

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. 30-025-49859
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 / 1112 FEL / TWSP: 26S / RANGE: 35E / SECTION: 1 / LAT: 32.078996 / LONG: -103.316312 (TVD: 0 feet, MD: 0 feet)

PPP: NWSE / 0 FNL / 1681 FEL / TWSP: 26S / RANGE: 35E / SECTION: 12 / LAT: 32.05778 / LONG: -103.318134 (TVD: 12399 feet, MD: 20100 feet)

PPP: TR B / 0 FNL / 1680 FEL / TWSP: 26S / RANGE: 35E / SECTION: 12 / LAT: 32.065042 / LONG: -103.318138 (TVD: 12399 feet, MD: 17400 feet)

PPP: TR B / 621 FNL / 1681 FEL / TWSP: 26S / RANGE: 35E / SECTION: 1 / LAT: 32.077867 / LONG: -103.318146 (TVD: 12399 feet, MD: 12760 feet)

BHL: TR B / 1170 FNL / 1680 FEL / TWSP: 26S / RANGE: 35E / SECTION: 13 / LAT: 32.047319 / LONG: -103.318127 (TVD: 12399 feet, MD: 23874 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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-49859		² Pool Code 98228		³ Pool Name WC-025 G-09 S253536D; UPR WOLFCAMP	
⁴ Property Code 332687		⁵ Property Name PF FED COM			⁶ Well Number 804H
⁷ OGRID No. 373910		⁸ Operator Name FRANKLIN MOUNTAIN ENERGY LLC			⁹ Elevation 3031.8'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	1	26S	35E		210	NORTH	1112	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. B	Section 13	Township 26S	Range 35E	Lot Idn	Feet from the 1170	North/South line NORTH	Feet from the 1680	East/West line EAST	County LEA
¹² Dedicated Acres 720		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°42'17"W	2642.13'
L2	N74°21'00"W	591.33'
L3	S00°19'51"E	573.04'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°04'44.38" (32.078996°)
LONGITUDE = 103°18'58.72" (103.316312°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°04'43.93" (32.078869°)
LONGITUDE = 103°18'57.07" (103.315852°)
STATE PLANE NAD 83 (N.M. EAST)
N: 393960.67' E: 856338.63'
STATE PLANE NAD 27 (N.M. EAST)
N: 393902.71' E: 815150.91'

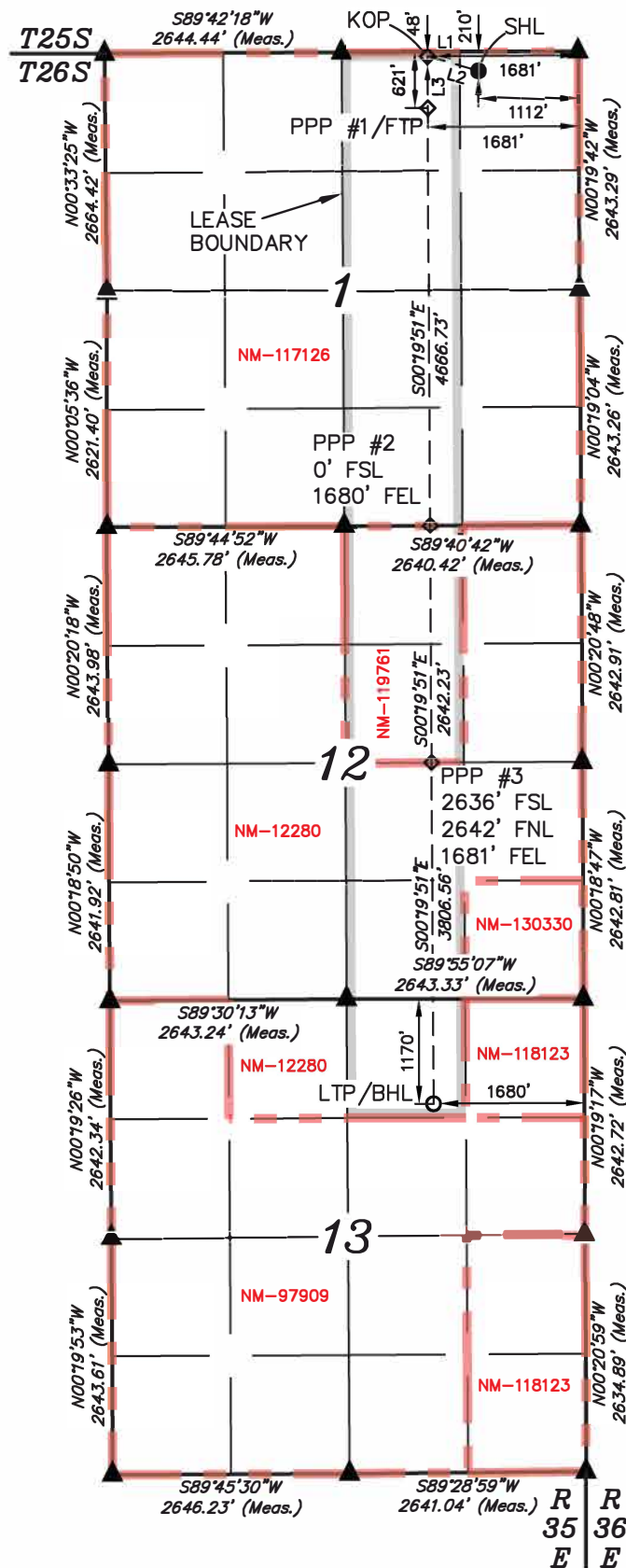
NAD 83 (KICK OFF POINT)
LATITUDE = 32°04'45.99" (32.079442°)
LONGITUDE = 103°19'05.33" (103.318147°)
NAD 27 (KICK OFF POINT)
LATITUDE = 32°04'45.53" (32.079315°)
LONGITUDE = 103°19'03.67" (103.317687°)
STATE PLANE NAD 83 (N.M. EAST)
N: 394117.79' E: 855768.64'
STATE PLANE NAD 27 (N.M. EAST)
N: 394059.83' E: 814580.94'

NAD 83 (PPP #1/FTP)
LATITUDE = 32°04'40.32" (32.077867°)
LONGITUDE = 103°19'05.33" (103.318146°)
NAD 27 (PPP #1/FTP)
LATITUDE = 32°04'39.87" (32.077740°)
LONGITUDE = 103°19'03.67" (103.317686°)
STATE PLANE NAD 83 (N.M. EAST)
N: 393544.86' E: 855774.34'
STATE PLANE NAD 27 (N.M. EAST)
N: 393486.92' E: 814586.62'

NAD 83 (PPP #2)
LATITUDE = 32°03'54.15" (32.065042°)
LONGITUDE = 103°19'05.30" (103.318138°)
NAD 27 (PPP #2)
LATITUDE = 32°03'53.69" (32.064915°)
LONGITUDE = 103°19'03.64" (103.317678°)
STATE PLANE NAD 83 (N.M. EAST)
N: 388879.04' E: 855820.74'
STATE PLANE NAD 27 (N.M. EAST)
N: 388821.23' E: 814632.84'

NAD 83 (PPP #3)
LATITUDE = 32°03'28.01" (32.057780°)
LONGITUDE = 103°19'05.28" (103.318134°)
NAD 27 (PPP #3)
LATITUDE = 32°03'27.55" (32.057653°)
LONGITUDE = 103°19'03.63" (103.317674°)
STATE PLANE NAD 83 (N.M. EAST)
N: 386237.32' E: 855847.02'
STATE PLANE NAD 27 (N.M. EAST)
N: 386179.58' E: 814659.01'

NAD 83 (LTP/BHL)
LATITUDE = 32°02'50.35" (32.047319°)
LONGITUDE = 103°19'03.56" (103.318127°)
NAD 27 (LTP/BHL)
LATITUDE = 32°02'49.89" (32.047192°)
LONGITUDE = 103°19'03.61" (103.317668°)
STATE PLANE NAD 83 (N.M. EAST)
N: 382431.50' E: 855884.87'
STATE PLANE NAD 27 (N.M. EAST)
N: 382373.87' E: 814696.71'



17 OPERATOR CERTIFICATION

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

Signature Julia M. Hunt Date 8/2/2021

Shelly Albrecht
Printed Name

salbrecht@fmellc.com
E-mail Address

18 SURVEYOR CERTIFICATION

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

April 28, 2021

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



Certificate Number:

NOTE:

- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

● = SURFACE HOLE LOCATION
◇ = KICK OFF POINT/PPP/FTP
○ = LAST TAKE POINT/
BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED



SCALE

DRAWN BY: C.C. 05-07-21

REV: 1 Z.T. 07-27-21

(ADD KOP, PPP'S & LEASE INFO)

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

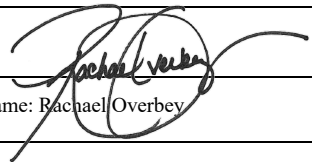
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 30-025-49859	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	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 30-025-49859	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	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 804H

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	2,335'	726'			Carbonates
Salado	1,828'	1,233'			Salt, Carbonate & Clastics
Base Salt	-192'	3,253'			Shaley Carbonate & Shale
Lamar	-1,914'	4,975'			Carbonate & Clastics
Bell Canyon	-2,003'	5,064'			Sandstone - oil/gas/water
Cherry Canyon	-2,851'	5,912'			Sandstone - oil/gas/water
Brushy Canyon	-4,298'	7,359'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,486'	8,547'			Shale/Carbonates - oil/gas
Avalon	-5,513'	8,574'			Shale/Carbonates - oil/gas
Chert Zone	-5,688'	8,749'			Carbonate/Chert
First Bone Spring Sand	-6,762'	9,823'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-6,908'	9,969'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7,261'	10,322'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-7,797'	10,858'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-8,540'	11,601'			Sandstone - oil/gas/water
Wolfcamp	-8,773'	11,834'			Overpressure shale/sand- Oil/Gas
Wolfcamp A	-8,854'	11,915'			Overpressure Shale - Oil/Gas
Wolfcamp B	-9,247'	12,308'			Overpressure Shale - Oil/Gas
HZ Target	-9,338'	12,399'			Overpressure Shale - Oil/Gas
Wolfcamp C	-9,418'	12,479'			Overpressure Shale - Oil/Gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	5,064'	Oil
Bone Spring	9,823'	Oil
Wolfcamp	11,834'	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	5000	1.81	1.81	3.05	3.47
Intermediate 7 5/8"	29.7	HCP-110	8280	7150	827	Stinger 564	11860	1.12	1.29	1.83	1.25
Long string 5 1/2"	23	P-110	14520	14520	729	Eagle 606 TVD	23874 12399	1.32	1.30	1.12	0.93 1.57



7 5/8" casing will be set at 11,860' MD/11,826' TVD at 0° Inc. Stress calculations on 5 1/2" casing performed assuming 23,874' depth. Actual max vertical depth is 12,399'.

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	5000	1453	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	4000	100%
Int2	8.75	7.625	11860	368	0.125 pps Poly-E-Flake, 3lb/sk Kol-Seal Lite Fill, 9.5 ppg, Class C 3lb/sk	2.13	5.97	4000	94	NeoCem 14.8 ppg, Class C	1.33	6.29	10860	50%
Prod	6.75	5.5	23874	971	Bridgemaker Gel, 5% Salt, 5pps LCM, 0.25pps Cello-Flake Tail, 14.5 ppg, Gas Migration Control	1.34	6.22	10860		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' – 11,860'	Brine	8.8-10.2	28-34	N/c
11,860' – 23,874' Lateral	Oil Base	11.0-12.5	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 12,399' TVD (deepest point of the well) is 195F with an estimated maximum bottom-hole pressure (BHP) at the same point of 8,381 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 804H
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



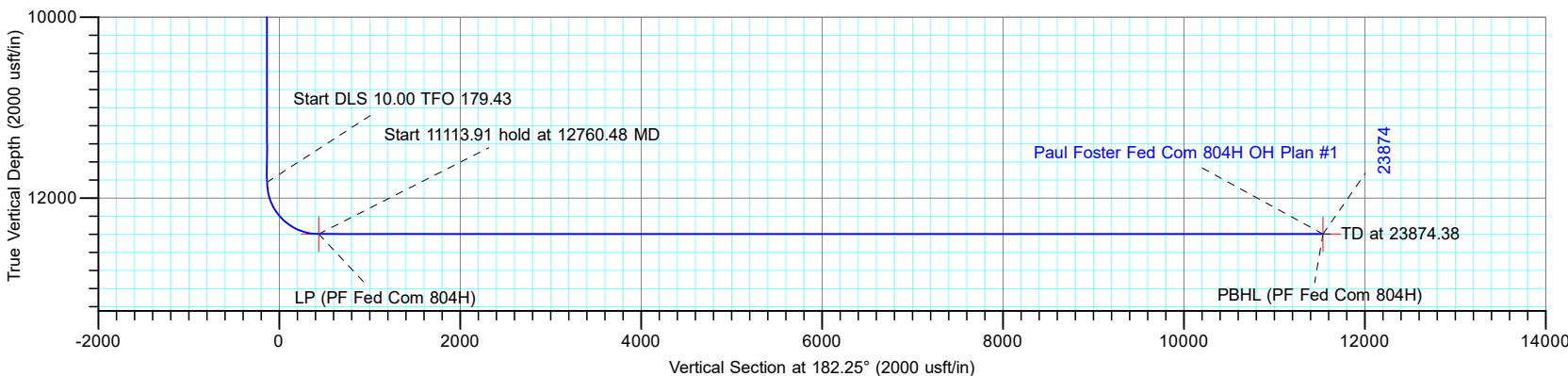
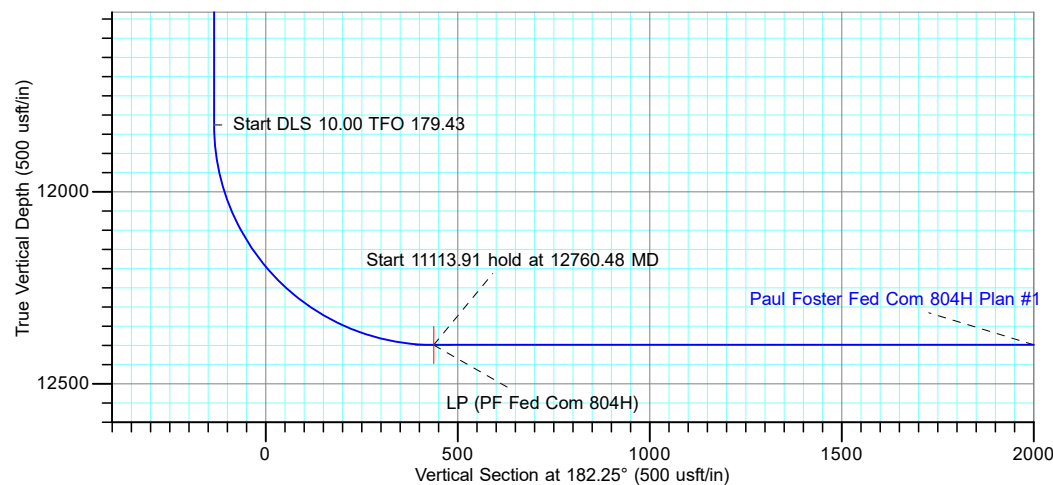
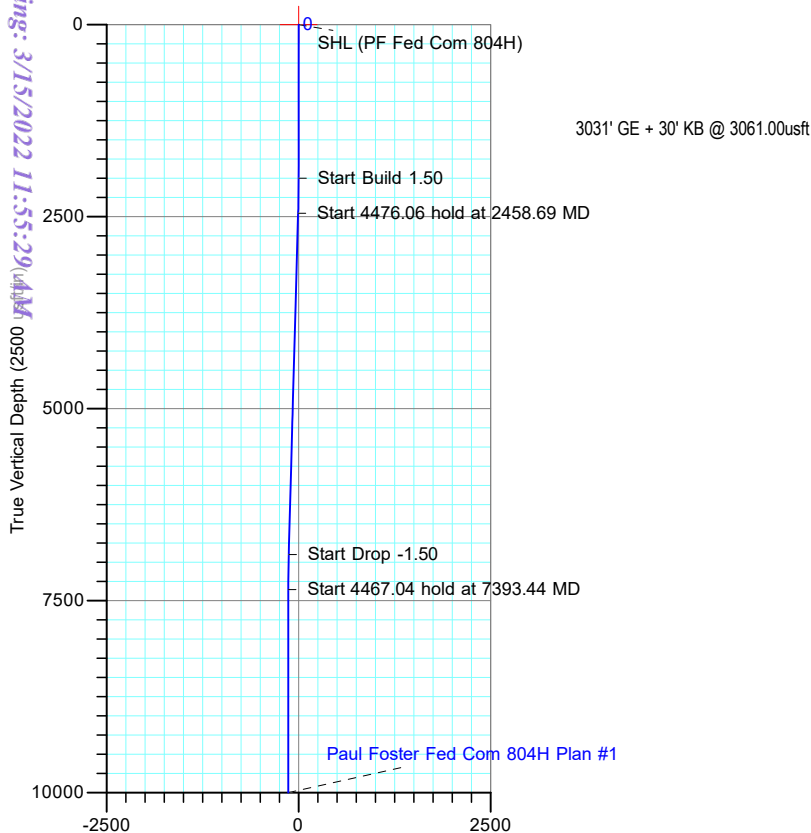
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SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
2458.69	6.88	285.40	2457.58	7.30	-26.52	1.50	285.40	-6.26	Start 4476.06 hold at 2458.69 MD
6934.75	6.88	285.40	6901.42	149.70	-543.48	0.00	0.00	-128.21	Start Drop -1.50
7393.44	0.00	0.00	7359.00	157.00	-570.00	1.50	180.00	-134.46	Start 4467.04 hold at 7393.44 MD
11860.48	0.00	0.00	11826.04	157.00	-570.00	0.00	0.00	-134.46	Start DLS 10.00 TFO 179.43
12760.48	90.00	179.43	12399.00	-415.93	-564.30	10.00	179.43	437.80	Start 11113.91 hold at 12760.48 MD
23874.38	90.00	179.43	12399.00	-11529.29	-453.78	0.00	0.00	11538.21	TD at 23874.38

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
LP (PF Fed Com 804H)	12399.00	-415.93	-564.30	32.077867	-103.318146
PBHL (PF Fed Com 804H)	12399.00	-11529.29	-453.78	32.047319	-103.318127
SHL (PF Fed Com 804H)	0.00	0.00	0.00	32.078996	-103.316312



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

Plan: Plan #1 (Paul Foster Fed Com 804H/OH)
PF Fed Com
Created By: Dustin Ault
Date: 0:21, July 17 2021
Approved: _____
Date: _____

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Released to Imaging: 3/15/2022 11:55:29 AM

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: PF Fed Com
Well: Paul Foster Fed Com 804H
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



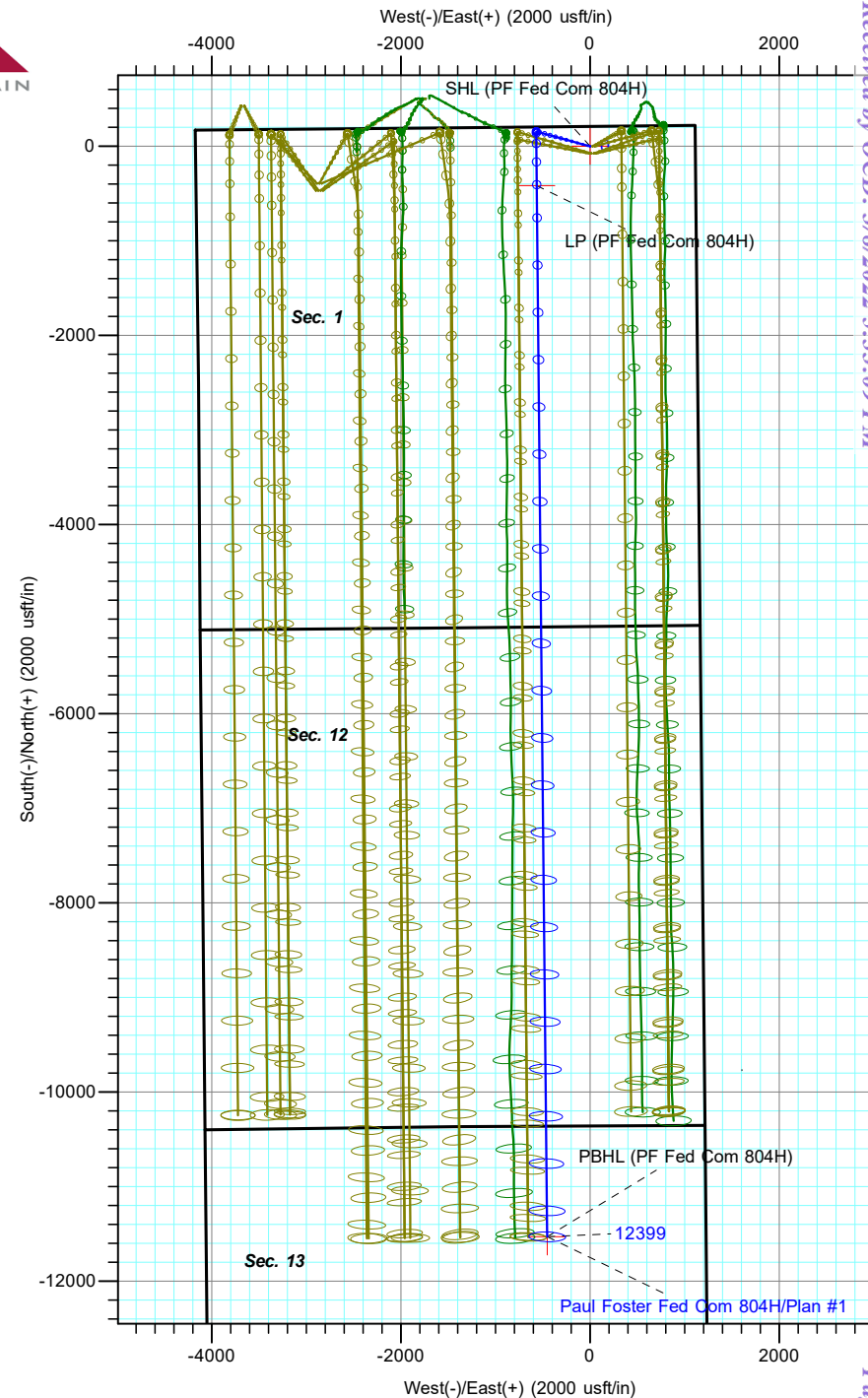
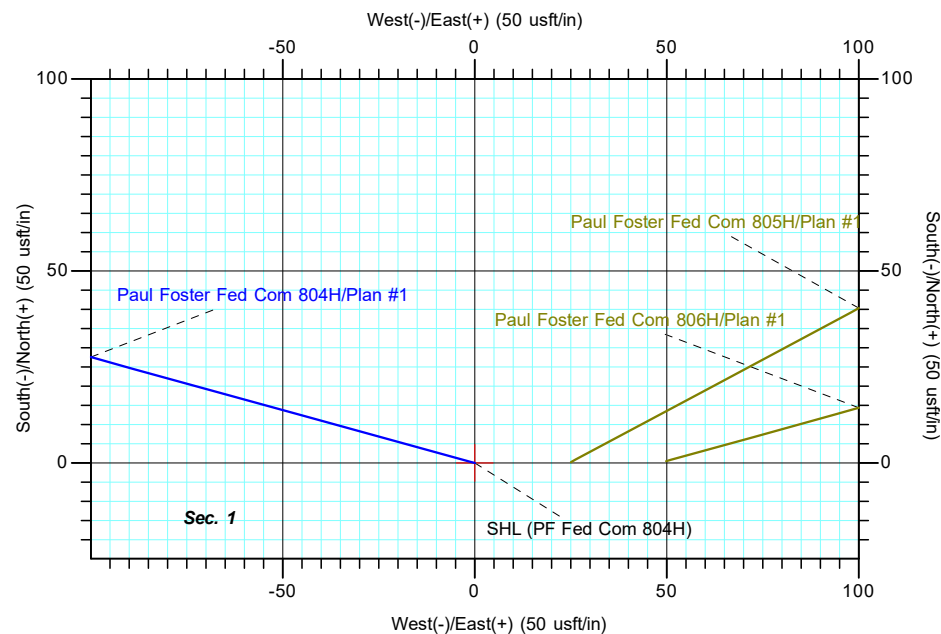
PROJECT DETAILS: Lea County, NM (NAD83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP (PF Fed Com 804H)	12399.00	-415.93	-564.30	393544.86	855774.34	32.077867	-103.318146
PBHL (PF Fed Com 804H)	12399.00	-11529.29	-453.78	382431.50	855884.87	32.047319	-103.318127
SHL (PF Fed Com 804H)	0.00	0.00	0.00	393960.79	856338.64	32.078996	-103.316312

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
2458.69	6.88	285.40	2457.58	7.30	-26.52	1.50	285.40	-6.26	Start 4476.06 hold at 2458.69 MD
6934.75	6.88	285.40	6901.42	149.70	-543.48	0.00	0.00	-128.21	Start Drop -1.50
7393.44	0.00	0.00	7359.00	157.00	-570.00	1.50	180.00	-134.46	Start 4467.04 hold at 7393.44 MD
11860.48	0.00	0.00	11826.04	157.00	-570.00	0.00	0.00	-134.46	Start DLS 10.00 TFO 179.43
12760.48	90.00	179.43	12399.00	-415.93	-564.30	10.00	179.43	437.80	Start 11113.91 hold at 12760.48 MD
23874.38	90.00	179.43	12399.00	-11529.29	-453.78	0.00	0.00	11538.21	TD at 23874.38



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

Plan: Plan #1 (Paul Foster Fed Com 804H/OH)
PF Fed Com
Created By: Dustin Ault
Date: 0:22, July 17 2021
Approved: _____
Date: _____

Received by OCD: 3/8/2022 5:33:09 PM

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Franklin Mountain Energy

Lea County, NM (NAD83)

PF Fed Com

Paul Foster Fed Com 804H

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 804H
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 804H	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 804H			
Well Position	+N/-S	467.07 usft	Northing:	393,960.79 usft
	+E/-W	2,898.50 usft	Easting:	856,338.64 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	47,427.40327590

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	182.25

Plan Survey Tool Program	Date	7/17/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	23,874.38 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	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,458.69	6.88	285.40	2,457.58	7.30	-26.52	1.50	1.50	0.00	285.40	
6,934.75	6.88	285.40	6,901.42	149.70	-543.48	0.00	0.00	0.00	0.00	
7,393.44	0.00	0.00	7,359.00	157.00	-570.00	1.50	-1.50	0.00	180.00	
11,860.48	0.00	0.00	11,826.04	157.00	-570.00	0.00	0.00	0.00	0.00	
12,760.48	90.00	179.43	12,399.00	-415.93	-564.30	10.00	10.00	19.94	179.43	
23,874.38	90.00	179.43	12,399.00	-11,529.29	-453.78	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 804H
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 804H	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 804H)									
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
Start Build 1.50									
2,100.00	1.50	285.40	2,099.99	0.35	-1.26	-0.30	1.50	1.50	0.00
2,200.00	3.00	285.40	2,199.91	1.39	-5.05	-1.19	1.50	1.50	0.00
2,300.00	4.50	285.40	2,299.69	3.13	-11.35	-2.68	1.50	1.50	0.00
2,400.00	6.00	285.40	2,399.27	5.56	-20.17	-4.76	1.50	1.50	0.00
2,458.69	6.88	285.40	2,457.58	7.30	-26.52	-6.26	1.50	1.50	0.00
Start 4476.06 hold at 2458.69 MD									
2,500.00	6.88	285.40	2,498.60	8.62	-31.29	-7.38	0.00	0.00	0.00
2,600.00	6.88	285.40	2,597.88	11.80	-42.84	-10.11	0.00	0.00	0.00
2,700.00	6.88	285.40	2,697.16	14.98	-54.39	-12.83	0.00	0.00	0.00
2,800.00	6.88	285.40	2,796.44	18.16	-65.94	-15.55	0.00	0.00	0.00
2,900.00	6.88	285.40	2,895.72	21.34	-77.49	-18.28	0.00	0.00	0.00
3,000.00	6.88	285.40	2,995.00	24.52	-89.04	-21.00	0.00	0.00	0.00
3,100.00	6.88	285.40	3,094.28	27.71	-100.59	-23.73	0.00	0.00	0.00
3,200.00	6.88	285.40	3,193.56	30.89	-112.14	-26.45	0.00	0.00	0.00
3,300.00	6.88	285.40	3,292.84	34.07	-123.69	-29.18	0.00	0.00	0.00
3,400.00	6.88	285.40	3,392.12	37.25	-135.24	-31.90	0.00	0.00	0.00
3,500.00	6.88	285.40	3,491.40	40.43	-146.79	-34.63	0.00	0.00	0.00
3,600.00	6.88	285.40	3,590.68	43.61	-158.34	-37.35	0.00	0.00	0.00
3,700.00	6.88	285.40	3,689.96	46.79	-169.88	-40.08	0.00	0.00	0.00
3,800.00	6.88	285.40	3,789.24	49.97	-181.43	-42.80	0.00	0.00	0.00
3,900.00	6.88	285.40	3,888.52	53.16	-192.98	-45.52	0.00	0.00	0.00
4,000.00	6.88	285.40	3,987.80	56.34	-204.53	-48.25	0.00	0.00	0.00
4,100.00	6.88	285.40	4,087.08	59.52	-216.08	-50.97	0.00	0.00	0.00
4,200.00	6.88	285.40	4,186.36	62.70	-227.63	-53.70	0.00	0.00	0.00
4,300.00	6.88	285.40	4,285.64	65.88	-239.18	-56.42	0.00	0.00	0.00
4,400.00	6.88	285.40	4,384.92	69.06	-250.73	-59.15	0.00	0.00	0.00
4,500.00	6.88	285.40	4,484.20	72.24	-262.28	-61.87	0.00	0.00	0.00
4,600.00	6.88	285.40	4,583.48	75.42	-273.83	-64.60	0.00	0.00	0.00
4,700.00	6.88	285.40	4,682.76	78.60	-285.38	-67.32	0.00	0.00	0.00
4,800.00	6.88	285.40	4,782.04	81.79	-296.93	-70.04	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 804H
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 804H	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)
4,900.00	6.88	285.40	4,881.32	84.97	-308.48	-72.77	0.00	0.00	0.00
5,000.00	6.88	285.40	4,980.60	88.15	-320.03	-75.49	0.00	0.00	0.00
5,100.00	6.88	285.40	5,079.88	91.33	-331.58	-78.22	0.00	0.00	0.00
5,200.00	6.88	285.40	5,179.16	94.51	-343.13	-80.94	0.00	0.00	0.00
5,300.00	6.88	285.40	5,278.44	97.69	-354.68	-83.67	0.00	0.00	0.00
5,400.00	6.88	285.40	5,377.72	100.87	-366.23	-86.39	0.00	0.00	0.00
5,500.00	6.88	285.40	5,477.00	104.05	-377.77	-89.12	0.00	0.00	0.00
5,600.00	6.88	285.40	5,576.28	107.23	-389.32	-91.84	0.00	0.00	0.00
5,700.00	6.88	285.40	5,675.56	110.42	-400.87	-94.56	0.00	0.00	0.00
5,800.00	6.88	285.40	5,774.84	113.60	-412.42	-97.29	0.00	0.00	0.00
5,900.00	6.88	285.40	5,874.12	116.78	-423.97	-100.01	0.00	0.00	0.00
6,000.00	6.88	285.40	5,973.40	119.96	-435.52	-102.74	0.00	0.00	0.00
6,100.00	6.88	285.40	6,072.68	123.14	-447.07	-105.46	0.00	0.00	0.00
6,200.00	6.88	285.40	6,171.96	126.32	-458.62	-108.19	0.00	0.00	0.00
6,300.00	6.88	285.40	6,271.24	129.50	-470.17	-110.91	0.00	0.00	0.00
6,400.00	6.88	285.40	6,370.52	132.68	-481.72	-113.64	0.00	0.00	0.00
6,500.00	6.88	285.40	6,469.80	135.87	-493.27	-116.36	0.00	0.00	0.00
6,600.00	6.88	285.40	6,569.08	139.05	-504.82	-119.09	0.00	0.00	0.00
6,700.00	6.88	285.40	6,668.36	142.23	-516.37	-121.81	0.00	0.00	0.00
6,800.00	6.88	285.40	6,767.64	145.41	-527.92	-124.53	0.00	0.00	0.00
6,900.00	6.88	285.40	6,866.91	148.59	-539.47	-127.26	0.00	0.00	0.00
6,934.75	6.88	285.40	6,901.42	149.70	-543.48	-128.21	0.00	0.00	0.00
Start Drop -1.50									
7,000.00	5.90	285.40	6,966.26	151.62	-550.48	-129.86	1.50	-1.50	0.00
7,100.00	4.40	285.40	7,065.85	154.01	-559.14	-131.90	1.50	-1.50	0.00
7,200.00	2.90	285.40	7,165.65	155.70	-565.28	-133.35	1.50	-1.50	0.00
7,300.00	1.40	285.40	7,265.57	156.70	-568.90	-134.20	1.50	-1.50	0.00
7,393.44	0.00	0.00	7,359.00	157.00	-570.00	-134.46	1.50	-1.50	0.00
Start 4467.04 hold at 7393.44 MD									
7,400.00	0.00	0.00	7,365.56	157.00	-570.00	-134.46	0.00	0.00	0.00
7,500.00	0.00	0.00	7,465.56	157.00	-570.00	-134.46	0.00	0.00	0.00
7,600.00	0.00	0.00	7,565.56	157.00	-570.00	-134.46	0.00	0.00	0.00
7,700.00	0.00	0.00	7,665.56	157.00	-570.00	-134.46	0.00	0.00	0.00
7,800.00	0.00	0.00	7,765.56	157.00	-570.00	-134.46	0.00	0.00	0.00
7,900.00	0.00	0.00	7,865.56	157.00	-570.00	-134.46	0.00	0.00	0.00
8,000.00	0.00	0.00	7,965.56	157.00	-570.00	-134.46	0.00	0.00	0.00
8,100.00	0.00	0.00	8,065.56	157.00	-570.00	-134.46	0.00	0.00	0.00
8,200.00	0.00	0.00	8,165.56	157.00	-570.00	-134.46	0.00	0.00	0.00
8,300.00	0.00	0.00	8,265.56	157.00	-570.00	-134.46	0.00	0.00	0.00
8,400.00	0.00	0.00	8,365.56	157.00	-570.00	-134.46	0.00	0.00	0.00
8,500.00	0.00	0.00	8,465.56	157.00	-570.00	-134.46	0.00	0.00	0.00
8,600.00	0.00	0.00	8,565.56	157.00	-570.00	-134.46	0.00	0.00	0.00
8,700.00	0.00	0.00	8,665.56	157.00	-570.00	-134.46	0.00	0.00	0.00
8,800.00	0.00	0.00	8,765.56	157.00	-570.00	-134.46	0.00	0.00	0.00
8,900.00	0.00	0.00	8,865.56	157.00	-570.00	-134.46	0.00	0.00	0.00
9,000.00	0.00	0.00	8,965.56	157.00	-570.00	-134.46	0.00	0.00	0.00
9,100.00	0.00	0.00	9,065.56	157.00	-570.00	-134.46	0.00	0.00	0.00
9,200.00	0.00	0.00	9,165.56	157.00	-570.00	-134.46	0.00	0.00	0.00
9,300.00	0.00	0.00	9,265.56	157.00	-570.00	-134.46	0.00	0.00	0.00
9,400.00	0.00	0.00	9,365.56	157.00	-570.00	-134.46	0.00	0.00	0.00
9,500.00	0.00	0.00	9,465.56	157.00	-570.00	-134.46	0.00	0.00	0.00
9,600.00	0.00	0.00	9,565.56	157.00	-570.00	-134.46	0.00	0.00	0.00
9,700.00	0.00	0.00	9,665.56	157.00	-570.00	-134.46	0.00	0.00	0.00
9,800.00	0.00	0.00	9,765.56	157.00	-570.00	-134.46	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 804H
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 804H	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)
9,900.00	0.00	0.00	9,865.56	157.00	-570.00	-134.46	0.00	0.00	0.00
10,000.00	0.00	0.00	9,965.56	157.00	-570.00	-134.46	0.00	0.00	0.00
10,100.00	0.00	0.00	10,065.56	157.00	-570.00	-134.46	0.00	0.00	0.00
10,200.00	0.00	0.00	10,165.56	157.00	-570.00	-134.46	0.00	0.00	0.00
10,300.00	0.00	0.00	10,265.56	157.00	-570.00	-134.46	0.00	0.00	0.00
10,400.00	0.00	0.00	10,365.56	157.00	-570.00	-134.46	0.00	0.00	0.00
10,500.00	0.00	0.00	10,465.56	157.00	-570.00	-134.46	0.00	0.00	0.00
10,600.00	0.00	0.00	10,565.56	157.00	-570.00	-134.46	0.00	0.00	0.00
10,700.00	0.00	0.00	10,665.56	157.00	-570.00	-134.46	0.00	0.00	0.00
10,800.00	0.00	0.00	10,765.56	157.00	-570.00	-134.46	0.00	0.00	0.00
10,900.00	0.00	0.00	10,865.56	157.00	-570.00	-134.46	0.00	0.00	0.00
11,000.00	0.00	0.00	10,965.56	157.00	-570.00	-134.46	0.00	0.00	0.00
11,100.00	0.00	0.00	11,065.56	157.00	-570.00	-134.46	0.00	0.00	0.00
11,200.00	0.00	0.00	11,165.56	157.00	-570.00	-134.46	0.00	0.00	0.00
11,300.00	0.00	0.00	11,265.56	157.00	-570.00	-134.46	0.00	0.00	0.00
11,400.00	0.00	0.00	11,365.56	157.00	-570.00	-134.46	0.00	0.00	0.00
11,500.00	0.00	0.00	11,465.56	157.00	-570.00	-134.46	0.00	0.00	0.00
11,600.00	0.00	0.00	11,565.56	157.00	-570.00	-134.46	0.00	0.00	0.00
11,700.00	0.00	0.00	11,665.56	157.00	-570.00	-134.46	0.00	0.00	0.00
11,800.00	0.00	0.00	11,765.56	157.00	-570.00	-134.46	0.00	0.00	0.00
11,860.48	0.00	0.00	11,826.04	157.00	-570.00	-134.46	0.00	0.00	0.00
Start DLS 10.00 TFO 179.43									
11,900.00	3.95	179.43	11,865.53	155.64	-569.99	-133.10	10.00	10.00	0.00
11,950.00	8.95	179.43	11,915.20	150.02	-569.93	-127.49	10.00	10.00	0.00
12,000.00	13.95	179.43	11,964.19	140.10	-569.83	-117.58	10.00	10.00	0.00
12,050.00	18.95	179.43	12,012.13	125.94	-569.69	-103.44	10.00	10.00	0.00
12,100.00	23.95	179.43	12,058.65	107.66	-569.51	-85.18	10.00	10.00	0.00
12,150.00	28.95	179.43	12,103.40	85.40	-569.29	-62.94	10.00	10.00	0.00
12,200.00	33.95	179.43	12,146.04	59.32	-569.03	-36.89	10.00	10.00	0.00
12,250.00	38.95	179.43	12,186.24	29.62	-568.73	-7.23	10.00	10.00	0.00
12,300.00	43.95	179.43	12,223.71	-3.47	-568.40	25.82	10.00	10.00	0.00
12,350.00	48.95	179.43	12,258.14	-39.69	-568.04	62.00	10.00	10.00	0.00
12,400.00	53.95	179.43	12,289.29	-78.78	-567.66	101.05	10.00	10.00	0.00
12,450.00	58.95	179.43	12,316.92	-120.44	-567.24	142.66	10.00	10.00	0.00
12,500.00	63.95	179.43	12,340.80	-164.34	-566.80	186.51	10.00	10.00	0.00
12,550.00	68.95	179.43	12,360.77	-210.16	-566.35	232.28	10.00	10.00	0.00
12,600.00	73.95	179.43	12,376.67	-257.55	-565.88	279.61	10.00	10.00	0.00
12,650.00	78.95	179.43	12,388.38	-306.14	-565.39	328.14	10.00	10.00	0.00
12,700.00	83.95	179.43	12,395.81	-355.57	-564.90	377.51	10.00	10.00	0.00
12,750.00	88.95	179.43	12,398.90	-405.45	-564.41	427.34	10.00	10.00	0.00
12,760.48	90.00	179.43	12,399.00	-415.93	-564.30	437.80	10.00	10.00	0.00
Start 11113.91 hold at 12760.48 MD - LP (PF Fed Com 804H)									
12,800.00	90.00	179.43	12,399.00	-455.45	-563.91	477.28	0.00	0.00	0.00
12,900.00	90.00	179.43	12,399.00	-555.45	-562.91	577.15	0.00	0.00	0.00
13,000.00	90.00	179.43	12,399.00	-655.44	-561.92	677.03	0.00	0.00	0.00
13,100.00	90.00	179.43	12,399.00	-755.44	-560.93	776.91	0.00	0.00	0.00
13,200.00	90.00	179.43	12,399.00	-855.43	-559.93	876.79	0.00	0.00	0.00
13,300.00	90.00	179.43	12,399.00	-955.43	-558.94	976.67	0.00	0.00	0.00
13,400.00	90.00	179.43	12,399.00	-1,055.42	-557.94	1,076.55	0.00	0.00	0.00
13,500.00	90.00	179.43	12,399.00	-1,155.42	-556.95	1,176.43	0.00	0.00	0.00
13,600.00	90.00	179.43	12,399.00	-1,255.41	-555.95	1,276.30	0.00	0.00	0.00
13,700.00	90.00	179.43	12,399.00	-1,355.41	-554.96	1,376.18	0.00	0.00	0.00
13,800.00	90.00	179.43	12,399.00	-1,455.40	-553.96	1,476.06	0.00	0.00	0.00
13,900.00	90.00	179.43	12,399.00	-1,555.40	-552.97	1,575.94	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 804H
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 804H	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)
14,000.00	90.00	179.43	12,399.00	-1,655.39	-551.98	1,675.82	0.00	0.00	0.00
14,100.00	90.00	179.43	12,399.00	-1,755.39	-550.98	1,775.70	0.00	0.00	0.00
14,200.00	90.00	179.43	12,399.00	-1,855.38	-549.99	1,875.58	0.00	0.00	0.00
14,300.00	90.00	179.43	12,399.00	-1,955.38	-548.99	1,975.45	0.00	0.00	0.00
14,400.00	90.00	179.43	12,399.00	-2,055.37	-548.00	2,075.33	0.00	0.00	0.00
14,500.00	90.00	179.43	12,399.00	-2,155.37	-547.00	2,175.21	0.00	0.00	0.00
14,600.00	90.00	179.43	12,399.00	-2,255.36	-546.01	2,275.09	0.00	0.00	0.00
14,700.00	90.00	179.43	12,399.00	-2,355.36	-545.01	2,374.97	0.00	0.00	0.00
14,800.00	90.00	179.43	12,399.00	-2,455.35	-544.02	2,474.85	0.00	0.00	0.00
14,900.00	90.00	179.43	12,399.00	-2,555.35	-543.03	2,574.73	0.00	0.00	0.00
15,000.00	90.00	179.43	12,399.00	-2,655.34	-542.03	2,674.60	0.00	0.00	0.00
15,100.00	90.00	179.43	12,399.00	-2,755.34	-541.04	2,774.48	0.00	0.00	0.00
15,200.00	90.00	179.43	12,399.00	-2,855.33	-540.04	2,874.36	0.00	0.00	0.00
15,300.00	90.00	179.43	12,399.00	-2,955.33	-539.05	2,974.24	0.00	0.00	0.00
15,400.00	90.00	179.43	12,399.00	-3,055.32	-538.05	3,074.12	0.00	0.00	0.00
15,500.00	90.00	179.43	12,399.00	-3,155.32	-537.06	3,174.00	0.00	0.00	0.00
15,600.00	90.00	179.43	12,399.00	-3,255.31	-536.06	3,273.88	0.00	0.00	0.00
15,700.00	90.00	179.43	12,399.00	-3,355.31	-535.07	3,373.75	0.00	0.00	0.00
15,800.00	90.00	179.43	12,399.00	-3,455.30	-534.08	3,473.63	0.00	0.00	0.00
15,900.00	90.00	179.43	12,399.00	-3,555.30	-533.08	3,573.51	0.00	0.00	0.00
16,000.00	90.00	179.43	12,399.00	-3,655.29	-532.09	3,673.39	0.00	0.00	0.00
16,100.00	90.00	179.43	12,399.00	-3,755.29	-531.09	3,773.27	0.00	0.00	0.00
16,200.00	90.00	179.43	12,399.00	-3,855.28	-530.10	3,873.15	0.00	0.00	0.00
16,300.00	90.00	179.43	12,399.00	-3,955.28	-529.10	3,973.03	0.00	0.00	0.00
16,400.00	90.00	179.43	12,399.00	-4,055.27	-528.11	4,072.90	0.00	0.00	0.00
16,500.00	90.00	179.43	12,399.00	-4,155.27	-527.11	4,172.78	0.00	0.00	0.00
16,600.00	90.00	179.43	12,399.00	-4,255.26	-526.12	4,272.66	0.00	0.00	0.00
16,700.00	90.00	179.43	12,399.00	-4,355.26	-525.12	4,372.54	0.00	0.00	0.00
16,800.00	90.00	179.43	12,399.00	-4,455.25	-524.13	4,472.42	0.00	0.00	0.00
16,900.00	90.00	179.43	12,399.00	-4,555.25	-523.14	4,572.30	0.00	0.00	0.00
17,000.00	90.00	179.43	12,399.00	-4,655.24	-522.14	4,672.18	0.00	0.00	0.00
17,100.00	90.00	179.43	12,399.00	-4,755.24	-521.15	4,772.05	0.00	0.00	0.00
17,200.00	90.00	179.43	12,399.00	-4,855.23	-520.15	4,871.93	0.00	0.00	0.00
17,300.00	90.00	179.43	12,399.00	-4,955.23	-519.16	4,971.81	0.00	0.00	0.00
17,400.00	90.00	179.43	12,399.00	-5,055.22	-518.16	5,071.69	0.00	0.00	0.00
17,500.00	90.00	179.43	12,399.00	-5,155.22	-517.17	5,171.57	0.00	0.00	0.00
17,600.00	90.00	179.43	12,399.00	-5,255.21	-516.17	5,271.45	0.00	0.00	0.00
17,700.00	90.00	179.43	12,399.00	-5,355.21	-515.18	5,371.33	0.00	0.00	0.00
17,800.00	90.00	179.43	12,399.00	-5,455.20	-514.19	5,471.20	0.00	0.00	0.00
17,900.00	90.00	179.43	12,399.00	-5,555.20	-513.19	5,571.08	0.00	0.00	0.00
18,000.00	90.00	179.43	12,399.00	-5,655.19	-512.20	5,670.96	0.00	0.00	0.00
18,100.00	90.00	179.43	12,399.00	-5,755.19	-511.20	5,770.84	0.00	0.00	0.00
18,200.00	90.00	179.43	12,399.00	-5,855.18	-510.21	5,870.72	0.00	0.00	0.00
18,300.00	90.00	179.43	12,399.00	-5,955.18	-509.21	5,970.60	0.00	0.00	0.00
18,400.00	90.00	179.43	12,399.00	-6,055.17	-508.22	6,070.48	0.00	0.00	0.00
18,500.00	90.00	179.43	12,399.00	-6,155.17	-507.22	6,170.35	0.00	0.00	0.00
18,600.00	90.00	179.43	12,399.00	-6,255.16	-506.23	6,270.23	0.00	0.00	0.00
18,700.00	90.00	179.43	12,399.00	-6,355.16	-505.24	6,370.11	0.00	0.00	0.00
18,800.00	90.00	179.43	12,399.00	-6,455.15	-504.24	6,469.99	0.00	0.00	0.00
18,900.00	90.00	179.43	12,399.00	-6,555.15	-503.25	6,569.87	0.00	0.00	0.00
19,000.00	90.00	179.43	12,399.00	-6,655.14	-502.25	6,669.75	0.00	0.00	0.00
19,100.00	90.00	179.43	12,399.00	-6,755.14	-501.26	6,769.63	0.00	0.00	0.00
19,200.00	90.00	179.43	12,399.00	-6,855.13	-500.26	6,869.51	0.00	0.00	0.00
19,300.00	90.00	179.43	12,399.00	-6,955.13	-499.27	6,969.38	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 804H
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 804H	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)	
19,400.00	90.00	179.43	12,399.00	-7,055.12	-498.27	7,069.26	0.00	0.00	0.00	
19,500.00	90.00	179.43	12,399.00	-7,155.12	-497.28	7,169.14	0.00	0.00	0.00	
19,600.00	90.00	179.43	12,399.00	-7,255.11	-496.29	7,269.02	0.00	0.00	0.00	
19,700.00	90.00	179.43	12,399.00	-7,355.11	-495.29	7,368.90	0.00	0.00	0.00	
19,800.00	90.00	179.43	12,399.00	-7,455.10	-494.30	7,468.78	0.00	0.00	0.00	
19,900.00	90.00	179.43	12,399.00	-7,555.10	-493.30	7,568.66	0.00	0.00	0.00	
20,000.00	90.00	179.43	12,399.00	-7,655.09	-492.31	7,668.53	0.00	0.00	0.00	
20,100.00	90.00	179.43	12,399.00	-7,755.09	-491.31	7,768.41	0.00	0.00	0.00	
20,200.00	90.00	179.43	12,399.00	-7,855.08	-490.32	7,868.29	0.00	0.00	0.00	
20,300.00	90.00	179.43	12,399.00	-7,955.08	-489.32	7,968.17	0.00	0.00	0.00	
20,400.00	90.00	179.43	12,399.00	-8,055.07	-488.33	8,068.05	0.00	0.00	0.00	
20,500.00	90.00	179.43	12,399.00	-8,155.07	-487.33	8,167.93	0.00	0.00	0.00	
20,600.00	90.00	179.43	12,399.00	-8,255.06	-486.34	8,267.81	0.00	0.00	0.00	
20,700.00	90.00	179.43	12,399.00	-8,355.06	-485.35	8,367.68	0.00	0.00	0.00	
20,800.00	90.00	179.43	12,399.00	-8,455.05	-484.35	8,467.56	0.00	0.00	0.00	
20,900.00	90.00	179.43	12,399.00	-8,555.05	-483.36	8,567.44	0.00	0.00	0.00	
21,000.00	90.00	179.43	12,399.00	-8,655.05	-482.36	8,667.32	0.00	0.00	0.00	
21,100.00	90.00	179.43	12,399.00	-8,755.04	-481.37	8,767.20	0.00	0.00	0.00	
21,200.00	90.00	179.43	12,399.00	-8,855.04	-480.37	8,867.08	0.00	0.00	0.00	
21,300.00	90.00	179.43	12,399.00	-8,955.03	-479.38	8,966.96	0.00	0.00	0.00	
21,400.00	90.00	179.43	12,399.00	-9,055.03	-478.38	9,066.83	0.00	0.00	0.00	
21,500.00	90.00	179.43	12,399.00	-9,155.02	-477.39	9,166.71	0.00	0.00	0.00	
21,600.00	90.00	179.43	12,399.00	-9,255.02	-476.40	9,266.59	0.00	0.00	0.00	
21,700.00	90.00	179.43	12,399.00	-9,355.01	-475.40	9,366.47	0.00	0.00	0.00	
21,800.00	90.00	179.43	12,399.00	-9,455.01	-474.41	9,466.35	0.00	0.00	0.00	
21,900.00	90.00	179.43	12,399.00	-9,555.00	-473.41	9,566.23	0.00	0.00	0.00	
22,000.00	90.00	179.43	12,399.00	-9,655.00	-472.42	9,666.11	0.00	0.00	0.00	
22,100.00	90.00	179.43	12,399.00	-9,754.99	-471.42	9,765.98	0.00	0.00	0.00	
22,200.00	90.00	179.43	12,399.00	-9,854.99	-470.43	9,865.86	0.00	0.00	0.00	
22,300.00	90.00	179.43	12,399.00	-9,954.98	-469.43	9,965.74	0.00	0.00	0.00	
22,400.00	90.00	179.43	12,399.00	-10,054.98	-468.44	10,065.62	0.00	0.00	0.00	
22,500.00	90.00	179.43	12,399.00	-10,154.97	-467.45	10,165.50	0.00	0.00	0.00	
22,600.00	90.00	179.43	12,399.00	-10,254.97	-466.45	10,265.38	0.00	0.00	0.00	
22,700.00	90.00	179.43	12,399.00	-10,354.96	-465.46	10,365.26	0.00	0.00	0.00	
22,800.00	90.00	179.43	12,399.00	-10,454.96	-464.46	10,465.13	0.00	0.00	0.00	
22,900.00	90.00	179.43	12,399.00	-10,554.95	-463.47	10,565.01	0.00	0.00	0.00	
23,000.00	90.00	179.43	12,399.00	-10,654.95	-462.47	10,664.89	0.00	0.00	0.00	
23,100.00	90.00	179.43	12,399.00	-10,754.94	-461.48	10,764.77	0.00	0.00	0.00	
23,200.00	90.00	179.43	12,399.00	-10,854.94	-460.48	10,864.65	0.00	0.00	0.00	
23,300.00	90.00	179.43	12,399.00	-10,954.93	-459.49	10,964.53	0.00	0.00	0.00	
23,400.00	90.00	179.43	12,399.00	-11,054.93	-458.50	11,064.41	0.00	0.00	0.00	
23,500.00	90.00	179.43	12,399.00	-11,154.92	-457.50	11,164.28	0.00	0.00	0.00	
23,600.00	90.00	179.43	12,399.00	-11,254.92	-456.51	11,264.16	0.00	0.00	0.00	
23,700.00	90.00	179.43	12,399.00	-11,354.91	-455.51	11,364.04	0.00	0.00	0.00	
23,800.00	90.00	179.43	12,399.00	-11,454.91	-454.52	11,463.92	0.00	0.00	0.00	
23,874.38	90.00	179.43	12,399.00	-11,529.29	-453.78	11,538.21	0.00	0.00	0.00	
TD at 23874.38 - PBHL (PF Fed Com 804H)										



