.00	21,172.19	12,517.00	148.59	145.30	92.97	-8,576.92	-1,452.73	2,222.68	2,015.79	206.89	10,743		
21,000.00	12,380.00	21,272.19	12,517.00	150.16	146.86	92.97	-8,676.92	-1,451.75	2,222.68	2,013.57	209.11	10,629		
21,100.00	12,380.00	21,372.19	12,517.00	151.74	148.42	92.97	-8,776.91	-1,450.76	2,222.69	2,011.35	211.34	10,517		
21,200.00	12,380.00	21,472.19	12,517.00	153.32	149.98	92.97	-8,876.91	-1,449.78	2,222.69	2,009.13	213.56	10,408		
21,300.00	12,380.00	21,572.19	12,517.00	154.90	151.55	92.97	-8,976.90	-1,448.79	2,222.69	2,006.90	215.79	10,300		
21,400.00	12,380.00	21,672.19	12,517.00	156.48	153.11	92.97	-9,076.90	-1,447.81	2,222.70	2,004.67	218.03	10,195		
21,500.00	12,380.00	21,772.19	12,517.00	158.06	154.68	92.97	-9,176.89	-1,446.83	2,222.70	2,002.44	220.26	10,091		
21,600.00	12,380.00	21,872.19	12,517.00	159.65	156.25	92.97	-9,276.89	-1,445.84	2,222.71	2,000.21	222.50	9,990		
21,700.00	12,380.00	21,972.19	12,517.00	161.23	157.82	92.97	-9,376.88	-1,444.86	2,222.71	1,997.97	224.74	9,890		
21,800.00	12,380.00	22,072.19	12,517.00	162.82	159.40	92.97	-9,476.88	-1,443.87	2,222.71	1,995.74	226.98	9,793		
21,900.00	12,380.00	22,172.19	12,517.00	164.41	160.97	92.97	-9,576.87	-1,442.89	2,222.72	1,993.50	229.22	9,697		
22,000.00	12,380.00	22,272.19	12,517.00	166.00	162.55	92.97	-9,676.87	-1,441.91	2,222.72	1,991.26	231.46	9,603		
22,100.00	12,380.00	22,372.19	12,517.00	167.59	164.13	92.97	-9,776.86	-1,440.92	2,222.73	1,989.02	233.71	9,511		
22,200.00	12,380.00	22,472.19	12,517.00	169.18	165.71	92.97	-9,876.86	-1,439.94	2,222.73	1,986.77	235.95	9,420		
22,300.00	12,380.00	22,572.19	12,517.00	170.77	167.29	92.97	-9,976.85	-1,438.96	2,222.73	1,984.53	238.20	9,331		
22,400.00	12,380.00	22,672.19	12,517.00	172.37	168.87	92.97	-10,076.85	-1,437.97	2,222.74	1,982.28	240.45	9,244		
22,500.00	12,380.00	22,772.19	12,517.00	173.96	170.45	92.97	-10,176.85	-1,436.99	2,222.74	1,980.04	242.71	9,158		
22,547.76	12,380.00	22,819.94	12,517.00	174.73	171.21	92.97	-10,224.60	-1,436.52	2,222.74	1,978.96	243.78	9,118		
22,548.65	12,380.00	22,820.84	12,517.00	174.75	171.22	92.97	-10,225.50	-1,436.51	2,222.74	1,978.94	243.80	9,117 ES, SF		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3031' GE + 30' KB @ 3061.00usft