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Paul Foster Fed Com 804H
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 804H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
SHL (PF Fed Com 804H - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	393,960.79	856,338.64	32.078996	-103.316312
LP (PF Fed Com 804H) - plan hits target center - Point	0.00	0.00	12,399.00	-415.93	-564.30	393,544.86	855,774.34	32.077867	-103.318147
PBHL (PF Fed Com 804 - plan hits target center - Point	0.00	0.00	12,399.00	-11,529.29	-453.78	382,431.50	855,884.86	32.047319	-103.318127

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	Comment	
2,000.00	2,000.00	0.00	0.00	Start Build 1.50	
2,458.69	2,457.58	7.30	-26.52	Start 4476.06 hold at 2458.69 MD	
6,934.75	6,901.42	149.70	-543.48	Start Drop -1.50	
7,393.44	7,359.00	157.00	-570.00	Start 4467.04 hold at 7393.44 MD	
11,860.48	11,826.04	157.00	-570.00	Start DLS 10.00 TFO 179.43	
12,760.48	12,399.00	-415.93	-564.30	Start 11113.91 hold at 12760.48 MD	
23,874.38	12,399.00	-11,529.29	-453.78	TD at 23874.38	



Franklin Mountain Energy

Lea County, NM (NAD83)
PF Fed Com
Paul Foster Fed Com 804H

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 804H
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 804H	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	7/17/2021
From (usft)	To (usft)	Survey (Wellbore)
0.00	23,874.38	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	7,172.09	7,107.14	1,411.32	1,377.96	42.314	CC
Bus Driver Fed Com 602H - OH - OH	11,535.31	11,565.00	1,417.15	1,362.35	25.859	ES
Bus Driver Fed Com 602H - OH - OH	17,400.00	16,643.00	1,526.13	1,395.48	11.681	SF
Bus Driver Fed Com 602H - OH - Plan #6	7,172.09	7,107.14	1,411.32	1,377.96	42.314	CC
Bus Driver Fed Com 602H - OH - Plan #6	23,874.38	23,302.33	1,449.45	1,168.24	5.154	ES, SF
Bus Driver Fed Com 702H - OH - OH	3,786.86	3,594.00	1,794.10	1,778.01	111.517	CC, ES
Bus Driver Fed Com 702H - OH - OH	12,100.00	11,985.00	1,917.78	1,860.27	33.348	SF
Bus Driver Fed Com 702H - OH - Plan #5	4,555.63	4,367.43	1,802.51	1,782.59	90.489	CC
Bus Driver Fed Com 702H - OH - Plan #5	23,874.38	23,546.50	1,919.81	1,640.13	6.864	ES, SF
Kaston Fed Com 603H - OH - OH	8,414.16	8,489.45	307.77	267.45	7.633	CC
Kaston Fed Com 603H - OH - OH	23,874.38	23,350.00	377.97	136.87	1.568	ES, SF
Kaston Fed Com 703H - OH - OH	7,312.06	7,314.68	899.48	865.11	26.171	CC
Kaston Fed Com 703H - OH - OH	11,721.08	11,753.79	913.30	857.45	16.352	ES
Kaston Fed Com 703H - OH - OH	11,860.48	11,841.04	917.95	861.46	16.249	SF
Kaston Fed Com 703H - OH - Plan #9	7,312.08	7,314.68	899.36	864.93	26.117	CC
Kaston Fed Com 703H - OH - Plan #9	23,874.38	23,504.65	993.63	732.13	3.800	ES, SF
Judge Baylor Fed Com						
Judge Baylor Fed Com 601H - OH - Plan #5	7,262.96	7,173.35	3,232.19	3,196.06	89.464	CC
Judge Baylor Fed Com 601H - OH - Plan #5	22,600.00	22,101.01	3,277.03	3,026.40	13.075	ES
Judge Baylor Fed Com 601H - OH - Plan #5	22,800.00	22,101.01	3,285.71	3,033.08	13.006	SF
Judge Baylor Fed Com 701H - OH - Plan #5	11,608.00	11,624.04	2,933.29	2,875.48	50.738	CC
Judge Baylor Fed Com 701H - OH - Plan #5	22,600.00	22,390.61	2,947.24	2,695.42	11.704	ES
Judge Baylor Fed Com 701H - OH - Plan #5	22,800.00	22,390.61	2,956.95	2,703.46	11.665	SF
LHS Wildcat Fed Com						
LHS Wildcat Fed Com 604H - OH - OH	2,130.14	2,145.31	690.33	681.24	76.001	CC, ES
LHS Wildcat Fed Com 604H - OH - OH	22,600.00	21,836.13	1,081.31	841.43	4.508	SF
LHS Wildcat Fed Com 705H - OH - OH	1,589.60	1,591.19	742.53	735.33	103.123	CC
LHS Wildcat Fed Com 705H - OH - OH	1,600.00	1,599.56	742.54	735.31	102.673	ES
LHS Wildcat Fed Com 705H - OH - OH	22,800.00	22,230.00	1,370.63	1,116.29	5.389	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 804H
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 804H	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	75.96	66.15	7.744	CC
Paul Foster Fed Com 103H - OH - Plan #1	2,300.00	2,300.24	76.82	65.53	6.803	ES
Paul Foster Fed Com 103H - OH - Plan #1	8,000.00	8,018.01	216.41	175.36	5.272	SF
Paul Foster Fed Com 104H - OH - Plan #1	2,000.00	2,000.00	97.63	87.82	9.953	CC, ES
Paul Foster Fed Com 104H - OH - Plan #1	2,200.00	2,198.63	102.63	91.82	9.501	SF
Paul Foster Fed Com 503H - OH - Plan #1	3,502.93	3,508.81	66.20	48.49	3.737	CC
Paul Foster Fed Com 503H - OH - Plan #1	3,600.00	3,605.72	66.42	48.17	3.640	ES
Paul Foster Fed Com 503H - OH - Plan #1	3,900.00	3,905.25	69.81	49.96	3.517	SF
Paul Foster Fed Com 504H - OH - Plan #1	2,000.00	2,000.00	83.80	73.99	8.542	CC, ES
Paul Foster Fed Com 504H - OH - Plan #1	2,200.00	2,199.91	87.42	76.61	8.086	SF
Paul Foster Fed Com 805H - OH - Plan #1	2,000.00	2,000.00	25.09	15.28	2.558	CC, ES
Paul Foster Fed Com 805H - OH - Plan #1	2,100.00	2,099.99	26.35	16.04	2.555	SF
Paul Foster Fed Com 806H - OH - Plan #1	2,000.00	2,000.00	49.87	40.06	5.084	CC, ES
Paul Foster Fed Com 806H - OH - Plan #1	2,100.00	2,099.99	51.13	40.82	4.958	SF
PF Fed Com 101H - OH - Plan #1	7,108.76	6,942.92	2,705.03	2,668.85	74.760	CC
PF Fed Com 101H - OH - Plan #1	8,100.00	8,112.73	2,706.31	2,664.87	65.298	ES
PF Fed Com 101H - OH - Plan #1	23,300.00	18,634.72	4,769.14	4,594.37	27.289	SF
PF Fed Com 102H - OH - Plan #1	8,009.59	8,082.54	1,507.09	1,465.96	36.644	CC
PF Fed Com 102H - OH - Plan #1	8,100.00	8,170.60	1,507.10	1,465.55	36.268	ES
PF Fed Com 102H - OH - Plan #1	23,874.38	20,078.25	4,067.19	3,910.22	25.910	SF
PF Fed Com 501H - OH - Plan #1	7,154.59	7,031.38	2,703.26	2,666.45	73.442	CC
PF Fed Com 501H - OH - Plan #1	10,200.00	10,236.49	2,703.92	2,651.99	52.062	ES
PF Fed Com 501H - OH - Plan #1	22,900.00	20,792.10	3,269.17	3,053.71	15.173	SF
PF Fed Com 502H - OH - Plan #1	10,226.31	10,324.48	1,533.09	1,481.14	29.510	CC, ES
PF Fed Com 502H - OH - Plan #1	23,874.38	22,046.30	2,432.46	2,238.17	12.520	SF
PF Fed Com 801H - OH - Plan #1	7,002.44	6,763.87	2,798.06	2,762.60	78.906	CC
PF Fed Com 801H - OH - Plan #1	22,600.00	22,715.49	2,808.96	2,564.96	11.512	ES
PF Fed Com 801H - OH - Plan #1	22,800.00	22,715.49	2,819.22	2,573.14	11.457	SF
PF Fed Com 802H - OH - Plan #1	13,160.11	13,217.18	1,885.16	1,820.71	29.253	CC
PF Fed Com 802H - OH - Plan #1	23,874.38	23,929.64	1,886.31	1,612.69	6.894	ES, SF
PF Fed Com 803H - OH - Plan #1	13,129.53	13,389.36	923.85	859.21	14.292	CC
PF Fed Com 803H - OH - Plan #1	23,874.38	24,130.17	924.99	652.79	3.398	ES, SF

Offset Design												Offset Site Error:	0.00 usft
Bus Driver/Kaston Fed Com - Bus Driver Fed Com 602H - OH - OH												Offset Well Error:	0.00 usft
Survey Program: 112-OWSG (Rev2) MWD, 1352-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
0.00	0.00	26.21	26.21	0.00	0.03	-74.06	505.30	-1,769.25	1,840.00				
100.00	100.00	125.50	125.50	0.13	0.19	-74.05	505.52	-1,769.23	1,840.04	1,839.81	0.23	7,976.659	
200.00	200.00	221.85	221.85	0.48	0.53	-74.05	505.64	-1,769.28	1,840.12	1,839.40	0.72	2,565.467	
300.00	300.00	300.99	300.98	0.84	0.81	-74.03	506.38	-1,769.77	1,840.96	1,839.79	1.17	1,573.625	
400.00	400.00	380.36	380.33	1.20	1.10	-74.00	507.76	-1,771.01	1,842.94	1,841.32	1.63	1,133.669	
500.00	500.00	480.53	480.46	1.56	1.45	-73.98	509.27	-1,773.45	1,845.70	1,843.57	2.13	866.187	
600.00	600.00	589.84	589.74	1.92	1.84	-74.00	509.20	-1,775.97	1,847.89	1,845.24	2.66	695.654	
700.00	700.00	686.03	685.87	2.28	2.18	-74.08	507.19	-1,778.41	1,849.77	1,846.62	3.15	587.689	
800.00	800.00	868.10	867.59	2.63	2.82	-74.41	496.61	-1,780.12	1,848.55	1,844.70	3.85	480.122	
900.00	900.00	941.66	940.92	2.99	3.07	-74.59	490.85	-1,780.90	1,847.37	1,843.08	4.29	430.776	
1,000.00	1,000.00	1,045.00	1,044.05	3.35	3.44	-74.79	484.34	-1,781.31	1,846.06	1,841.26	4.80	384.315	
1,100.00	1,100.00	1,148.06	1,146.94	3.71	3.81	-74.97	478.55	-1,781.85	1,845.10	1,839.78	5.32	346.863	

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 804H
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 804H	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				
1,200.00	1,200.00	1,242.74	1,241.51	4.07	4.15	-75.10	473.97	-1,781.83	1,843.85	1,838.04	5.81	317.165				
1,300.00	1,300.00	1,336.14	1,334.84	4.43	4.49	-75.21	470.57	-1,782.08	1,843.18	1,836.88	6.30	292.388				
1,397.18	1,397.18	1,425.00	1,423.68	4.78	4.68	-75.27	468.66	-1,782.43	1,843.01	1,836.33	6.68	275.697				
1,400.00	1,400.00	1,425.00	1,423.68	4.79	4.68	-75.27	468.66	-1,782.43	1,843.02	1,836.32	6.69	275.399				
1,500.00	1,500.00	1,506.83	1,505.51	5.14	4.70	-75.30	467.75	-1,783.12	1,843.57	1,836.60	6.97	264.637				
1,600.00	1,600.00	1,601.87	1,600.53	5.50	4.74	-75.29	468.29	-1,784.30	1,844.91	1,837.65	7.26	254.065				
1,700.00	1,700.00	1,699.86	1,698.50	5.86	4.80	-75.25	470.11	-1,785.30	1,846.37	1,838.79	7.58	243.681				
1,800.00	1,800.00	1,800.58	1,799.20	6.22	4.89	-75.19	472.40	-1,786.26	1,847.87	1,839.96	7.91	233.532				
1,900.00	1,900.00	1,904.04	1,902.63	6.58	5.01	-75.12	474.73	-1,787.15	1,849.28	1,841.01	8.27	223.638				
2,000.00	2,000.00	2,016.61	2,015.16	6.94	5.17	-75.05	477.30	-1,787.54	1,850.21	1,841.56	8.65	213.903				
2,100.00	2,099.99	2,123.71	2,122.23	7.29	5.34	-0.37	480.01	-1,787.26	1,849.29	1,840.26	9.03	204.696				
2,200.00	2,199.91	2,226.99	2,225.47	7.64	5.52	-0.28	482.92	-1,786.61	1,845.49	1,836.07	9.42	195.855				
2,300.00	2,299.69	2,326.75	2,325.18	7.99	5.72	-0.18	485.91	-1,785.83	1,838.98	1,829.16	9.82	187.301				
2,400.00	2,399.27	2,426.33	2,424.70	8.34	5.93	-0.08	489.14	-1,785.03	1,829.90	1,819.68	10.22	178.995				
2,458.69	2,457.58	2,492.23	2,490.56	8.55	6.07	-0.01	491.20	-1,784.43	1,823.30	1,812.83	10.47	174.071				
2,500.00	2,498.60	2,545.84	2,544.16	8.70	6.20	0.03	492.37	-1,783.71	1,818.06	1,807.40	10.66	170.523				
2,600.00	2,597.88	2,651.00	2,649.29	9.06	6.45	0.10	494.03	-1,781.77	1,804.73	1,793.64	11.09	162.761				
2,700.00	2,697.16	2,733.50	2,731.77	9.43	6.64	0.13	494.66	-1,780.73	1,791.76	1,780.27	11.49	155.951				
2,800.00	2,796.44	2,826.01	2,824.29	9.80	6.87	0.12	494.31	-1,780.63	1,779.57	1,767.66	11.91	149.467				
2,900.00	2,895.72	2,936.48	2,934.75	10.17	7.15	0.12	494.23	-1,780.27	1,767.27	1,754.91	12.36	143.038				
3,000.00	2,995.00	3,060.02	3,058.26	10.54	7.49	0.17	495.13	-1,778.12	1,753.80	1,740.97	12.83	136.676				
3,100.00	3,094.28	3,156.42	3,154.63	10.92	7.75	0.21	495.71	-1,775.69	1,739.58	1,726.30	13.27	131.049				
3,200.00	3,193.56	3,238.57	3,236.77	11.30	7.98	0.20	494.93	-1,774.78	1,726.26	1,712.57	13.70	126.018				
3,300.00	3,292.84	3,335.46	3,333.57	11.68	8.25	0.07	490.95	-1,774.90	1,713.32	1,699.17	14.15	121.119				
3,400.00	3,392.12	3,406.00	3,403.95	12.06	8.46	-0.10	486.20	-1,775.81	1,700.95	1,686.40	14.56	116.846				
3,500.00	3,491.40	3,483.25	3,480.91	12.45	8.68	-0.32	479.94	-1,778.27	1,690.05	1,675.07	14.98	112.813				
3,600.00	3,590.68	3,555.10	3,552.38	12.83	8.90	-0.56	473.79	-1,782.20	1,681.13	1,665.73	15.40	109.187				
3,700.00	3,689.96	3,637.19	3,634.02	13.22	9.15	-0.83	467.24	-1,787.76	1,673.64	1,657.81	15.83	105.715				
3,800.00	3,789.24	3,726.30	3,722.73	13.60	9.42	-1.08	461.59	-1,794.00	1,666.86	1,650.58	16.28	102.380				
3,900.00	3,888.52	3,815.27	3,811.37	13.99	9.70	-1.28	457.52	-1,800.49	1,660.82	1,644.09	16.73	99.258				
4,000.00	3,987.80	3,919.01	3,914.59	14.38	10.03	-1.57	451.28	-1,808.79	1,655.16	1,637.94	17.22	96.134				
4,100.00	4,087.08	4,031.44	4,026.09	14.77	10.40	-2.04	440.10	-1,817.85	1,648.68	1,630.96	17.73	93.009				
4,200.00	4,186.36	4,137.28	4,131.02	15.16	10.76	-2.49	429.03	-1,826.01	1,641.86	1,623.64	18.23	90.087				
4,300.00	4,285.64	4,229.88	4,223.06	15.56	11.07	-2.83	421.28	-1,832.59	1,634.99	1,616.29	18.70	87.439				
4,400.00	4,384.92	4,368.04	4,360.61	15.95	11.54	-3.26	411.52	-1,841.10	1,627.62	1,608.35	19.26	84.491				
4,500.00	4,484.20	4,485.98	4,478.28	16.34	11.94	-3.55	404.95	-1,845.55	1,618.18	1,598.39	19.79	81.785				
4,600.00	4,583.48	4,588.25	4,580.31	16.74	12.28	-3.82	398.73	-1,848.67	1,607.96	1,587.67	20.28	79.283				
4,700.00	4,682.76	4,678.28	4,669.99	17.13	12.59	-4.12	391.60	-1,852.06	1,598.12	1,577.36	20.76	76.988				
4,800.00	4,782.04	4,770.83	4,762.19	17.53	12.91	-4.43	384.53	-1,856.04	1,588.91	1,567.67	21.24	74.804				
4,900.00	4,881.32	4,867.69	4,858.67	17.92	13.25	-4.75	377.29	-1,860.38	1,579.96	1,558.23	21.73	72.696				
5,000.00	4,980.60	4,961.38	4,951.97	18.32	13.58	-5.08	369.97	-1,864.84	1,571.27	1,549.05	22.22	70.708				
5,100.00	5,079.88	5,054.11	5,044.26	18.71	13.91	-5.42	362.34	-1,869.73	1,563.08	1,540.37	22.71	68.828				
5,200.00	5,179.16	5,150.96	5,140.66	19.11	14.26	-5.77	354.77	-1,875.09	1,555.28	1,532.07	23.21	67.016				
5,300.00	5,278.44	5,265.59	5,254.58	19.51	14.68	-6.27	343.67	-1,881.44	1,547.27	1,523.53	23.75	65.160				
5,400.00	5,377.72	5,371.78	5,359.85	19.90	15.07	-6.83	330.77	-1,886.57	1,538.27	1,514.00	24.27	63.378				
5,500.00	5,477.00	5,476.77	5,463.97	20.30	15.46	-7.38	318.12	-1,891.33	1,529.13	1,504.33	24.80	61.668				
5,600.00	5,576.28	5,578.00	5,564.43	20.70	15.84	-7.90	306.35	-1,895.28	1,519.54	1,494.23	25.31	60.028				
5,700.00	5,675.56	5,659.92	5,645.75	21.10	16.15	-8.32	297.11	-1,898.82	1,510.58	1,484.79	25.79	58.564				
5,800.00	5,774.84	5,750.57	5,735.73	21.50	16.49	-8.78	287.21	-1,903.76	1,502.84	1,476.55	26.29	57.162				
5,900.00	5,874.12	5,863.80	5,848.22	21.90	16.92	-9.32	275.81	-1,909.61	1,495.04	1,468.21	26.84	55.712				
6,000.00	5,973.40	5,969.44	5,953.33	22.30	17.31	-9.79	266.12	-1,914.09	1,486.51	1,459.14	27.36	54.328				
6,100.00	6,072.68	6,069.92	6,053.32	22.70	17.68	-10.23	257.17	-1,918.10	1,477.83	1,449.96	27.88	53.012				

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 804H
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 804H	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									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
6,200.00	6,171.96	6,167.59	6,150.57	23.10	18.04	-10.65	248.83	-1,921.77	1,469.05	1,440.67	28.39	51.749				
6,300.00	6,271.24	6,249.37	6,231.94	23.50	18.35	-11.01	241.57	-1,925.55	1,461.17	1,432.30	28.87	50.617				
6,400.00	6,370.52	6,336.12	6,318.15	23.90	18.68	-11.43	233.27	-1,930.47	1,454.38	1,425.02	29.36	49.541				
6,500.00	6,469.80	6,437.93	6,419.29	24.30	19.07	-11.94	223.33	-1,936.57	1,448.00	1,418.11	29.88	48.457				
6,600.00	6,569.08	6,540.10	6,520.78	24.70	19.46	-12.46	213.17	-1,942.49	1,441.52	1,411.11	30.41	47.404				
6,700.00	6,668.36	6,643.97	6,623.99	25.10	19.86	-12.99	202.93	-1,948.24	1,434.91	1,403.97	30.94	46.377				
6,800.00	6,767.64	6,749.14	6,728.60	25.50	20.26	-13.49	193.54	-1,953.54	1,427.94	1,396.46	31.47	45.371				
6,900.00	6,866.91	6,846.85	6,825.86	25.90	20.63	-13.93	185.52	-1,958.27	1,420.89	1,388.90	31.99	44.422				
6,934.75	6,901.42	6,879.49	6,858.37	26.04	20.75	-14.07	183.02	-1,959.90	1,418.52	1,386.36	32.16	44.106				
7,000.00	6,966.26	6,937.59	6,916.24	26.30	20.96	-14.29	178.88	-1,962.96	1,414.81	1,382.32	32.48	43.556				
7,100.00	7,065.85	7,031.36	7,009.69	26.68	21.31	-14.59	173.38	-1,968.46	1,411.88	1,378.90	32.98	42.811				
7,172.09	7,137.77	7,107.14	7,085.25	26.95	21.59	-14.80	169.57	-1,972.85	1,411.32	1,377.96	33.35	42.314	CC			
7,200.00	7,165.65	7,136.69	7,114.72	27.05	21.70	-14.87	168.13	-1,974.50	1,411.40	1,377.90	33.50	42.134				
7,300.00	7,265.57	7,241.76	7,219.51	27.41	22.08	-15.13	163.08	-1,980.09	1,413.07	1,379.06	34.01	41.547				
7,393.44	7,359.00	7,333.19	7,310.74	27.72	22.41	-89.91	159.21	-1,984.79	1,416.77	1,382.29	34.47	41.100				
7,400.00	7,365.56	7,339.38	7,316.92	27.74	22.44	-89.92	158.95	-1,985.12	1,417.11	1,382.61	34.50	41.073				
7,500.00	7,465.56	7,450.35	7,427.65	28.08	22.84	-90.10	154.58	-1,990.76	1,422.22	1,387.20	35.02	40.614				
7,600.00	7,565.56	7,568.53	7,545.67	28.41	23.26	-90.25	150.68	-1,995.39	1,426.15	1,390.61	35.54	40.125				
7,700.00	7,665.56	7,705.15	7,682.26	28.74	23.72	-90.30	149.50	-1,997.97	1,428.02	1,391.94	36.08	39.582				
7,800.00	7,765.56	7,815.87	7,792.98	29.07	24.07	-90.27	150.21	-1,998.11	1,428.12	1,391.56	36.56	39.063				
7,900.00	7,865.56	7,922.56	7,899.66	29.41	24.41	-90.26	150.45	-1,997.83	1,427.87	1,390.83	37.04	38.553				
8,000.00	7,965.56	8,032.02	8,009.12	29.74	24.76	-90.27	150.22	-1,996.89	1,427.01	1,389.49	37.52	38.035				
8,100.00	8,065.56	8,139.81	8,116.89	30.08	25.10	-90.29	149.69	-1,995.27	1,425.50	1,387.50	38.00	37.513				
8,200.00	8,165.56	8,235.75	8,212.82	30.41	25.41	-90.32	149.12	-1,993.58	1,423.75	1,385.28	38.48	37.004				
8,297.00	8,262.56	8,312.00	8,289.07	30.74	25.67	-90.34	148.67	-1,993.07	1,423.09	1,384.17	38.92	36.562				
8,300.00	8,265.56	8,312.00	8,289.07	30.75	25.67	-90.34	148.67	-1,993.07	1,423.10	1,384.16	38.93	36.552				
8,400.00	8,365.56	8,388.31	8,365.37	31.09	25.92	-90.35	148.39	-1,993.83	1,424.10	1,384.72	39.39	36.157				
8,500.00	8,465.56	8,495.62	8,472.67	31.42	26.29	-90.34	148.42	-1,995.84	1,426.00	1,386.12	39.88	35.757				
8,600.00	8,565.56	8,606.87	8,583.90	31.76	26.66	-90.33	148.72	-1,996.86	1,426.91	1,386.54	40.38	35.340				
8,700.00	8,665.56	8,707.13	8,684.16	32.10	26.99	-90.32	149.12	-1,997.44	1,427.48	1,386.63	40.86	34.939				
8,800.00	8,765.56	8,806.93	8,783.96	32.44	27.32	-90.30	149.50	-1,997.95	1,427.99	1,386.66	41.34	34.545				
8,900.00	8,865.56	8,900.97	8,877.99	32.78	27.63	-90.29	149.81	-1,998.68	1,428.77	1,386.96	41.81	34.172				
9,000.00	8,965.56	8,995.54	8,972.56	33.12	27.95	-90.27	150.17	-1,999.82	1,429.96	1,387.68	42.29	33.816				
9,100.00	9,065.56	9,093.78	9,070.79	33.45	28.28	-90.25	150.84	-2,001.24	1,431.41	1,388.65	42.77	33.470				
9,200.00	9,165.56	9,194.09	9,171.08	33.79	28.61	-90.20	151.89	-2,002.72	1,432.88	1,389.63	43.25	33.130				
9,300.00	9,265.56	9,292.77	9,269.74	34.14	28.94	-90.15	153.15	-2,004.19	1,434.37	1,390.64	43.73	32.801				
9,400.00	9,365.56	9,389.94	9,366.89	34.48	29.26	-90.10	154.48	-2,005.80	1,436.02	1,391.81	44.21	32.484				
9,500.00	9,465.56	9,486.61	9,463.53	34.82	29.59	-90.04	155.87	-2,007.61	1,437.89	1,393.20	44.68	32.178				
9,600.00	9,565.56	9,586.25	9,563.14	35.16	29.92	-89.99	157.35	-2,009.65	1,439.94	1,394.77	45.17	31.880				
9,700.00	9,665.56	9,686.68	9,663.54	35.50	30.26	-89.93	158.64	-2,011.61	1,441.89	1,396.24	45.65	31.584				
9,800.00	9,765.56	9,779.47	9,756.30	35.84	30.57	-89.89	159.71	-2,013.60	1,444.04	1,397.92	46.13	31.306				
9,900.00	9,865.56	9,946.77	9,923.57	36.19	31.13	-89.87	160.16	-2,014.66	1,445.01	1,398.31	46.69	30.947				
10,000.00	9,965.56	10,061.03	10,037.78	36.53	31.50	-89.91	159.14	-2,011.32	1,442.04	1,394.86	47.18	30.562				
10,100.00	10,065.56	10,161.19	10,137.88	36.87	31.83	-89.93	158.77	-2,008.17	1,438.90	1,391.23	47.67	30.187				
10,200.00	10,165.56	10,258.25	10,234.89	37.21	32.14	-89.93	158.73	-2,005.11	1,435.75	1,387.61	48.15	29.821				
10,300.00	10,265.56	10,345.19	10,321.80	37.56	32.42	-89.94	158.61	-2,002.82	1,433.13	1,384.51	48.62	29.476				
10,400.00	10,365.56	10,439.85	10,416.45	37.90	32.73	-89.94	158.50	-2,001.25	1,431.46	1,382.36	49.10	29.154				
10,500.00	10,465.56	10,541.05	10,517.63	38.25	33.07	-89.96	157.93	-1,999.39	1,429.62	1,380.04	49.59	28.831				
10,600.00	10,565.56	10,636.93	10,613.49	38.59	33.39	-89.99	157.13	-1,997.80	1,427.96	1,377.89	50.07	28.520				
10,700.00	10,665.56	10,730.31	10,706.87	38.94	33.70	-90.03	156.37	-1,996.59	1,426.67	1,376.12	50.55	28.223				
10,800.00	10,765.56	10,827.98	10,804.53	39.28	34.03	-90.06	155.61	-1,995.73	1,425.78	1,374.75	51.04	27.936				
10,900.00	10,865.56	10,925.90	10,902.44	39.63	34.36	-90.09	154.86	-1,994.91	1,424.95	1,373.43	51.52	27.656				

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 804H
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 804H	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				
11,000.00	10,965.56	11,028.79	11,005.32	39.97	34.71	-90.13	153.83	-1,994.12	1,424.18	1,372.16	52.02	27.378				
11,100.00	11,065.56	11,117.16	11,093.68	40.32	35.01	-90.19	152.32	-1,993.54	1,423.55	1,371.05	52.50	27.116				
11,110.48	11,076.04	11,126.02	11,102.54	40.35	35.04	-90.20	152.12	-1,993.54	1,423.55	1,371.00	52.55	27.090				
11,200.00	11,165.56	11,211.33	11,187.81	40.66	35.34	-90.29	149.79	-1,993.70	1,423.73	1,370.74	52.99	26.869				
11,300.00	11,265.56	11,365.80	11,341.00	41.01	35.91	-90.98	132.62	-1,991.25	1,422.30	1,368.74	53.56	26.555				
11,400.00	11,365.56	11,455.48	11,427.41	41.36	36.27	-91.94	109.01	-1,988.11	1,419.36	1,365.28	54.09	26.242				
11,500.00	11,465.56	11,543.45	11,508.36	41.70	36.64	-93.32	74.94	-1,984.93	1,417.41	1,362.78	54.63	25.946				
11,535.31	11,500.87	11,565.00	11,527.37	41.82	36.73	-93.73	64.82	-1,984.15	1,417.15	1,362.35	54.80	25.859	ES			
11,600.00	11,565.56	11,612.00	11,567.79	42.05	36.94	-94.70	40.89	-1,982.85	1,417.82	1,362.69	55.14	25.715				
11,700.00	11,665.56	11,644.76	11,595.02	42.40	37.10	-95.43	22.68	-1,982.56	1,422.25	1,366.75	55.50	25.627				
11,800.00	11,765.56	11,715.95	11,651.08	42.74	37.44	-97.19	-21.13	-1,982.68	1,430.82	1,374.88	55.94	25.576				
11,860.48	11,826.04	11,753.00	11,678.22	42.95	37.63	-98.19	-46.35	-1,982.32	1,437.50	1,381.32	56.17	25.592				
11,900.00	11,865.53	11,766.83	11,687.90	43.08	37.70	81.50	-56.23	-1,982.18	1,442.52	1,386.26	56.25	25.644				
11,950.00	11,915.20	11,786.77	11,701.39	43.24	37.81	80.30	-70.91	-1,982.05	1,449.36	1,393.02	56.34	25.727				
12,000.00	11,964.19	11,801.00	11,710.68	43.39	37.88	79.23	-81.69	-1,982.01	1,456.65	1,400.29	56.36	25.844				
12,050.00	12,012.13	11,820.99	11,723.07	43.53	37.99	78.01	-97.37	-1,982.06	1,464.32	1,407.92	56.40	25.961				
12,100.00	12,058.65	11,848.00	11,738.32	43.66	38.14	76.65	-119.65	-1,982.38	1,472.47	1,416.00	56.46	26.078				
12,150.00	12,103.40	11,848.00	11,738.32	43.78	38.14	75.85	-119.65	-1,982.38	1,480.61	1,424.26	56.35	26.276				
12,200.00	12,146.04	11,870.76	11,749.99	43.90	38.27	74.64	-139.19	-1,982.86	1,488.92	1,432.55	56.36	26.417				
12,250.00	12,186.24	11,895.00	11,761.43	44.00	38.40	73.46	-160.54	-1,983.58	1,497.21	1,440.83	56.38	26.557				
12,300.00	12,223.71	11,910.29	11,768.20	44.09	38.49	72.48	-174.23	-1,984.15	1,505.26	1,448.92	56.34	26.716				
12,350.00	12,258.14	11,942.00	11,781.46	44.17	38.68	71.40	-203.01	-1,985.57	1,513.03	1,456.61	56.42	26.819				
12,400.00	12,289.29	11,973.95	11,793.45	44.24	38.87	70.45	-232.59	-1,986.81	1,520.03	1,463.53	56.50	26.903				
12,450.00	12,316.92	12,016.97	11,807.06	44.30	39.13	69.51	-273.39	-1,987.43	1,525.78	1,469.12	56.66	26.930				
12,500.00	12,340.80	12,056.05	11,817.08	44.36	39.38	68.76	-311.15	-1,987.27	1,530.37	1,473.57	56.80	26.943				
12,550.00	12,360.77	12,083.00	11,822.40	44.43	39.54	68.22	-337.56	-1,986.67	1,533.82	1,476.93	56.90	26.958				
12,600.00	12,376.67	12,129.68	11,829.17	44.50	39.84	67.70	-383.71	-1,985.01	1,536.01	1,478.91	57.10	26.900				
12,650.00	12,388.38	12,165.43	11,832.61	44.59	40.07	67.41	-419.25	-1,983.41	1,537.08	1,479.80	57.28	26.835				
12,700.00	12,395.81	12,195.00	11,834.32	44.69	40.26	67.30	-448.74	-1,981.88	1,536.96	1,479.50	57.46	26.750				
12,750.00	12,398.90	12,232.06	11,835.28	44.81	40.51	67.34	-485.73	-1,979.90	1,535.68	1,477.99	57.69	26.618				
12,760.48	12,399.00	12,238.69	11,835.35	44.83	40.56	67.37	-492.35	-1,979.56	1,535.28	1,477.54	57.74	26.588				
12,800.00	12,399.00	12,263.71	11,835.29	44.94	40.73	67.36	-517.34	-1,978.32	1,533.86	1,475.93	57.94	26.475				
12,900.00	12,399.00	12,317.96	11,833.70	45.25	41.11	67.28	-571.51	-1,976.03	1,532.12	1,473.68	58.43	26.219				
12,903.85	12,399.00	12,319.80	11,833.63	45.26	41.13	67.27	-573.35	-1,975.98	1,532.11	1,473.66	58.46	26.210				
13,000.00	12,399.00	12,384.00	11,830.18	45.62	41.60	67.16	-637.45	-1,975.48	1,533.91	1,474.89	59.02	25.988				
13,100.00	12,399.00	12,430.87	11,827.72	46.05	41.97	67.10	-684.24	-1,976.55	1,538.32	1,478.69	59.62	25.800				
13,200.00	12,399.00	12,509.54	11,826.09	46.53	42.60	67.11	-762.79	-1,980.47	1,544.60	1,484.20	60.41	25.571				
13,300.00	12,399.00	12,623.48	11,826.51	47.07	43.56	67.25	-876.46	-1,988.31	1,551.82	1,490.41	61.41	25.270				
13,400.00	12,399.00	12,799.88	11,832.04	47.65	45.17	67.55	-1,052.63	-1,994.64	1,554.45	1,491.67	62.78	24.761				
13,500.00	12,399.00	12,886.76	11,834.30	48.29	46.01	67.66	-1,139.47	-1,995.92	1,555.76	1,491.95	63.81	24.381				
13,600.00	12,399.00	12,988.92	11,835.46	48.97	47.03	67.75	-1,241.59	-1,998.37	1,558.49	1,493.54	64.96	23.993				
13,700.00	12,399.00	13,127.47	11,841.52	49.70	48.48	67.99	-1,380.00	-1,999.23	1,558.06	1,491.70	66.36	23.480				
13,800.00	12,399.00	13,231.68	11,845.75	50.47	49.61	68.14	-1,484.12	-1,999.03	1,557.28	1,489.64	67.65	23.021				
13,900.00	12,399.00	13,326.15	11,848.93	51.29	50.66	68.26	-1,578.54	-1,998.60	1,556.54	1,487.60	68.93	22.581				
14,000.00	12,399.00	13,423.00	11,851.69	52.14	51.76	68.36	-1,675.35	-1,998.30	1,556.12	1,485.85	70.27	22.144				
14,100.00	12,399.00	13,572.03	11,857.17	53.03	53.51	68.53	-1,824.23	-1,995.30	1,553.64	1,481.74	71.91	21.607				
14,200.00	12,399.00	13,650.32	11,858.34	53.95	54.45	68.54	-1,902.45	-1,992.20	1,550.44	1,477.21	73.23	21.173				
14,289.40	12,399.00	13,707.00	11,857.60	54.81	55.14	68.50	-1,959.11	-1,990.83	1,549.62	1,475.25	74.36	20.839				
14,300.00	12,399.00	13,711.84	11,857.48	54.91	55.20	68.50	-1,963.95	-1,990.76	1,549.65	1,475.16	74.49	20.804				
14,400.00	12,399.00	13,862.16	11,858.26	55.90	57.06	68.51	-2,114.22	-1,988.34	1,549.13	1,472.92	76.21	20.328				
14,500.00	12,399.00	13,963.99	11,860.92	56.93	58.35	68.56	-2,215.95	-1,984.46	1,545.54	1,467.79	77.75	19.878				
14,600.00	12,399.00	14,050.16	11,862.28	57.98	59.45	68.59	-2,302.07	-1,981.88	1,543.09	1,463.83	79.25	19.470				

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 804H
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 804H	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				
14,700.00	12,399.00	14,125.21	11,863.12	59.06	60.42	68.60	-2,377.09	-1,980.20	1,541.59	1,460.86	80.73	19.097				
14,720.97	12,399.00	14,138.72	11,863.14	59.29	60.60	68.60	-2,390.60	-1,980.04	1,541.54	1,460.51	81.03	19.025				
14,800.00	12,399.00	14,194.11	11,862.69	60.16	61.32	68.59	-2,445.99	-1,979.87	1,542.24	1,460.07	82.17	18.768				
14,900.00	12,399.00	14,360.40	11,864.49	61.29	63.53	68.68	-2,612.24	-1,979.61	1,543.29	1,459.14	84.15	18.339				
15,000.00	12,399.00	14,465.00	11,868.91	62.44	64.94	68.80	-2,716.71	-1,976.75	1,540.12	1,454.24	85.89	17.932				
15,100.00	12,399.00	14,549.80	11,871.82	63.61	66.10	68.89	-2,801.44	-1,974.70	1,537.56	1,450.02	87.54	17.563				
15,200.00	12,399.00	14,656.28	11,875.00	64.81	67.57	68.98	-2,907.84	-1,972.36	1,535.36	1,446.04	89.32	17.189				
15,300.00	12,399.00	14,749.00	11,877.84	66.02	68.85	69.06	-3,000.49	-1,969.95	1,532.79	1,441.73	91.06	16.833				
15,400.00	12,399.00	14,825.38	11,879.57	67.26	69.92	69.11	-3,076.83	-1,968.55	1,531.28	1,438.56	92.72	16.515				
15,500.00	12,399.00	14,921.11	11,880.56	68.51	71.26	69.15	-3,172.55	-1,967.88	1,531.18	1,436.69	94.49	16.205				
15,600.00	12,399.00	15,027.12	11,882.22	69.77	72.76	69.21	-3,278.54	-1,967.01	1,530.79	1,434.45	96.33	15.891				
15,700.00	12,399.00	15,126.57	11,885.27	71.06	74.18	69.33	-3,377.94	-1,966.56	1,530.21	1,432.02	98.19	15.584				
15,765.65	12,399.00	15,183.83	11,886.61	71.91	75.00	69.38	-3,435.19	-1,966.33	1,530.02	1,430.66	99.37	15.398				
15,800.00	12,399.00	15,213.71	11,887.01	72.35	75.43	69.39	-3,465.07	-1,966.23	1,530.07	1,430.09	99.98	15.304				
15,900.00	12,399.00	15,295.40	11,888.44	73.67	76.61	69.46	-3,546.74	-1,966.71	1,530.94	1,429.20	101.75	15.047				
16,000.00	12,399.00	15,404.45	11,892.99	74.99	78.19	69.66	-3,655.67	-1,968.97	1,532.39	1,428.64	103.75	14.771				
16,100.00	12,399.00	15,489.12	11,897.31	76.33	79.42	69.85	-3,740.20	-1,970.92	1,533.73	1,428.11	105.62	14.522				
16,200.00	12,399.00	15,629.34	11,904.24	77.68	81.48	70.14	-3,880.23	-1,973.18	1,534.54	1,426.68	107.86	14.227				
16,300.00	12,399.00	15,732.75	11,909.68	79.04	83.01	70.34	-3,983.50	-1,972.86	1,533.40	1,423.52	109.87	13.956				
16,400.00	12,399.00	15,820.96	11,913.28	80.41	84.31	70.48	-4,071.63	-1,972.97	1,533.05	1,421.25	111.80	13.712				
16,500.00	12,399.00	15,929.38	11,918.00	81.80	85.93	70.66	-4,179.95	-1,973.13	1,532.68	1,418.82	113.86	13.461				
16,600.00	12,399.00	16,035.51	11,923.43	83.19	87.51	70.87	-4,285.94	-1,972.92	1,531.75	1,415.82	115.93	13.212				
16,700.00	12,399.00	16,153.14	11,931.04	84.59	89.28	71.14	-4,403.32	-1,972.55	1,530.30	1,412.20	118.10	12.958				
16,800.00	12,399.00	16,242.03	11,937.07	86.00	90.62	71.36	-4,492.00	-1,971.83	1,528.32	1,408.19	120.13	12.722				
16,900.00	12,399.00	16,329.42	11,941.79	87.42	91.94	71.54	-4,579.26	-1,971.62	1,527.31	1,405.17	122.14	12.505				
17,000.00	12,399.00	16,505.80	11,952.53	88.85	94.62	71.87	-4,755.17	-1,966.05	1,522.68	1,398.13	124.56	12.225				
17,100.00	12,399.00	16,572.64	11,954.69	90.28	95.64	71.92	-4,821.90	-1,962.82	1,518.06	1,391.56	126.50	12.000				
17,200.00	12,399.00	16,643.00	11,955.45	91.72	96.71	71.93	-4,892.23	-1,960.93	1,515.97	1,387.56	128.41	11.806				
17,222.66	12,399.00	16,643.00	11,955.45	92.05	96.71	71.93	-4,892.23	-1,960.93	1,515.80	1,387.04	128.75	11.773				
17,300.00	12,399.00	16,643.00	11,955.45	93.17	96.71	71.93	-4,892.23	-1,960.93	1,517.77	1,388.01	129.76	11.697				
17,400.00	12,399.00	16,643.00	11,955.45	94.63	96.71	71.93	-4,892.23	-1,960.93	1,526.13	1,395.48	130.65	11.681 SF				
17,500.00	12,399.00	16,643.00	11,955.45	96.09	96.71	71.93	-4,892.23	-1,960.93	1,540.96	1,409.88	131.08	11.756				
17,600.00	12,399.00	16,643.00	11,955.45	97.56	96.71	71.93	-4,892.23	-1,960.93	1,562.06	1,430.99	131.07	11.918				
17,700.00	12,399.00	16,643.00	11,955.45	99.03	96.71	71.93	-4,892.23	-1,960.93	1,589.18	1,458.53	130.65	12.164				
17,800.00	12,399.00	16,643.00	11,955.45	100.51	96.71	71.93	-4,892.23	-1,960.93	1,622.02	1,492.15	129.87	12.490				
17,900.00	12,399.00	16,643.00	11,955.45	102.00	96.71	71.93	-4,892.23	-1,960.93	1,660.25	1,531.46	128.79	12.892				
18,000.00	12,399.00	16,643.00	11,955.45	103.48	96.71	71.93	-4,892.23	-1,960.93	1,703.49	1,576.03	127.46	13.365				
18,100.00	12,399.00	16,643.00	11,955.45	104.98	96.71	71.93	-4,892.23	-1,960.93	1,751.39	1,625.44	125.95	13.906				
18,200.00	12,399.00	16,643.00	11,955.45	106.48	96.71	71.93	-4,892.23	-1,960.93	1,803.56	1,679.26	124.30	14.510				
18,300.00	12,399.00	16,643.00	11,955.45	107.98	96.71	71.93	-4,892.23	-1,960.93	1,859.65	1,737.09	122.56	15.174				
18,400.00	12,399.00	16,643.00	11,955.45	109.49	96.71	71.93	-4,892.23	-1,960.93	1,919.31	1,798.54	120.77	15.892				
18,500.00	12,399.00	16,643.00	11,955.45	111.00	96.71	71.93	-4,892.23	-1,960.93	1,982.23	1,863.27	118.96	16.663				
18,600.00	12,399.00	16,643.00	11,955.45	112.52	96.71	71.93	-4,892.23	-1,960.93	2,048.10	1,930.94	117.16	17.481				
18,700.00	12,399.00	16,643.00	11,955.45	114.04	96.71	71.93	-4,892.23	-1,960.93	2,116.64	2,001.25	115.39	18.344				
18,800.00	12,399.00	16,643.00	11,955.45	115.56	96.71	71.93	-4,892.23	-1,960.93	2,187.61	2,073.96	113.65	19.248				
18,900.00	12,399.00	16,643.00	11,955.45	117.09	96.71	71.93	-4,892.23	-1,960.93	2,260.77	2,148.80	111.98	20.190				
19,000.00	12,399.00	16,643.00	11,955.45	118.62	96.71	71.93	-4,892.23	-1,960.93	2,335.93	2,225.57	110.36	21.167				
19,100.00	12,399.00	16,643.00	11,955.45	120.15	96.71	71.93	-4,892.23	-1,960.93	2,412.89	2,304.09	108.80	22.177				
19,200.00	12,399.00	16,643.00	11,955.45	121.69	96.71	71.93	-4,892.23	-1,960.93	2,491.49	2,384.17	107.32	23.217				
19,300.00	12,399.00	16,643.00	11,955.45	123.22	96.71	71.93	-4,892.23	-1,960.93	2,571.57	2,465.67	105.90	24.283				
19,400.00	12,399.00	16,643.00	11,955.45	124.77	96.71	71.93	-4,892.23	-1,960.93	2,653.01	2,548.45	104.55	25.375				
19,500.00	12,399.00	16,643.00	11,955.45	126.31	96.71	71.93	-4,892.23	-1,960.93	2,735.67	2,632.40	103.27	26.490				

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 804H
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 804H	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		
19,600.00	12,399.00	16,643.00	11,955.45	127.86	96.71	71.93	-4,892.23	-1,960.93	2,819.46	2,717.41	102.05	27.627		
19,700.00	12,399.00	16,643.00	11,955.45	129.41	96.71	71.93	-4,892.23	-1,960.93	2,904.28	2,803.38	100.90	28.783		
19,800.00	12,399.00	16,643.00	11,955.45	130.96	96.71	71.93	-4,892.23	-1,960.93	2,990.03	2,890.22	99.81	29.956		
19,900.00	12,399.00	16,643.00	11,955.45	132.52	96.71	71.93	-4,892.23	-1,960.93	3,076.65	2,977.87	98.78	31.148		
20,000.00	12,399.00	16,643.00	11,955.45	134.07	96.71	71.93	-4,892.23	-1,960.93	3,164.05	3,066.25	97.80	32.352		
20,100.00	12,399.00	16,643.00	11,955.45	135.63	96.71	71.93	-4,892.23	-1,960.93	3,252.19	3,155.31	96.87	33.572		
20,200.00	12,399.00	16,643.00	11,955.45	137.20	96.71	71.93	-4,892.23	-1,960.93	3,340.98	3,244.99	96.00	34.804		
20,300.00	12,399.00	16,643.00	11,955.45	138.76	96.71	71.93	-4,892.23	-1,960.93	3,430.40	3,335.24	95.16	36.047		
20,400.00	12,399.00	16,643.00	11,955.45	140.32	96.71	71.93	-4,892.23	-1,960.93	3,520.39	3,426.01	94.38	37.300		
20,500.00	12,399.00	16,643.00	11,955.45	141.89	96.71	71.93	-4,892.23	-1,960.93	3,610.90	3,517.26	93.64	38.562		
20,600.00	12,399.00	16,643.00	11,955.45	143.46	96.71	71.93	-4,892.23	-1,960.93	3,701.90	3,608.96	92.94	39.832		
20,700.00	12,399.00	16,643.00	11,955.45	145.03	96.71	71.93	-4,892.23	-1,960.93	3,793.35	3,701.08	92.27	41.110		
20,800.00	12,399.00	16,643.00	11,955.45	146.61	96.71	71.93	-4,892.23	-1,960.93	3,885.23	3,793.59	91.64	42.397		
20,900.00	12,399.00	16,643.00	11,955.45	148.18	96.71	71.93	-4,892.23	-1,960.93	3,977.49	3,886.45	91.04	43.690		
21,000.00	12,399.00	16,643.00	11,955.45	149.76	96.71	71.93	-4,892.23	-1,960.93	4,070.12	3,979.65	90.47	44.989		
21,100.00	12,399.00	16,643.00	11,955.45	151.34	96.71	71.93	-4,892.23	-1,960.93	4,163.10	4,073.17	89.93	46.292		
21,200.00	12,399.00	16,643.00	11,955.45	152.92	96.71	71.93	-4,892.23	-1,960.93	4,256.39	4,166.97	89.42	47.599		
21,300.00	12,399.00	16,643.00	11,955.45	154.50	96.71	71.93	-4,892.23	-1,960.93	4,349.98	4,261.04	88.94	48.910		
21,400.00	12,399.00	16,643.00	11,955.45	156.08	96.71	71.93	-4,892.23	-1,960.93	4,443.85	4,355.37	88.48	50.223		
21,500.00	12,399.00	16,643.00	11,955.45	157.66	96.71	71.93	-4,892.23	-1,960.93	4,537.98	4,449.93	88.05	51.539		
21,600.00	12,399.00	16,643.00	11,955.45	159.25	96.71	71.93	-4,892.23	-1,960.93	4,632.36	4,544.72	87.63	52.861		
21,700.00	12,399.00	16,643.00	11,955.45	160.84	96.71	71.93	-4,892.23	-1,960.93	4,726.96	4,639.72	87.24	54.183		
21,800.00	12,399.00	16,643.00	11,955.45	162.42	96.71	71.93	-4,892.23	-1,960.93	4,821.79	4,734.92	86.87	55.507		
21,900.00	12,399.00	16,643.00	11,955.45	164.01	96.71	71.93	-4,892.23	-1,960.93	4,916.82	4,830.31	86.51	56.834		

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 804H
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 804H	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				
0.00	0.00	26.21	26.21	0.00	0.03	-74.06	505.30	-1,769.25	1,840.00							
100.00	100.00	125.50	125.50	0.13	0.19	-74.05	505.52	-1,769.23	1,840.04	1,839.81	0.23	7,976.659				
200.00	200.00	221.85	221.85	0.48	0.53	-74.05	505.64	-1,769.28	1,840.12	1,839.40	0.72	2,565.467				
300.00	300.00	300.99	300.98	0.84	0.81	-74.03	506.38	-1,769.77	1,840.96	1,839.79	1.17	1,573.625				
400.00	400.00	380.36	380.33	1.20	1.10	-74.00	507.76	-1,771.01	1,842.94	1,841.32	1.63	1,133.669				
500.00	500.00	480.53	480.46	1.56	1.45	-73.98	509.27	-1,773.45	1,845.70	1,843.57	2.13	866.187				
600.00	600.00	589.84	589.74	1.92	1.84	-74.00	509.20	-1,775.97	1,847.89	1,845.24	2.66	695.654				
700.00	700.00	686.03	685.87	2.28	2.18	-74.08	507.19	-1,778.41	1,849.77	1,846.62	3.15	587.689				
800.00	800.00	786.10	786.59	2.63	2.82	-74.41	496.61	-1,780.12	1,848.55	1,844.70	3.85	480.122				
900.00	900.00	841.66	840.92	2.99	3.07	-74.59	490.85	-1,780.90	1,847.37	1,843.08	4.29	430.776				
1,000.00	1,000.00	1,045.00	1,044.05	3.35	3.44	-74.79	484.34	-1,781.31	1,846.06	1,841.26	4.80	384.315				
1,100.00	1,100.00	1,148.06	1,146.94	3.71	3.81	-74.97	478.55	-1,781.85	1,845.10	1,839.78	5.32	346.863				
1,200.00	1,200.00	1,242.74	1,241.51	4.07	4.15	-75.10	473.97	-1,781.83	1,843.85	1,838.04	5.81	317.165				
1,300.00	1,300.00	1,336.14	1,334.84	4.43	4.49	-75.21	470.57	-1,782.08	1,843.18	1,836.88	6.30	292.388				
1,397.18	1,397.18	1,425.00	1,423.68	4.78	4.68	-75.27	468.66	-1,782.43	1,843.01	1,836.33	6.68	275.697				
1,400.00	1,400.00	1,425.00	1,423.68	4.79	4.68	-75.27	468.66	-1,782.43	1,843.02	1,836.32	6.69	275.399				
1,500.00	1,500.00	1,506.83	1,505.51	5.14	4.70	-75.30	467.75	-1,783.12	1,843.57	1,836.60	6.97	264.637				
1,600.00	1,600.00	1,601.87	1,600.53	5.50	4.74	-75.29	468.29	-1,784.30	1,844.91	1,837.65	7.26	254.065				
1,700.00	1,700.00	1,699.86	1,698.50	5.86	4.80	-75.25	470.11	-1,785.30	1,846.37	1,838.79	7.58	243.681				
1,800.00	1,800.00	1,800.58	1,799.20	6.22	4.89	-75.19	472.40	-1,786.26	1,847.87	1,839.96	7.91	233.532				
1,900.00	1,900.00	1,904.04	1,902.63	6.58	5.01	-75.12	474.73	-1,787.15	1,849.28	1,841.01	8.27	223.638				
2,000.00	2,000.00	2,016.61	2,015.16	6.94	5.17	-75.05	477.30	-1,787.54	1,850.21	1,841.56	8.65	213.903				
2,100.00	2,099.99	2,123.71	2,122.23	7.29	5.34	-0.37	480.01	-1,787.26	1,849.29	1,840.26	9.03	204.696				
2,200.00	2,199.91	2,226.99	2,225.47	7.64	5.52	-0.28	482.92	-1,786.61	1,845.49	1,836.07	9.42	195.855				
2,300.00	2,299.69	2,326.75	2,325.18	7.99	5.72	-0.18	485.91	-1,785.83	1,838.98	1,829.16	9.82	187.301				
2,400.00	2,399.27	2,426.33	2,424.70	8.34	5.93	-0.08	489.14	-1,785.03	1,829.90	1,819.68	10.22	178.995				
2,458.69	2,457.58	2,492.23	2,490.56	8.55	6.07	-0.01	491.20	-1,784.43	1,823.30	1,812.83	10.47	174.071				
2,500.00	2,498.60	2,545.84	2,544.16	8.70	6.20	0.03	492.37	-1,783.71	1,818.06	1,807.40	10.66	170.523				
2,600.00	2,597.88	2,651.00	2,649.29	9.06	6.45	0.10	494.03	-1,781.77	1,804.73	1,793.64	11.09	162.761				
2,700.00	2,697.16	2,733.50	2,731.77	9.43	6.64	0.13	494.66	-1,780.73	1,791.76	1,780.27	11.49	155.951				
2,800.00	2,796.44	2,826.01	2,824.29	9.80	6.87	0.12	494.31	-1,780.63	1,779.57	1,767.66	11.91	149.467				
2,900.00	2,895.72	2,936.48	2,934.75	10.17	7.15	0.12	494.23	-1,780.27	1,767.27	1,754.91	12.36	143.038				
3,000.00	2,995.00	3,060.02	3,058.26	10.54	7.49	0.17	495.13	-1,778.12	1,753.80	1,740.97	12.83	136.676				
3,100.00	3,094.28	3,156.42	3,154.63	10.92	7.75	0.21	495.71	-1,775.69	1,739.58	1,726.30	13.27	131.049				
3,200.00	3,193.56	3,238.57	3,236.77	11.30	7.98	0.20	494.93	-1,774.78	1,726.26	1,712.57	13.70	126.018				
3,300.00	3,292.84	3,335.46	3,333.57	11.68	8.25	0.07	490.95	-1,774.90	1,713.32	1,699.17	14.15	121.119				
3,400.00	3,392.12	3,406.00	3,403.95	12.06	8.46	-0.10	486.20	-1,775.81	1,700.95	1,686.40	14.56	116.846				
3,500.00	3,491.40	3,483.25	3,480.91	12.45	8.68	-0.32	479.94	-1,778.27	1,690.05	1,675.07	14.98	112.813				
3,600.00	3,590.68	3,555.10	3,552.38	12.83	8.90	-0.56	473.79	-1,782.20	1,681.13	1,665.73	15.40	109.187				
3,700.00	3,689.96	3,637.19	3,634.02	13.22	9.15	-0.83	467.24	-1,787.76	1,673.64	1,657.81	15.83	105.715				
3,800.00	3,789.24	3,726.30	3,722.73	13.60	9.42	-1.08	461.59	-1,794.00	1,666.86	1,650.58	16.28	102.380				
3,900.00	3,888.52	3,815.27	3,811.37	13.99	9.70	-1.28	457.52	-1,800.49	1,660.82	1,644.09	16.73	99.258				
4,000.00	3,987.80	3,919.01	3,914.59	14.38	10.03	-1.57	451.28	-1,808.79	1,655.16	1,637.94	17.22	96.134				
4,100.00	4,087.08	4,031.44	4,026.09	14.77	10.40	-2.04	440.10	-1,817.85	1,648.68	1,630.96	17.73	93.009				
4,200.00	4,186.36	4,137.28	4,131.02	15.16	10.76	-2.49	429.03	-1,826.01	1,641.86	1,623.64	18.23	90.087				
4,300.00	4,285.64	4,229.88	4,223.06	15.56	11.07	-2.83	421.28	-1,832.59	1,634.99	1,616.29	18.70	87.439				
4,400.00	4,384.92	4,368.04	4,360.61	15.95	11.54	-3.26	411.52	-1,841.10	1,627.62	1,608.35	19.26	84.491				
4,500.00	4,484.20	4,485.98	4,478.28	16.34	11.94	-3.55	404.95	-1,845.55	1,618.18	1,598.39	19.79	81.785				
4,600.00	4,583.48	4,588.25	4,580.31	16.74	12.28	-3.82	398.73	-1,848.67	1,607.96	1,587.67	20.28	79.283				
4,700.00	4,682.76	4,678.28	4,669.99	17.13	12.59	-4.12	391.60	-1,852.06	1,598.12	1,577.36	20.76	76.988				
4,800.00	4,782.04	4,770.83	4,762.19	17.53	12.91	-4.43	384.53	-1,856.04	1,588.91	1,567.67	21.24	74.804				
4,900.00	4,881.32	4,867.69	4,858.67	17.92	13.25	-4.75	377.29	-1,860.38	1,579.96	1,558.23	21.73	72.696				

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 804H
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 804H	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	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				
5,000.00	4,980.60	4,961.38	4,951.97	18.32	13.58	-5.08	369.97	-1,864.84	1,571.27	1,549.05	22.22	70.708				
5,100.00	5,079.88	5,054.11	5,044.26	18.71	13.91	-5.42	362.34	-1,869.73	1,563.08	1,540.37	22.71	68.828				
5,200.00	5,179.16	5,150.96	5,140.66	19.11	14.26	-5.77	354.77	-1,875.09	1,555.28	1,532.07	23.21	67.016				
5,300.00	5,278.44	5,265.59	5,254.58	19.51	14.68	-6.27	343.67	-1,881.44	1,547.27	1,523.53	23.75	65.160				
5,400.00	5,377.72	5,371.78	5,359.85	19.90	15.07	-6.83	330.77	-1,886.57	1,538.27	1,514.00	24.27	63.378				
5,500.00	5,477.00	5,476.77	5,463.97	20.30	15.46	-7.38	318.12	-1,891.33	1,529.13	1,504.33	24.80	61.668				
5,600.00	5,576.28	5,578.00	5,564.43	20.70	15.84	-7.90	306.35	-1,895.28	1,519.54	1,494.23	25.31	60.028				
5,700.00	5,675.56	5,659.92	5,645.75	21.10	16.15	-8.32	297.11	-1,898.82	1,510.58	1,484.79	25.79	58.564				
5,800.00	5,774.84	5,750.57	5,735.73	21.50	16.49	-8.78	287.21	-1,903.76	1,502.84	1,476.55	26.29	57.162				
5,900.00	5,874.12	5,863.80	5,848.22	21.90	16.92	-9.32	275.81	-1,909.61	1,495.04	1,468.21	26.84	55.712				
6,000.00	5,973.40	5,969.44	5,953.33	22.30	17.31	-9.79	266.12	-1,914.09	1,486.51	1,459.14	27.36	54.328				
6,100.00	6,072.68	6,069.92	6,053.32	22.70	17.68	-10.23	257.17	-1,918.10	1,477.83	1,449.96	27.88	53.012				
6,200.00	6,171.96	6,167.59	6,150.57	23.10	18.04	-10.65	248.83	-1,921.77	1,469.05	1,440.67	28.39	51.749				
6,300.00	6,271.24	6,249.37	6,231.94	23.50	18.35	-11.01	241.57	-1,925.55	1,461.17	1,432.30	28.87	50.617				
6,400.00	6,370.52	6,336.12	6,318.15	23.90	18.68	-11.43	233.27	-1,930.47	1,454.38	1,425.02	29.36	49.541				
6,500.00	6,469.80	6,437.93	6,419.29	24.30	19.07	-11.94	223.33	-1,936.57	1,448.00	1,418.11	29.88	48.457				
6,600.00	6,569.08	6,540.10	6,520.78	24.70	19.46	-12.46	213.17	-1,942.49	1,441.52	1,411.11	30.41	47.404				
6,700.00	6,668.36	6,643.97	6,623.99	25.10	19.86	-12.99	202.93	-1,948.24	1,434.91	1,403.97	30.94	46.377				
6,800.00	6,767.64	6,749.14	6,728.60	25.50	20.26	-13.49	193.54	-1,953.54	1,427.94	1,396.46	31.47	45.371				
6,900.00	6,866.91	6,846.85	6,825.86	25.90	20.63	-13.93	185.52	-1,958.27	1,420.89	1,388.90	31.99	44.422				
6,934.75	6,901.42	6,879.49	6,858.37	26.04	20.75	-14.07	183.02	-1,959.90	1,418.52	1,386.36	32.16	44.106				
7,000.00	6,966.26	6,937.59	6,916.24	26.30	20.96	-14.29	178.88	-1,962.96	1,414.81	1,382.32	32.48	43.556				
7,100.00	7,065.85	7,031.36	7,009.69	26.68	21.31	-14.59	173.38	-1,968.46	1,411.88	1,378.90	32.98	42.811				
7,172.09	7,137.77	7,107.14	7,085.25	26.95	21.59	-14.80	169.57	-1,972.85	1,411.32	1,377.96	33.35	42.314	CC			
7,200.00	7,165.65	7,136.69	7,114.72	27.05	21.70	-14.87	168.13	-1,974.50	1,411.40	1,377.90	33.50	42.134				
7,300.00	7,265.57	7,241.76	7,219.51	27.41	22.08	-15.13	163.08	-1,980.09	1,413.07	1,379.06	34.01	41.547				
7,393.44	7,359.00	7,333.19	7,310.74	27.72	22.41	-89.91	159.21	-1,984.79	1,416.77	1,382.29	34.47	41.100				
7,400.00	7,365.56	7,339.38	7,316.92	27.74	22.44	-89.92	158.95	-1,985.12	1,417.11	1,382.61	34.50	41.073				
7,500.00	7,465.56	7,450.35	7,427.65	28.08	22.84	-90.10	154.58	-1,990.76	1,422.22	1,387.20	35.02	40.614				
7,600.00	7,565.56	7,568.53	7,545.67	28.41	23.26	-90.25	150.68	-1,995.39	1,426.15	1,390.61	35.54	40.125				
7,700.00	7,665.56	7,705.15	7,682.26	28.74	23.72	-90.30	149.50	-1,997.97	1,428.02	1,391.94	36.08	39.582				
7,800.00	7,765.56	7,815.87	7,792.98	29.07	24.07	-90.27	150.21	-1,998.11	1,428.12	1,391.56	36.56	39.063				
7,900.00	7,865.56	7,922.56	7,899.66	29.41	24.41	-90.26	150.45	-1,997.83	1,427.87	1,390.83	37.04	38.553				
8,000.00	7,965.56	8,032.02	8,009.12	29.74	24.76	-90.27	150.22	-1,996.89	1,427.01	1,389.49	37.52	38.035				
8,100.00	8,065.56	8,139.81	8,116.89	30.08	25.10	-90.29	149.69	-1,995.27	1,425.50	1,387.50	38.00	37.513				
8,200.00	8,165.56	8,235.75	8,212.82	30.41	25.41	-90.32	149.12	-1,993.58	1,423.75	1,385.28	38.48	37.004				
8,297.00	8,262.56	8,312.00	8,289.07	30.74	25.67	-90.34	148.67	-1,993.07	1,423.09	1,384.17	38.92	36.562				
8,300.00	8,265.56	8,312.00	8,289.07	30.75	25.67	-90.34	148.67	-1,993.07	1,423.10	1,384.16	38.93	36.552				
8,400.00	8,365.56	8,388.31	8,365.37	31.09	25.92	-90.35	148.39	-1,993.83	1,424.10	1,384.72	39.39	36.157				
8,500.00	8,465.56	8,495.62	8,472.67	31.42	26.29	-90.34	148.42	-1,995.84	1,426.00	1,386.12	39.88	35.757				
8,600.00	8,565.56	8,606.87	8,583.90	31.76	26.66	-90.33	148.72	-1,996.86	1,426.91	1,386.54	40.38	35.340				
8,700.00	8,665.56	8,707.13	8,684.16	32.10	26.99	-90.32	149.12	-1,997.44	1,427.48	1,386.63	40.86	34.939				
8,800.00	8,765.56	8,806.93	8,783.96	32.44	27.32	-90.30	149.50	-1,997.95	1,427.99	1,386.66	41.34	34.545				
8,900.00	8,865.56	8,900.97	8,877.99	32.78	27.63	-90.29	149.81	-1,998.68	1,428.77	1,386.96	41.81	34.172				
9,000.00	8,965.56	8,995.54	8,972.56	33.12	27.95	-90.27	150.17	-1,999.82	1,429.96	1,387.68	42.29	33.816				
9,100.00	9,065.56	9,093.78	9,070.79	33.45	28.28	-90.25	150.84	-2,001.24	1,431.41	1,388.65	42.77	33.470				
9,200.00	9,165.56	9,194.09	9,171.08	33.79	28.61	-90.20	151.89	-2,002.72	1,432.88	1,389.63	43.25	33.130				
9,300.00	9,265.56	9,292.77	9,269.74	34.14	28.94	-90.15	153.15	-2,004.19	1,434.37	1,390.64	43.73	32.801				
9,400.00	9,365.56	9,389.94	9,366.89	34.48	29.26	-90.10	154.48	-2,005.80	1,436.02	1,391.81	44.21	32.484				
9,500.00	9,465.56	9,486.61	9,463.53	34.82	29.59	-90.04	155.87	-2,007.61	1,437.89	1,393.20	44.68	32.178				
9,600.00	9,565.56	9,586.25	9,563.14	35.16	29.92	-89.99	157.35	-2,009.65	1,439.94	1,394.77	45.17	31.880				
9,700.00	9,665.56	9,686.68	9,663.54	35.50	30.26	-89.93	158.64	-2,011.61	1,441.89	1,396.24	45.65	31.584				