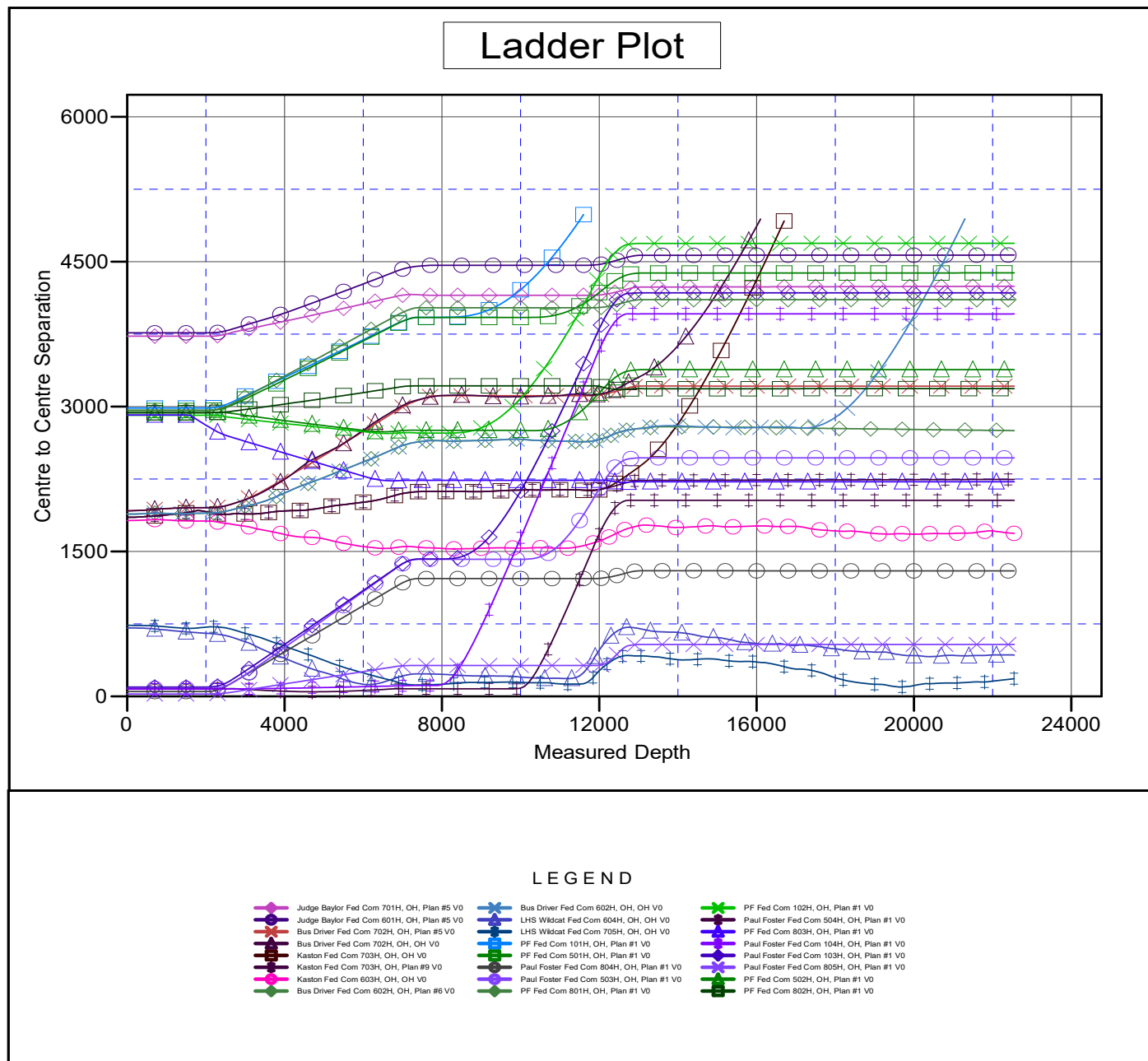
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