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 804H
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 804H	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		
9,800.00	9,765.56	9,779.47	9,756.30	35.84	30.57	-89.89	159.71	-2,013.60	1,444.04	1,397.92	46.13	31.306		
9,900.00	9,865.56	9,946.77	9,923.57	36.19	31.13	-89.87	160.16	-2,014.66	1,445.01	1,398.31	46.69	30.947		
10,000.00	9,965.56	10,061.03	10,037.78	36.53	31.50	-89.91	159.14	-2,011.32	1,442.04	1,394.86	47.18	30.562		
10,100.00	10,065.56	10,161.19	10,137.88	36.87	31.83	-89.93	158.77	-2,008.17	1,438.90	1,391.23	47.67	30.187		
10,200.00	10,165.56	10,258.25	10,234.89	37.21	32.14	-89.93	158.73	-2,005.11	1,435.75	1,387.61	48.15	29.821		
10,300.00	10,265.56	10,345.19	10,321.80	37.56	32.42	-89.94	158.61	-2,002.82	1,433.13	1,384.51	48.62	29.476		
10,400.00	10,365.56	10,439.85	10,416.45	37.90	32.73	-89.94	158.50	-2,001.25	1,431.46	1,382.36	49.10	29.154		
10,500.00	10,465.56	10,541.05	10,517.63	38.25	33.07	-89.96	157.93	-1,999.39	1,429.62	1,380.04	49.59	28.831		
10,600.00	10,565.56	10,636.93	10,613.49	38.59	33.39	-89.99	157.13	-1,997.80	1,427.96	1,377.89	50.07	28.520		
10,700.00	10,665.56	10,730.31	10,706.87	38.94	33.70	-90.03	156.37	-1,996.59	1,426.67	1,376.12	50.55	28.223		
10,800.00	10,765.56	10,827.98	10,804.53	39.28	34.03	-90.06	155.61	-1,995.73	1,425.78	1,374.75	51.04	27.936		
10,900.00	10,865.56	10,925.90	10,902.44	39.63	34.36	-90.09	154.86	-1,994.91	1,424.95	1,373.43	51.52	27.656		
11,000.00	10,965.56	11,028.79	11,005.32	39.97	34.71	-90.13	153.83	-1,994.12	1,424.18	1,372.16	52.02	27.378		
11,100.00	11,065.56	11,117.16	11,093.68	40.32	35.01	-90.19	152.32	-1,993.54	1,423.55	1,371.05	52.50	27.116		
11,110.48	11,076.04	11,126.02	11,102.54	40.35	35.04	-90.20	152.12	-1,993.54	1,423.55	1,371.00	52.55	27.090		
11,200.00	11,165.56	11,211.33	11,187.81	40.66	35.34	-90.29	149.79	-1,993.70	1,423.73	1,370.74	52.99	26.869		
11,300.00	11,265.56	11,365.80	11,341.00	41.01	35.91	-90.98	132.62	-1,991.25	1,422.30	1,368.74	53.56	26.555		
11,400.00	11,365.56	11,455.48	11,427.41	41.36	36.27	-91.94	109.01	-1,988.11	1,419.36	1,365.28	54.09	26.242		
11,500.00	11,465.56	11,543.45	11,508.36	41.70	36.64	-93.32	74.94	-1,984.93	1,417.41	1,362.78	54.63	25.946		
11,535.31	11,500.87	11,565.00	11,527.37	41.82	36.73	-93.73	64.82	-1,984.15	1,417.15	1,362.35	54.80	25.859		
11,600.00	11,565.56	11,612.00	11,567.79	42.05	36.94	-94.70	40.89	-1,982.85	1,417.82	1,362.69	55.14	25.715		
11,700.00	11,665.56	11,644.76	11,595.02	42.40	37.10	-95.43	22.68	-1,982.56	1,422.25	1,366.75	55.50	25.627		
11,800.00	11,765.56	11,715.95	11,651.08	42.74	37.44	-97.19	-21.13	-1,982.68	1,430.82	1,374.88	55.94	25.576		
11,860.48	11,826.04	11,753.00	11,678.22	42.95	37.63	-98.19	-46.35	-1,982.32	1,437.50	1,381.32	56.17	25.592		
11,900.00	11,865.53	11,766.83	11,687.90	43.08	37.70	81.50	-56.23	-1,982.18	1,442.52	1,386.26	56.25	25.644		
11,950.00	11,915.20	11,786.77	11,701.39	43.24	37.81	80.30	-70.91	-1,982.05	1,449.36	1,393.02	56.34	25.727		
12,000.00	11,964.19	11,801.00	11,710.68	43.39	37.88	79.23	-81.69	-1,982.01	1,456.65	1,400.29	56.36	25.844		
12,050.00	12,012.13	11,820.99	11,723.07	43.53	37.99	78.01	-97.37	-1,982.06	1,464.32	1,407.92	56.40	25.961		
12,100.00	12,058.65	11,848.00	11,738.32	43.66	38.14	76.65	-119.65	-1,982.38	1,472.47	1,416.00	56.46	26.078		
12,150.00	12,103.40	11,848.00	11,738.32	43.78	38.14	75.85	-119.65	-1,982.38	1,480.61	1,424.26	56.35	26.276		
12,200.00	12,146.04	11,870.76	11,749.99	43.90	38.27	74.64	-139.19	-1,982.82	1,488.92	1,432.55	56.36	26.417		
12,250.00	12,186.24	11,895.00	11,761.43	44.00	38.40	73.46	-160.54	-1,983.58	1,497.21	1,440.83	56.38	26.557		
12,300.00	12,223.71	11,910.29	11,768.20	44.09	38.49	72.48	-174.23	-1,984.15	1,505.26	1,448.92	56.34	26.716		
12,350.00	12,258.14	11,942.00	11,781.46	44.17	38.68	71.40	-203.01	-1,985.57	1,513.03	1,456.61	56.42	26.819		
12,400.00	12,289.29	11,973.95	11,793.45	44.24	38.87	70.45	-232.59	-1,986.81	1,520.03	1,463.53	56.50	26.903		
12,450.00	12,316.92	12,016.97	11,807.06	44.30	39.13	69.51	-273.39	-1,987.43	1,525.78	1,469.12	56.66	26.930		
12,500.00	12,340.80	12,056.05	11,817.08	44.36	39.38	68.76	-311.15	-1,987.27	1,530.37	1,473.57	56.80	26.943		
12,550.00	12,360.77	12,096.77	11,824.61	44.43	39.63	68.12	-351.14	-1,986.19	1,533.76	1,476.80	56.96	26.928		
12,600.00	12,376.67	12,140.00	11,829.40	44.50	39.90	67.59	-394.03	-1,983.88	1,535.77	1,478.64	57.13	26.882		
12,650.00	12,388.38	12,173.28	11,831.72	44.59	40.12	67.30	-427.17	-1,981.80	1,536.53	1,479.24	57.29	26.821		
12,700.00	12,395.81	12,200.00	11,833.42	44.69	40.29	67.23	-453.79	-1,980.36	1,536.22	1,478.76	57.46	26.736		
12,750.00	12,398.90	12,238.72	11,835.63	44.81	40.56	67.33	-492.41	-1,978.63	1,534.74	1,477.02	57.71	26.592		
12,760.48	12,399.00	12,245.59	11,835.99	44.83	40.60	67.38	-499.27	-1,978.37	1,534.29	1,476.52	57.77	26.560		
12,800.00	12,399.00	12,271.50	11,837.26	44.94	40.78	67.42	-525.13	-1,977.50	1,532.68	1,474.70	57.98	26.437		
12,900.00	12,399.00	12,337.15	11,839.89	45.25	41.25	67.50	-590.72	-1,976.16	1,530.17	1,471.62	58.55	26.135		
12,961.81	12,399.00	12,377.77	11,841.09	45.47	41.56	67.54	-631.31	-1,975.94	1,529.74	1,470.80	58.94	25.955		
13,000.00	12,399.00	12,400.00	11,841.61	45.62	41.72	67.56	-653.54	-1,976.03	1,529.91	1,470.74	59.17	25.855		
13,100.00	12,399.00	12,468.57	11,842.57	46.05	42.26	67.62	-722.08	-1,977.17	1,531.88	1,472.01	59.88	25.583		
13,200.00	12,399.00	12,534.19	11,842.61	46.53	42.79	67.67	-787.67	-1,979.52	1,536.10	1,475.47	60.62	25.338		
13,300.00	12,399.00	12,615.50	11,841.67	47.07	43.48	67.71	-868.86	-1,983.84	1,542.31	1,480.82	61.48	25.085		
13,400.00	12,399.00	12,768.75	11,840.43	47.65	44.86	67.78	-1,021.93	-1,990.78	1,548.05	1,485.35	62.70	24.689		
13,500.00	12,399.00	12,926.02	11,842.55	48.29	46.37	67.88	-1,179.18	-1,991.16	1,548.34	1,484.32	64.02	24.186		

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 804H
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 804H	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								
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	
13,600.00	12,399.00	13,026.00	11,844.47	48.97	47.39	67.95	-1,279.14	-1,990.28	1,547.73	1,482.57	65.16	23.754		
13,700.00	12,399.00	13,125.99	11,846.38	49.70	48.43	68.02	-1,379.10	-1,989.40	1,547.12	1,480.77	66.35	23.317		
13,800.00	12,399.00	13,225.97	11,848.29	50.47	49.52	68.08	-1,479.06	-1,988.52	1,546.51	1,478.91	67.60	22.879		
13,900.00	12,399.00	13,325.95	11,850.20	51.29	50.63	68.15	-1,579.02	-1,987.64	1,545.90	1,477.01	68.89	22.440		
14,000.00	12,399.00	13,425.93	11,852.11	52.14	51.77	68.22	-1,678.98	-1,986.77	1,545.30	1,475.07	70.23	22.002		
14,100.00	12,399.00	13,525.91	11,854.03	53.03	52.93	68.29	-1,778.94	-1,985.89	1,544.70	1,473.08	71.62	21.568		
14,200.00	12,399.00	13,625.89	11,855.94	53.95	54.13	68.35	-1,878.90	-1,985.01	1,544.10	1,471.05	73.05	21.138		
14,300.00	12,399.00	13,725.88	11,857.85	54.91	55.34	68.42	-1,978.86	-1,984.13	1,543.50	1,468.99	74.51	20.714		
14,400.00	12,399.00	13,825.86	11,859.76	55.90	56.58	68.49	-2,078.81	-1,983.25	1,542.90	1,466.88	76.02	20.296		
14,500.00	12,399.00	13,925.84	11,861.67	56.93	57.84	68.56	-2,178.77	-1,982.37	1,542.31	1,464.75	77.56	19.885		
14,600.00	12,399.00	14,025.82	11,863.58	57.98	59.11	68.62	-2,278.73	-1,981.49	1,541.72	1,462.59	79.13	19.482		
14,700.00	12,399.00	14,125.80	11,865.50	59.06	60.41	68.69	-2,378.69	-1,980.61	1,541.13	1,460.39	80.74	19.088		
14,800.00	12,399.00	14,225.78	11,867.41	60.16	61.72	68.76	-2,478.65	-1,979.73	1,540.54	1,458.17	82.37	18.702		
14,900.00	12,399.00	14,325.77	11,869.32	61.29	63.05	68.83	-2,578.61	-1,978.85	1,539.96	1,455.92	84.04	18.325		
15,000.00	12,399.00	14,425.75	11,871.23	62.44	64.40	68.90	-2,678.57	-1,977.97	1,539.38	1,453.65	85.73	17.957		
15,100.00	12,399.00	14,525.73	11,873.14	63.61	65.75	68.96	-2,778.53	-1,977.09	1,538.80	1,451.36	87.44	17.599		
15,200.00	12,399.00	14,625.71	11,875.06	64.81	67.12	69.03	-2,878.49	-1,976.22	1,538.22	1,449.04	89.18	17.249		
15,300.00	12,399.00	14,725.69	11,876.97	66.02	68.51	69.10	-2,978.45	-1,975.34	1,537.64	1,446.71	90.94	16.909		
15,400.00	12,399.00	14,825.67	11,878.88	67.26	69.90	69.17	-3,078.41	-1,974.46	1,537.07	1,444.35	92.72	16.578		
15,500.00	12,399.00	14,925.66	11,880.79	68.51	71.31	69.24	-3,178.37	-1,973.58	1,536.50	1,441.98	94.52	16.256		
15,600.00	12,399.00	15,025.64	11,882.70	69.77	72.72	69.30	-3,278.33	-1,972.70	1,535.93	1,439.59	96.34	15.943		
15,700.00	12,399.00	15,125.62	11,884.61	71.06	74.15	69.37	-3,378.29	-1,971.82	1,535.36	1,437.18	98.18	15.638		
15,800.00	12,399.00	15,225.60	11,886.53	72.35	75.58	69.44	-3,478.25	-1,970.94	1,534.80	1,434.76	100.04	15.342		
15,900.00	12,399.00	15,323.75	11,888.93	73.67	77.15	69.53	-3,586.37	-1,969.99	1,534.14	1,432.18	101.96	15.047		
16,000.00	12,399.00	15,436.85	11,893.03	74.99	78.65	69.67	-3,689.38	-1,969.08	1,532.86	1,428.96	103.90	14.753		
16,100.00	12,399.00	15,536.77	11,897.05	76.33	80.11	69.81	-3,789.22	-1,968.21	1,531.57	1,425.73	105.84	14.471		
16,200.00	12,399.00	15,636.69	11,901.08	77.68	81.58	69.96	-3,889.05	-1,967.33	1,530.29	1,422.50	107.80	14.196		
16,300.00	12,399.00	15,736.61	11,905.10	79.04	83.05	70.10	-3,988.88	-1,966.45	1,529.03	1,419.26	109.77	13.930		
16,400.00	12,399.00	15,836.53	11,909.12	80.41	84.54	70.24	-4,088.72	-1,965.58	1,527.77	1,416.02	111.75	13.671		
16,500.00	12,399.00	15,936.45	11,913.15	81.80	86.03	70.39	-4,188.55	-1,964.70	1,526.52	1,412.77	113.75	13.420		
16,600.00	12,399.00	16,036.37	11,917.17	83.19	87.52	70.53	-4,288.38	-1,963.82	1,525.28	1,409.52	115.76	13.176		
16,700.00	12,399.00	16,136.28	11,921.19	84.59	89.02	70.68	-4,388.22	-1,962.94	1,524.05	1,406.27	117.78	12.939		
16,800.00	12,399.00	16,236.20	11,925.22	86.00	90.53	70.82	-4,488.05	-1,962.07	1,522.83	1,403.01	119.82	12.709		
16,900.00	12,399.00	16,336.12	11,929.24	87.42	92.04	70.96	-4,587.89	-1,961.19	1,521.62	1,399.76	121.87	12.486		
17,000.00	12,399.00	16,436.04	11,933.27	88.85	93.55	71.11	-4,687.72	-1,960.31	1,520.42	1,396.50	123.92	12.269		
17,100.00	12,399.00	16,535.96	11,937.29	90.28	95.07	71.25	-4,787.55	-1,959.43	1,519.23	1,393.24	125.99	12.058		
17,200.00	12,399.00	16,635.88	11,941.31	91.72	96.60	71.40	-4,887.39	-1,958.56	1,518.05	1,389.98	128.07	11.853		
17,300.00	12,399.00	16,735.80	11,945.34	93.17	98.12	71.54	-4,987.22	-1,957.68	1,516.88	1,386.72	130.16	11.654		
17,400.00	12,399.00	16,835.72	11,949.36	94.63	99.65	71.69	-5,087.06	-1,956.80	1,515.72	1,383.46	132.26	11.460		
17,500.00	12,399.00	16,935.63	11,953.38	96.09	101.19	71.84	-5,186.89	-1,955.93	1,514.57	1,380.20	134.36	11.272		
17,600.00	12,399.00	17,035.55	11,957.41	97.56	102.73	71.98	-5,286.72	-1,955.05	1,513.43	1,376.95	136.48	11.089		
17,700.00	12,399.00	17,135.47	11,961.43	99.03	104.27	72.13	-5,386.56	-1,954.17	1,512.29	1,373.69	138.60	10.911		
17,800.00	12,399.00	17,235.39	11,965.46	100.51	105.82	72.28	-5,486.39	-1,953.29	1,511.17	1,370.44	140.74	10.738		
17,900.00	12,399.00	17,335.31	11,969.48	102.00	107.37	72.42	-5,586.23	-1,952.42	1,510.06	1,367.18	142.88	10.569		
18,000.00	12,399.00	17,435.23	11,973.50	103.48	108.92	72.57	-5,686.06	-1,951.54	1,508.96	1,363.93	145.03	10.405		
18,100.00	12,399.00	17,535.15	11,977.53	104.98	110.47	72.72	-5,785.89	-1,950.66	1,507.87	1,360.69	147.18	10.245		
18,200.00	12,399.00	17,635.07	11,981.55	106.48	112.03	72.86	-5,885.73	-1,949.78	1,506.79	1,357.44	149.34	10.089		
18,300.00	12,399.00	17,734.99	11,985.58	107.98	113.59	73.01	-5,985.56	-1,948.91	1,505.71	1,354.20	151.51	9.938		
18,400.00	12,399.00	17,834.90	11,989.60	109.49	115.15	73.16	-6,085.40	-1,948.03	1,504.65	1,350.96	153.69	9.790		
18,500.00	12,399.00	17,934.82	11,993.62	111.00	116.72	73.31	-6,185.23	-1,947.15	1,503.60	1,347.73	155.87	9.646		
18,600.00	12,399.00	18,034.74	11,997.65	112.52	118.28	73.46	-6,285.06	-1,946.27	1,502.56	1,344.50	158.06	9.506		
18,700.00	12,399.00	18,134.66	12,001.67	114.04	119.85	73.60	-6,384.90	-1,945.40	1,501.53	1,341.27	160.26	9.370		

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 804H
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 804H	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				
18,800.00	12,399.00	18,234.58	12,005.69	115.56	121.42	73.75	-6,484.73	-1,944.52	1,500.50	1,338.05	162.46	9.236				
18,900.00	12,399.00	18,334.50	12,009.72	117.09	123.00	73.90	-6,584.56	-1,943.64	1,499.49	1,334.83	164.66	9.106				
19,000.00	12,399.00	18,434.42	12,013.74	118.62	124.57	74.05	-6,684.40	-1,942.77	1,498.49	1,331.61	166.88	8.980				
19,100.00	12,399.00	18,534.34	12,017.77	120.15	126.15	74.20	-6,784.23	-1,941.89	1,497.50	1,328.41	169.10	8.856				
19,200.00	12,399.00	18,634.25	12,021.79	121.69	127.73	74.35	-6,884.07	-1,941.01	1,496.52	1,325.20	171.32	8.735				
19,300.00	12,399.00	18,734.17	12,025.81	123.22	129.31	74.50	-6,983.90	-1,940.13	1,495.55	1,322.00	173.55	8.618				
19,400.00	12,399.00	18,834.09	12,029.84	124.77	130.89	74.65	-7,083.73	-1,939.26	1,494.59	1,318.81	175.78	8.503				
19,500.00	12,399.00	18,934.01	12,033.86	126.31	132.48	74.80	-7,183.57	-1,938.38	1,493.64	1,315.62	178.02	8.390				
19,600.00	12,399.00	19,039.25	12,038.45	127.86	134.15	74.97	-7,288.70	-1,937.45	1,492.62	1,312.32	180.30	8.279				
19,700.00	12,399.00	19,139.10	12,043.84	129.41	135.74	75.17	-7,388.40	-1,936.58	1,491.34	1,308.76	182.58	8.168				
19,800.00	12,399.00	19,238.96	12,049.23	130.96	137.32	75.37	-7,488.11	-1,935.70	1,490.07	1,305.21	184.86	8.060				
19,900.00	12,399.00	19,338.81	12,054.62	132.52	138.91	75.57	-7,587.81	-1,934.83	1,488.83	1,301.67	187.16	7.955				
20,000.00	12,399.00	19,438.66	12,060.01	134.07	140.51	75.78	-7,687.52	-1,933.95	1,487.61	1,298.15	189.45	7.852				
20,100.00	12,399.00	19,538.52	12,065.40	135.63	142.10	75.98	-7,787.22	-1,933.07	1,486.40	1,294.65	191.75	7.752				
20,200.00	12,399.00	19,638.37	12,070.79	137.20	143.69	76.18	-7,886.93	-1,932.20	1,485.21	1,291.16	194.05	7.654				
20,300.00	12,399.00	19,738.23	12,076.18	138.76	145.29	76.38	-7,986.63	-1,931.32	1,484.04	1,287.68	196.36	7.558				
20,400.00	12,399.00	19,838.08	12,081.56	140.32	146.88	76.59	-8,086.34	-1,930.45	1,482.89	1,284.22	198.67	7.464				
20,500.00	12,399.00	19,937.93	12,086.95	141.89	148.48	76.79	-8,186.04	-1,929.57	1,481.76	1,280.77	200.99	7.372				
20,600.00	12,399.00	20,037.79	12,092.34	143.46	150.08	77.00	-8,285.75	-1,928.69	1,480.65	1,277.34	203.31	7.283				
20,700.00	12,399.00	20,137.64	12,097.73	145.03	151.68	77.20	-8,385.45	-1,927.82	1,479.55	1,273.92	205.63	7.195				
20,800.00	12,399.00	20,237.50	12,103.12	146.61	153.28	77.40	-8,485.16	-1,926.94	1,478.48	1,270.52	207.96	7.110				
20,900.00	12,399.00	20,337.35	12,108.51	148.18	154.88	77.61	-8,584.86	-1,926.06	1,477.42	1,267.14	210.29	7.026				
21,000.00	12,399.00	20,437.21	12,113.90	149.76	156.48	77.82	-8,684.57	-1,925.19	1,476.39	1,263.77	212.62	6.944				
21,100.00	12,399.00	20,537.06	12,119.29	151.34	158.09	78.02	-8,784.27	-1,924.31	1,475.37	1,260.41	214.95	6.864				
21,200.00	12,399.00	20,636.91	12,124.68	152.92	159.69	78.23	-8,883.98	-1,923.44	1,474.37	1,257.08	217.29	6.785				
21,300.00	12,399.00	20,736.77	12,130.07	154.50	161.30	78.43	-8,983.68	-1,922.56	1,473.39	1,253.76	219.63	6.708				
21,400.00	12,399.00	20,836.62	12,135.45	156.08	162.90	78.64	-9,083.39	-1,921.68	1,472.43	1,250.45	221.97	6.633				
21,500.00	12,399.00	20,936.48	12,140.84	157.66	164.51	78.85	-9,183.09	-1,920.81	1,471.49	1,247.17	224.32	6.560				
21,600.00	12,399.00	21,036.33	12,146.23	159.25	166.12	79.05	-9,282.80	-1,919.93	1,470.56	1,243.90	226.67	6.488				
21,700.00	12,399.00	21,136.19	12,151.62	160.84	167.73	79.26	-9,382.50	-1,919.06	1,469.66	1,240.64	229.02	6.417				
21,800.00	12,399.00	21,236.04	12,157.01	162.42	169.34	79.47	-9,482.20	-1,918.18	1,468.78	1,237.41	231.37	6.348				
21,900.00	12,399.00	21,335.89	12,162.40	164.01	170.95	79.67	-9,581.91	-1,917.30	1,467.91	1,234.19	233.72	6.281				
22,000.00	12,399.00	21,435.75	12,167.79	165.60	172.56	79.88	-9,681.61	-1,916.43	1,467.07	1,230.99	236.08	6.214				
22,100.00	12,399.00	21,535.60	12,173.18	167.19	174.17	80.09	-9,781.32	-1,915.55	1,466.24	1,227.81	238.43	6.149				
22,200.00	12,399.00	21,635.46	12,178.57	168.79	175.78	80.30	-9,881.02	-1,914.67	1,465.43	1,224.64	240.79	6.086				
22,300.00	12,399.00	21,735.31	12,183.96	170.38	177.39	80.51	-9,980.73	-1,913.80	1,464.65	1,221.50	243.15	6.024				
22,400.00	12,399.00	21,842.95	12,191.32	171.98	179.13	80.79	-10,088.10	-1,912.85	1,463.65	1,218.07	245.58	5.960				
22,500.00	12,399.00	21,944.54	12,200.93	173.57	180.77	81.16	-10,189.24	-1,911.97	1,462.27	1,214.24	248.04	5.895				
22,600.00	12,399.00	22,044.09	12,210.45	175.17	182.38	81.53	-10,288.32	-1,911.09	1,460.94	1,210.46	250.49	5.832				
22,700.00	12,399.00	22,143.63	12,219.96	176.77	183.99	81.90	-10,387.41	-1,910.22	1,459.67	1,206.74	252.93	5.771				
22,800.00	12,399.00	22,243.17	12,229.48	178.37	185.60	82.28	-10,486.49	-1,909.35	1,458.47	1,203.09	255.37	5.711				
22,900.00	12,399.00	22,342.71	12,239.00	179.97	187.21	82.65	-10,585.57	-1,908.48	1,457.32	1,199.51	257.81	5.653				
23,000.00	12,399.00	22,442.25	12,248.52	181.57	188.82	83.02	-10,684.65	-1,907.61	1,456.24	1,195.99	260.24	5.596				
23,100.00	12,399.00	22,541.80	12,258.03	183.17	190.43	83.39	-10,783.73	-1,906.74	1,455.21	1,192.54	262.67	5.540				
23,200.00	12,399.00	22,641.34	12,267.55	184.77	192.05	83.76	-10,882.82	-1,905.87	1,454.26	1,189.16	265.10	5.486				
23,300.00	12,399.00	22,740.88	12,277.07	186.38	193.66	84.14	-10,981.90	-1,905.00	1,453.36	1,185.84	267.51	5.433				
23,400.00	12,399.00	22,840.42	12,286.59	187.98	195.27	84.51	-11,080.98	-1,904.13	1,452.52	1,182.60	269.92	5.381				
23,500.00	12,399.00	22,939.96	12,296.10	189.58	196.89	84.89	-11,180.06	-1,903.25	1,451.75	1,179.42	272.33	5.331				
23,600.00	12,399.00	23,039.50	12,305.62	191.19	198.50	85.26	-11,279.14	-1,902.38	1,451.04	1,176.31	274.73	5.282				
23,700.00	12,399.00	23,139.05	12,315.14	192.80	200.11	85.64	-11,378.22	-1,901.51	1,450.39	1,173.27	277.12	5.234				
23,800.00	12,399.00	23,238.59	12,324.66	194.41	201.73	86.01	-11,477.31	-1,900.64	1,449.81	1,170.30	279.50	5.187				
23,871.21	12,399.00	23,302.33	12,330.75	195.55	202.76	86.25	-11,540.76	-1,900.08	1,449.45	1,168.29	281.16	5.155				

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 804H
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 804H	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								
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
23,874.38	12,399.00	23,302.33	12,330.75	195.60	202.76	86.25	-11,540.76	-1,900.08	1,449.45	1,168.24	281.21	5.154 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 804H
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 804H	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				
0.00	0.00	16.00	16.00	0.00	0.00	-74.36	504.98	-1,804.12	1,873.49							
100.00	100.00	100.00	99.98	0.13	0.16	-74.34	505.84	-1,804.95	1,874.68	1,874.49	0.19	9,887.930				
200.00	200.00	203.49	203.45	0.48	0.50	-74.32	506.99	-1,806.35	1,876.29	1,875.59	0.69	2,700.820				
300.00	300.00	300.00	299.95	0.84	0.84	-74.32	507.52	-1,807.66	1,877.74	1,876.55	1.19	1,577.534				
400.00	400.00	383.87	383.80	1.20	1.14	-74.34	507.30	-1,809.31	1,879.57	1,877.91	1.66	1,135.444				
500.00	500.00	474.11	474.01	1.56	1.46	-74.36	507.28	-1,811.61	1,882.03	1,879.89	2.14	880.501				
600.00	600.00	553.35	553.20	1.92	1.75	-74.39	506.95	-1,814.63	1,885.54	1,882.94	2.59	727.039				
700.00	700.00	648.27	648.03	2.28	2.10	-74.43	506.64	-1,818.59	1,889.48	1,886.39	3.09	611.951				
800.00	800.00	783.49	783.15	2.63	2.59	-74.49	506.08	-1,823.52	1,892.94	1,889.26	3.68	514.116				
900.00	900.00	885.15	884.78	2.99	2.95	-74.54	505.26	-1,826.30	1,895.37	1,891.17	4.19	452.037				
1,000.00	1,000.00	995.67	995.25	3.35	3.35	-74.59	503.92	-1,828.81	1,897.22	1,892.50	4.73	401.479				
1,100.00	1,100.00	1,092.57	1,092.12	3.71	3.69	-74.65	502.49	-1,830.84	1,898.85	1,893.63	5.22	363.501				
1,200.00	1,200.00	1,194.71	1,194.22	4.07	4.06	-74.72	500.85	-1,833.35	1,900.80	1,895.07	5.74	331.378				
1,300.00	1,300.00	1,301.02	1,300.51	4.43	4.44	-74.76	499.94	-1,835.26	1,902.32	1,896.06	6.26	303.932				
1,400.00	1,400.00	1,407.16	1,406.63	4.79	4.65	-74.79	499.43	-1,836.77	1,903.56	1,896.90	6.66	285.890				
1,500.00	1,500.00	1,513.27	1,512.74	5.14	4.71	-74.80	499.43	-1,837.73	1,904.44	1,897.48	6.96	273.677				
1,600.00	1,600.00	1,616.99	1,616.46	5.50	4.76	-74.81	499.30	-1,838.44	1,905.06	1,897.80	7.26	262.249				
1,700.00	1,700.00	1,721.93	1,721.40	5.86	4.85	-74.81	499.20	-1,838.88	1,905.44	1,897.85	7.59	250.906				
1,800.00	1,800.00	1,822.38	1,821.85	6.22	4.96	-74.81	499.21	-1,839.13	1,905.69	1,897.75	7.94	239.993				
1,900.00	1,900.00	1,922.02	1,921.49	6.58	5.09	-74.81	499.33	-1,839.39	1,905.96	1,897.66	8.30	229.562				
2,000.00	2,000.00	2,023.77	2,023.24	6.94	5.24	-74.81	499.39	-1,839.57	1,906.16	1,897.48	8.68	219.591				
2,100.00	2,099.99	2,123.36	2,122.82	7.29	5.41	-0.20	499.75	-1,839.68	1,905.04	1,895.98	9.06	210.229				
2,200.00	2,199.91	2,224.77	2,224.23	7.64	5.59	-0.19	500.28	-1,839.70	1,901.28	1,891.83	9.45	201.195				
2,300.00	2,299.69	2,326.35	2,325.82	7.99	5.79	-0.17	500.88	-1,839.60	1,894.80	1,884.95	9.85	192.397				
2,400.00	2,399.27	2,427.05	2,426.51	8.34	6.00	-0.14	501.74	-1,839.36	1,885.64	1,875.38	10.25	183.880				
2,458.69	2,457.58	2,486.21	2,485.67	8.55	6.13	-0.13	502.26	-1,839.18	1,879.02	1,868.52	10.50	179.003				
2,500.00	2,498.60	2,528.10	2,527.55	8.70	6.23	-0.11	502.67	-1,839.02	1,874.03	1,863.36	10.67	175.642				
2,600.00	2,597.88	2,613.64	2,613.09	9.06	6.43	-0.10	503.24	-1,838.95	1,862.17	1,851.10	11.07	168.217				
2,700.00	2,697.16	2,691.16	2,690.60	9.43	6.62	-0.12	502.69	-1,840.04	1,851.35	1,839.89	11.46	161.480				
2,800.00	2,796.44	2,774.41	2,773.80	9.80	6.83	-0.18	501.37	-1,842.47	1,841.73	1,829.85	11.87	155.123				
2,900.00	2,895.72	2,882.75	2,882.08	10.17	7.12	-0.26	499.87	-1,845.73	1,832.28	1,819.96	12.32	148.668				
3,000.00	2,995.00	2,979.20	2,978.49	10.54	7.38	-0.32	498.41	-1,848.11	1,822.29	1,809.53	12.76	142.772				
3,100.00	3,094.28	3,053.36	3,052.57	10.92	7.59	-0.41	496.43	-1,850.90	1,813.27	1,800.10	13.17	137.674				
3,200.00	3,193.56	3,122.00	3,121.03	11.30	7.78	-0.53	493.65	-1,855.00	1,805.97	1,792.40	13.57	133.088				
3,300.00	3,292.84	3,181.86	3,180.60	11.68	7.96	-0.67	490.45	-1,859.99	1,800.63	1,786.68	13.95	129.047				
3,400.00	3,392.12	3,247.63	3,245.84	12.06	8.17	-0.87	486.10	-1,867.04	1,797.35	1,783.00	14.35	125.283				
3,500.00	3,491.40	3,319.44	3,316.84	12.45	8.40	-1.12	480.48	-1,876.19	1,795.81	1,781.05	14.75	121.736				
3,600.00	3,590.68	3,409.56	3,405.74	12.83	8.69	-1.46	472.67	-1,888.79	1,795.34	1,780.14	15.20	118.109				
3,700.00	3,689.96	3,522.58	3,517.33	13.22	9.08	-1.88	463.55	-1,904.08	1,794.66	1,778.95	15.71	114.251				
3,786.86	3,776.19	3,594.00	3,587.91	13.55	9.32	-2.12	458.11	-1,913.63	1,794.10	1,778.01	16.09	111.517 CC, ES				
3,800.00	3,789.24	3,594.00	3,587.91	13.60	9.32	-2.12	458.11	-1,913.63	1,794.15	1,778.03	16.12	111.306				
3,900.00	3,888.52	3,665.12	3,657.98	13.99	9.58	-2.39	452.34	-1,924.33	1,795.27	1,778.74	16.53	108.609				
4,000.00	3,987.80	3,726.59	3,718.23	14.38	9.81	-2.65	446.94	-1,935.23	1,798.76	1,781.85	16.91	106.361				
4,100.00	4,087.08	3,783.00	3,773.32	14.77	10.02	-2.89	441.97	-1,946.29	1,804.34	1,787.07	17.27	104.456				
4,200.00	4,186.36	3,877.00	3,864.87	15.16	10.40	-3.29	434.04	-1,966.09	1,811.42	1,793.67	17.75	102.062				
4,300.00	4,285.64	3,958.98	3,944.60	15.56	10.73	-3.62	427.59	-1,984.01	1,819.44	1,801.25	18.19	100.040				
4,400.00	4,384.92	4,066.23	4,048.93	15.95	11.18	-4.05	419.38	-2,007.51	1,827.68	1,808.97	18.71	97.688				
4,500.00	4,484.20	4,252.47	4,230.72	16.34	11.96	-4.85	402.15	-2,044.03	1,833.54	1,814.06	19.48	94.111				
4,600.00	4,583.48	4,479.13	4,454.78	16.74	12.85	-5.65	383.84	-2,072.33	1,831.34	1,811.02	20.32	90.116				
4,700.00	4,682.76	4,575.65	4,550.68	17.13	13.21	-5.91	378.23	-2,081.62	1,827.95	1,807.14	20.81	87.821				
4,800.00	4,782.04	4,690.61	4,664.99	17.53	13.63	-6.18	372.70	-2,092.49	1,824.63	1,803.28	21.35	85.466				
4,900.00	4,881.32	4,798.13	4,772.05	17.92	14.02	-6.41	368.15	-2,101.29	1,820.11	1,798.25	21.87	83.240				

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 804H
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 804H	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				
5,000.00	4,980.60	4,885.40	4,858.90	18.32	14.35	-6.61	364.02	-2,108.77	1,815.95	1,793.61	22.34	81.293				
5,100.00	5,079.88	5,001.81	4,974.72	18.71	14.78	-6.90	358.24	-2,119.02	1,812.05	1,789.17	22.88	79.203				
5,200.00	5,179.16	5,078.12	5,050.60	19.11	15.07	-7.10	353.95	-2,125.89	1,808.20	1,784.87	23.33	77.507				
5,300.00	5,278.44	5,145.96	5,117.90	19.51	15.33	-7.31	349.18	-2,132.91	1,805.65	1,781.89	23.76	76.001				
5,380.36	5,358.22	5,199.00	5,170.33	19.83	15.55	-7.51	344.67	-2,139.56	1,805.12	1,781.03	24.10	74.915				
5,400.00	5,377.72	5,199.00	5,170.33	19.90	15.55	-7.51	344.67	-2,139.56	1,805.23	1,781.09	24.14	74.781				
5,500.00	5,477.00	5,272.18	5,242.37	20.30	15.86	-7.81	337.64	-2,150.29	1,806.81	1,782.23	24.58	73.516				
5,600.00	5,576.28	5,353.35	5,321.99	20.70	16.21	-8.17	329.22	-2,163.69	1,810.11	1,785.07	25.04	72.296				
5,700.00	5,675.56	5,448.15	5,414.85	21.10	16.63	-8.61	319.09	-2,179.82	1,814.02	1,788.48	25.54	71.019				
5,800.00	5,774.84	5,553.20	5,517.75	21.50	17.09	-9.09	307.67	-2,197.65	1,818.00	1,791.92	26.08	69.699				
5,900.00	5,874.12	5,648.68	5,611.29	21.90	17.52	-9.53	297.22	-2,213.66	1,821.88	1,795.29	26.59	68.509				
6,000.00	5,973.40	5,745.82	5,706.40	22.30	17.95	-9.98	286.46	-2,230.20	1,826.13	1,799.02	27.11	67.361				
6,100.00	6,072.68	5,876.01	5,834.08	22.70	18.54	-10.56	272.43	-2,251.42	1,829.82	1,802.08	27.74	65.973				
6,200.00	6,171.96	6,000.86	5,956.96	23.10	19.08	-11.09	259.84	-2,269.61	1,831.89	1,803.55	28.34	64.643				
6,300.00	6,271.24	6,113.11	6,067.55	23.50	19.56	-11.57	247.95	-2,284.73	1,832.93	1,804.03	28.90	63.422				
6,400.00	6,370.52	6,223.16	6,175.99	23.90	20.03	-12.06	235.81	-2,298.97	1,833.54	1,804.09	29.46	62.247				
6,500.00	6,469.80	6,321.77	6,273.21	24.30	20.46	-12.50	224.94	-2,311.38	1,833.91	1,803.93	29.98	61.177				
6,600.00	6,569.08	6,418.82	6,368.87	24.70	20.87	-12.94	214.11	-2,323.70	1,834.49	1,804.00	30.49	60.158				
6,700.00	6,668.36	6,532.62	6,481.20	25.10	21.36	-13.41	202.49	-2,337.67	1,834.78	1,803.72	31.06	59.073				
6,701.84	6,670.18	6,534.32	6,482.88	25.10	21.36	-13.42	202.33	-2,337.87	1,834.78	1,803.71	31.07	59.055				
6,800.00	6,767.64	6,624.96	6,572.56	25.50	21.74	-13.74	195.01	-2,348.80	1,834.99	1,803.43	31.56	58.146				
6,900.00	6,866.91	6,716.25	6,662.92	25.90	22.12	-14.02	188.76	-2,360.22	1,835.72	1,803.67	32.05	57.275				
6,934.75	6,901.42	6,754.88	6,701.17	26.04	22.28	-14.14	186.23	-2,365.07	1,836.01	1,803.77	32.24	56.944				
7,000.00	6,966.26	6,831.06	6,776.61	26.30	22.59	-14.37	181.26	-2,374.37	1,836.89	1,804.28	32.61	56.326				
7,100.00	7,065.85	6,955.12	6,899.63	26.68	23.10	-14.72	173.28	-2,388.20	1,839.29	1,806.10	33.19	55.413				
7,200.00	7,165.65	7,076.67	7,020.36	27.05	23.58	-15.02	166.08	-2,400.28	1,843.05	1,809.29	33.76	54.596				
7,300.00	7,265.57	7,166.26	7,109.43	27.41	23.93	-15.21	161.59	-2,408.83	1,848.98	1,814.74	34.24	54.006				
7,393.44	7,359.00	7,255.97	7,198.61	27.72	24.28	-89.97	157.83	-2,417.80	1,857.23	1,822.54	34.69	53.533				
7,400.00	7,365.56	7,262.37	7,204.98	27.74	24.31	-89.98	157.56	-2,418.45	1,857.89	1,823.16	34.73	53.502				
7,500.00	7,465.56	7,384.62	7,326.55	28.08	24.78	-90.15	152.16	-2,430.11	1,867.47	1,832.19	35.28	52.938				
7,600.00	7,565.56	7,509.89	7,451.33	28.41	25.25	-90.28	147.72	-2,440.17	1,875.48	1,839.65	35.83	52.347				
7,700.00	7,665.56	7,623.69	7,564.81	28.74	25.67	-90.36	145.27	-2,448.30	1,882.65	1,846.30	36.35	51.797				
7,800.00	7,765.56	7,753.14	7,694.02	29.07	26.12	-90.40	143.89	-2,456.12	1,888.72	1,851.82	36.89	51.197				
7,900.00	7,865.56	7,888.64	7,829.39	29.41	26.59	-90.44	142.37	-2,461.74	1,892.83	1,855.40	37.44	50.560				
8,000.00	7,965.56	8,020.10	7,960.80	29.74	27.02	-90.47	141.36	-2,465.07	1,895.39	1,857.43	37.97	49.924				
8,100.00	8,065.56	8,126.08	8,066.76	30.08	27.36	-90.44	142.35	-2,466.61	1,896.84	1,858.39	38.45	49.333				
8,200.00	8,165.56	8,229.00	8,169.67	30.41	27.68	-90.40	143.67	-2,467.93	1,898.11	1,859.18	38.93	48.760				
8,300.00	8,265.56	8,339.44	8,280.10	30.75	28.02	-90.37	144.60	-2,468.96	1,899.04	1,859.62	39.41	48.181				
8,400.00	8,365.56	8,452.24	8,392.90	31.09	28.36	-90.36	145.11	-2,469.28	1,899.32	1,859.42	39.90	47.602				
8,500.00	8,465.56	8,559.61	8,500.27	31.42	28.68	-90.35	145.48	-2,468.98	1,899.03	1,858.66	40.37	47.038				
8,600.00	8,565.56	8,664.75	8,605.40	31.76	28.98	-90.34	145.76	-2,468.39	1,898.47	1,857.63	40.84	46.485				
8,700.00	8,665.56	8,778.68	8,719.33	32.10	29.30	-90.34	145.58	-2,467.22	1,897.45	1,856.14	41.32	45.926				
8,800.00	8,765.56	8,886.48	8,827.11	32.44	29.61	-90.35	145.28	-2,465.43	1,895.79	1,854.01	41.79	45.369				
8,900.00	8,865.56	8,989.37	8,929.98	32.78	29.91	-90.34	145.71	-2,463.43	1,893.84	1,851.59	42.25	44.821				
9,000.00	8,965.56	9,088.03	9,028.62	33.12	30.19	-90.31	146.60	-2,461.51	1,891.89	1,849.17	42.72	44.288				
9,100.00	9,065.56	9,189.54	9,130.10	33.45	30.48	-90.28	147.88	-2,459.53	1,889.93	1,846.75	43.19	43.763				
9,200.00	9,165.56	9,294.19	9,234.72	33.79	30.78	-90.23	149.39	-2,457.31	1,887.81	1,844.16	43.65	43.244				
9,300.00	9,265.56	9,396.25	9,336.74	34.14	31.07	-90.19	150.67	-2,454.90	1,885.44	1,841.32	44.12	42.731				
9,400.00	9,365.56	9,494.71	9,435.17	34.48	31.36	-90.15	152.10	-2,452.62	1,883.12	1,838.53	44.59	42.231				
9,500.00	9,465.56	9,572.41	9,512.84	34.82	31.59	-90.11	153.23	-2,451.07	1,881.19	1,836.14	45.05	41.760				
9,555.30	9,520.87	9,606.94	9,547.36	35.01	31.70	-90.10	153.72	-2,450.88	1,880.88	1,835.59	45.29	41.528				
9,600.00	9,565.56	9,636.50	9,576.92	35.16	31.79	-90.09	154.14	-2,451.01	1,881.08	1,835.59	45.49	41.352				

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 804H
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 804H	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		
9,700.00	9,665.56	9,726.03	9,666.44	35.50	32.07	-90.05	155.52	-2,451.99	1,882.17	1,836.21	45.96	40.954		
9,800.00	9,765.56	9,843.29	9,783.68	35.84	32.45	-89.99	157.29	-2,453.11	1,883.13	1,836.67	46.46	40.532		
9,900.00	9,865.56	9,955.93	9,896.30	36.19	32.80	-89.95	158.69	-2,452.98	1,882.99	1,836.04	46.95	40.104		
9,950.60	9,916.17	10,002.29	9,942.67	36.36	32.95	-89.93	159.35	-2,452.93	1,882.93	1,835.74	47.19	39.901		
10,000.00	9,965.56	10,051.90	9,992.27	36.53	33.10	-89.91	160.07	-2,452.93	1,882.93	1,835.51	47.43	39.702		
10,071.50	10,037.07	10,123.20	10,063.57	36.77	33.33	-89.88	160.88	-2,452.91	1,882.91	1,835.14	47.77	39.416		
10,100.00	10,065.56	10,150.29	10,090.65	36.87	33.41	-89.88	160.91	-2,452.92	1,882.92	1,835.02	47.91	39.304		
10,200.00	10,165.56	10,239.06	10,179.41	37.21	33.70	-89.92	159.66	-2,453.17	1,883.21	1,834.83	48.38	38.926		
10,300.00	10,265.56	10,324.93	10,265.26	37.56	33.99	-89.97	157.87	-2,454.12	1,884.32	1,835.46	48.85	38.572		
10,400.00	10,365.56	10,423.16	10,363.45	37.90	34.32	-90.05	155.46	-2,455.69	1,885.90	1,836.56	49.34	38.220		
10,500.00	10,465.56	10,532.00	10,472.24	38.25	34.69	-90.13	152.76	-2,457.04	1,887.15	1,837.30	49.85	37.858		
10,600.00	10,565.56	10,637.11	10,577.33	38.59	35.05	-90.20	150.52	-2,457.99	1,888.06	1,837.71	50.35	37.500		
10,700.00	10,665.56	10,726.97	10,667.18	38.94	35.35	-90.22	149.72	-2,458.81	1,888.99	1,838.16	50.83	37.165		
10,800.00	10,765.56	10,815.73	10,755.92	39.28	35.65	-90.24	148.93	-2,460.30	1,890.66	1,839.36	51.30	36.852		
10,900.00	10,865.56	10,897.23	10,837.39	39.63	35.93	-90.28	147.68	-2,462.12	1,892.93	1,841.16	51.77	36.565		
11,000.00	10,965.56	10,969.75	10,909.87	39.97	36.19	-90.30	147.19	-2,464.74	1,896.54	1,844.33	52.21	36.322		
11,100.00	11,065.56	11,046.00	10,986.00	40.32	36.46	-90.34	145.69	-2,468.60	1,901.59	1,848.93	52.66	36.110		
11,200.00	11,165.56	11,186.83	11,126.61	40.66	36.97	-90.48	141.01	-2,474.83	1,906.02	1,852.77	53.25	35.797		
11,300.00	11,265.56	11,309.48	11,249.08	41.01	37.41	-90.64	135.63	-2,478.27	1,908.87	1,855.09	53.79	35.491		
11,400.00	11,365.56	11,426.75	11,366.16	41.36	37.82	-90.84	129.11	-2,480.27	1,910.65	1,856.34	54.31	35.180		
11,500.00	11,465.56	11,653.49	11,589.99	41.70	38.62	-91.94	92.42	-2,476.67	1,910.23	1,855.28	54.95	34.765		
11,600.00	11,565.56	11,716.73	11,649.35	42.05	38.84	-92.50	73.87	-2,473.24	1,905.92	1,850.48	55.44	34.380		
11,700.00	11,665.56	11,815.41	11,740.68	42.40	39.21	-93.61	37.02	-2,469.12	1,903.53	1,847.56	55.97	34.011		
11,775.75	11,741.32	11,846.00	11,767.60	42.66	39.33	-94.05	22.56	-2,467.81	1,902.57	1,846.26	56.31	33.786		
11,800.00	11,765.56	11,846.00	11,767.60	42.74	39.33	-94.05	22.56	-2,467.81	1,902.72	1,846.33	56.40	33.737		
11,860.48	11,826.04	11,875.83	11,793.27	42.95	39.45	-94.51	7.39	-2,467.09	1,903.90	1,847.23	56.66	33.600		
11,900.00	11,865.53	11,894.00	11,808.69	43.08	39.53	85.65	-2.23	-2,466.93	1,905.33	1,848.50	56.82	33.531		
11,950.00	11,915.20	11,894.00	11,808.69	43.24	39.53	85.41	-2.23	-2,466.93	1,907.74	1,850.80	56.94	33.502		
12,000.00	11,964.19	11,926.06	11,835.05	43.39	39.67	84.73	-20.45	-2,467.13	1,910.43	1,853.28	57.15	33.430		
12,050.00	12,012.13	11,944.10	11,849.26	43.53	39.75	84.21	-31.57	-2,467.49	1,913.72	1,856.42	57.29	33.401		
12,100.00	12,058.65	11,985.00	11,879.58	43.66	39.94	83.44	-58.94	-2,468.95	1,917.78	1,860.27	57.51	33.348 SF		
12,150.00	12,103.40	11,985.00	11,879.58	43.78	39.94	83.07	-58.94	-2,468.95	1,921.51	1,863.94	57.57	33.375		
12,200.00	12,146.04	11,985.00	11,879.58	43.90	39.94	82.63	-58.94	-2,468.95	1,926.01	1,868.38	57.62	33.425		
12,250.00	12,186.24	11,985.00	11,879.58	44.00	39.94	82.10	-58.94	-2,468.95	1,931.23	1,873.57	57.66	33.493		
12,300.00	12,223.71	11,985.00	11,879.58	44.09	39.94	81.52	-58.94	-2,468.95	1,937.14	1,879.45	57.69	33.577		
12,350.00	12,258.14	11,985.00	11,879.58	44.17	39.94	80.86	-58.94	-2,468.95	1,943.68	1,885.95	57.72	33.672		
12,400.00	12,289.29	11,985.00	11,879.58	44.24	39.94	80.16	-58.94	-2,468.95	1,950.79	1,893.03	57.76	33.774		
12,450.00	12,316.92	11,985.00	11,879.58	44.30	39.94	79.40	-58.94	-2,468.95	1,958.42	1,900.62	57.80	33.880		
12,500.00	12,340.80	11,985.00	11,879.58	44.36	39.94	78.59	-58.94	-2,468.95	1,966.50	1,908.64	57.86	33.986		
12,550.00	12,360.77	11,985.00	11,879.58	44.43	39.94	77.75	-58.94	-2,468.95	1,974.97	1,917.03	57.94	34.088		
12,600.00	12,376.67	11,985.00	11,879.58	44.50	39.94	76.88	-58.94	-2,468.95	1,983.75	1,925.72	58.03	34.184		
12,650.00	12,388.38	11,985.00	11,879.58	44.59	39.94	75.99	-58.94	-2,468.95	1,992.78	1,934.63	58.15	34.272		
12,700.00	12,395.81	11,985.00	11,879.58	44.69	39.94	75.08	-58.94	-2,468.95	2,001.98	1,943.70	58.28	34.350		
12,750.00	12,398.90	11,985.00	11,879.58	44.81	39.94	74.17	-58.94	-2,468.95	2,011.28	1,952.84	58.44	34.416		
12,760.48	12,399.00	11,985.00	11,879.58	44.83	39.94	73.98	-58.94	-2,468.95	2,013.24	1,954.76	58.48	34.429		
12,800.00	12,399.00	11,985.00	11,879.58	44.94	39.94	73.98	-58.94	-2,468.95	2,020.99	1,962.38	58.62	34.478		
12,900.00	12,399.00	11,985.00	11,879.58	45.25	39.94	73.98	-58.94	-2,468.95	2,043.89	1,984.89	59.01	34.639		
13,000.00	12,399.00	11,985.00	11,879.58	45.62	39.94	73.98	-58.94	-2,468.95	2,071.37	2,011.94	59.44	34.851		
13,100.00	12,399.00	11,985.00	11,879.58	46.05	39.94	73.98	-58.94	-2,468.95	2,103.25	2,043.36	59.90	35.116		
13,200.00	12,399.00	11,985.00	11,879.58	46.53	39.94	73.98	-58.94	-2,468.95	2,139.33	2,078.96	60.38	35.434		
13,300.00	12,399.00	11,985.00	11,879.58	47.07	39.94	73.98	-58.94	-2,468.95	2,179.41	2,118.54	60.87	35.806		
13,400.00	12,399.00	11,985.00	11,879.58	47.65	39.94	73.98	-58.94	-2,468.95	2,223.27	2,161.90	61.37	36.230		

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 804H
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 804H	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				
13,500.00	12,399.00	11,985.00	11,879.58	48.29	39.94	73.98	-58.94	-2,468.95	2,270.69	2,208.83	61.86	36.707				
13,600.00	12,399.00	11,985.00	11,879.58	48.97	39.94	73.98	-58.94	-2,468.95	2,321.44	2,259.10	62.35	37.234				
13,700.00	12,399.00	11,985.00	11,879.58	49.70	39.94	73.98	-58.94	-2,468.95	2,375.33	2,312.50	62.82	37.809				
13,800.00	12,399.00	11,985.00	11,879.58	50.47	39.94	73.98	-58.94	-2,468.95	2,432.13	2,368.85	63.28	38.432				
13,900.00	12,399.00	11,985.00	11,879.58	51.29	39.94	73.98	-58.94	-2,468.95	2,491.66	2,427.93	63.72	39.100				
14,000.00	12,399.00	11,985.00	11,879.58	52.14	39.94	73.98	-58.94	-2,468.95	2,553.71	2,489.56	64.15	39.810				
14,100.00	12,399.00	11,985.00	11,879.58	53.03	39.94	73.98	-58.94	-2,468.95	2,618.12	2,553.57	64.55	40.559				
14,200.00	12,399.00	11,985.00	11,879.58	53.95	39.94	73.98	-58.94	-2,468.95	2,684.70	2,619.77	64.93	41.347				
14,300.00	12,399.00	11,985.00	11,879.58	54.91	39.94	73.98	-58.94	-2,468.95	2,753.31	2,688.02	65.29	42.169				
14,400.00	12,399.00	11,985.00	11,879.58	55.90	39.94	73.98	-58.94	-2,468.95	2,823.79	2,758.16	65.63	43.025				
14,500.00	12,399.00	11,985.00	11,879.58	56.93	39.94	73.98	-58.94	-2,468.95	2,896.01	2,830.06	65.95	43.910				
14,600.00	12,399.00	11,985.00	11,879.58	57.98	39.94	73.98	-58.94	-2,468.95	2,969.84	2,903.59	66.26	44.824				
14,700.00	12,399.00	11,985.00	11,879.58	59.06	39.94	73.98	-58.94	-2,468.95	3,045.17	2,978.63	66.54	45.764				
14,800.00	12,399.00	11,985.00	11,879.58	60.16	39.94	73.98	-58.94	-2,468.95	3,121.88	3,055.07	66.81	46.728				
14,900.00	12,399.00	11,985.00	11,879.58	61.29	39.94	73.98	-58.94	-2,468.95	3,199.88	3,132.82	67.06	47.716				
15,000.00	12,399.00	11,985.00	11,879.58	62.44	39.94	73.98	-58.94	-2,468.95	3,279.07	3,211.77	67.30	48.724				
15,100.00	12,399.00	11,985.00	11,879.58	63.61	39.94	73.98	-58.94	-2,468.95	3,359.37	3,291.85	67.52	49.751				
15,200.00	12,399.00	11,985.00	11,879.58	64.81	39.94	73.98	-58.94	-2,468.95	3,440.71	3,372.98	67.73	50.797				
15,300.00	12,399.00	11,985.00	11,879.58	66.02	39.94	73.98	-58.94	-2,468.95	3,523.01	3,455.07	67.93	51.860				
15,400.00	12,399.00	11,985.00	11,879.58	67.26	39.94	73.98	-58.94	-2,468.95	3,606.20	3,538.08	68.12	52.939				
15,500.00	12,399.00	11,985.00	11,879.58	68.51	39.94	73.98	-58.94	-2,468.95	3,690.22	3,621.93	68.30	54.033				
15,600.00	12,399.00	11,985.00	11,879.58	69.77	39.94	73.98	-58.94	-2,468.95	3,775.03	3,706.56	68.46	55.139				
15,700.00	12,399.00	11,985.00	11,879.58	71.06	39.94	73.98	-58.94	-2,468.95	3,860.56	3,791.94	68.62	56.258				
15,800.00	12,399.00	11,985.00	11,879.58	72.35	39.94	73.98	-58.94	-2,468.95	3,946.77	3,878.00	68.77	57.390				
15,900.00	12,399.00	11,985.00	11,879.58	73.67	39.94	73.98	-58.94	-2,468.95	4,033.62	3,964.71	68.91	58.533				
16,000.00	12,399.00	11,985.00	11,879.58	74.99	39.94	73.98	-58.94	-2,468.95	4,121.06	4,052.02	69.05	59.685				
16,100.00	12,399.00	11,985.00	11,879.58	76.33	39.94	73.98	-58.94	-2,468.95	4,209.07	4,139.89	69.17	60.847				
16,200.00	12,399.00	11,985.00	11,879.58	77.68	39.94	73.98	-58.94	-2,468.95	4,297.60	4,228.30	69.30	62.017				
16,300.00	12,399.00	11,985.00	11,879.58	79.04	39.94	73.98	-58.94	-2,468.95	4,386.62	4,317.21	69.41	63.195				
16,400.00	12,399.00	11,985.00	11,879.58	80.41	39.94	73.98	-58.94	-2,468.95	4,476.11	4,406.58	69.53	64.380				
16,500.00	12,399.00	11,985.00	11,879.58	81.80	39.94	73.98	-58.94	-2,468.95	4,566.03	4,496.39	69.63	65.572				
16,600.00	12,399.00	11,985.00	11,879.58	83.19	39.94	73.98	-58.94	-2,468.95	4,656.36	4,586.62	69.74	66.770				
16,700.00	12,399.00	11,985.00	11,879.58	84.59	39.94	73.98	-58.94	-2,468.95	4,747.08	4,677.24	69.84	67.974				
16,800.00	12,399.00	11,985.00	11,879.58	86.00	39.94	73.98	-58.94	-2,468.95	4,838.17	4,768.23	69.93	69.183				
16,900.00	12,399.00	11,985.00	11,879.58	87.42	39.94	73.98	-58.94	-2,468.95	4,929.60	4,859.57	70.03	70.397				

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 804H
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 804H	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				
0.00	0.00	16.00	16.00	0.00	0.00	-74.36	504.98	-1,804.12	1,873.49							
100.00	100.00	100.00	99.98	0.13	0.16	-74.34	505.84	-1,804.95	1,874.68	1,874.49	0.19	9,887.930				
200.00	200.00	203.49	203.45	0.48	0.50	-74.32	506.99	-1,806.35	1,876.29	1,875.59	0.69	2,700.820				
300.00	300.00	300.00	299.95	0.84	0.84	-74.32	507.52	-1,807.66	1,877.74	1,876.55	1.19	1,577.534				
400.00	400.00	383.87	383.80	1.20	1.14	-74.34	507.30	-1,809.31	1,879.57	1,877.91	1.66	1,135.444				
500.00	500.00	474.11	474.01	1.56	1.46	-74.36	507.28	-1,811.61	1,882.03	1,879.89	2.14	880.501				
600.00	600.00	553.35	553.20	1.92	1.75	-74.39	506.95	-1,814.63	1,885.54	1,882.94	2.59	727.039				
700.00	700.00	648.27	648.03	2.28	2.10	-74.43	506.64	-1,818.59	1,889.48	1,886.39	3.09	611.951				
800.00	800.00	783.49	783.15	2.63	2.59	-74.49	506.08	-1,823.52	1,892.94	1,889.26	3.68	514.116				
900.00	900.00	885.15	884.78	2.99	2.95	-74.54	505.26	-1,826.30	1,895.37	1,891.17	4.19	452.037				
1,000.00	1,000.00	995.67	995.25	3.35	3.35	-74.59	503.92	-1,828.81	1,897.22	1,892.50	4.73	401.479				
1,100.00	1,100.00	1,092.57	1,092.12	3.71	3.69	-74.65	502.49	-1,830.84	1,898.85	1,893.63	5.22	363.501				
1,200.00	1,200.00	1,194.71	1,194.22	4.07	4.06	-74.72	500.85	-1,833.35	1,900.80	1,895.07	5.74	331.378				
1,300.00	1,300.00	1,301.02	1,300.51	4.43	4.44	-74.76	499.94	-1,835.26	1,902.32	1,896.06	6.26	303.932				
1,400.00	1,400.00	1,407.16	1,406.63	4.79	4.65	-74.79	499.43	-1,836.77	1,903.56	1,896.90	6.66	285.890				
1,500.00	1,500.00	1,513.27	1,512.74	5.14	4.71	-74.80	499.43	-1,837.73	1,904.44	1,897.48	6.96	273.677				
1,600.00	1,600.00	1,616.99	1,616.46	5.50	4.76	-74.81	499.30	-1,838.44	1,905.06	1,897.80	7.26	262.249				
1,700.00	1,700.00	1,721.93	1,721.40	5.86	4.85	-74.81	499.20	-1,838.88	1,905.44	1,897.85	7.59	250.906				
1,800.00	1,800.00	1,822.38	1,821.85	6.22	4.96	-74.81	499.21	-1,839.13	1,905.69	1,897.75	7.94	239.993				
1,900.00	1,900.00	1,922.02	1,921.49	6.58	5.09	-74.81	499.33	-1,839.39	1,905.96	1,897.66	8.30	229.562				
2,000.00	2,000.00	2,023.77	2,023.24	6.94	5.24	-74.81	499.39	-1,839.57	1,906.16	1,897.48	8.68	219.591				
2,100.00	2,099.99	2,123.36	2,122.82	7.29	5.41	-0.20	499.75	-1,839.68	1,905.04	1,895.98	9.06	210.229				
2,200.00	2,199.91	2,224.77	2,224.23	7.64	5.59	-0.19	500.28	-1,839.70	1,901.28	1,891.83	9.45	201.195				
2,300.00	2,299.69	2,326.35	2,325.82	7.99	5.79	-0.17	500.88	-1,839.60	1,894.80	1,884.95	9.85	192.397				
2,400.00	2,399.27	2,427.05	2,426.51	8.34	6.00	-0.14	501.74	-1,839.36	1,885.64	1,875.38	10.25	183.880				
2,458.69	2,457.58	2,486.21	2,485.67	8.55	6.13	-0.13	502.26	-1,839.18	1,879.02	1,868.52	10.50	179.003				
2,500.00	2,498.60	2,528.10	2,527.55	8.70	6.23	-0.11	502.67	-1,839.02	1,874.03	1,863.36	10.67	175.642				
2,600.00	2,597.88	2,613.64	2,613.09	9.06	6.43	-0.10	503.24	-1,838.95	1,862.17	1,851.10	11.07	168.217				
2,700.00	2,697.16	2,691.16	2,690.60	9.43	6.62	-0.12	502.69	-1,840.04	1,851.35	1,839.89	11.46	161.480				
2,800.00	2,796.44	2,773.87	2,773.26	9.80	6.83	-0.18	501.36	-1,842.46	1,841.73	1,829.86	11.87	155.138				
2,900.00	2,895.72	2,858.82	2,858.14	10.17	7.05	-0.26	499.69	-1,845.47	1,832.67	1,820.38	12.29	149.155				
3,000.00	2,995.00	2,933.57	2,932.76	10.54	7.26	-0.36	497.52	-1,849.28	1,824.85	1,812.16	12.69	143.807				
3,100.00	3,094.28	3,000.00	2,998.99	10.92	7.44	-0.48	494.96	-1,853.73	1,818.42	1,805.34	13.08	139.035				
3,200.00	3,193.56	3,083.14	3,081.74	11.30	7.69	-0.66	490.93	-1,860.68	1,813.33	1,799.83	13.50	134.306				
3,300.00	3,292.84	3,157.85	3,155.93	11.68	7.91	-0.86	486.51	-1,868.24	1,809.66	1,795.75	13.91	130.092				
3,400.00	3,392.12	3,232.42	3,229.81	12.06	8.15	-1.09	481.36	-1,877.03	1,807.41	1,793.09	14.32	126.211				
3,500.00	3,491.40	3,318.54	3,314.89	12.45	8.43	-1.39	474.63	-1,888.47	1,806.43	1,791.68	14.76	122.402				
3,600.00	3,590.68	3,417.90	3,413.03	12.83	8.76	-1.75	466.75	-1,901.87	1,805.73	1,790.50	15.23	118.563				
3,700.00	3,689.96	3,517.26	3,511.17	13.22	9.10	-2.10	458.86	-1,915.28	1,805.09	1,789.38	15.71	114.925				
3,800.00	3,789.24	3,616.62	3,609.31	13.60	9.45	-2.46	450.98	-1,928.68	1,804.52	1,788.33	16.19	111.477				
3,900.00	3,888.52	3,715.99	3,707.45	13.99	9.81	-2.81	443.10	-1,942.09	1,804.02	1,787.35	16.67	108.208				
4,000.00	3,987.80	3,815.35	3,805.58	14.38	10.17	-3.17	435.22	-1,955.49	1,803.60	1,786.44	17.16	105.106				
4,100.00	4,087.08	3,914.71	3,903.72	14.77	10.54	-3.52	427.33	-1,968.89	1,803.24	1,785.59	17.65	102.162				
4,200.00	4,186.36	4,014.07	4,001.86	15.16	10.91	-3.88	419.45	-1,982.30	1,802.95	1,784.81	18.14	99.366				
4,300.00	4,285.64	4,113.44	4,100.00	15.56	11.29	-4.24	411.57	-1,995.70	1,802.74	1,784.10	18.64	96.709				
4,400.00	4,384.92	4,212.80	4,198.13	15.95	11.67	-4.59	403.68	-2,009.11	1,802.59	1,783.45	19.14	94.182				
4,500.00	4,484.20	4,312.16	4,296.27	16.34	12.06	-4.95	395.80	-2,022.51	1,802.52	1,782.88	19.64	91.777				
4,555.63	4,539.42	4,367.43	4,350.86	16.56	12.27	-5.15	391.41	-2,029.97	1,802.51	1,782.59	19.92	90.489 CC				
4,600.00	4,583.48	4,411.52	4,394.41	16.74	12.45	-5.30	387.92	-2,035.91	1,802.52	1,782.37	20.14	89.487				
4,700.00	4,682.76	4,510.88	4,492.55	17.13	12.84	-5.66	380.03	-2,049.32	1,802.58	1,781.93	20.65	87.305				
4,800.00	4,782.04	4,610.25	4,590.69	17.53	13.23	-6.02	372.15	-2,062.72	1,802.72	1,781.57	21.15	85.224				
4,900.00	4,881.32	4,709.61	4,688.82	17.92	13.63	-6.37	364.27	-2,076.13	1,802.93	1,781.27	21.66	83.238				

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 804H
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 804H	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							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,980.60	4,808.97	4,786.96	18.32	14.03	-6.73	356.38	-2,089.53	1,803.20	1,781.04	22.17	81.341		
5,100.00	5,079.88	4,908.33	4,885.10	18.71	14.43	-7.08	348.50	-2,102.93	1,803.55	1,780.88	22.68	79.528		
5,200.00	5,179.16	5,007.69	4,983.24	19.11	14.84	-7.44	340.62	-2,116.34	1,803.97	1,780.78	23.19	77.794		
5,300.00	5,278.44	5,107.06	5,081.37	19.51	15.24	-7.80	332.73	-2,129.74	1,804.46	1,780.76	23.70	76.136		
5,400.00	5,377.72	5,206.42	5,179.51	19.90	15.65	-8.15	324.85	-2,143.15	1,805.02	1,780.81	24.21	74.547		
5,500.00	5,477.00	5,305.78	5,277.65	20.30	16.06	-8.51	316.97	-2,156.55	1,805.65	1,780.92	24.73	73.024		
5,600.00	5,576.28	5,405.14	5,375.79	20.70	16.47	-8.86	309.08	-2,169.95	1,806.35	1,781.11	25.24	71.565		
5,700.00	5,675.56	5,504.51	5,473.93	21.10	16.88	-9.22	301.20	-2,183.36	1,807.12	1,781.37	25.76	70.164		
5,800.00	5,774.84	5,603.87	5,572.06	21.50	17.30	-9.57	293.32	-2,196.76	1,807.96	1,781.69	26.27	68.820		
5,900.00	5,874.12	5,703.23	5,670.20	21.90	17.71	-9.92	285.43	-2,210.16	1,808.87	1,782.09	26.79	67.528		
6,000.00	5,973.40	5,802.59	5,768.34	22.30	18.13	-10.28	277.55	-2,223.57	1,809.85	1,782.55	27.30	66.286		
6,100.00	6,072.68	5,901.95	5,866.48	22.70	18.54	-10.63	269.67	-2,236.97	1,810.90	1,783.08	27.82	65.092		
6,200.00	6,171.96	6,001.32	5,964.61	23.10	18.96	-10.98	261.78	-2,250.38	1,812.02	1,783.68	28.34	63.943		
6,300.00	6,271.24	6,100.68	6,062.75	23.50	19.38	-11.34	253.90	-2,263.78	1,813.21	1,784.35	28.86	62.837		
6,400.00	6,370.52	6,200.04	6,160.89	23.90	19.80	-11.69	246.02	-2,277.18	1,814.47	1,785.09	29.37	61.771		
6,500.00	6,469.80	6,299.40	6,259.03	24.30	20.22	-12.04	238.13	-2,290.59	1,815.80	1,785.90	29.89	60.744		
6,600.00	6,569.08	6,398.76	6,357.17	24.70	20.64	-12.39	230.25	-2,303.99	1,817.19	1,786.78	30.41	59.754		
6,700.00	6,668.36	6,498.13	6,455.30	25.10	21.06	-12.74	222.37	-2,317.40	1,818.66	1,787.73	30.93	58.798		
6,800.00	6,767.64	6,597.49	6,553.44	25.50	21.48	-13.09	214.48	-2,330.80	1,820.19	1,788.74	31.45	57.876		
6,900.00	6,866.91	6,696.85	6,651.58	25.90	21.91	-13.44	206.60	-2,344.20	1,821.79	1,789.82	31.97	56.985		
6,934.75	6,901.42	6,731.38	6,685.68	26.04	22.05	-13.56	203.86	-2,348.86	1,822.37	1,790.21	32.15	56.683		
7,000.00	6,966.26	6,796.22	6,749.72	26.30	22.33	-13.79	198.72	-2,357.61	1,824.00	1,791.51	32.49	56.142		
7,100.00	7,065.85	6,895.56	6,847.84	26.68	22.75	-14.13	190.84	-2,371.01	1,828.67	1,795.66	33.01	55.404		
7,200.00	7,165.65	6,994.82	6,945.87	27.05	23.18	-14.46	182.96	-2,384.40	1,835.92	1,802.40	33.52	54.769		
7,300.00	7,265.57	7,093.92	7,043.76	27.41	23.60	-14.78	175.10	-2,397.77	1,845.74	1,811.71	34.03	54.235		
7,393.44	7,359.00	7,186.32	7,135.02	27.72	23.99	-89.66	167.77	-2,410.23	1,857.23	1,822.73	34.50	53.825		
7,400.00	7,365.56	7,192.81	7,141.42	27.74	24.02	-89.68	167.25	-2,411.11	1,858.12	1,823.58	34.54	53.799		
7,500.00	7,465.56	7,304.04	7,251.30	28.08	24.50	-89.95	158.48	-2,426.02	1,871.57	1,836.49	35.08	53.353		
7,600.00	7,565.56	7,476.57	7,422.43	28.41	25.20	-90.29	147.42	-2,444.83	1,882.51	1,846.73	35.78	52.611		
7,700.00	7,665.56	7,650.75	7,596.02	28.74	25.84	-90.51	140.23	-2,457.05	1,889.57	1,853.13	36.44	51.860		
7,800.00	7,765.56	7,825.87	7,771.01	29.07	26.43	-90.60	137.06	-2,462.44	1,892.66	1,855.63	37.03	51.106		
7,900.00	7,865.56	7,946.92	7,892.06	29.41	26.79	-90.61	136.90	-2,462.71	1,892.82	1,855.30	37.52	50.443		
8,000.00	7,965.56	8,046.92	7,992.06	29.74	27.09	-90.61	136.90	-2,462.71	1,892.82	1,854.83	37.99	49.824		
8,100.00	8,065.56	8,146.92	8,092.06	30.08	27.38	-90.61	136.90	-2,462.71	1,892.82	1,854.36	38.46	49.219		
8,200.00	8,165.56	8,246.92	8,192.06	30.41	27.68	-90.61	136.90	-2,462.71	1,892.82	1,853.89	38.93	48.627		
8,300.00	8,265.56	8,346.92	8,292.06	30.75	27.98	-90.61	136.90	-2,462.71	1,892.82	1,853.43	39.39	48.047		
8,400.00	8,365.56	8,446.92	8,392.06	31.09	28.28	-90.61	136.90	-2,462.71	1,892.82	1,852.96	39.86	47.481		
8,500.00	8,465.56	8,546.92	8,492.06	31.42	28.58	-90.61	136.90	-2,462.71	1,892.82	1,852.48	40.34	46.926		
8,600.00	8,565.56	8,646.92	8,592.06	31.76	28.88	-90.61	136.90	-2,462.71	1,892.82	1,852.01	40.81	46.384		
8,700.00	8,665.56	8,746.92	8,692.06	32.10	29.19	-90.61	136.90	-2,462.71	1,892.82	1,851.54	41.28	45.853		
8,800.00	8,765.56	8,846.92	8,792.06	32.44	29.49	-90.61	136.90	-2,462.71	1,892.82	1,851.07	41.75	45.333		
8,900.00	8,865.56	8,946.92	8,892.06	32.78	29.80	-90.61	136.90	-2,462.71	1,892.82	1,850.59	42.23	44.823		
9,000.00	8,965.56	9,046.92	8,992.06	33.12	30.10	-90.61	136.90	-2,462.71	1,892.82	1,850.12	42.70	44.325		
9,100.00	9,065.56	9,146.92	9,092.06	33.45	30.41	-90.61	136.90	-2,462.71	1,892.82	1,849.64	43.18	43.836		
9,200.00	9,165.56	9,246.92	9,192.06	33.79	30.72	-90.61	136.90	-2,462.71	1,892.82	1,849.16	43.66	43.358		
9,300.00	9,265.56	9,346.92	9,292.06	34.14	31.03	-90.61	136.90	-2,462.71	1,892.82	1,848.69	44.13	42.889		
9,400.00	9,365.56	9,446.92	9,392.06	34.48	31.34	-90.61	136.90	-2,462.71	1,892.82	1,848.21	44.61	42.430		
9,500.00	9,465.56	9,546.92	9,492.06	34.82	31.66	-90.61	136.90	-2,462.71	1,892.82	1,847.73	45.09	41.980		
9,600.00	9,565.56	9,646.92	9,592.06	35.16	31.97	-90.61	136.90	-2,462.71	1,892.82	1,847.25	45.57	41.538		
9,700.00	9,665.56	9,746.92	9,692.06	35.50	32.29	-90.61	136.90	-2,462.71	1,892.82	1,846.77	46.05	41.106		
9,800.00	9,765.56	9,846.92	9,792.06	35.84	32.60	-90.61	136.90	-2,462.71	1,892.82	1,846.29	46.53	40.681		
9,900.00	9,865.56	9,946.92	9,892.06	36.19	32.92	-90.61	136.90	-2,462.71	1,892.82	1,845.81	47.01	40.265		

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 804H
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 804H	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						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	9,965.56	10,046.92	9,992.06	36.53	33.23	-90.61	136.90	-2,462.71	1,892.82	1,845.33	47.49	39.857		
10,100.00	10,065.56	10,146.92	10,092.06	36.87	33.55	-90.61	136.90	-2,462.71	1,892.82	1,844.85	47.97	39.457		
10,200.00	10,165.56	10,246.92	10,192.06	37.21	33.87	-90.61	136.90	-2,462.71	1,892.82	1,844.37	48.45	39.064		
10,300.00	10,265.56	10,346.92	10,292.06	37.56	34.19	-90.61	136.90	-2,462.71	1,892.82	1,843.88	48.94	38.679		
10,400.00	10,365.56	10,446.92	10,392.06	37.90	34.51	-90.61	136.90	-2,462.71	1,892.82	1,843.40	49.42	38.300		
10,500.00	10,465.56	10,546.92	10,492.06	38.25	34.83	-90.61	136.90	-2,462.71	1,892.82	1,842.92	49.90	37.929		
10,600.00	10,565.56	10,646.92	10,592.06	38.59	35.15	-90.61	136.90	-2,462.71	1,892.82	1,842.43	50.39	37.564		
10,700.00	10,665.56	10,746.92	10,692.06	38.94	35.48	-90.61	136.90	-2,462.71	1,892.82	1,841.95	50.87	37.207		
10,800.00	10,765.56	10,846.92	10,792.06	39.28	35.80	-90.61	136.90	-2,462.71	1,892.82	1,841.46	51.36	36.855		
10,900.00	10,865.56	10,946.92	10,892.06	39.63	36.12	-90.61	136.90	-2,462.71	1,892.82	1,840.98	51.84	36.510		
11,000.00	10,965.56	11,046.92	10,992.06	39.97	36.45	-90.61	136.90	-2,462.71	1,892.82	1,840.49	52.33	36.171		
11,100.00	11,065.56	11,146.92	11,092.06	40.32	36.77	-90.61	136.90	-2,462.71	1,892.82	1,840.00	52.82	35.838		
11,200.00	11,165.56	11,246.92	11,192.06	40.66	37.10	-90.61	136.90	-2,462.71	1,892.82	1,839.52	53.30	35.511		
11,300.00	11,265.56	11,346.92	11,292.06	41.01	37.43	-90.61	136.90	-2,462.71	1,892.82	1,839.03	53.79	35.189		
11,400.00	11,365.56	11,446.92	11,392.06	41.36	37.75	-90.61	136.90	-2,462.71	1,892.82	1,838.54	54.28	34.873		
11,411.78	11,377.34	11,458.70	11,403.84	41.40	37.79	-90.61	136.90	-2,462.71	1,892.82	1,838.49	54.34	34.836		
11,500.00	11,465.56	11,546.84	11,491.98	41.70	38.08	-90.61	136.75	-2,462.71	1,892.82	1,838.06	54.77	34.562		
11,600.00	11,565.56	11,644.84	11,589.28	42.05	38.42	-90.93	126.19	-2,462.62	1,892.87	1,837.61	55.26	34.254		
11,700.00	11,665.56	11,736.72	11,677.65	42.40	38.76	-91.68	101.36	-2,462.40	1,893.27	1,837.51	55.76	33.954		
11,800.00	11,765.56	11,818.93	11,752.46	42.74	39.07	-92.71	67.44	-2,462.10	1,894.64	1,838.38	56.25	33.680		
11,860.48	11,826.04	11,863.31	11,790.59	42.95	39.25	-93.39	44.77	-2,461.90	1,896.24	1,839.70	56.54	33.536		
11,900.00	11,865.53	11,890.74	11,813.25	43.08	39.36	86.59	29.31	-2,461.77	1,897.63	1,840.91	56.72	33.455		
11,950.00	11,915.20	11,924.82	11,840.32	43.24	39.50	85.86	8.62	-2,461.59	1,899.64	1,842.70	56.94	33.364		
12,000.00	11,964.19	11,958.30	11,865.67	43.39	39.64	85.15	-13.24	-2,461.39	1,901.88	1,844.74	57.14	33.283		
12,050.00	12,012.13	11,991.26	11,889.34	43.53	39.78	84.45	-36.17	-2,461.19	1,904.30	1,846.95	57.34	33.210		
12,100.00	12,058.65	12,023.78	11,911.36	43.66	39.92	83.77	-60.09	-2,460.98	1,906.83	1,849.30	57.53	33.144		
12,150.00	12,103.40	12,050.00	11,928.11	43.78	40.03	83.19	-80.27	-2,460.80	1,909.45	1,851.76	57.69	33.096		
12,200.00	12,146.04	12,087.70	11,950.53	43.90	40.20	82.50	-110.56	-2,460.54	1,912.05	1,854.17	57.89	33.030		
12,250.00	12,186.24	12,119.21	11,967.71	44.00	40.35	81.91	-136.97	-2,460.31	1,914.64	1,856.58	58.06	32.976		
12,300.00	12,223.71	12,150.00	11,983.07	44.09	40.49	81.37	-163.66	-2,460.07	1,917.14	1,858.91	58.23	32.924		
12,350.00	12,258.14	12,181.51	11,997.28	44.17	40.64	80.87	-191.77	-2,459.82	1,919.51	1,861.11	58.40	32.867		
12,400.00	12,289.29	12,212.37	12,009.68	44.24	40.80	80.42	-220.03	-2,459.57	1,921.72	1,863.15	58.58	32.808		
12,450.00	12,316.92	12,250.00	12,022.71	44.30	40.99	79.98	-255.32	-2,459.26	1,923.75	1,864.97	58.78	32.730		
12,500.00	12,340.80	12,273.66	12,029.71	44.36	41.11	79.68	-277.92	-2,459.07	1,925.49	1,866.55	58.94	32.669		
12,550.00	12,360.77	12,300.00	12,036.39	44.43	41.26	79.40	-303.39	-2,458.84	1,927.00	1,867.88	59.12	32.595		
12,600.00	12,376.67	12,334.53	12,043.37	44.50	41.44	79.16	-337.20	-2,458.54	1,928.21	1,868.87	59.34	32.495		
12,650.00	12,388.38	12,364.86	12,047.81	44.59	41.61	78.99	-367.21	-2,458.28	1,929.12	1,869.56	59.56	32.391		
12,700.00	12,395.81	12,400.00	12,050.96	44.69	41.81	78.88	-402.20	-2,457.97	1,929.71	1,869.91	59.80	32.269		
12,750.00	12,398.90	12,426.34	12,051.91	44.81	41.96	78.84	-428.51	-2,457.74	1,929.96	1,869.93	60.03	32.150		
12,760.48	12,399.00	12,435.31	12,052.03	44.83	42.02	78.84	-437.48	-2,457.66	1,929.96	1,869.87	60.09	32.118		
12,800.00	12,399.00	12,474.83	12,052.55	44.94	42.25	78.86	-477.00	-2,457.32	1,929.91	1,869.57	60.34	31.986		
12,900.00	12,399.00	12,574.82	12,053.86	45.25	42.89	78.90	-576.98	-2,456.44	1,929.77	1,868.75	61.02	31.627		
13,000.00	12,399.00	12,674.81	12,055.17	45.62	43.58	78.94	-676.96	-2,455.56	1,929.63	1,867.86	61.77	31.238		
13,100.00	12,399.00	12,774.80	12,056.48	46.05	44.32	78.97	-776.93	-2,454.68	1,929.49	1,866.89	62.60	30.822		
13,200.00	12,399.00	12,874.80	12,057.80	46.53	45.10	79.01	-876.91	-2,453.80	1,929.35	1,865.85	63.51	30.381		
13,300.00	12,399.00	12,974.79	12,059.11	47.07	45.94	79.05	-976.89	-2,452.92	1,929.21	1,864.74	64.48	29.920		
13,400.00	12,399.00	13,074.78	12,060.42	47.65	46.81	79.09	-1,076.87	-2,452.04	1,929.08	1,863.56	65.52	29.443		
13,500.00	12,399.00	13,174.77	12,061.74	48.29	47.73	79.13	-1,176.85	-2,451.16	1,928.94	1,862.32	66.62	28.954		
13,600.00	12,399.00	13,274.76	12,063.05	48.97	48.69	79.17	-1,276.83	-2,450.28	1,928.81	1,861.02	67.79	28.455		
13,700.00	12,399.00	13,374.75	12,064.36	49.70	49.68	79.21	-1,376.81	-2,449.40	1,928.68	1,859.67	69.01	27.949		
13,800.00	12,399.00	13,474.74	12,065.68	50.47	50.70	79.25	-1,476.79	-2,448.52	1,928.54	1,858.26	70.28	27.440		
13,900.00	12,399.00	13,574.73	12,066.99	51.29	51.76	79.29	-1,576.77	-2,447.64	1,928.41	1,856.80	71.61	26.929		