Coordinates are relative to: Paul Foster Fed Com 806H

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

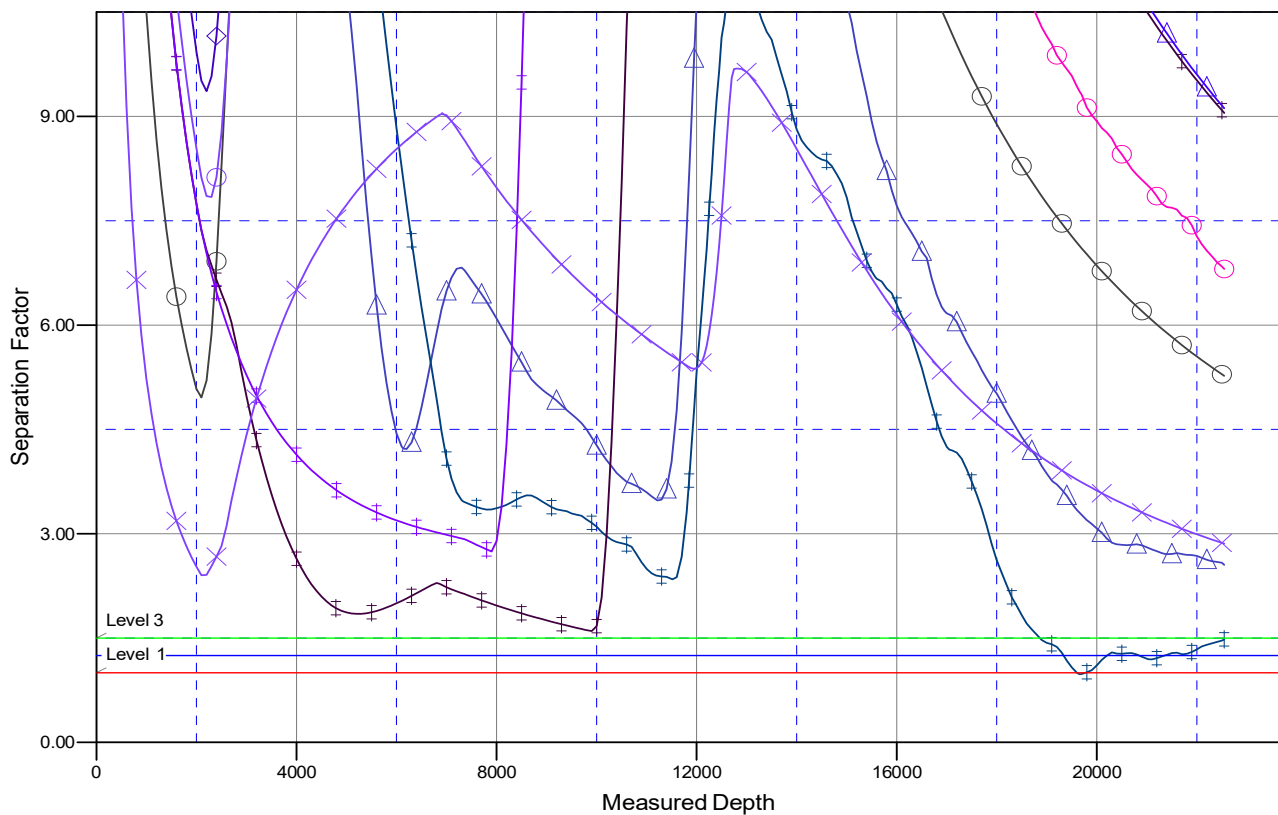


Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 806H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3031' GE + 30' KB @ 3061.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.333334

Coordinates are relative to: Paul Foster Fed Com 806H
 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 #5 V0	Bus Driver Fed Com 602H, OH, OH V0	PF Fed Com 102H, OH, Plan #1 V0
Judge Baylor Fed Com 601H, OH, Plan #5 V0	LHS Wildcat Fed Com 604H, OH, OH V0	Paul Foster Fed Com 504H, OH, Plan #1 V0
Bus Driver Fed Com 702H, OH, Plan #5 V0	LHS Wildcat Fed Com 705H, OH, OH V0	PF Fed Com 603H, OH, Plan #1 V0
Bus Driver Fed Com 702H, OH, OH V0	PF Fed Com 101H, OH, Plan #1 V0	Paul Foster Fed Com 104H, OH, Plan #1 V0
Kastoni Fed Com 703H, OH, OH V0	PF Fed Com 501H, OH, Plan #1 V0	Paul Foster Fed Com 103H, OH, Plan #1 V0
Kastoni Fed Com 703H, OH, Plan #9 V0	Paul Foster Fed Com 804H, OH, Plan #1 V0	Paul Foster Fed Com 805H, OH, Plan #1 V0
Kastoni Fed Com 603H, OH, OH V0	Paul Foster Fed Com 503H, OH, Plan #1 V0	PF Fed Com 502H, OH, Plan #1 V0
Bus Driver Fed Com 602H, OH, Plan #6 V0	PF Fed Com 801H, OH, Plan #1 V0	PF Fed Com 802H, OH, Plan #1 V0