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 804H
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 804H	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				
14,000.00	12,399.00	13,674.73	12,068.30	52.14	52.85	79.32	-1,676.74	-2,446.77	1,928.28	1,855.29	72.99	26.419				
14,100.00	12,399.00	13,774.72	12,069.62	53.03	53.97	79.36	-1,776.72	-2,445.89	1,928.15	1,853.74	74.41	25.912				
14,200.00	12,399.00	13,874.71	12,070.93	53.95	55.11	79.40	-1,876.70	-2,445.01	1,928.02	1,852.15	75.88	25.409				
14,300.00	12,399.00	13,974.70	12,072.24	54.91	56.28	79.44	-1,976.68	-2,444.13	1,927.90	1,850.51	77.39	24.913				
14,400.00	12,399.00	14,074.69	12,073.55	55.90	57.48	79.48	-2,076.66	-2,443.25	1,927.77	1,848.84	78.93	24.423				
14,500.00	12,399.00	14,174.68	12,074.87	56.93	58.69	79.52	-2,176.64	-2,442.37	1,927.64	1,847.13	80.52	23.941				
14,600.00	12,399.00	14,274.67	12,076.18	57.98	59.93	79.56	-2,276.62	-2,441.49	1,927.52	1,845.38	82.14	23.468				
14,700.00	12,399.00	14,374.66	12,077.49	59.06	61.18	79.60	-2,376.60	-2,440.61	1,927.39	1,843.61	83.79	23.004				
14,800.00	12,399.00	14,474.66	12,078.81	60.16	62.46	79.64	-2,476.57	-2,439.73	1,927.27	1,841.80	85.47	22.550				
14,900.00	12,399.00	14,574.65	12,080.12	61.29	63.75	79.68	-2,576.55	-2,438.85	1,927.15	1,839.97	87.18	22.106				
15,000.00	12,399.00	14,674.64	12,081.43	62.44	65.06	79.71	-2,676.53	-2,437.97	1,927.03	1,838.11	88.91	21.673				
15,100.00	12,399.00	14,774.63	12,082.75	63.61	66.38	79.75	-2,776.51	-2,437.09	1,926.91	1,836.23	90.68	21.250				
15,200.00	12,399.00	14,874.62	12,084.06	64.81	67.72	79.79	-2,876.49	-2,436.22	1,926.79	1,834.32	92.46	20.838				
15,300.00	12,399.00	14,974.61	12,085.37	66.02	69.07	79.83	-2,976.47	-2,435.34	1,926.67	1,832.39	94.28	20.437				
15,400.00	12,399.00	15,074.60	12,086.69	67.26	70.43	79.87	-3,076.45	-2,434.46	1,926.55	1,830.44	96.11	20.046				
15,500.00	12,399.00	15,174.60	12,088.00	68.51	71.81	79.91	-3,176.43	-2,433.58	1,926.43	1,828.47	97.96	19.665				
15,600.00	12,399.00	15,274.59	12,089.31	69.77	73.20	79.95	-3,276.41	-2,432.70	1,926.31	1,826.48	99.83	19.295				
15,700.00	12,399.00	15,374.58	12,090.62	71.06	74.60	79.99	-3,376.38	-2,431.82	1,926.20	1,824.47	101.72	18.935				
15,800.00	12,399.00	15,474.57	12,091.94	72.35	76.00	80.03	-3,476.36	-2,430.94	1,926.08	1,822.45	103.63	18.586				
15,900.00	12,399.00	15,574.56	12,093.25	73.67	77.42	80.07	-3,576.34	-2,430.06	1,925.97	1,820.41	105.56	18.246				
16,000.00	12,399.00	15,674.55	12,094.56	74.99	78.85	80.11	-3,676.32	-2,429.18	1,925.86	1,818.36	107.50	17.915				
16,100.00	12,399.00	15,774.54	12,095.88	76.33	80.28	80.14	-3,776.30	-2,428.30	1,925.75	1,816.29	109.45	17.594				
16,200.00	12,399.00	15,874.53	12,097.19	77.68	81.73	80.18	-3,876.28	-2,427.42	1,925.64	1,814.21	111.42	17.282				
16,300.00	12,399.00	15,974.53	12,098.50	79.04	83.18	80.22	-3,976.26	-2,426.54	1,925.53	1,812.12	113.41	16.979				
16,400.00	12,399.00	16,074.52	12,099.82	80.41	84.64	80.26	-4,076.24	-2,425.67	1,925.42	1,810.02	115.40	16.685				
16,500.00	12,399.00	16,174.51	12,101.13	81.80	86.10	80.30	-4,176.21	-2,424.79	1,925.31	1,807.90	117.41	16.399				
16,600.00	12,399.00	16,274.50	12,102.44	83.19	87.58	80.34	-4,276.19	-2,423.91	1,925.20	1,805.78	119.43	16.121				
16,700.00	12,399.00	16,374.49	12,103.76	84.59	89.05	80.38	-4,376.17	-2,423.03	1,925.10	1,803.64	121.45	15.850				
16,800.00	12,399.00	16,474.48	12,105.07	86.00	90.54	80.42	-4,476.15	-2,422.15	1,924.99	1,801.50	123.49	15.588				
16,900.00	12,399.00	16,574.47	12,106.38	87.42	92.03	80.46	-4,576.13	-2,421.27	1,924.88	1,799.34	125.54	15.332				
17,000.00	12,399.00	16,674.46	12,107.70	88.85	93.52	80.50	-4,676.11	-2,420.39	1,924.78	1,797.18	127.60	15.084				
17,100.00	12,399.00	16,774.46	12,109.01	90.28	95.02	80.54	-4,776.09	-2,419.51	1,924.68	1,795.01	129.67	14.843				
17,200.00	12,399.00	16,874.45	12,110.32	91.72	96.53	80.57	-4,876.07	-2,418.63	1,924.58	1,792.83	131.75	14.608				
17,300.00	12,399.00	16,974.44	12,111.63	93.17	98.04	80.61	-4,976.05	-2,417.75	1,924.48	1,790.64	133.83	14.380				
17,400.00	12,399.00	17,074.43	12,112.95	94.63	99.56	80.65	-5,076.02	-2,416.87	1,924.38	1,788.45	135.93	14.157				
17,500.00	12,399.00	17,174.42	12,114.26	96.09	101.07	80.69	-5,176.00	-2,415.99	1,924.28	1,786.25	138.03	13.941				
17,600.00	12,399.00	17,274.41	12,115.57	97.56	102.60	80.73	-5,275.98	-2,415.12	1,924.18	1,784.04	140.13	13.731				
17,700.00	12,399.00	17,374.40	12,116.89	99.03	104.13	80.77	-5,375.96	-2,414.24	1,924.08	1,781.83	142.25	13.526				
17,800.00	12,399.00	17,474.40	12,118.20	100.51	105.66	80.81	-5,475.94	-2,413.36	1,923.98	1,779.61	144.37	13.327				
17,900.00	12,399.00	17,574.39	12,119.51	102.00	107.19	80.85	-5,575.92	-2,412.48	1,923.89	1,777.39	146.50	13.133				
18,000.00	12,399.00	17,674.38	12,120.83	103.48	108.73	80.89	-5,675.90	-2,411.60	1,923.79	1,775.16	148.63	12.944				
18,100.00	12,399.00	17,774.37	12,122.14	104.98	110.27	80.93	-5,775.88	-2,410.72	1,923.70	1,772.93	150.77	12.759				
18,200.00	12,399.00	17,874.36	12,123.45	106.48	111.81	80.97	-5,875.85	-2,409.84	1,923.61	1,770.69	152.91	12.580				
18,300.00	12,399.00	17,974.35	12,124.77	107.98	113.36	81.01	-5,975.83	-2,408.96	1,923.51	1,768.45	155.06	12.405				
18,400.00	12,399.00	18,074.34	12,126.08	109.49	114.91	81.04	-6,075.81	-2,408.08	1,923.42	1,766.20	157.22	12.234				
18,500.00	12,399.00	18,174.33	12,127.39	111.00	116.46	81.08	-6,175.79	-2,407.20	1,923.33	1,763.95	159.38	12.068				
18,600.00	12,399.00	18,274.33	12,128.70	112.52	118.02	81.12	-6,275.77	-2,406.32	1,923.24	1,761.70	161.54	11.905				
18,700.00	12,399.00	18,374.32	12,130.02	114.04	119.58	81.16	-6,375.75	-2,405.44	1,923.16	1,759.44	163.71	11.747				
18,800.00	12,399.00	18,474.31	12,131.33	115.56	121.14	81.20	-6,475.73	-2,404.56	1,923.07	1,757.18	165.89	11.593				
18,900.00	12,399.00	18,574.30	12,132.64	117.09	122.70	81.24	-6,575.71	-2,403.69	1,922.98	1,754.91	168.07	11.442				
19,000.00	12,399.00	18,674.29	12,133.96	118.62	124.27	81.28	-6,675.69	-2,402.81	1,922.90	1,752.65	170.25	11.295				
19,100.00	12,399.00	18,774.28	12,135.27	120.15	125.83	81.32	-6,775.66	-2,401.93	1,922.81	1,750.38	172.44	11.151				

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 804H
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 804H	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				
19,200.00	12,399.00	18,874.27	12,136.58	121.69	127.40	81.36	-6,875.64	-2,401.05	1,922.73	1,748.10	174.63	11.011				
19,300.00	12,399.00	18,974.27	12,137.90	123.22	128.98	81.40	-6,975.62	-2,400.17	1,922.64	1,745.82	176.82	10.873				
19,400.00	12,399.00	19,074.26	12,139.21	124.77	130.55	81.44	-7,075.60	-2,399.29	1,922.56	1,743.54	179.02	10.739				
19,500.00	12,399.00	19,174.25	12,140.52	126.31	132.12	81.48	-7,175.58	-2,398.41	1,922.48	1,741.26	181.22	10.609				
19,600.00	12,399.00	19,274.24	12,141.84	127.86	133.70	81.51	-7,275.56	-2,397.53	1,922.40	1,738.98	183.42	10.481				
19,700.00	12,399.00	19,374.23	12,143.15	129.41	135.28	81.55	-7,375.54	-2,396.65	1,922.32	1,736.69	185.63	10.356				
19,800.00	12,399.00	19,474.22	12,144.46	130.96	136.86	81.59	-7,475.52	-2,395.77	1,922.24	1,734.40	187.84	10.233				
19,900.00	12,399.00	19,574.21	12,145.77	132.52	138.44	81.63	-7,575.49	-2,394.89	1,922.16	1,732.11	190.06	10.114				
20,000.00	12,399.00	19,674.20	12,147.09	134.07	140.03	81.67	-7,675.47	-2,394.01	1,922.09	1,729.81	192.27	9.997				
20,100.00	12,399.00	19,774.20	12,148.40	135.63	141.61	81.71	-7,775.45	-2,393.14	1,922.01	1,727.52	194.49	9.882				
20,200.00	12,399.00	19,874.19	12,149.71	137.20	143.20	81.75	-7,875.43	-2,392.26	1,921.94	1,725.22	196.72	9.770				
20,300.00	12,399.00	19,974.18	12,151.03	138.76	144.79	81.79	-7,975.41	-2,391.38	1,921.86	1,722.92	198.94	9.660				
20,400.00	12,399.00	20,074.17	12,152.34	140.32	146.38	81.83	-8,075.39	-2,390.50	1,921.79	1,720.62	201.17	9.553				
20,500.00	12,399.00	20,174.16	12,153.65	141.89	147.97	81.87	-8,175.37	-2,389.62	1,921.72	1,718.32	203.40	9.448				
20,600.00	12,399.00	20,274.15	12,154.97	143.46	149.56	81.91	-8,275.35	-2,388.74	1,921.65	1,716.01	205.63	9.345				
20,700.00	12,399.00	20,374.14	12,156.28	145.03	151.16	81.95	-8,375.33	-2,387.86	1,921.58	1,713.71	207.87	9.244				
20,800.00	12,399.00	20,474.13	12,157.59	146.61	152.75	81.99	-8,475.30	-2,386.98	1,921.51	1,711.40	210.10	9.145				
20,900.00	12,399.00	20,574.13	12,158.91	148.18	154.35	82.02	-8,575.28	-2,386.10	1,921.44	1,709.09	212.34	9.049				
21,000.00	12,399.00	20,674.12	12,160.22	149.76	155.95	82.06	-8,675.26	-2,385.22	1,921.37	1,706.78	214.59	8.954				
21,100.00	12,399.00	20,774.11	12,161.53	151.34	157.54	82.10	-8,775.24	-2,384.34	1,921.30	1,704.47	216.83	8.861				
21,200.00	12,399.00	20,874.10	12,162.84	152.92	159.14	82.14	-8,875.22	-2,383.46	1,921.24	1,702.16	219.08	8.770				
21,300.00	12,399.00	20,974.09	12,164.16	154.50	160.75	82.18	-8,975.20	-2,382.59	1,921.17	1,699.85	221.32	8.680				
21,400.00	12,399.00	21,074.08	12,165.47	156.08	162.35	82.22	-9,075.18	-2,381.71	1,921.11	1,697.53	223.57	8.593				
21,500.00	12,399.00	21,174.07	12,166.78	157.66	163.95	82.26	-9,175.16	-2,380.83	1,921.04	1,695.22	225.82	8.507				
21,600.00	12,399.00	21,274.07	12,168.10	159.25	165.55	82.30	-9,275.14	-2,379.95	1,920.98	1,692.90	228.08	8.422				
21,700.00	12,399.00	21,374.06	12,169.41	160.84	167.16	82.34	-9,375.11	-2,379.07	1,920.92	1,690.59	230.33	8.340				
21,800.00	12,399.00	21,474.05	12,170.72	162.42	168.76	82.38	-9,475.09	-2,378.19	1,920.86	1,688.27	232.59	8.259				
21,900.00	12,399.00	21,574.04	12,172.04	164.01	170.37	82.42	-9,575.07	-2,377.31	1,920.80	1,685.95	234.85	8.179				
22,000.00	12,399.00	21,674.03	12,173.35	165.60	171.98	82.46	-9,675.05	-2,376.43	1,920.74	1,683.63	237.11	8.101				
22,100.00	12,399.00	21,774.02	12,174.66	167.19	173.58	82.50	-9,775.03	-2,375.55	1,920.68	1,681.31	239.37	8.024				
22,200.00	12,399.00	21,874.01	12,175.98	168.79	175.19	82.54	-9,875.01	-2,374.67	1,920.63	1,678.99	241.64	7.948				
22,300.00	12,399.00	21,974.00	12,177.29	170.38	176.80	82.57	-9,974.99	-2,373.79	1,920.57	1,676.67	243.90	7.874				
22,400.00	12,399.00	22,074.00	12,178.60	171.98	178.41	82.61	-10,074.97	-2,372.91	1,920.52	1,674.35	246.17	7.802				
22,500.00	12,399.00	22,173.99	12,179.91	173.57	180.02	82.65	-10,174.94	-2,372.04	1,920.46	1,672.02	248.44	7.730				
22,600.00	12,399.00	22,273.98	12,181.23	175.17	181.64	82.69	-10,274.92	-2,371.16	1,920.41	1,669.70	250.71	7.660				
22,700.00	12,399.00	22,373.97	12,182.54	176.77	183.25	82.73	-10,374.90	-2,370.28	1,920.36	1,667.38	252.98	7.591				
22,800.00	12,399.00	22,473.96	12,183.85	178.37	184.86	82.77	-10,474.88	-2,369.40	1,920.30	1,665.05	255.25	7.523				
22,900.00	12,399.00	22,573.95	12,185.17	179.97	186.48	82.81	-10,574.86	-2,368.52	1,920.25	1,662.73	257.53	7.457				
23,000.00	12,399.00	22,673.94	12,186.48	181.57	188.09	82.85	-10,674.84	-2,367.64	1,920.20	1,660.40	259.80	7.391				
23,100.00	12,399.00	22,773.94	12,187.79	183.17	189.70	82.89	-10,774.82	-2,366.76	1,920.16	1,658.08	262.08	7.327				
23,200.00	12,399.00	22,873.93	12,189.11	184.77	191.32	82.93	-10,874.80	-2,365.88	1,920.11	1,655.75	264.35	7.263				
23,300.00	12,399.00	22,973.92	12,190.42	186.38	192.94	82.97	-10,974.78	-2,365.00	1,920.06	1,653.43	266.63	7.201				
23,400.00	12,399.00	23,073.91	12,191.73	187.98	194.55	83.01	-11,074.75	-2,364.12	1,920.02	1,651.10	268.91	7.140				
23,500.00	12,399.00	23,173.90	12,193.05	189.58	196.17	83.05	-11,174.73	-2,363.24	1,919.97	1,648.77	271.20	7.080				
23,600.00	12,399.00	23,273.89	12,194.36	191.19	197.79	83.09	-11,274.71	-2,362.36	1,919.93	1,646.45	273.48	7.020				
23,700.00	12,399.00	23,373.88	12,195.67	192.80	199.41	83.12	-11,374.69	-2,361.49	1,919.88	1,644.12	275.76	6.962				
23,800.00	12,399.00	23,473.87	12,196.98	194.41	201.03	83.16	-11,474.67	-2,360.61	1,919.84	1,641.79	278.05	6.905				
23,862.65	12,399.00	23,536.51	12,197.81	195.41	201.98	83.19	-11,537.30	-2,360.06	1,919.81	1,640.38	279.43	6.870				
23,874.38	12,399.00	23,546.50	12,197.94	195.60	202.13	83.19	-11,547.28	-2,359.97	1,919.81	1,640.13	279.68	6.864 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 804H
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 804H	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				
0.00	0.00	23.50	23.50	0.00	0.03	-73.42	506.03	-1,699.26	1,773.01							
100.00	100.00	116.51	116.49	0.13	0.17	-73.36	507.78	-1,699.23	1,773.50	1,773.30	0.20	8,828.576				
200.00	200.00	209.42	209.34	0.48	0.50	-73.26	510.94	-1,699.16	1,774.40	1,773.71	0.69	2,568.850				
300.00	300.00	297.38	297.23	0.84	0.81	-73.16	514.46	-1,699.20	1,775.61	1,774.44	1.17	1,517.799				
400.00	400.00	394.70	394.45	1.20	1.17	-73.02	519.12	-1,699.58	1,777.38	1,775.70	1.67	1,062.026				
500.00	500.00	487.63	487.23	1.56	1.51	-72.86	524.25	-1,699.94	1,779.37	1,777.21	2.17	820.911				
600.00	600.00	570.87	570.30	1.92	1.81	-72.71	529.58	-1,700.83	1,782.26	1,779.62	2.64	675.618				
700.00	700.00	742.63	741.93	2.28	2.43	-72.54	535.19	-1,701.44	1,783.70	1,780.37	3.33	535.998				
800.00	800.00	855.97	855.25	2.63	2.82	-72.50	535.85	-1,699.83	1,782.52	1,778.67	3.86	461.960				
900.00	900.00	955.67	954.94	2.99	3.17	-72.47	536.26	-1,698.07	1,780.96	1,776.60	4.36	408.937				
1,000.00	1,000.00	1,066.16	1,065.41	3.35	3.55	-72.46	536.16	-1,695.87	1,779.03	1,774.15	4.88	364.729				
1,100.00	1,100.00	1,172.78	1,171.99	3.71	3.92	-72.43	536.18	-1,693.21	1,776.66	1,771.26	5.39	329.422				
1,200.00	1,200.00	1,273.02	1,272.18	4.07	4.27	-72.38	536.73	-1,690.08	1,773.85	1,767.95	5.90	300.850				
1,300.00	1,300.00	1,352.55	1,351.69	4.43	4.55	-72.35	537.23	-1,688.24	1,771.84	1,765.49	6.35	279.092				
1,400.00	1,400.00	1,439.61	1,438.74	4.79	4.68	-72.33	537.52	-1,687.36	1,770.95	1,764.26	6.69	264.676				
1,500.00	1,500.00	1,540.47	1,539.60	5.14	4.71	-72.32	537.71	-1,686.54	1,770.23	1,763.26	6.97	253.912				
1,600.00	1,600.00	1,640.24	1,639.37	5.50	4.76	-72.30	537.89	-1,685.70	1,769.49	1,762.21	7.28	243.174				
1,700.00	1,700.00	1,738.56	1,737.68	5.86	4.84	-72.30	537.70	-1,685.06	1,768.80	1,761.20	7.60	232.694				
1,800.00	1,800.00	1,835.50	1,834.62	6.22	4.94	-72.31	537.42	-1,684.58	1,768.25	1,760.30	7.94	222.606				
1,900.00	1,900.00	1,929.84	1,928.96	6.58	5.06	-72.31	537.26	-1,684.32	1,767.93	1,759.64	8.30	213.038				
2,000.00	2,000.00	2,028.32	2,027.44	6.94	5.20	-72.31	537.31	-1,684.24	1,767.87	1,759.20	8.67	203.899				
2,100.00	2,099.99	2,152.16	2,151.28	7.29	5.41	2.30	537.12	-1,683.53	1,766.01	1,756.93	9.08	194.587				
2,200.00	2,199.91	2,320.56	2,319.58	7.64	5.74	2.33	535.85	-1,678.17	1,758.88	1,749.34	9.54	184.360				
2,300.00	2,299.69	2,549.80	2,547.67	7.99	6.27	2.24	526.02	-1,658.36	1,742.15	1,732.08	10.08	172.901				
2,400.00	2,399.27	2,651.62	2,648.62	8.34	6.54	2.18	519.69	-1,646.62	1,720.27	1,709.78	10.50	163.896				
2,458.69	2,457.58	2,710.56	2,707.04	8.55	6.70	2.16	516.16	-1,639.72	1,706.18	1,695.44	10.75	158.773				
2,500.00	2,498.60	2,766.18	2,762.14	8.70	6.85	2.13	512.81	-1,632.89	1,695.73	1,684.80	10.94	155.044				
2,600.00	2,597.88	2,906.99	2,901.27	9.06	7.28	2.04	503.60	-1,613.29	1,668.79	1,657.39	11.40	146.348				
2,700.00	2,697.16	3,029.46	3,021.75	9.43	7.68	1.92	493.44	-1,593.76	1,639.35	1,627.49	11.86	138.246				
2,800.00	2,796.44	3,118.86	3,109.61	9.80	7.98	1.80	485.19	-1,579.45	1,609.66	1,597.37	12.29	130.952				
2,900.00	2,895.72	3,203.42	3,192.80	10.17	8.28	1.69	477.81	-1,566.24	1,580.49	1,567.77	12.73	124.186				
3,000.00	2,995.00	3,288.33	3,276.48	10.54	8.58	1.61	471.17	-1,553.49	1,552.13	1,538.97	13.17	117.879				
3,100.00	3,094.28	3,422.39	3,408.48	10.92	9.07	1.44	460.10	-1,532.82	1,523.49	1,509.84	13.65	111.615				
3,200.00	3,193.56	3,562.18	3,545.08	11.30	9.63	1.18	445.09	-1,507.25	1,491.15	1,477.02	14.13	105.517				
3,300.00	3,292.84	3,649.00	3,629.75	11.68	9.99	1.01	435.68	-1,490.55	1,458.06	1,443.48	14.59	99.943				
3,400.00	3,392.12	3,731.94	3,710.77	12.06	10.33	0.86	427.37	-1,474.88	1,425.55	1,410.50	15.05	94.733				
3,500.00	3,491.40	3,808.49	3,785.74	12.45	10.65	0.75	420.39	-1,461.06	1,394.07	1,378.56	15.51	89.898				
3,600.00	3,590.68	3,904.11	3,879.57	12.83	11.05	0.60	412.03	-1,444.61	1,363.48	1,347.51	15.98	85.335				
3,700.00	3,689.96	4,013.78	3,986.95	13.22	11.51	0.37	400.99	-1,425.25	1,332.13	1,315.67	16.46	80.947				
3,800.00	3,789.24	4,105.99	4,077.08	13.60	11.92	0.12	390.73	-1,408.74	1,300.26	1,283.33	16.93	76.787				
3,900.00	3,888.52	4,205.42	4,174.30	13.99	12.35	-0.15	379.91	-1,390.90	1,268.47	1,251.05	17.41	72.845				
4,000.00	3,987.80	4,301.27	4,267.99	14.38	12.78	-0.39	370.07	-1,373.24	1,236.39	1,218.50	17.89	69.094				
4,100.00	4,087.08	4,398.37	4,362.94	14.77	13.21	-0.57	361.45	-1,354.84	1,204.21	1,185.84	18.38	65.535				
4,200.00	4,186.36	4,489.83	4,452.43	15.16	13.62	-0.63	355.54	-1,336.93	1,172.05	1,153.19	18.86	62.158				
4,300.00	4,285.64	4,567.36	4,528.43	15.56	13.96	-0.64	351.59	-1,322.12	1,140.69	1,121.35	19.34	58.976				
4,400.00	4,384.92	4,640.13	4,599.99	15.95	14.28	-0.71	347.12	-1,309.72	1,111.01	1,091.18	19.83	56.027				
4,500.00	4,484.20	4,713.64	4,672.51	16.34	14.59	-0.88	341.20	-1,299.21	1,083.40	1,063.08	20.32	53.322				
4,600.00	4,583.48	4,794.57	4,752.52	16.74	14.92	-1.11	334.45	-1,289.20	1,057.54	1,036.73	20.81	50.826				
4,700.00	4,682.76	4,896.66	4,853.56	17.13	15.33	-1.38	326.73	-1,276.78	1,032.12	1,010.82	21.30	48.455				
4,800.00	4,782.04	4,999.31	4,955.08	17.53	15.75	-1.58	320.22	-1,263.08	1,005.87	984.08	21.79	46.157				
4,900.00	4,881.32	5,090.19	5,045.02	17.92	16.12	-1.70	315.40	-1,250.99	979.93	957.64	22.29	43.972				
5,000.00	4,980.60	5,238.21	5,191.12	18.32	16.75	-2.10	304.34	-1,230.10	953.33	930.58	22.74	41.915				

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 804H
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 804H	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		
5,100.00	5,079.88	5,361.86	5,311.70	18.71	17.33	-2.66	290.64	-1,206.42	920.45	897.25	23.20	39.673		
5,200.00	5,179.16	5,456.09	5,403.36	19.11	17.79	-3.11	280.04	-1,187.30	886.64	862.94	23.70	37.407		
5,300.00	5,278.44	5,549.88	5,494.61	19.51	18.25	-3.56	269.97	-1,168.13	852.86	828.65	24.21	35.234		
5,400.00	5,377.72	5,643.03	5,585.30	19.90	18.71	-4.01	260.58	-1,149.05	819.21	794.50	24.71	33.150		
5,500.00	5,477.00	5,736.95	5,676.75	20.30	19.16	-4.45	251.55	-1,129.67	785.57	760.35	25.22	31.151		
5,600.00	5,576.28	5,824.07	5,761.72	20.70	19.59	-4.85	243.92	-1,111.98	752.45	726.71	25.74	29.228		
5,700.00	5,675.56	5,911.00	5,846.73	21.10	20.00	-5.26	236.75	-1,095.31	720.51	694.24	26.27	27.423		
5,800.00	5,774.84	6,005.90	5,939.65	21.50	20.44	-5.71	229.27	-1,077.52	689.11	662.33	26.78	25.731		
5,900.00	5,874.12	6,101.64	6,033.35	21.90	20.90	-6.18	222.17	-1,059.20	657.45	630.16	27.29	24.094		
6,000.00	5,973.40	6,194.00	6,123.71	22.30	21.33	-6.65	215.48	-1,041.31	625.64	597.84	27.81	22.500		
6,100.00	6,072.68	6,277.81	6,205.88	22.70	21.72	-7.15	209.22	-1,026.03	594.97	566.60	28.37	20.974		
6,200.00	6,171.96	6,368.79	6,295.34	23.10	22.14	-7.80	202.19	-1,011.05	565.97	537.06	28.91	19.580		
6,300.00	6,271.24	6,467.00	6,391.93	23.50	22.58	-8.58	194.54	-994.98	537.15	507.73	29.42	18.258		
6,400.00	6,370.52	6,563.96	6,487.20	23.90	23.02	-9.45	186.88	-978.67	507.96	478.02	29.94	16.964		
6,500.00	6,469.80	6,660.79	6,582.30	24.30	23.47	-10.40	179.35	-962.08	478.61	448.14	30.47	15.707		
6,600.00	6,569.08	6,741.48	6,661.71	24.70	23.83	-11.33	172.85	-949.36	450.70	419.61	31.10	14.493		
6,700.00	6,668.36	6,828.24	6,747.47	25.10	24.20	-12.46	165.93	-938.24	425.80	394.10	31.70	13.434		
6,800.00	6,767.64	6,911.95	6,830.51	25.50	24.53	-13.53	160.22	-929.37	403.37	371.07	32.30	12.489		
6,900.00	6,866.91	7,000.15	6,918.29	25.90	24.86	-14.73	154.48	-923.01	384.39	351.52	32.88	11.692		
6,934.75	6,901.42	7,032.48	6,950.50	26.04	24.98	-15.19	152.46	-921.02	378.23	345.15	33.07	11.436		
7,000.00	6,966.26	7,096.61	7,014.42	26.30	25.21	-15.99	148.98	-917.27	367.44	334.00	33.44	10.989		
7,100.00	7,065.85	7,195.51	7,113.09	26.68	25.55	-16.86	145.79	-911.36	352.92	318.94	33.98	10.387		
7,200.00	7,165.65	7,293.76	7,211.15	27.05	25.89	-17.50	143.65	-905.64	341.11	306.60	34.51	9.885		
7,300.00	7,265.57	7,393.03	7,310.24	27.41	26.24	-18.09	141.30	-900.11	332.06	297.03	35.03	9.479		
7,393.44	7,359.00	7,485.40	7,402.45	27.72	26.55	-93.12	139.31	-895.03	325.95	290.44	35.51	9.179		
7,400.00	7,365.56	7,491.87	7,408.91	27.74	26.57	-93.14	139.19	-894.69	325.61	290.07	35.54	9.161		
7,500.00	7,465.56	7,584.85	7,501.78	28.08	26.88	-93.39	138.03	-890.61	321.32	285.28	36.04	8.915		
7,600.00	7,565.56	7,679.84	7,596.75	28.41	27.17	-93.34	138.41	-888.64	319.21	282.70	36.51	8.744		
7,700.00	7,665.56	7,779.38	7,696.27	28.74	27.46	-93.00	140.34	-887.47	317.94	280.98	36.95	8.604		
7,800.00	7,765.56	7,880.19	7,797.06	29.07	27.75	-92.69	142.15	-886.11	316.49	279.09	37.40	8.462		
7,900.00	7,865.56	7,980.40	7,897.25	29.41	28.05	-92.52	143.17	-884.52	314.87	277.00	37.87	8.315		
8,000.00	7,965.56	8,083.31	8,000.13	29.74	28.37	-92.42	143.79	-882.38	312.77	274.43	38.34	8.158		
8,100.00	8,065.56	8,183.41	8,100.19	30.08	28.69	-92.43	143.87	-879.68	310.06	271.24	38.82	7.987		
8,200.00	8,165.56	8,277.51	8,194.27	30.41	28.99	-92.48	143.68	-878.15	308.44	269.15	39.29	7.849		
8,300.00	8,265.56	8,375.24	8,292.00	30.75	29.28	-92.57	143.16	-877.88	308.19	268.43	39.77	7.750		
8,340.39	8,305.95	8,416.84	8,333.61	30.89	29.41	-92.65	142.75	-877.79	308.12	268.15	39.97	7.709		
8,400.00	8,365.56	8,476.24	8,393.00	31.09	29.58	-92.79	142.01	-877.43	307.79	267.54	40.26	7.646		
8,414.16	8,379.73	8,489.45	8,406.21	31.13	29.62	-92.82	141.88	-877.40	307.77	267.45	40.32	7.633 CC		
8,500.00	8,465.56	8,571.66	8,488.41	31.42	29.86	-92.86	141.62	-878.10	308.51	267.80	40.71	7.578		
8,600.00	8,565.56	8,673.19	8,589.92	31.76	30.14	-93.16	139.94	-878.69	309.17	267.97	41.20	7.504		
8,700.00	8,665.56	8,770.43	8,687.13	32.10	30.43	-93.53	137.91	-879.85	310.48	268.80	41.68	7.450		
8,800.00	8,765.56	8,870.61	8,787.26	32.44	30.72	-94.05	134.98	-881.18	312.00	269.83	42.17	7.398		
8,900.00	8,865.56	8,970.68	8,887.23	32.78	31.02	-94.85	130.47	-882.43	313.59	270.91	42.69	7.346		
9,000.00	8,965.56	9,070.41	8,986.81	33.12	31.32	-95.82	125.07	-883.44	315.11	271.89	43.21	7.292		
9,100.00	9,065.56	9,170.02	9,086.25	33.45	31.62	-96.79	119.54	-884.66	316.94	273.20	43.74	7.246		
9,200.00	9,165.56	9,271.02	9,187.08	33.79	31.94	-97.79	113.79	-885.68	318.66	274.39	44.28	7.197		
9,300.00	9,265.56	9,371.90	9,287.81	34.14	32.25	-98.78	108.14	-886.31	320.09	275.27	44.81	7.143		
9,400.00	9,365.56	9,473.01	9,388.76	34.48	32.57	-99.74	102.63	-886.63	321.28	275.93	45.35	7.084		
9,500.00	9,465.56	9,574.19	9,489.79	34.82	32.90	-100.72	97.10	-886.52	322.15	276.25	45.89	7.020		
9,600.00	9,565.56	9,674.08	9,589.49	35.16	33.23	-101.78	91.07	-886.06	322.87	276.43	46.44	6.953		
9,700.00	9,665.56	9,776.83	9,692.12	35.50	33.56	-102.63	86.30	-885.49	323.31	276.33	46.98	6.882		
9,800.00	9,765.56	9,881.30	9,796.58	35.84	33.89	-102.78	85.64	-884.56	322.58	275.11	47.47	6.795		

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 804H
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 804H	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	9,865.56	9,982.42	9,897.68	36.19	34.21	-102.59	87.08	-883.00	320.77	272.83	47.94	6.691		
9,978.27	9,943.84	10,055.13	9,970.34	36.45	34.42	-102.14	89.66	-882.91	320.08	271.81	48.27	6.631		
10,000.00	9,965.56	10,076.31	9,991.49	36.53	34.48	-101.95	90.71	-883.16	320.10	271.74	48.36	6.619		
10,100.00	10,065.56	10,174.97	10,090.05	36.87	34.76	-101.13	95.12	-884.48	320.51	271.74	48.77	6.571		
10,200.00	10,165.56	10,273.48	10,188.49	37.21	35.04	-100.53	98.27	-885.92	321.35	272.15	49.20	6.532		
10,300.00	10,265.56	10,373.60	10,288.52	37.56	35.32	-99.82	101.95	-887.98	322.73	273.10	49.63	6.503		
10,400.00	10,365.56	10,478.28	10,392.99	37.90	35.61	-98.64	108.46	-889.34	323.01	272.96	50.05	6.454		
10,500.00	10,465.56	10,580.92	10,495.38	38.25	35.90	-97.37	115.63	-889.66	322.34	271.88	50.46	6.388		
10,600.00	10,565.56	10,682.91	10,597.13	38.59	36.20	-96.16	122.55	-889.11	321.01	270.13	50.88	6.309		
10,700.00	10,665.56	10,783.43	10,697.46	38.94	36.50	-95.08	128.72	-888.01	319.31	268.01	51.30	6.224		
10,800.00	10,765.56	10,883.32	10,797.17	39.28	36.80	-94.05	134.58	-886.83	317.66	265.93	51.73	6.140		
10,900.00	10,865.56	10,981.95	10,895.63	39.63	37.10	-93.06	140.13	-885.77	316.24	264.08	52.17	6.062		
11,000.00	10,965.56	11,079.70	10,993.31	39.97	37.40	-92.39	143.85	-885.19	315.47	262.86	52.61	5.996		
11,048.29	11,013.85	11,126.75	11,040.35	40.14	37.54	-92.23	144.70	-885.13	315.37	262.54	52.83	5.969		
11,100.00	11,065.56	11,177.06	11,090.66	40.32	37.70	-92.14	145.23	-885.26	315.49	262.41	53.07	5.944		
11,200.00	11,165.56	11,271.86	11,185.44	40.66	37.98	-92.14	145.17	-886.15	316.44	262.92	53.52	5.912		
11,300.00	11,265.56	11,357.41	11,270.65	41.01	38.25	-93.22	139.01	-889.59	320.82	266.89	53.93	5.949		
11,400.00	11,365.56	11,443.31	11,354.53	41.36	38.52	-96.13	122.01	-895.81	329.83	275.50	54.33	6.071		
11,500.00	11,465.56	11,532.04	11,436.77	41.70	38.82	-101.47	89.64	-902.00	343.24	288.47	54.78	6.266		
11,600.00	11,565.56	11,606.50	11,501.21	42.05	39.10	-107.24	52.63	-906.22	363.58	308.80	54.78	6.637		
11,700.00	11,665.56	11,687.34	11,567.67	42.40	39.41	-113.84	6.80	-909.85	391.83	337.02	54.81	7.148		
11,800.00	11,765.56	11,750.41	11,616.29	42.74	39.67	-119.18	-33.32	-910.87	428.15	374.02	54.13	7.910		
11,860.48	11,826.04	11,783.78	11,640.35	42.95	39.82	-122.06	-56.44	-910.83	454.69	401.20	53.50	8.499		
11,900.00	11,865.53	11,806.00	11,655.73	43.08	39.92	54.96	-72.47	-910.61	473.17	420.10	53.08	8.915		
11,950.00	11,915.20	11,835.44	11,675.30	43.24	40.07	50.76	-94.45	-909.84	496.26	443.72	52.54	9.445		
12,000.00	11,964.19	11,863.42	11,692.99	43.39	40.21	47.09	-116.09	-908.47	518.58	466.66	51.92	9.989		
12,050.00	12,012.13	11,887.76	11,707.56	43.53	40.33	44.04	-135.53	-907.11	540.20	489.07	51.14	10.564		
12,100.00	12,058.65	11,900.00	11,714.59	43.66	40.40	41.86	-145.52	-906.41	561.17	511.23	49.94	11.236		
12,150.00	12,103.40	11,931.95	11,731.92	43.78	40.57	39.15	-172.31	-904.83	580.85	531.43	49.42	11.754		
12,200.00	12,146.04	11,947.00	11,739.56	43.90	40.65	37.38	-185.27	-904.29	599.74	551.37	48.37	12.400		
12,250.00	12,186.24	11,972.96	11,751.98	44.00	40.79	35.58	-208.05	-903.93	617.37	569.67	47.70	12.942		
12,300.00	12,223.71	11,994.00	11,761.37	44.09	40.90	34.19	-226.88	-904.32	633.81	586.87	46.94	13.503		
12,350.00	12,258.14	12,015.03	11,770.14	44.17	41.01	33.06	-245.97	-905.25	648.83	602.59	46.24	14.032		
12,400.00	12,289.29	12,042.00	11,780.50	44.24	41.15	32.12	-270.80	-907.14	662.31	616.54	45.77	14.471		
12,450.00	12,316.92	12,058.83	11,786.36	44.30	41.23	31.43	-286.50	-908.55	674.07	628.96	45.11	14.943		
12,500.00	12,340.80	12,089.00	11,795.41	44.36	41.39	30.86	-315.18	-911.03	684.33	639.49	44.83	15.264		
12,550.00	12,360.77	12,102.46	11,798.82	44.43	41.46	30.44	-328.16	-912.08	692.62	648.34	44.28	15.642		
12,600.00	12,376.67	12,136.00	11,805.56	44.50	41.64	30.14	-360.92	-914.37	699.48	655.30	44.18	15.833		
12,650.00	12,388.38	12,136.00	11,805.56	44.59	41.64	29.90	-360.92	-914.37	704.31	660.64	43.67	16.129		
12,700.00	12,395.81	12,180.20	11,811.68	44.69	41.89	29.95	-404.61	-917.00	706.57	662.74	43.84	16.118		
12,750.00	12,398.90	12,209.85	11,814.55	44.81	42.06	30.12	-434.07	-918.73	706.75	662.86	43.90	16.100		
12,760.48	12,399.00	12,216.06	11,815.03	44.83	42.10	30.18	-440.26	-919.09	706.50	662.58	43.92	16.086		
12,800.00	12,399.00	12,262.00	11,817.18	44.94	42.37	30.48	-486.06	-921.67	706.38	662.19	44.19	15.984		
12,827.05	12,399.00	12,262.00	11,817.18	45.02	42.37	30.48	-486.06	-921.67	705.87	661.73	44.14	15.992		
12,900.00	12,399.00	12,319.18	11,818.09	45.25	42.73	30.77	-543.15	-924.74	707.12	662.67	44.44	15.911		
13,000.00	12,399.00	12,407.88	11,818.15	45.62	43.33	31.13	-631.74	-929.03	710.08	665.14	44.94	15.801		
13,100.00	12,399.00	12,516.73	11,815.55	46.05	44.12	31.30	-740.52	-931.99	714.11	668.63	45.48	15.703		
13,200.00	12,399.00	12,620.74	11,813.37	46.53	44.95	31.23	-844.50	-931.15	715.98	670.03	45.95	15.583		
13,300.00	12,399.00	12,752.86	11,811.35	47.07	46.09	30.95	-976.52	-927.02	716.32	669.79	46.53	15.396		
13,400.00	12,399.00	12,852.76	11,811.98	47.65	47.01	30.75	-1,076.34	-922.77	714.10	667.08	47.02	15.187		
13,500.00	12,399.00	12,947.91	11,812.49	48.29	47.92	30.55	-1,171.39	-918.66	711.95	664.43	47.51	14.984		
13,600.00	12,399.00	13,038.38	11,811.56	48.97	48.82	30.27	-1,261.75	-914.19	710.84	662.86	47.97	14.817		

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 804H
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 804H	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				
13,622.70	12,399.00	13,058.32	11,811.14	49.14	49.03	30.19	-1,281.66	-913.19	710.79	662.71	48.08	14.784				
13,700.00	12,399.00	13,136.42	11,808.95	49.70	49.83	29.90	-1,359.63	-909.41	711.19	662.72	48.47	14.673				
13,800.00	12,399.00	13,253.97	11,808.18	50.47	51.09	29.40	-1,476.91	-901.56	708.78	659.74	49.04	14.452				
13,900.00	12,399.00	13,336.74	11,807.15	51.29	52.01	29.04	-1,559.50	-896.23	707.24	657.75	49.50	14.289				
13,902.91	12,399.00	13,338.96	11,807.11	51.31	52.03	29.03	-1,561.72	-896.12	707.24	657.73	49.51	14.284				
14,000.00	12,399.00	13,417.31	11,804.84	52.14	52.90	28.83	-1,640.00	-893.84	708.75	658.70	50.05	14.160				
14,100.00	12,399.00	13,512.78	11,801.08	53.03	53.99	28.63	-1,735.38	-892.02	711.76	661.05	50.71	14.037				
14,200.00	12,399.00	13,612.45	11,797.27	53.95	55.14	28.48	-1,834.97	-891.09	715.15	663.71	51.44	13.903				
14,300.00	12,399.00	13,713.04	11,794.60	54.91	56.31	28.50	-1,935.52	-891.74	718.27	665.99	52.28	13.740				
14,400.00	12,399.00	13,818.85	11,791.60	55.90	57.57	28.52	-2,041.29	-892.60	721.65	668.48	53.17	13.572				
14,500.00	12,399.00	13,929.03	11,791.57	56.93	58.91	28.71	-2,151.45	-894.33	722.85	668.63	54.21	13.333				
14,600.00	12,399.00	14,015.73	11,791.05	57.98	59.97	28.83	-2,238.14	-895.43	724.51	669.39	55.12	13.145				
14,700.00	12,399.00	14,121.21	11,788.50	59.06	61.29	28.92	-2,343.57	-897.11	727.92	671.80	56.13	12.969				
14,800.00	12,399.00	14,231.62	11,788.21	60.16	62.69	29.03	-2,453.97	-897.80	728.90	671.70	57.20	12.742				
14,900.00	12,399.00	14,339.18	11,788.02	61.29	64.09	29.03	-2,561.53	-896.83	729.11	670.90	58.21	12.525				
15,000.00	12,399.00	14,443.91	11,788.02	62.44	65.47	28.95	-2,666.23	-894.50	728.51	669.34	59.17	12.312				
15,100.00	12,399.00	14,568.94	11,790.24	63.61	67.16	28.72	-2,791.10	-888.78	725.09	664.93	60.16	12.052				
15,200.00	12,399.00	14,656.58	11,792.69	64.81	68.35	28.60	-2,878.62	-884.89	721.05	660.02	61.02	11.816				
15,271.27	12,399.00	14,708.00	11,792.97	65.67	69.06	28.55	-2,930.02	-883.42	720.06	658.46	61.60	11.689				
15,300.00	12,399.00	14,730.16	11,792.72	66.02	69.36	28.52	-2,952.17	-882.99	720.21	658.37	61.84	11.646				
15,400.00	12,399.00	14,817.00	11,790.68	67.26	70.55	28.41	-3,038.98	-881.61	722.01	659.28	62.73	11.510				
15,500.00	12,399.00	14,904.88	11,786.84	68.51	71.77	28.22	-3,126.75	-880.15	725.54	661.97	63.57	11.412				
15,600.00	12,399.00	14,993.68	11,781.45	69.77	73.01	28.00	-3,215.38	-878.94	730.72	666.31	64.41	11.346				
15,700.00	12,399.00	15,108.24	11,774.72	71.06	74.61	27.76	-3,329.74	-877.82	735.96	670.59	65.38	11.257				
15,800.00	12,399.00	15,240.14	11,772.99	72.35	76.47	27.75	-3,461.60	-877.35	737.32	670.69	66.63	11.065				
15,900.00	12,399.00	15,345.25	11,775.47	73.67	77.96	28.00	-3,566.68	-878.65	736.27	668.32	67.95	10.836				
16,000.00	12,399.00	15,450.96	11,778.39	74.99	79.46	28.29	-3,672.33	-880.29	735.04	665.73	69.32	10.604				
16,100.00	12,399.00	15,558.83	11,782.92	76.33	81.00	28.66	-3,780.09	-882.06	732.60	661.83	70.77	10.352				
16,200.00	12,399.00	15,677.18	11,789.83	77.68	82.72	29.08	-3,898.23	-883.17	728.41	656.07	72.34	10.069				
16,300.00	12,399.00	15,772.08	11,795.37	79.04	84.10	29.29	-3,992.96	-882.18	723.29	649.65	73.64	9.821				
16,400.00	12,399.00	15,857.00	11,798.45	80.41	85.36	29.32	-4,077.79	-880.06	719.42	644.67	74.75	9.624				
16,500.00	12,399.00	15,941.92	11,799.44	81.80	86.61	29.26	-4,162.67	-877.81	717.64	641.86	75.78	9.470				
16,600.00	12,399.00	16,042.43	11,799.52	83.19	88.09	29.21	-4,263.17	-876.09	717.21	640.30	76.91	9.326				
16,700.00	12,399.00	16,137.67	11,800.42	84.59	89.50	29.32	-4,358.40	-876.14	716.90	638.75	78.15	9.173				
16,744.55	12,399.00	16,193.31	11,801.49	85.22	90.32	29.44	-4,414.03	-876.75	716.62	637.76	78.86	9.087				
16,800.00	12,399.00	16,258.01	11,803.92	86.00	91.28	29.62	-4,478.68	-877.29	715.28	635.55	79.73	8.971				
16,900.00	12,399.00	16,356.99	11,808.03	87.42	92.76	29.90	-4,577.58	-878.05	712.55	631.35	81.20	8.775				
17,000.00	12,399.00	16,468.13	11,812.68	88.85	94.42	30.21	-4,688.61	-878.70	709.78	627.03	82.76	8.577				
17,100.00	12,399.00	16,582.63	11,820.22	90.28	96.15	30.50	-4,802.85	-877.17	703.83	619.54	84.29	8.350				
17,200.00	12,399.00	16,689.17	11,826.93	91.72	97.77	30.61	-4,909.12	-873.75	697.29	611.67	85.62	8.144				
17,300.00	12,399.00	16,817.97	11,836.73	93.17	99.76	30.55	-5,037.29	-865.92	688.21	601.47	86.74	7.934				
17,400.00	12,399.00	16,900.00	11,843.03	94.63	101.03	30.44	-5,118.86	-859.83	678.28	590.46	87.82	7.723				
17,500.00	12,399.00	16,995.00	11,849.33	96.09	102.50	30.32	-5,213.44	-853.58	669.73	580.85	88.88	7.535				
17,600.00	12,399.00	17,076.75	11,853.61	97.56	103.76	30.24	-5,294.96	-849.21	662.99	573.01	89.97	7.369				
17,700.00	12,399.00	17,167.54	11,857.36	99.03	105.16	30.25	-5,385.62	-846.24	658.26	567.09	91.17	7.220				
17,800.00	12,399.00	17,267.82	11,861.93	100.51	106.70	30.44	-5,485.79	-845.05	654.23	561.62	92.61	7.064				
17,900.00	12,399.00	17,380.10	11,867.42	102.00	108.44	30.52	-5,597.88	-841.83	649.06	555.12	93.94	6.909				
18,000.00	12,399.00	17,470.56	11,872.56	103.48	109.84	30.70	-5,688.18	-840.19	643.74	548.38	95.36	6.751				
18,100.00	12,399.00	17,576.14	11,878.52	104.98	111.47	30.91	-5,793.57	-838.37	638.51	541.66	96.85	6.593				
18,200.00	12,399.00	17,665.85	11,883.50	106.48	112.86	31.14	-5,883.13	-837.39	633.71	535.38	98.34	6.444				
18,300.00	12,399.00	17,751.00	11,886.75	107.98	114.17	31.42	-5,968.21	-838.26	631.42	531.52	99.90	6.321				
18,400.00	12,399.00	17,872.04	11,892.64	109.49	116.04	31.96	-6,089.08	-840.29	628.78	526.89	101.89	6.171				

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 804H
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 804H	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				
18,500.00	12,399.00	17,987.22	11,901.91	111.00	117.83	32.46	-6,203.87	-839.83	622.21	518.44	103.77	5.996				
18,600.00	12,399.00	18,085.22	11,910.11	112.52	119.37	32.84	-6,301.53	-838.42	614.92	509.41	105.51	5.828				
18,700.00	12,399.00	18,192.22	11,918.10	114.04	121.05	33.11	-6,408.19	-835.62	607.80	500.71	107.09	5.676				
18,800.00	12,399.00	18,285.26	11,925.05	115.56	122.51	33.20	-6,500.86	-831.32	599.60	491.13	108.47	5.528				
18,900.00	12,399.00	18,378.05	11,928.94	117.09	123.98	33.04	-6,593.41	-825.89	593.41	483.90	109.51	5.419				
19,000.00	12,399.00	18,468.27	11,932.15	118.62	125.41	32.89	-6,683.44	-821.01	588.05	477.51	110.54	5.320				
19,100.00	12,399.00	18,558.78	11,934.27	120.15	126.84	32.83	-6,773.88	-817.99	584.79	473.09	111.70	5.235				
19,200.00	12,399.00	18,666.76	11,937.37	121.69	128.54	32.91	-6,881.79	-815.98	581.94	468.85	113.10	5.145				
19,300.00	12,399.00	18,768.59	11,942.62	123.22	130.14	33.16	-6,983.47	-814.48	577.35	462.65	114.70	5.034				
19,400.00	12,399.00	18,863.25	11,948.41	124.77	131.63	33.65	-7,077.95	-815.59	573.43	456.75	116.68	4.914				
19,500.00	12,399.00	18,958.86	11,954.22	126.31	133.12	34.26	-7,173.34	-818.14	570.43	451.54	118.88	4.798				
19,600.00	12,399.00	19,086.37	11,964.11	127.86	135.12	35.18	-7,300.41	-821.07	566.05	444.56	121.50	4.659				
19,700.00	12,399.00	19,175.28	11,972.52	129.41	136.52	35.88	-7,388.92	-822.68	559.93	436.00	123.93	4.518				
19,800.00	12,399.00	19,277.08	11,979.82	130.96	138.13	36.35	-7,490.43	-821.94	554.28	428.35	125.93	4.401				
19,900.00	12,399.00	19,373.80	11,985.64	132.52	139.66	36.61	-7,586.95	-819.79	548.71	421.07	127.64	4.299				
20,000.00	12,399.00	19,465.53	11,991.09	134.07	141.12	37.00	-7,678.52	-819.39	544.28	414.70	129.58	4.200				
20,100.00	12,399.00	19,560.21	11,996.17	135.63	142.62	37.45	-7,773.06	-820.01	541.01	409.35	131.65	4.109				
20,200.00	12,399.00	19,649.85	12,000.39	137.20	144.03	37.98	-7,862.57	-822.13	539.32	405.47	133.85	4.029				
20,300.00	12,399.00	19,756.66	12,005.36	138.76	145.71	38.65	-7,969.22	-825.19	538.07	401.67	136.40	3.945				
20,400.00	12,399.00	19,866.25	12,012.12	140.32	147.45	39.32	-8,078.59	-826.71	534.73	395.82	138.91	3.850				
20,500.00	12,399.00	19,958.23	12,017.53	141.89	148.90	39.85	-8,170.40	-827.71	531.54	390.35	141.19	3.765				
20,600.00	12,399.00	20,050.46	12,019.73	143.46	150.37	40.10	-8,262.60	-827.91	530.45	387.45	142.99	3.710				
20,700.00	12,399.00	20,157.58	12,021.55	145.03	152.08	40.17	-8,369.69	-826.25	528.78	384.25	144.53	3.659				
20,800.00	12,399.00	20,261.97	12,025.02	146.61	153.74	40.44	-8,474.01	-825.46	526.40	380.03	146.38	3.596				
20,900.00	12,399.00	20,357.76	12,030.47	148.18	155.27	40.98	-8,569.64	-826.35	523.36	374.62	148.74	3.519				
20,985.91	12,399.00	20,432.56	12,033.14	149.54	156.46	41.32	-8,644.38	-827.46	522.45	371.91	150.54	3.470				
21,000.00	12,399.00	20,444.88	12,033.40	149.76	156.65	41.37	-8,656.71	-827.66	522.48	371.66	150.82	3.464				
21,100.00	12,399.00	20,540.69	12,033.98	151.34	158.17	41.61	-8,752.50	-829.16	523.69	371.00	152.69	3.430				
21,200.00	12,399.00	20,647.81	12,034.30	152.92	159.88	41.72	-8,859.61	-829.14	524.12	369.71	154.40	3.394				
21,300.00	12,399.00	20,760.71	12,037.10	154.50	161.69	42.01	-8,972.48	-829.05	522.91	366.50	156.41	3.343				
21,400.00	12,399.00	20,854.10	12,041.00	156.08	163.18	42.37	-9,065.78	-829.02	520.48	361.98	158.50	3.284				
21,443.22	12,399.00	20,888.87	12,042.57	156.76	163.73	42.59	-9,100.50	-829.97	520.15	360.65	159.51	3.261				
21,500.00	12,399.00	20,929.08	12,043.56	157.66	164.36	42.84	-9,140.65	-831.74	521.20	360.58	160.61	3.245				
21,600.00	12,399.00	21,034.32	12,043.69	159.25	166.03	43.44	-9,245.70	-838.13	526.04	362.54	163.50	3.217				
21,700.00	12,399.00	21,138.82	12,047.70	160.84	167.68	44.21	-9,350.00	-843.03	527.17	360.53	166.64	3.164				
21,800.00	12,399.00	21,266.75	12,055.62	162.42	169.71	45.38	-9,477.53	-849.03	526.93	356.26	170.68	3.087				
21,900.00	12,399.00	21,348.00	12,060.87	164.01	171.00	46.09	-9,558.54	-852.22	525.79	352.16	173.64	3.028				
21,938.22	12,399.00	21,410.48	12,065.00	164.62	172.00	46.58	-9,620.86	-853.70	525.01	349.81	175.20	2.997				
22,000.00	12,399.00	21,489.80	12,072.57	165.60	173.27	47.17	-9,699.81	-852.65	520.71	343.75	176.97	2.942				
22,100.00	12,399.00	21,596.25	12,083.66	167.19	174.99	47.90	-9,805.62	-849.30	512.06	332.43	179.63	2.851				
22,200.00	12,399.00	21,689.44	12,091.65	168.79	176.50	48.28	-9,898.34	-844.41	503.19	321.30	181.89	2.766				
22,300.00	12,399.00	21,777.89	12,095.97	170.38	177.94	48.33	-9,986.54	-839.42	496.46	312.88	183.58	2.704				
22,400.00	12,399.00	21,873.29	12,098.55	171.98	179.49	48.26	-10,081.77	-834.59	491.61	306.77	184.84	2.660				
22,500.00	12,399.00	21,965.56	12,100.32	173.57	180.98	48.11	-10,173.91	-829.88	487.30	301.33	185.97	2.620				
22,600.00	12,399.00	22,064.20	12,100.50	175.17	182.58	47.90	-10,272.47	-825.97	484.96	298.05	186.92	2.595				
22,700.00	12,399.00	22,198.22	12,105.45	176.77	184.76	47.86	-10,406.15	-818.66	479.38	292.13	187.25	2.560				
22,800.00	12,399.00	22,294.00	12,111.64	178.37	186.33	47.88	-10,501.42	-811.10	469.92	281.36	188.56	2.492				
22,900.00	12,399.00	22,389.00	12,119.80	179.97	187.87	48.36	-10,595.98	-806.96	461.65	270.65	191.00	2.417				
23,000.00	12,399.00	22,479.92	12,128.12	181.57	189.34	49.07	-10,686.49	-805.06	454.75	260.62	194.13	2.343				
23,100.00	12,399.00	22,572.32	12,136.00	183.17	190.83	49.85	-10,778.55	-804.40	449.40	251.99	197.41	2.276				
23,200.00	12,399.00	22,671.34	12,143.88	184.77	192.43	50.70	-10,877.26	-804.39	445.06	244.28	200.78	2.217				
23,300.00	12,399.00	22,774.72	12,152.73	186.38	194.10	51.67	-10,980.26	-804.29	440.38	236.04	204.34	2.155				

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 804H
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 804H	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 - Kaston Fed Com 603H - OH - OH												Offset Well Error:	0.00 usft
Survey Program: 117-OWSG (Rev2) MWD, 1363-OWSG (Rev2) MWD, 23350-BLIND													
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
23,400.00	12,399.00	22,872.89	12,161.39	187.98	195.68	52.66	-11,078.05	-804.46	435.87	227.77	208.10	2.095	
23,500.00	12,399.00	22,990.02	12,173.98	189.58	197.58	53.99	-11,194.48	-803.18	429.32	217.44	211.88	2.026	
23,600.00	12,399.00	23,109.81	12,193.48	191.19	199.51	56.05	-11,312.62	-800.56	418.97	202.68	216.29	1.937	
23,700.00	12,399.00	23,223.85	12,220.45	192.80	201.33	59.06	-11,423.35	-796.93	404.10	181.64	222.46	1.816	
23,800.00	12,399.00	23,330.05	12,250.14	194.41	206.01	62.60	-11,525.19	-792.20	386.94	155.12	231.82	1.669	
23,874.38	12,399.00	23,350.00	12,255.98	195.60	208.02	63.34	-11,544.24	-791.27	377.97	136.87	241.10	1.568 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 804H
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 804H	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 - OH		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	25.09	25.09	0.00	0.03	-73.75	505.62	-1,734.27	1,806.48							
100.00	100.00	119.85	119.85	0.13	0.17	-73.75	505.67	-1,734.48	1,806.70	1,806.49	0.22	8,390.667				
200.00	200.00	197.15	197.15	0.48	0.45	-73.75	505.62	-1,735.19	1,807.60	1,806.94	0.66	2,735.561				
300.00	300.00	288.89	288.86	0.84	0.78	-73.80	504.84	-1,737.36	1,809.61	1,808.47	1.15	1,577.820				
400.00	400.00	373.16	373.08	1.20	1.08	-73.84	504.14	-1,739.79	1,812.15	1,810.53	1.62	1,121.301				
500.00	500.00	465.71	465.58	1.56	1.42	-73.89	503.55	-1,742.99	1,815.29	1,813.18	2.11	862.262				
600.00	600.00	565.23	565.03	1.92	1.78	-73.95	502.56	-1,746.73	1,818.63	1,816.02	2.61	696.341				
700.00	700.00	658.00	657.72	2.28	2.12	-74.01	501.63	-1,750.42	1,822.18	1,819.08	3.10	587.435				
800.00	800.00	746.00	745.57	2.63	2.68	-74.09	500.26	-1,754.68	1,824.63	1,820.89	3.75	486.865				
900.00	900.00	855.97	855.51	2.99	2.82	-74.11	499.87	-1,756.38	1,827.51	1,823.40	4.11	445.131				
1,000.00	1,000.00	950.15	949.59	3.35	3.17	-74.17	499.04	-1,760.62	1,831.60	1,827.00	4.60	398.253				
1,100.00	1,100.00	1,065.72	1,065.00	3.71	3.59	-74.30	496.53	-1,765.96	1,835.47	1,830.32	5.15	356.564				
1,200.00	1,200.00	1,153.35	1,152.50	4.07	3.91	-74.41	493.96	-1,770.01	1,839.14	1,833.51	5.63	326.902				
1,300.00	1,300.00	1,256.98	1,255.99	4.43	4.29	-74.51	491.90	-1,774.85	1,843.11	1,836.96	6.15	299.935				
1,400.00	1,400.00	1,320.00	1,318.93	4.79	4.52	-74.58	490.53	-1,777.85	1,847.41	1,840.86	6.56	281.647				
1,500.00	1,500.00	1,405.91	1,404.62	5.14	4.70	-74.70	487.88	-1,783.37	1,852.91	1,845.98	6.93	267.240				
1,600.00	1,600.00	1,499.00	1,497.21	5.50	4.89	-74.89	483.76	-1,792.07	1,860.72	1,853.40	7.32	254.218				
1,700.00	1,700.00	1,553.19	1,550.99	5.86	4.93	-75.03	480.89	-1,798.04	1,869.49	1,861.89	7.60	246.018				
1,800.00	1,800.00	1,746.61	1,743.22	6.22	5.12	-75.50	469.50	-1,815.82	1,877.38	1,869.39	7.99	234.871				
1,900.00	1,900.00	2,079.55	2,075.34	6.58	5.54	-76.01	451.43	-1,811.85	1,873.16	1,864.64	8.52	219.737				
2,000.00	2,000.00	2,191.67	2,187.06	6.94	5.70	-76.07	447.33	-1,803.35	1,864.93	1,856.01	8.91	209.272				
2,100.00	2,099.99	2,311.84	2,306.70	7.29	5.91	-1.56	442.03	-1,793.37	1,854.51	1,845.19	9.31	199.089				
2,200.00	2,199.91	2,406.17	2,400.53	7.64	6.09	-1.67	436.76	-1,785.25	1,840.92	1,831.22	9.71	189.641				
2,300.00	2,299.69	2,501.64	2,495.53	7.99	6.28	-1.78	431.48	-1,777.37	1,825.09	1,814.98	10.11	180.522				
2,400.00	2,399.27	2,600.97	2,594.33	8.34	6.51	-1.94	425.02	-1,769.44	1,806.74	1,796.21	10.53	171.638				
2,458.69	2,457.58	2,658.91	2,651.93	8.55	6.65	-2.06	420.59	-1,764.94	1,794.74	1,783.96	10.78	166.547				
2,500.00	2,498.60	2,699.54	2,692.30	8.70	6.75	-2.15	417.30	-1,761.82	1,785.98	1,775.02	10.95	163.074				
2,600.00	2,597.88	2,774.92	2,767.25	9.06	6.95	-2.31	411.40	-1,756.42	1,765.35	1,753.99	11.36	155.463				
2,700.00	2,697.16	2,856.70	2,848.70	9.43	7.17	-2.46	406.06	-1,751.34	1,745.91	1,734.14	11.77	148.336				
2,800.00	2,796.44	3,052.96	3,043.82	9.80	7.72	-2.75	394.63	-1,734.29	1,724.51	1,712.19	12.32	139.999				
2,900.00	2,895.72	3,158.91	3,148.68	10.17	8.03	-2.92	387.27	-1,721.06	1,698.98	1,686.21	12.77	133.040				
3,000.00	2,995.00	3,234.55	3,223.60	10.54	8.27	-3.07	381.25	-1,712.59	1,674.52	1,661.32	13.20	126.855				
3,100.00	3,094.28	3,330.60	3,318.74	10.92	8.59	-3.34	372.16	-1,703.05	1,650.97	1,637.32	13.66	120.865				
3,200.00	3,193.56	3,424.90	3,412.05	11.30	8.91	-3.64	362.36	-1,693.52	1,627.11	1,612.99	14.12	115.209				
3,300.00	3,292.84	3,502.47	3,488.90	11.68	9.17	-3.87	354.96	-1,686.11	1,604.02	1,589.45	14.57	110.088				
3,400.00	3,392.12	3,575.35	3,561.25	12.06	9.42	-4.09	348.42	-1,680.20	1,582.43	1,567.41	15.01	105.402				
3,500.00	3,491.40	3,649.00	3,634.46	12.45	9.67	-4.30	342.17	-1,675.21	1,562.28	1,546.82	15.46	101.068				
3,600.00	3,590.68	3,716.79	3,701.96	12.83	9.90	-4.50	336.83	-1,671.74	1,543.87	1,527.98	15.89	97.139				
3,700.00	3,689.96	3,820.08	3,804.94	13.22	10.25	-4.75	330.15	-1,667.58	1,526.83	1,510.46	16.38	93.226				
3,800.00	3,789.24	3,970.55	3,954.79	13.60	10.76	-5.08	321.17	-1,657.53	1,507.23	1,490.31	16.92	89.066				
3,900.00	3,888.52	4,069.61	4,053.13	13.99	11.12	-5.41	312.35	-1,649.56	1,485.90	1,468.48	17.41	85.344				
4,000.00	3,987.80	4,173.63	4,156.46	14.38	11.49	-5.74	303.60	-1,641.46	1,464.97	1,447.06	17.90	81.819				
4,100.00	4,087.08	4,278.76	4,260.97	14.77	11.86	-5.94	298.19	-1,631.53	1,442.98	1,424.58	18.39	78.454				
4,200.00	4,186.36	4,383.07	4,364.71	15.16	12.22	-6.07	294.63	-1,621.17	1,420.84	1,401.97	18.87	75.279				
4,300.00	4,285.64	4,506.23	4,487.01	15.56	12.66	-6.25	289.78	-1,607.58	1,397.57	1,378.20	19.37	72.152				
4,400.00	4,384.92	4,589.00	4,569.12	15.95	12.97	-6.46	284.37	-1,598.59	1,374.03	1,354.18	19.85	69.226				
4,500.00	4,484.20	4,665.08	4,644.62	16.34	13.25	-6.71	278.38	-1,591.37	1,351.63	1,331.30	20.33	66.497				
4,600.00	4,583.48	4,742.08	4,721.14	16.74	13.54	-6.97	272.59	-1,585.14	1,330.71	1,309.90	20.80	63.969				
4,700.00	4,682.76	4,828.14	4,806.84	17.13	13.85	-7.21	267.38	-1,579.21	1,311.16	1,289.88	21.29	61.598				
4,800.00	4,782.04	4,918.81	4,897.14	17.53	14.18	-7.49	261.64	-1,573.43	1,292.15	1,270.38	21.78	59.341				
4,900.00	4,881.32	5,005.91	4,983.92	17.92	14.50	-7.78	255.94	-1,568.57	1,273.91	1,251.65	22.26	57.225				
5,000.00	4,980.60	5,096.35	5,074.10	18.32	14.82	-8.07	250.55	-1,564.24	1,256.56	1,233.81	22.75	55.229				

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 804H
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 804H	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		
5,100.00	5,079.88	5,194.75	5,172.24	18.71	15.17	-8.37	245.16	-1,559.65	1,239.42	1,216.17	23.25	53.306		
5,200.00	5,179.16	5,295.68	5,272.91	19.11	15.53	-8.69	239.62	-1,554.91	1,222.29	1,198.54	23.75	51.455		
5,300.00	5,278.44	5,400.85	5,377.78	19.51	15.91	-9.03	233.79	-1,549.49	1,204.74	1,180.48	24.26	49.653		
5,400.00	5,377.72	5,538.03	5,514.39	19.90	16.42	-9.52	225.46	-1,540.32	1,185.81	1,161.02	24.80	47.824		
5,500.00	5,477.00	5,628.00	5,603.81	20.30	16.76	-9.91	218.68	-1,533.15	1,165.38	1,140.08	25.30	46.062		
5,600.00	5,576.28	5,716.90	5,692.18	20.70	17.10	-10.34	211.39	-1,526.68	1,145.61	1,119.80	25.81	44.390		
5,700.00	5,675.56	5,812.81	5,787.52	21.10	17.47	-10.83	203.36	-1,520.00	1,126.23	1,099.91	26.32	42.788		
5,800.00	5,774.84	5,910.66	5,884.83	21.50	17.84	-11.31	195.71	-1,513.21	1,106.99	1,080.16	26.84	41.250		
5,900.00	5,874.12	6,012.04	5,985.67	21.90	18.23	-11.82	188.21	-1,505.94	1,087.66	1,060.30	27.35	39.765		
6,000.00	5,973.40	6,111.86	6,084.95	22.30	18.61	-12.32	180.91	-1,498.53	1,068.14	1,040.27	27.87	38.328		
6,100.00	6,072.68	6,210.80	6,183.33	22.70	18.99	-12.84	173.73	-1,490.91	1,048.45	1,020.07	28.39	36.936		
6,200.00	6,171.96	6,298.73	6,270.79	23.10	19.32	-13.32	167.24	-1,484.56	1,029.30	1,000.40	28.90	35.615		
6,300.00	6,271.24	6,383.00	6,354.68	23.50	19.64	-13.79	161.09	-1,479.51	1,011.44	982.02	29.41	34.386		
6,400.00	6,370.52	6,465.25	6,436.67	23.90	19.95	-14.23	155.77	-1,475.76	995.10	965.18	29.92	33.258		
6,500.00	6,469.80	6,549.28	6,520.57	24.30	20.24	-14.62	151.72	-1,473.13	980.29	949.87	30.42	32.228		
6,600.00	6,569.08	6,638.60	6,609.83	24.70	20.55	-14.91	149.44	-1,471.46	966.80	935.89	30.91	31.278		
6,700.00	6,668.36	6,735.55	6,706.78	25.10	20.87	-15.13	148.88	-1,470.23	953.96	922.55	31.40	30.376		
6,800.00	6,767.64	6,834.95	6,806.17	25.50	21.20	-15.35	148.33	-1,468.98	941.14	909.24	31.90	29.501		
6,900.00	6,866.91	6,933.44	6,904.65	25.90	21.53	-15.58	147.82	-1,467.74	928.34	895.95	32.40	28.653		
6,934.75	6,901.42	6,967.80	6,939.00	26.04	21.64	-15.66	147.64	-1,467.33	923.92	891.35	32.57	28.365		
7,000.00	6,966.26	7,032.72	7,003.92	26.30	21.86	-15.77	147.26	-1,466.54	916.14	883.24	32.90	27.848		
7,100.00	7,065.85	7,121.20	7,092.39	26.68	22.15	-15.91	146.66	-1,465.94	906.83	873.45	33.38	27.168		
7,200.00	7,165.65	7,208.93	7,180.12	27.05	22.43	-16.02	146.01	-1,466.52	901.37	867.52	33.85	26.632		
7,300.00	7,265.57	7,303.07	7,274.24	27.41	22.72	-16.13	145.22	-1,468.15	899.51	865.19	34.31	26.215		
7,312.06	7,277.63	7,314.68	7,285.84	27.45	22.75	-16.14	145.11	-1,468.39	899.48	865.11	34.37	26.171 CC		
7,393.44	7,359.00	7,400.14	7,371.29	27.72	23.02	-90.81	144.20	-1,469.96	900.17	865.40	34.76	25.895		
7,400.00	7,365.56	7,407.13	7,378.28	27.74	23.04	-90.82	144.12	-1,470.07	900.27	865.47	34.79	25.874		
7,500.00	7,465.56	7,514.39	7,485.53	28.08	23.38	-90.89	142.97	-1,471.27	901.40	866.12	35.28	25.550		
7,600.00	7,565.56	7,616.13	7,587.26	28.41	23.69	-90.91	142.71	-1,471.92	902.05	866.30	35.75	25.232		
7,700.00	7,665.56	7,720.34	7,691.47	28.74	24.01	-90.90	142.87	-1,472.19	902.30	866.08	36.22	24.912		
7,800.00	7,765.56	7,820.94	7,792.07	29.07	24.33	-90.90	142.84	-1,472.24	902.35	865.66	36.69	24.593		
7,900.00	7,865.56	7,923.09	7,894.22	29.41	24.66	-90.90	142.84	-1,472.13	902.24	865.07	37.17	24.272		
8,000.00	7,965.56	8,021.13	7,992.26	29.74	24.99	-90.91	142.61	-1,471.85	901.96	864.31	37.65	23.958		
8,002.25	7,967.81	8,023.18	7,994.31	29.75	24.99	-90.91	142.61	-1,471.85	901.96	864.30	37.66	23.951		
8,100.00	8,065.56	8,113.82	8,084.95	30.08	25.28	-90.91	142.60	-1,472.26	902.40	864.29	38.11	23.679		
8,200.00	8,165.56	8,214.09	8,185.21	30.41	25.59	-90.87	143.32	-1,473.21	903.34	864.76	38.58	23.418		
8,300.00	8,265.56	8,320.49	8,291.61	30.75	25.92	-90.83	143.98	-1,473.59	903.69	864.63	39.05	23.141		
8,400.00	8,365.56	8,421.81	8,392.92	31.09	26.24	-90.81	144.17	-1,473.50	903.60	864.07	39.53	22.859		
8,500.00	8,465.56	8,538.58	8,509.69	31.42	26.64	-90.83	143.93	-1,472.65	902.92	862.88	40.03	22.554		
8,600.00	8,565.56	8,630.05	8,601.15	31.76	26.95	-90.86	143.42	-1,471.08	901.23	860.72	40.51	22.246		
8,693.48	8,659.04	8,714.45	8,685.54	32.08	27.23	-90.87	143.32	-1,470.68	900.78	859.84	40.95	21.998		
8,700.00	8,665.56	8,720.38	8,691.47	32.10	27.25	-90.87	143.33	-1,470.68	900.79	859.81	40.98	21.982		
8,800.00	8,765.56	8,819.25	8,790.34	32.44	27.57	-90.86	143.46	-1,470.91	901.01	859.56	41.45	21.736		
8,900.00	8,865.56	8,921.53	8,892.62	32.78	27.91	-90.90	142.77	-1,470.97	901.08	859.14	41.94	21.484		
9,000.00	8,965.56	9,022.26	8,993.34	33.12	28.25	-91.00	141.25	-1,470.84	900.98	858.54	42.43	21.232		
9,012.42	8,977.98	9,032.76	9,003.84	33.16	28.29	-91.01	141.07	-1,470.83	900.97	858.48	42.49	21.203		
9,100.00	9,065.56	9,105.93	9,077.00	33.45	28.53	-91.06	140.34	-1,471.45	901.73	858.84	42.89	21.024		
9,200.00	9,165.56	9,201.87	9,172.92	33.79	28.83	-91.07	140.13	-1,473.36	903.72	860.36	43.36	20.843		
9,300.00	9,265.56	9,303.38	9,274.40	34.14	29.16	-91.11	139.39	-1,475.43	905.77	861.93	43.84	20.661		
9,400.00	9,365.56	9,404.69	9,375.69	34.48	29.49	-91.18	138.33	-1,477.30	907.64	863.32	44.33	20.477		
9,500.00	9,465.56	9,503.66	9,474.64	34.82	29.81	-91.25	137.20	-1,479.12	909.50	864.70	44.81	20.298		
9,600.00	9,565.56	9,602.50	9,573.44	35.16	30.14	-91.37	135.23	-1,481.02	911.47	866.18	45.29	20.125		

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 804H
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 804H	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		
9,700.00	9,665.56	9,703.03	9,673.95	35.50	30.46	-91.41	134.49	-1,483.14	913.60	867.82	45.77	19.959		
9,800.00	9,765.56	9,810.36	9,781.26	35.84	30.80	-91.36	135.31	-1,484.70	915.02	868.76	46.26	19.779		
9,900.00	9,865.56	9,913.20	9,884.09	36.19	31.13	-91.29	136.36	-1,485.92	916.18	869.44	46.74	19.601		
10,000.00	9,965.56	10,017.31	9,988.19	36.53	31.46	-91.26	136.86	-1,486.46	916.69	869.47	47.22	19.412		
10,100.00	10,065.56	10,115.14	10,086.02	36.87	31.78	-91.27	136.69	-1,486.95	917.20	869.50	47.70	19.228		
10,200.00	10,165.56	10,215.85	10,186.72	37.21	32.12	-91.35	135.30	-1,487.63	917.90	869.71	48.19	19.046		
10,300.00	10,265.56	10,325.46	10,296.31	37.56	32.50	-91.47	133.44	-1,487.76	918.07	869.37	48.71	18.849		
10,400.00	10,365.56	10,427.57	10,398.42	37.90	32.85	-91.51	132.77	-1,487.07	917.41	868.21	49.20	18.646		
10,500.00	10,465.56	10,522.28	10,493.13	38.25	33.17	-91.50	132.96	-1,486.67	916.98	867.30	49.68	18.458		
10,527.76	10,493.32	10,548.98	10,519.82	38.34	33.26	-91.49	133.11	-1,486.66	916.97	867.16	49.81	18.409		
10,600.00	10,565.56	10,619.17	10,590.01	38.59	33.48	-91.46	133.65	-1,486.75	917.05	866.90	50.15	18.285		
10,700.00	10,665.56	10,714.73	10,685.56	38.94	33.79	-91.38	134.87	-1,487.22	917.51	866.89	50.62	18.125		
10,800.00	10,765.56	10,806.19	10,777.00	39.28	34.08	-91.28	136.45	-1,488.32	918.67	867.59	51.08	17.985		
10,900.00	10,865.56	10,915.33	10,886.12	39.63	34.43	-91.18	138.12	-1,489.68	919.89	868.32	51.57	17.836		
11,000.00	10,965.56	11,021.85	10,992.63	39.97	34.78	-91.13	138.90	-1,489.90	920.08	868.02	52.07	17.672		
11,018.21	10,983.78	11,039.49	11,010.28	40.03	34.84	-91.13	138.93	-1,489.90	920.08	867.92	52.15	17.642		
11,100.00	11,065.56	11,120.25	11,091.04	40.32	35.11	-91.14	138.63	-1,489.99	920.17	867.62	52.55	17.510		
11,200.00	11,165.56	11,224.57	11,195.35	40.66	35.48	-91.19	137.96	-1,489.87	920.07	867.02	53.05	17.342		
11,300.00	11,265.56	11,325.68	11,296.46	41.01	35.83	-91.23	137.19	-1,489.28	919.51	865.96	53.55	17.170		
11,368.50	11,334.07	11,389.79	11,360.57	41.25	36.05	-91.29	136.26	-1,489.08	919.32	865.43	53.89	17.061		
11,400.00	11,365.56	11,417.04	11,387.81	41.36	36.15	-91.33	135.61	-1,489.13	919.39	865.36	54.04	17.015		
11,500.00	11,465.56	11,544.88	11,514.81	41.70	36.62	-92.12	123.03	-1,488.48	919.39	864.79	54.60	16.839		
11,600.00	11,565.56	11,660.44	11,626.63	42.05	37.09	-93.92	94.49	-1,483.06	915.85	860.67	55.18	16.597		
11,700.00	11,665.56	11,738.62	11,699.61	42.40	37.43	-95.66	66.92	-1,478.91	913.39	857.65	55.74	16.387		
11,721.08	11,686.64	11,753.79	11,713.36	42.47	37.50	-96.06	60.57	-1,478.20	913.30	857.45	55.85	16.352 ES		
11,800.00	11,765.56	11,806.00	11,759.86	42.74	37.74	-97.55	36.91	-1,476.27	914.76	858.52	56.24	16.264		
11,860.48	11,826.04	11,841.04	11,790.09	42.95	37.90	-98.65	19.23	-1,475.40	917.95	861.46	56.49	16.249 SF		
11,900.00	11,865.53	11,853.00	11,800.14	43.08	37.96	81.23	12.75	-1,475.14	920.96	864.40	56.56	16.283		
11,950.00	11,915.20	11,884.26	11,825.58	43.24	38.11	79.82	-5.40	-1,474.76	925.40	868.70	56.70	16.321		
12,000.00	11,964.19	11,899.00	11,837.12	43.39	38.18	78.87	-14.56	-1,474.79	930.83	874.15	56.68	16.423		
12,050.00	12,012.13	11,899.00	11,837.12	43.53	38.18	78.17	-14.56	-1,474.79	937.84	881.38	56.46	16.611		
12,100.00	12,058.65	11,899.00	11,837.12	43.66	38.18	77.31	-14.56	-1,474.79	946.56	890.40	56.17	16.852		
12,150.00	12,103.40	11,899.00	11,837.12	43.78	38.18	76.28	-14.56	-1,474.79	956.89	901.07	55.82	17.143		
12,200.00	12,146.04	11,899.00	11,837.12	43.90	38.18	75.10	-14.56	-1,474.79	968.69	913.25	55.44	17.473		
12,250.00	12,186.24	11,899.00	11,837.12	44.00	38.18	73.79	-14.56	-1,474.79	981.82	926.78	55.05	17.836		
12,300.00	12,223.71	11,899.00	11,837.12	44.09	38.18	72.36	-14.56	-1,474.79	996.14	941.47	54.66	18.223		
12,350.00	12,258.14	11,899.00	11,837.12	44.17	38.18	70.83	-14.56	-1,474.79	1,011.48	957.17	54.31	18.624		
12,400.00	12,289.29	11,899.00	11,837.12	44.24	38.18	69.22	-14.56	-1,474.79	1,027.68	973.68	54.00	19.030		
12,450.00	12,316.92	11,899.00	11,837.12	44.30	38.18	67.55	-14.56	-1,474.79	1,044.60	990.84	53.75	19.433		
12,500.00	12,340.80	11,899.00	11,837.12	44.36	38.18	65.84	-14.56	-1,474.79	1,062.05	1,008.48	53.58	19.823		
12,550.00	12,360.77	11,899.00	11,837.12	44.43	38.18	64.11	-14.56	-1,474.79	1,079.90	1,026.43	53.47	20.195		
12,600.00	12,376.67	11,899.00	11,837.12	44.50	38.18	62.38	-14.56	-1,474.79	1,097.98	1,044.53	53.45	20.542		
12,650.00	12,388.38	11,899.00	11,837.12	44.59	38.18	60.66	-14.56	-1,474.79	1,116.16	1,062.65	53.51	20.859		
12,700.00	12,395.81	11,899.00	11,837.12	44.69	38.18	58.98	-14.56	-1,474.79	1,134.29	1,080.65	53.64	21.145		
12,750.00	12,398.90	11,899.00	11,837.12	44.81	38.18	57.35	-14.56	-1,474.79	1,152.24	1,098.39	53.85	21.397		
12,760.48	12,399.00	11,899.00	11,837.12	44.83	38.18	57.01	-14.56	-1,474.79	1,155.97	1,102.06	53.90	21.446		
12,800.00	12,399.00	11,899.00	11,837.12	44.94	38.18	57.01	-14.56	-1,474.79	1,170.58	1,116.47	54.11	21.633		
12,900.00	12,399.00	11,899.00	11,837.12	45.25	38.18	57.01	-14.56	-1,474.79	1,212.54	1,157.87	54.67	22.179		
13,000.00	12,399.00	11,899.00	11,837.12	45.62	38.18	57.01	-14.56	-1,474.79	1,261.04	1,205.79	55.26	22.822		
13,100.00	12,399.00	11,899.00	11,837.12	46.05	38.18	57.01	-14.56	-1,474.79	1,315.38	1,259.54	55.84	23.557		
13,200.00	12,399.00	11,899.00	11,837.12	46.53	38.18	57.01	-14.56	-1,474.79	1,374.85	1,318.45	56.40	24.378		
13,300.00	12,399.00	11,899.00	11,837.12	47.07	38.18	57.01	-14.56	-1,474.79	1,438.81	1,381.89	56.92	25.277		