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

**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Franklin Mountain Energy, LLC
LEASE NO.:	NMNM117126, NMNM12280, NMNM119761, NMNM130330
COUNTY:	Lea County

Wells:

Paul Foster MH West Pad 1	
Paul Foster Fed Com 101H	650 FNL, 1,268 FWL
Paul Foster Fed Com 102H	650 FNL, 1,343 FWL
Paul Foster Fed Com 501H	650 FNL, 1,293 FWL
Paul Foster Fed Com 502H	650 FNL, 1,318 FWL
Paul Foster Fed Com 801H	575 FNL, 1,281 FWL
Paul Foster Fed Com 802H	575 FNL, 1,306 FWL
Paul Foster Fed Com 803H	575 FNL, 1,331 FWL
Paul Foster MH East Pad 2	
Paul Foster Fed Com 103H	285 FNL, 1,125 FEL
Paul Foster Fed Com 104H	285 FNL, 1,050 FEL
Paul Foster Fed Com 503H	285 FNL, 1,100 FEL
Paul Foster Fed Com 504H	285 FNL, 1,075 FEL
Paul Foster Fed Com 804H	210 FNL, 1,112 FEL
Paul Foster Fed Com 805H	210 FNL, 1,087 FEL
Paul Foster Fed Com 806H	210 FNL, 1,062 FEL

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- ☐ **General Provisions**
- ☐ **Permit Expiration**
- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**
- ☒ **Special Requirements**
 - Watershed
 - Lesser Prairie Chicken
 - VRM IV
- ☐ **Construction**
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- ☐ **Road Section Diagram**
- ☒ **Production (Post Drilling)**
 - Well Structures & Facilities
 - Pipelines
 - Electric Lines
- ☐ **Interim Reclamation**
- ☐ **Final Abandonment & Reclamation**

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See information below discussing NAGPRA.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Watershed:

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

BURIED/SURFACE LINE(S):

When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

ELECTRIC LINE(S):

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole should not be placed in drainages, playas, wetlands, riparian areas, or

floodplains and must span across the features at a distance away that would not promote further erosion.

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Ground-level Abandoned Well Marker to avoid raptor perching:

Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

VRM IV:

Above-ground structures including meter housing that are not subject to safety requirements are painted a flat non-reflective paint color, Shale Green from the BLM Standard Environmental Color Chart (CC-001: June 2008).

Short-term mitigation measures include painting all above-ground structures that are not subject to safety requirements (including meter housing) Shale Green, which is a flat non-reflective paint color listed in the BLM Standard Environmental Color Chart (CC-001: June 2013). Long-term mitigation measures include the removal of wells and associated infrastructure following abandonment (end of cost-effective production). Previously impacted areas will be reclaimed by removing structures and caliche pads, returning disturbed areas to natural grade, and revegetating with an approved BLM seed mixture; thereby eliminating visual impacts.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

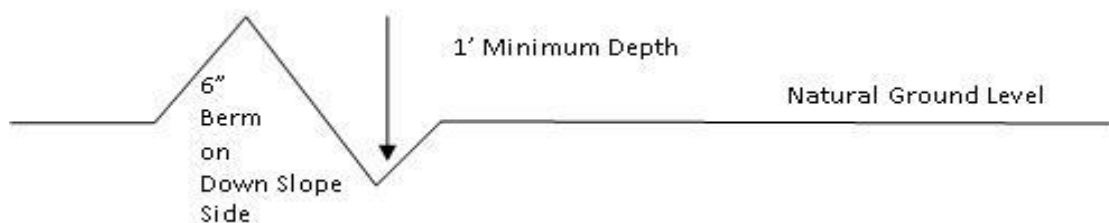
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsliping and insliping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

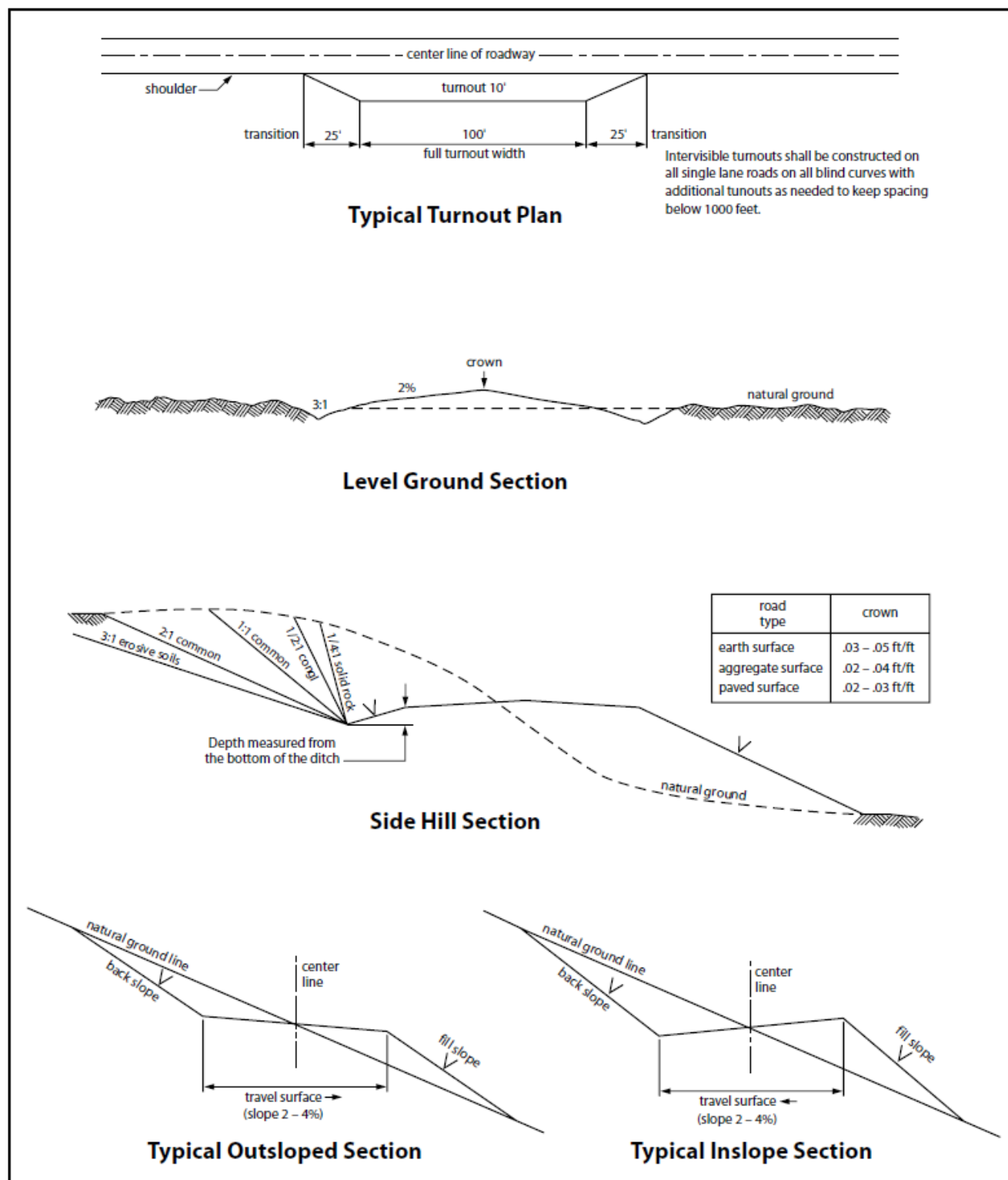


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan **will be submitted to the BLM Carlsbad Field Office for approval** prior to pipeline installation. The method could incorporate gauges to detect pressure drops, siting valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the

Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

- ☐ Seed Mixture 1
- ☐ Seed Mixture 2
- ☐ Seed Mixture 2/LPC
- ☐ Seed Mixture 3
- ☐ Seed Mixture 4
- ☐ Seed Mixture Aplomado Falcon Mixture

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 17 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

17. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

18. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

19. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

20. Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species

	<u>lb/acre</u>
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sand love grass (<i>Eragrostis trichodes</i>)	1.0
Plains bristlegrass (<i>Setaria macrostachya</i>)	2.0

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

**PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Franklin Mountain Energy LLC
LEASE NO.:	NMNM117126
LOCATION:	Section 1, T.26 S., R.35 E., NMPM
COUNTY:	Lea County, New Mexico
Sundry ID:	N/A

WELL NAME & NO.:	PF Fed Com 101H
SURFACE HOLE FOOTAGE:	650'/N & 1268'/W
BOTTOM HOLE FOOTAGE:	150'/S & 900'/W

WELL NAME & NO.:	PF Fed Com 102H
SURFACE HOLE FOOTAGE:	650'/N & 1343'/W
BOTTOM HOLE FOOTAGE:	1170'/N & 2100'/W

WELL NAME & NO.:	PF Fed Com 103H
SURFACE HOLE FOOTAGE:	285'/N & 1125'/E
BOTTOM HOLE FOOTAGE:	1170'/N & 1880'/E

WELL NAME & NO.:	PF Fed Com 501H
SURFACE HOLE FOOTAGE:	650'/N & 1293'/W
BOTTOM HOLE FOOTAGE:	150'/S & 900'/W

WELL NAME & NO.:	PF Fed Com 502H
SURFACE HOLE FOOTAGE:	650'/N & 1318'/W
BOTTOM HOLE FOOTAGE:	1170'/N & 2100'/W

WELL NAME & NO.:	PF Fed Com 504H
SURFACE HOLE FOOTAGE:	285'/N & 1075'/E
BOTTOM HOLE FOOTAGE:	150'/S & 380'/E

WELL NAME & NO.:	PF Fed Com 801H
SURFACE HOLE FOOTAGE:	575'/N & 1281'/W
BOTTOM HOLE FOOTAGE:	150'/S & 800'/W

WELL NAME & NO.:	PF Fed Com 802H
SURFACE HOLE FOOTAGE:	575'/N & 1306'/W
BOTTOM HOLE FOOTAGE:	1170'/N & 1720'/W

WELL NAME & NO.:	PF Fed Com 803H
SURFACE HOLE FOOTAGE:	575'/N & 1331'/W
BOTTOM HOLE FOOTAGE:	1170'/N & 2600'/E

WELL NAME & NO.:	PF Fed Com 804H
SURFACE HOLE FOOTAGE:	210'/N & 1112'/E
BOTTOM HOLE FOOTAGE:	1170'/N & 1680'/E

WELL NAME & NO.:	PF Fed Com 805H
SURFACE HOLE FOOTAGE:	210'/N & 1087'/E
BOTTOM HOLE FOOTAGE:	150'/S & 780'/E

WELL NAME & NO.:	PF Fed Com 806H
SURFACE HOLE FOOTAGE:	210'/N & 1062'/E
BOTTOM HOLE FOOTAGE:	150'/S & 380'/E

COA

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

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The 13-3/8 inch surface casing shall be set at approximately **970 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature

survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.

Option 2:

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

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

3. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

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

C. PRESSURE CONTROL

1.

Option 1:

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

Option 2:

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

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

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

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

☒ Lea County

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

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

A. CASING

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

B. PRESSURE CONTROL

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

District I

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

District II

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

District III

1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 88441

CONDITIONS

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 88441
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	3/15/2022
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	3/15/2022
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	3/15/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	3/15/2022