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 804H
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 804H	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		
13,400.00	12,399.00	11,899.00	11,837.12	47.65	38.18	57.01	-14.56	-1,474.79	1,506.71	1,449.30	57.41	26.245		
13,500.00	12,399.00	11,899.00	11,837.12	48.29	38.18	57.01	-14.56	-1,474.79	1,578.02	1,520.17	57.86	27.275		
13,600.00	12,399.00	11,899.00	11,837.12	48.97	38.18	57.01	-14.56	-1,474.79	1,652.31	1,594.05	58.26	28.361		
13,700.00	12,399.00	11,899.00	11,837.12	49.70	38.18	57.01	-14.56	-1,474.79	1,729.20	1,670.57	58.62	29.496		
13,800.00	12,399.00	11,899.00	11,837.12	50.47	38.18	57.01	-14.56	-1,474.79	1,808.34	1,749.39	58.96	30.673		
13,900.00	12,399.00	11,899.00	11,837.12	51.29	38.18	57.01	-14.56	-1,474.79	1,889.47	1,830.21	59.25	31.887		
14,000.00	12,399.00	11,899.00	11,837.12	52.14	38.18	57.01	-14.56	-1,474.79	1,972.33	1,912.80	59.52	33.135		
14,100.00	12,399.00	11,899.00	11,837.12	53.03	38.18	57.01	-14.56	-1,474.79	2,056.71	1,996.94	59.77	34.412		
14,200.00	12,399.00	11,899.00	11,837.12	53.95	38.18	57.01	-14.56	-1,474.79	2,142.44	2,082.45	59.99	35.715		
14,300.00	12,399.00	11,899.00	11,837.12	54.91	38.18	57.01	-14.56	-1,474.79	2,229.36	2,169.17	60.19	37.041		
14,400.00	12,399.00	11,899.00	11,837.12	55.90	38.18	57.01	-14.56	-1,474.79	2,317.33	2,256.96	60.37	38.388		
14,500.00	12,399.00	11,899.00	11,837.12	56.93	38.18	57.01	-14.56	-1,474.79	2,406.24	2,345.71	60.53	39.751		
14,600.00	12,399.00	11,899.00	11,837.12	57.98	38.18	57.01	-14.56	-1,474.79	2,495.99	2,435.31	60.69	41.130		
14,700.00	12,399.00	11,899.00	11,837.12	59.06	38.18	57.01	-14.56	-1,474.79	2,586.50	2,525.67	60.83	42.523		
14,800.00	12,399.00	11,899.00	11,837.12	60.16	38.18	57.01	-14.56	-1,474.79	2,677.68	2,616.72	60.96	43.928		
14,900.00	12,399.00	11,899.00	11,837.12	61.29	38.18	57.01	-14.56	-1,474.79	2,769.47	2,708.39	61.08	45.344		
15,000.00	12,399.00	11,899.00	11,837.12	62.44	38.18	57.01	-14.56	-1,474.79	2,861.80	2,800.61	61.19	46.769		
15,100.00	12,399.00	11,899.00	11,837.12	63.61	38.18	57.01	-14.56	-1,474.79	2,954.64	2,893.35	61.30	48.203		
15,200.00	12,399.00	11,899.00	11,837.12	64.81	38.18	57.01	-14.56	-1,474.79	3,047.93	2,986.54	61.39	49.645		
15,300.00	12,399.00	11,899.00	11,837.12	66.02	38.18	57.01	-14.56	-1,474.79	3,141.64	3,080.15	61.49	51.093		
15,400.00	12,399.00	11,899.00	11,837.12	67.26	38.18	57.01	-14.56	-1,474.79	3,235.72	3,174.14	61.58	52.547		
15,500.00	12,399.00	11,899.00	11,837.12	68.51	38.18	57.01	-14.56	-1,474.79	3,330.14	3,268.48	61.66	54.006		
15,600.00	12,399.00	11,899.00	11,837.12	69.77	38.18	57.01	-14.56	-1,474.79	3,424.88	3,363.14	61.74	55.470		
15,700.00	12,399.00	11,899.00	11,837.12	71.06	38.18	57.01	-14.56	-1,474.79	3,519.92	3,458.10	61.82	56.939		
15,800.00	12,399.00	11,899.00	11,837.12	72.35	38.18	57.01	-14.56	-1,474.79	3,615.22	3,553.32	61.89	58.411		
15,900.00	12,399.00	11,899.00	11,837.12	73.67	38.18	57.01	-14.56	-1,474.79	3,710.77	3,648.80	61.96	59.887		
16,000.00	12,399.00	11,899.00	11,837.12	74.99	38.18	57.01	-14.56	-1,474.79	3,806.54	3,744.51	62.03	61.365		
16,100.00	12,399.00	11,899.00	11,837.12	76.33	38.18	57.01	-14.56	-1,474.79	3,902.53	3,840.43	62.10	62.846		
16,200.00	12,399.00	11,899.00	11,837.12	77.68	38.18	57.01	-14.56	-1,474.79	3,998.72	3,936.56	62.16	64.328		
16,300.00	12,399.00	11,899.00	11,837.12	79.04	38.18	57.01	-14.56	-1,474.79	4,095.08	4,032.86	62.22	65.812		
16,400.00	12,399.00	11,899.00	11,837.12	80.41	38.18	57.01	-14.56	-1,474.79	4,191.62	4,129.34	62.29	67.296		
16,500.00	12,399.00	11,899.00	11,837.12	81.80	38.18	57.01	-14.56	-1,474.79	4,288.32	4,225.97	62.35	68.782		
16,600.00	12,399.00	11,899.00	11,837.12	83.19	38.18	57.01	-14.56	-1,474.79	4,385.17	4,322.76	62.41	70.268		
16,700.00	12,399.00	11,899.00	11,837.12	84.59	38.18	57.01	-14.56	-1,474.79	4,482.15	4,419.68	62.47	71.754		
16,800.00	12,399.00	11,899.00	11,837.12	86.00	38.18	57.01	-14.56	-1,474.79	4,579.26	4,516.74	62.52	73.241		
16,900.00	12,399.00	11,899.00	11,837.12	87.42	38.18	57.01	-14.56	-1,474.79	4,676.50	4,613.92	62.58	74.728		
17,000.00	12,399.00	11,899.00	11,837.12	88.85	38.18	57.01	-14.56	-1,474.79	4,773.85	4,711.21	62.64	76.214		
17,100.00	12,399.00	11,899.00	11,837.12	90.28	38.18	57.01	-14.56	-1,474.79	4,871.30	4,808.61	62.69	77.700		
17,200.00	12,399.00	11,899.00	11,837.12	91.72	38.18	57.01	-14.56	-1,474.79	4,968.86	4,906.11	62.75	79.185		

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 804H
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 804H	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	25.09	25.09	0.00	0.03	-73.75	505.62	-1,734.27	1,806.48							
100.00	100.00	119.85	119.85	0.13	0.17	-73.75	505.67	-1,734.48	1,806.70	1,806.49	0.22	8,390.667				
200.00	200.00	197.15	197.15	0.48	0.45	-73.75	505.62	-1,735.19	1,807.60	1,806.94	0.66	2,735.561				
300.00	300.00	288.89	288.86	0.84	0.78	-73.80	504.84	-1,737.36	1,809.61	1,808.47	1.15	1,577.820				
400.00	400.00	373.16	373.08	1.20	1.08	-73.84	504.14	-1,739.79	1,812.15	1,810.53	1.62	1,121.301				
500.00	500.00	465.71	465.58	1.56	1.42	-73.89	503.55	-1,742.99	1,815.29	1,813.18	2.11	862.262				
600.00	600.00	565.23	565.03	1.92	1.78	-73.95	502.56	-1,746.73	1,818.63	1,816.02	2.61	696.341				
700.00	700.00	658.00	657.72	2.28	2.12	-74.01	501.63	-1,750.42	1,822.18	1,819.08	3.10	587.435				
800.00	800.00	816.00	815.57	2.63	2.68	-74.09	500.26	-1,754.68	1,824.63	1,820.89	3.75	486.865				
900.00	900.00	855.97	855.51	2.99	2.82	-74.11	499.87	-1,756.38	1,827.51	1,823.40	4.11	445.131				
1,000.00	1,000.00	950.15	949.59	3.35	3.17	-74.17	499.04	-1,760.62	1,831.60	1,827.00	4.60	398.253				
1,100.00	1,100.00	1,065.72	1,065.00	3.71	3.59	-74.30	496.53	-1,765.96	1,835.47	1,830.32	5.15	356.564				
1,200.00	1,200.00	1,153.35	1,152.50	4.07	3.91	-74.41	493.96	-1,770.01	1,839.14	1,833.51	5.63	326.902				
1,300.00	1,300.00	1,256.98	1,255.99	4.43	4.29	-74.51	491.90	-1,774.85	1,843.11	1,836.96	6.15	299.935				
1,400.00	1,400.00	1,340.04	1,338.94	4.79	4.56	-74.60	490.02	-1,778.92	1,847.25	1,840.66	6.59	280.432				
1,500.00	1,500.00	1,409.00	1,407.71	5.14	4.70	-74.70	487.93	-1,783.56	1,852.91	1,845.97	6.93	267.198				
1,600.00	1,600.00	1,471.64	1,470.05	5.50	4.73	-74.82	485.44	-1,789.11	1,860.39	1,853.18	7.21	257.991				
1,700.00	1,700.00	1,553.20	1,551.02	5.86	4.79	-75.02	481.24	-1,797.93	1,869.47	1,861.96	7.51	248.916				
1,800.00	1,800.00	1,746.62	1,743.26	6.22	5.01	-75.49	469.85	-1,815.71	1,877.36	1,869.44	7.92	236.956				
1,900.00	1,900.00	2,079.53	2,075.34	6.58	5.47	-76.00	451.78	-1,811.74	1,873.14	1,864.66	8.48	220.889				
2,000.00	2,000.00	2,191.65	2,187.06	6.94	5.65	-76.06	447.68	-1,803.24	1,864.90	1,856.03	8.88	210.123				
2,100.00	2,099.99	2,311.82	2,306.70	7.29	5.86	-1.55	442.38	-1,793.26	1,854.48	1,845.20	9.29	199.686				
2,200.00	2,199.91	2,406.16	2,400.54	7.64	6.05	-1.66	437.11	-1,785.14	1,840.90	1,831.21	9.69	190.067				
2,300.00	2,299.69	2,501.63	2,495.54	7.99	6.26	-1.77	431.84	-1,777.25	1,825.07	1,814.98	10.09	180.810				
2,400.00	2,399.27	2,600.97	2,594.35	8.34	6.49	-1.93	425.37	-1,769.33	1,806.71	1,796.19	10.52	171.812				
2,458.69	2,457.58	2,658.91	2,651.94	8.55	6.64	-2.05	420.94	-1,764.83	1,794.71	1,783.94	10.77	166.665				
2,500.00	2,498.60	2,699.54	2,692.32	8.70	6.74	-2.14	417.65	-1,761.71	1,785.95	1,775.00	10.95	163.158				
2,600.00	2,597.88	2,774.91	2,767.27	9.06	6.95	-2.30	411.75	-1,756.31	1,765.32	1,753.96	11.35	155.490				
2,700.00	2,697.16	2,856.70	2,848.72	9.43	7.17	-2.45	406.41	-1,751.23	1,745.88	1,734.11	11.77	148.315				
2,800.00	2,796.44	3,052.95	3,043.83	9.80	7.73	-2.73	394.98	-1,734.18	1,724.48	1,712.15	12.33	139.890				
2,900.00	2,895.72	3,158.90	3,148.70	10.17	8.06	-2.90	387.62	-1,720.95	1,698.95	1,686.16	12.78	132.900				
3,000.00	2,995.00	3,234.55	3,223.62	10.54	8.30	-3.06	381.60	-1,712.48	1,674.49	1,661.27	13.22	126.704				
3,100.00	3,094.28	3,330.60	3,318.77	10.92	8.62	-3.33	372.51	-1,702.94	1,650.94	1,637.26	13.68	120.698				
3,200.00	3,193.56	3,424.90	3,412.07	11.30	8.94	-3.63	362.71	-1,693.40	1,627.08	1,612.93	14.14	115.033				
3,300.00	3,292.84	3,502.47	3,488.93	11.68	9.21	-3.86	355.31	-1,686.00	1,603.99	1,589.39	14.59	109.909				
3,400.00	3,392.12	3,575.35	3,561.27	12.06	9.46	-4.07	348.77	-1,680.08	1,582.39	1,567.35	15.04	105.223				
3,500.00	3,491.40	3,649.00	3,634.48	12.45	9.72	-4.29	342.52	-1,675.10	1,562.24	1,546.75	15.48	100.889				
3,600.00	3,590.68	3,716.79	3,701.98	12.83	9.95	-4.48	337.18	-1,671.62	1,543.83	1,527.91	15.92	96.962				
3,700.00	3,689.96	3,820.07	3,804.95	13.22	10.30	-4.74	330.50	-1,667.47	1,526.79	1,510.38	16.41	93.047				
3,800.00	3,789.24	3,970.55	3,954.80	13.60	10.82	-5.07	321.52	-1,657.42	1,507.18	1,490.23	16.96	88.882				
3,900.00	3,888.52	4,069.62	4,053.16	13.99	11.17	-5.39	312.70	-1,649.45	1,485.85	1,468.40	17.45	85.163				
4,000.00	3,987.80	4,173.62	4,156.47	14.38	11.55	-5.73	303.95	-1,641.35	1,464.92	1,446.97	17.94	81.642				
4,100.00	4,087.08	4,278.74	4,260.98	14.77	11.92	-5.93	298.55	-1,631.42	1,442.93	1,424.49	18.43	78.281				
4,200.00	4,186.36	4,383.04	4,364.70	15.16	12.29	-6.06	294.98	-1,621.06	1,420.79	1,401.87	18.92	75.110				
4,300.00	4,285.64	4,506.20	4,487.01	15.56	12.73	-6.23	290.13	-1,607.46	1,397.52	1,378.11	19.41	71.987				
4,400.00	4,384.92	4,589.00	4,569.14	15.95	13.04	-6.44	284.72	-1,598.48	1,373.98	1,354.09	19.89	69.068				
4,500.00	4,484.20	4,665.08	4,644.64	16.34	13.33	-6.70	278.73	-1,591.25	1,351.57	1,331.20	20.37	66.345				
4,600.00	4,583.48	4,742.07	4,721.16	16.74	13.61	-6.95	272.94	-1,585.03	1,330.65	1,309.80	20.85	63.823				
4,700.00	4,682.76	4,828.13	4,806.86	17.13	13.93	-7.20	267.73	-1,579.09	1,311.10	1,289.77	21.33	61.457				
4,800.00	4,782.04	4,918.80	4,897.16	17.53	14.26	-7.48	261.99	-1,573.32	1,292.09	1,270.27	21.82	59.206				
4,900.00	4,881.32	5,005.91	4,983.94	17.92	14.57	-7.77	256.29	-1,568.46	1,273.85	1,251.54	22.31	57.094				
5,000.00	4,980.60	5,096.35	5,074.11	18.32	14.90	-8.06	250.90	-1,564.13	1,256.49	1,233.69	22.80	55.103				

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 804H
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 804H	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				
5,100.00	5,079.88	5,194.74	5,172.26	18.71	15.25	-8.36	245.51	-1,559.54	1,239.36	1,216.05	23.30	53.184				
5,200.00	5,179.16	5,295.68	5,272.92	19.11	15.62	-8.67	239.97	-1,554.80	1,222.22	1,198.41	23.81	51.338				
5,300.00	5,278.44	5,400.84	5,377.79	19.51	16.00	-9.01	234.14	-1,549.37	1,204.67	1,180.35	24.32	49.540				
5,400.00	5,377.72	5,538.02	5,514.40	19.90	16.51	-9.50	225.81	-1,540.20	1,185.74	1,160.89	24.85	47.714				
5,500.00	5,477.00	5,628.00	5,603.83	20.30	16.85	-9.89	219.03	-1,533.04	1,165.30	1,139.94	25.36	45.957				
5,600.00	5,576.28	5,716.90	5,692.20	20.70	17.19	-10.32	211.74	-1,526.57	1,145.53	1,119.67	25.86	44.290				
5,700.00	5,675.56	5,812.81	5,787.54	21.10	17.56	-10.81	203.71	-1,519.89	1,126.15	1,099.77	26.38	42.691				
5,800.00	5,774.84	5,910.66	5,884.85	21.50	17.93	-11.30	196.06	-1,513.09	1,106.91	1,080.02	26.89	41.158				
5,900.00	5,874.12	6,012.04	5,985.69	21.90	18.32	-11.80	188.56	-1,505.83	1,087.57	1,060.16	27.41	39.676				
6,000.00	5,973.40	6,111.86	6,084.96	22.30	18.70	-12.30	181.26	-1,498.41	1,068.05	1,040.12	27.93	38.243				
6,100.00	6,072.68	6,210.79	6,183.35	22.70	19.08	-12.82	174.08	-1,490.80	1,048.36	1,019.91	28.45	36.854				
6,200.00	6,171.96	6,298.72	6,270.81	23.10	19.42	-13.30	167.59	-1,484.45	1,029.20	1,000.24	28.96	35.536				
6,300.00	6,271.24	6,383.00	6,354.70	23.50	19.74	-13.77	161.44	-1,479.39	1,011.33	981.86	29.48	34.311				
6,400.00	6,370.52	6,465.24	6,436.69	23.90	20.04	-14.21	156.12	-1,475.64	994.99	965.01	29.98	33.186				
6,500.00	6,469.80	6,549.27	6,520.58	24.30	20.34	-14.60	152.07	-1,473.02	980.18	949.70	30.48	32.158				
6,600.00	6,569.08	6,638.58	6,609.84	24.70	20.65	-14.89	149.79	-1,471.35	966.69	935.72	30.97	31.211				
6,700.00	6,668.36	6,735.53	6,706.78	25.10	20.97	-15.11	149.23	-1,470.12	953.85	922.38	31.47	30.311				
6,800.00	6,767.64	6,834.93	6,806.17	25.50	21.30	-15.33	148.68	-1,468.86	941.03	909.06	31.97	29.438				
6,900.00	6,866.91	6,933.42	6,904.65	25.90	21.63	-15.55	148.17	-1,467.63	928.23	895.77	32.46	28.592				
6,934.75	6,901.42	6,967.78	6,939.00	26.04	21.75	-15.63	147.99	-1,467.22	923.80	891.17	32.64	28.305				
7,000.00	6,966.26	7,032.70	7,003.92	26.30	21.96	-15.75	147.61	-1,466.43	916.03	883.06	32.96	27.789				
7,100.00	7,065.85	7,121.18	7,092.40	26.68	22.25	-15.89	147.01	-1,465.82	906.71	873.27	33.44	27.111				
7,200.00	7,165.65	7,208.91	7,180.12	27.05	22.53	-16.00	146.36	-1,466.40	901.25	867.34	33.91	26.576				
7,300.00	7,265.57	7,303.05	7,274.25	27.41	22.82	-16.11	145.57	-1,468.04	899.39	865.01	34.38	26.160				
7,312.08	7,277.65	7,314.68	7,285.87	27.45	22.86	-16.12	145.46	-1,468.27	899.36	864.93	34.44	26.117	CC			
7,393.44	7,359.00	7,400.13	7,371.30	27.72	23.12	-90.79	144.55	-1,469.85	900.05	865.22	34.83	25.841				
7,400.00	7,365.56	7,407.11	7,378.28	27.74	23.15	-90.80	144.47	-1,469.96	900.15	865.29	34.86	25.820				
7,500.00	7,465.56	7,514.38	7,485.53	28.08	23.49	-90.87	143.32	-1,471.15	901.28	865.93	35.35	25.497				
7,600.00	7,565.56	7,616.10	7,587.26	28.41	23.80	-90.89	143.06	-1,471.81	901.93	866.11	35.82	25.179				
7,700.00	7,665.56	7,720.32	7,691.47	28.74	24.12	-90.88	143.22	-1,472.08	902.19	865.90	36.29	24.860				
7,800.00	7,765.56	7,820.92	7,792.07	29.07	24.44	-90.88	143.19	-1,472.13	902.24	865.47	36.76	24.542				
7,900.00	7,865.56	7,923.06	7,894.22	29.41	24.77	-90.88	143.19	-1,472.02	902.12	864.88	37.24	24.223				
8,000.00	7,965.56	8,021.11	7,992.26	29.74	25.10	-90.89	142.96	-1,471.73	901.84	864.12	37.72	23.909				
8,002.28	7,967.85	8,023.20	7,994.35	29.75	25.10	-90.89	142.96	-1,471.73	901.84	864.11	37.73	23.902				
8,100.00	8,065.56	8,113.80	8,084.95	30.08	25.39	-90.89	142.95	-1,472.14	902.28	864.10	38.18	23.631				
8,200.00	8,165.56	8,214.07	8,185.21	30.41	25.70	-90.85	143.67	-1,473.10	903.22	864.57	38.65	23.370				
8,300.00	8,265.56	8,320.47	8,291.61	30.75	26.03	-90.80	144.33	-1,473.48	903.57	864.44	39.13	23.094				
8,400.00	8,365.56	8,421.79	8,392.92	31.09	26.36	-90.79	144.52	-1,473.39	903.48	863.87	39.60	22.813				
8,500.00	8,465.56	8,538.55	8,509.68	31.42	26.75	-90.81	144.28	-1,472.54	902.80	862.69	40.11	22.509				
8,600.00	8,565.56	8,630.03	8,601.15	31.76	27.07	-90.84	143.77	-1,470.97	901.11	860.52	40.59	22.202				
8,693.50	8,659.06	8,714.45	8,685.56	32.08	27.34	-90.85	143.67	-1,470.57	900.67	859.64	41.02	21.955				
8,700.00	8,665.56	8,720.36	8,691.47	32.10	27.36	-90.85	143.68	-1,470.57	900.67	859.61	41.05	21.938				
8,800.00	8,765.56	8,819.23	8,790.34	32.44	27.68	-90.84	143.81	-1,470.79	900.89	859.36	41.53	21.693				
8,900.00	8,865.56	8,921.51	8,892.63	32.78	28.02	-90.88	143.12	-1,470.86	900.97	858.95	42.02	21.442				
9,000.00	8,965.56	9,022.24	8,993.34	33.12	28.37	-90.98	141.60	-1,470.72	900.86	858.35	42.51	21.191				
9,012.46	8,978.02	9,032.78	9,003.88	33.16	28.40	-90.99	141.42	-1,470.72	900.85	858.28	42.57	21.162				
9,100.00	9,065.56	9,105.92	9,077.01	33.45	28.64	-91.04	140.69	-1,471.34	901.61	858.65	42.97	20.984				
9,200.00	9,165.56	9,201.85	9,172.92	33.79	28.95	-91.05	140.48	-1,473.24	903.60	860.16	43.44	20.803				
9,300.00	9,265.56	9,303.36	9,274.41	34.14	29.28	-91.09	139.74	-1,475.31	905.65	861.73	43.92	20.621				
9,400.00	9,365.56	9,404.67	9,375.69	34.48	29.61	-91.16	138.68	-1,477.19	907.52	863.12	44.40	20.438				
9,500.00	9,465.56	9,503.65	9,474.65	34.82	29.93	-91.23	137.55	-1,479.01	909.38	864.49	44.89	20.260				
9,600.00	9,565.56	9,602.49	9,573.45	35.16	30.26	-91.35	135.58	-1,480.91	911.35	865.98	45.37	20.087				

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 804H
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 804H	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 - Kaston Fed Com 703H - OH - Plan #9													Offset Well Error:	0.00 usft
Survey Program: 112-OWSG (Rev2) MWD, 1409-OWSG (Rev2) MWD, 11286-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		
9,700.00	9,665.56	9,703.01	9,673.95	35.50	30.58	-91.39	134.84	-1,483.03	913.47	867.62	45.85	19.921		
9,800.00	9,765.56	9,810.34	9,781.26	35.84	30.92	-91.34	135.66	-1,484.59	914.90	868.56	46.34	19.742		
9,900.00	9,865.56	9,913.18	9,884.09	36.19	31.25	-91.27	136.70	-1,485.80	916.06	869.24	46.82	19.565		
10,000.00	9,965.56	10,017.28	9,988.19	36.53	31.58	-91.24	137.21	-1,486.35	916.57	869.27	47.30	19.376		
10,100.00	10,065.56	10,115.12	10,086.03	36.87	31.91	-91.25	137.04	-1,486.84	917.08	869.29	47.78	19.192		
10,200.00	10,165.56	10,215.83	10,186.72	37.21	32.25	-91.33	135.65	-1,487.52	917.78	869.51	48.28	19.011		
10,300.00	10,265.56	10,325.44	10,296.31	37.56	32.63	-91.45	133.79	-1,487.65	917.95	869.16	48.79	18.815		
10,400.00	10,365.56	10,427.55	10,398.42	37.90	32.98	-91.49	133.12	-1,486.96	917.29	868.00	49.28	18.612		
10,500.00	10,465.56	10,522.26	10,493.13	38.25	33.30	-91.48	133.31	-1,486.55	916.86	867.10	49.76	18.425		
10,527.71	10,493.27	10,548.91	10,519.77	38.34	33.38	-91.47	133.46	-1,486.54	916.85	866.95	49.89	18.376		
10,600.00	10,565.56	10,619.14	10,590.01	38.59	33.61	-91.44	134.00	-1,486.64	916.93	866.69	50.24	18.253		
10,700.00	10,665.56	10,714.70	10,685.56	38.94	33.92	-91.36	135.22	-1,487.11	917.39	866.68	50.70	18.093		
10,800.00	10,765.56	10,806.17	10,777.00	39.28	34.21	-91.26	136.79	-1,488.20	918.55	867.39	51.16	17.953		
10,900.00	10,865.56	10,915.30	10,886.12	39.63	34.56	-91.15	138.47	-1,489.56	919.77	868.11	51.66	17.805		
11,000.00	10,965.56	11,021.82	10,992.63	39.97	34.91	-91.11	139.25	-1,489.79	919.96	867.81	52.15	17.641		
11,018.22	10,983.79	11,039.48	11,010.29	40.03	34.97	-91.10	139.28	-1,489.78	919.96	867.72	52.24	17.611		
11,100.00	11,065.56	11,120.23	11,091.04	40.32	35.24	-91.12	138.98	-1,489.87	920.05	867.41	52.64	17.479		
11,200.00	11,165.56	11,224.55	11,195.36	40.66	35.60	-91.16	138.31	-1,489.75	919.95	866.81	53.14	17.312		
11,300.00	11,265.56	11,327.82	11,298.62	41.01	35.96	-91.21	137.61	-1,489.11	919.34	865.70	53.64	17.139		
11,400.00	11,365.56	11,427.81	11,398.61	41.36	36.31	-91.25	136.93	-1,488.38	918.63	864.49	54.14	16.969		
11,500.00	11,465.56	11,527.94	11,498.73	41.70	36.66	-91.31	135.98	-1,487.65	917.91	863.28	54.63	16.801		
11,600.00	11,565.56	11,626.91	11,596.81	42.05	37.04	-92.08	123.74	-1,486.62	917.23	862.07	55.16	16.629		
11,654.00	11,619.57	11,677.83	11,646.06	42.24	37.24	-92.88	110.91	-1,485.92	917.08	861.62	55.45	16.538		
11,700.00	11,665.56	11,719.14	11,685.06	42.40	37.41	-93.73	97.32	-1,485.27	917.24	861.53	55.71	16.465		
11,800.00	11,765.56	11,800.00	11,758.08	42.74	37.76	-95.89	62.78	-1,483.81	919.28	863.04	56.24	16.347		
11,860.48	11,826.04	11,845.23	11,796.57	42.95	37.97	-97.36	39.07	-1,482.89	922.17	865.64	56.53	16.312		
11,900.00	11,865.53	11,872.43	11,818.78	43.08	38.10	82.03	23.38	-1,482.30	924.76	868.06	56.70	16.310		
11,950.00	11,915.20	11,906.22	11,845.29	43.24	38.26	80.56	2.45	-1,481.54	928.50	871.62	56.87	16.325		
12,000.00	11,964.19	11,939.42	11,870.09	43.39	38.42	79.13	-19.61	-1,480.76	932.65	875.64	57.02	16.357		
12,050.00	12,012.13	11,972.10	11,893.21	43.53	38.59	77.74	-42.68	-1,479.97	937.11	879.99	57.13	16.404		
12,100.00	12,058.65	12,000.00	11,911.88	43.66	38.73	76.52	-63.40	-1,479.27	941.78	884.61	57.17	16.474		
12,150.00	12,103.40	12,036.19	11,934.56	43.78	38.92	75.15	-91.58	-1,478.34	946.49	889.24	57.25	16.533		
12,200.00	12,146.04	12,067.72	11,952.83	43.90	39.09	73.96	-117.25	-1,477.51	951.20	893.93	57.27	16.609		
12,250.00	12,186.24	12,100.00	11,970.05	44.00	39.27	72.83	-144.54	-1,476.64	955.78	898.50	57.28	16.685		
12,300.00	12,223.71	12,129.08	11,984.22	44.09	39.43	71.85	-169.92	-1,475.86	960.17	902.92	57.26	16.770		
12,350.00	12,258.14	12,150.00	11,993.61	44.17	39.55	71.09	-188.61	-1,475.33	964.39	907.23	57.15	16.874		
12,400.00	12,289.29	12,188.32	12,009.01	44.24	39.77	70.14	-223.67	-1,474.42	968.15	910.94	57.21	16.923		
12,450.00	12,316.92	12,217.75	12,019.24	44.30	39.94	69.44	-251.26	-1,473.77	971.60	914.40	57.20	16.987		
12,500.00	12,340.80	12,250.00	12,028.79	44.36	40.14	68.81	-282.05	-1,473.13	974.61	917.38	57.23	17.031		
12,550.00	12,360.77	12,276.36	12,035.31	44.43	40.30	68.34	-307.58	-1,472.65	977.11	919.88	57.23	17.072		
12,600.00	12,376.67	12,300.00	12,040.15	44.50	40.44	67.99	-330.72	-1,472.26	979.11	921.86	57.26	17.100		
12,650.00	12,388.38	12,334.72	12,045.52	44.59	40.66	67.69	-365.01	-1,471.75	980.49	923.10	57.39	17.085		
12,700.00	12,395.81	12,363.85	12,048.42	44.69	40.84	67.54	-393.99	-1,471.38	981.31	923.79	57.52	17.060		
12,750.00	12,398.90	12,400.00	12,049.97	44.81	41.06	67.50	-430.10	-1,471.00	981.57	923.84	57.72	17.004		
12,760.48	12,399.00	12,400.00	12,049.97	44.83	41.06	67.50	-430.10	-1,471.00	981.49	923.75	57.74	16.999		
12,770.40	12,399.00	12,404.85	12,050.00	44.86	41.09	67.51	-434.95	-1,470.96	981.47	923.69	57.78	16.988		
12,800.00	12,399.00	12,433.30	12,050.00	44.94	41.28	67.51	-463.39	-1,470.71	981.50	923.55	57.95	16.938		
12,900.00	12,399.00	12,533.30	12,050.00	45.25	41.94	67.51	-563.39	-1,469.83	981.61	923.03	58.58	16.757		
13,000.00	12,399.00	12,633.30	12,050.00	45.62	42.66	67.51	-663.39	-1,468.96	981.72	922.43	59.29	16.558		
13,100.00	12,399.00	12,733.30	12,050.00	46.05	43.43	67.51	-763.38	-1,468.08	981.83	921.76	60.07	16.345		
13,200.00	12,399.00	12,833.30	12,050.00	46.53	44.25	67.52	-863.38	-1,467.20	981.94	921.02	60.92	16.119		
13,300.00	12,399.00	12,933.30	12,050.00	47.07	45.12	67.52	-963.38	-1,466.33	982.05	920.22	61.83	15.883		

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 804H
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 804H	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				
13,400.00	12,399.00	13,033.30	12,050.00	47.65	46.02	67.52	-1,063.37	-1,465.45	982.16	919.35	62.81	15.638				
13,500.00	12,399.00	13,133.30	12,050.00	48.29	46.97	67.53	-1,163.37	-1,464.58	982.27	918.42	63.84	15.385				
13,600.00	12,399.00	13,233.30	12,050.00	48.97	47.96	67.53	-1,263.36	-1,463.70	982.38	917.44	64.94	15.128				
13,700.00	12,399.00	13,333.30	12,050.00	49.70	48.98	67.53	-1,363.36	-1,462.82	982.48	916.40	66.09	14.866				
13,800.00	12,399.00	13,433.30	12,050.00	50.47	50.03	67.53	-1,463.36	-1,461.95	982.59	915.31	67.29	14.603				
13,900.00	12,399.00	13,533.30	12,050.00	51.29	51.12	67.54	-1,563.35	-1,461.07	982.70	914.17	68.54	14.339				
14,000.00	12,399.00	13,633.30	12,050.00	52.14	52.23	67.54	-1,663.35	-1,460.19	982.81	912.98	69.83	14.074				
14,100.00	12,399.00	13,733.30	12,050.00	53.03	53.38	67.54	-1,763.34	-1,459.32	982.92	911.75	71.17	13.811				
14,200.00	12,399.00	13,833.30	12,050.00	53.95	54.55	67.54	-1,863.34	-1,458.44	983.03	910.48	72.55	13.550				
14,300.00	12,399.00	13,933.30	12,050.00	54.91	55.74	67.55	-1,963.34	-1,457.57	983.14	909.18	73.97	13.292				
14,400.00	12,399.00	14,033.30	12,050.00	55.90	56.96	67.55	-2,063.33	-1,456.69	983.25	907.83	75.42	13.037				
14,500.00	12,399.00	14,133.30	12,050.00	56.93	58.20	67.55	-2,163.33	-1,455.81	983.36	906.45	76.91	12.786				
14,600.00	12,399.00	14,233.30	12,050.00	57.98	59.45	67.55	-2,263.32	-1,454.94	983.47	905.04	78.43	12.539				
14,700.00	12,399.00	14,333.30	12,050.00	59.06	60.73	67.56	-2,363.32	-1,454.06	983.58	903.60	79.98	12.297				
14,800.00	12,399.00	14,433.30	12,050.00	60.16	62.03	67.56	-2,463.32	-1,453.19	983.69	902.13	81.56	12.060				
14,900.00	12,399.00	14,533.30	12,050.00	61.29	63.34	67.56	-2,563.31	-1,452.31	983.80	900.63	83.17	11.829				
15,000.00	12,399.00	14,633.30	12,050.00	62.44	64.66	67.56	-2,663.31	-1,451.43	983.91	899.10	84.80	11.602				
15,100.00	12,399.00	14,733.30	12,050.00	63.61	66.00	67.57	-2,763.31	-1,450.56	984.02	897.56	86.46	11.381				
15,200.00	12,399.00	14,833.30	12,050.00	64.81	67.36	67.57	-2,863.30	-1,449.68	984.13	895.99	88.14	11.165				
15,300.00	12,399.00	14,933.30	12,050.00	66.02	68.73	67.57	-2,963.30	-1,448.81	984.24	894.39	89.84	10.955				
15,400.00	12,399.00	15,033.30	12,050.00	67.26	70.11	67.58	-3,063.29	-1,447.93	984.35	892.78	91.56	10.750				
15,500.00	12,399.00	15,133.30	12,050.00	68.51	71.50	67.58	-3,163.29	-1,447.05	984.45	891.15	93.30	10.551				
15,600.00	12,399.00	15,233.30	12,050.00	69.77	72.90	67.58	-3,263.29	-1,446.18	984.56	889.50	95.06	10.357				
15,700.00	12,399.00	15,333.30	12,050.00	71.06	74.31	67.58	-3,363.28	-1,445.30	984.67	887.84	96.84	10.168				
15,800.00	12,399.00	15,433.29	12,050.00	72.35	75.74	67.59	-3,463.28	-1,444.43	984.78	886.16	98.63	9.985				
15,900.00	12,399.00	15,533.29	12,050.00	73.67	77.17	67.59	-3,563.27	-1,443.55	984.89	884.46	100.43	9.806				
16,000.00	12,399.00	15,633.29	12,050.00	74.99	78.61	67.59	-3,663.27	-1,442.67	985.00	882.75	102.25	9.633				
16,100.00	12,399.00	15,733.29	12,050.00	76.33	80.06	67.59	-3,763.27	-1,441.80	985.11	881.02	104.09	9.464				
16,200.00	12,399.00	15,833.29	12,050.00	77.68	81.51	67.60	-3,863.26	-1,440.92	985.22	879.29	105.93	9.300				
16,300.00	12,399.00	15,933.29	12,050.00	79.04	82.98	67.60	-3,963.26	-1,440.04	985.33	877.54	107.79	9.141				
16,400.00	12,399.00	16,033.29	12,050.00	80.41	84.45	67.60	-4,063.25	-1,439.17	985.44	875.78	109.66	8.986				
16,500.00	12,399.00	16,133.29	12,050.00	81.80	85.92	67.60	-4,163.25	-1,438.29	985.55	874.01	111.54	8.836				
16,600.00	12,399.00	16,233.29	12,050.00	83.19	87.41	67.61	-4,263.25	-1,437.42	985.66	872.23	113.43	8.689				
16,700.00	12,399.00	16,333.29	12,050.00	84.59	88.89	67.61	-4,363.24	-1,436.54	985.77	870.43	115.33	8.547				
16,800.00	12,399.00	16,433.29	12,050.00	86.00	90.39	67.61	-4,463.24	-1,435.66	985.88	868.63	117.24	8.409				
16,900.00	12,399.00	16,533.29	12,050.00	87.42	91.89	67.61	-4,563.23	-1,434.79	985.99	866.83	119.16	8.274				
17,000.00	12,399.00	16,633.29	12,050.00	88.85	93.39	67.62	-4,663.23	-1,433.91	986.10	865.01	121.09	8.144				
17,100.00	12,399.00	16,733.29	12,050.00	90.28	94.90	67.62	-4,763.23	-1,433.04	986.21	863.18	123.02	8.016				
17,200.00	12,399.00	16,833.29	12,050.00	91.72	96.42	67.62	-4,863.22	-1,432.16	986.32	861.35	124.96	7.893				
17,300.00	12,399.00	16,933.29	12,050.00	93.17	97.94	67.63	-4,963.22	-1,431.28	986.43	859.51	126.91	7.772				
17,400.00	12,399.00	17,033.29	12,050.00	94.63	99.46	67.63	-5,063.22	-1,430.41	986.53	857.67	128.87	7.655				
17,500.00	12,399.00	17,133.29	12,050.00	96.09	100.99	67.63	-5,163.21	-1,429.53	986.64	855.81	130.83	7.541				
17,600.00	12,399.00	17,233.29	12,050.00	97.56	102.52	67.63	-5,263.21	-1,428.66	986.75	853.95	132.80	7.430				
17,700.00	12,399.00	17,333.29	12,050.00	99.03	104.05	67.64	-5,363.20	-1,427.78	986.86	852.09	134.77	7.322				
17,800.00	12,399.00	17,433.29	12,050.00	100.51	105.59	67.64	-5,463.20	-1,426.90	986.97	850.22	136.75	7.217				
17,900.00	12,399.00	17,533.29	12,050.00	102.00	107.13	67.64	-5,563.20	-1,426.03	987.08	848.35	138.74	7.115				
18,000.00	12,399.00	17,633.29	12,050.00	103.48	108.68	67.64	-5,663.19	-1,425.15	987.19	846.46	140.73	7.015				
18,100.00	12,399.00	17,733.29	12,050.00	104.98	110.23	67.65	-5,763.19	-1,424.28	987.30	844.58	142.72	6.918				
18,200.00	12,399.00	17,833.29	12,050.00	106.48	111.78	67.65	-5,863.18	-1,423.40	987.41	842.69	144.72	6.823				
18,300.00	12,399.00	17,933.29	12,050.00	107.98	113.33	67.65	-5,963.18	-1,422.52	987.52	840.80	146.72	6.730				
18,400.00	12,399.00	18,033.29	12,050.00	109.49	114.89	67.65	-6,063.18	-1,421.65	987.63	838.90	148.73	6.640				
18,500.00	12,399.00	18,133.29	12,050.00	111.00	116.45	67.66	-6,163.17	-1,420.77	987.74	837.00	150.74	6.552				

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 804H
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 804H	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				
18,600.00	12,399.00	18,233.29	12,050.00	112.52	118.01	67.66	-6,263.17	-1,419.89	987.85	835.09	152.76	6.467				
18,700.00	12,399.00	18,333.29	12,050.00	114.04	119.57	67.66	-6,363.16	-1,419.02	987.96	833.18	154.78	6.383				
18,800.00	12,399.00	18,433.29	12,050.00	115.56	121.14	67.66	-6,463.16	-1,418.14	988.07	831.27	156.80	6.301				
18,900.00	12,399.00	18,533.29	12,050.00	117.09	122.71	67.67	-6,563.16	-1,417.27	988.18	829.35	158.83	6.222				
19,000.00	12,399.00	18,633.29	12,050.00	118.62	124.28	67.67	-6,663.15	-1,416.39	988.29	827.43	160.85	6.144				
19,100.00	12,399.00	18,733.29	12,050.00	120.15	125.85	67.67	-6,763.15	-1,415.51	988.40	825.51	162.89	6.068				
19,200.00	12,399.00	18,833.29	12,050.00	121.69	127.42	67.67	-6,863.14	-1,414.64	988.51	823.58	164.92	5.994				
19,300.00	12,399.00	18,933.29	12,050.00	123.22	129.00	67.68	-6,963.14	-1,413.76	988.62	821.66	166.96	5.921				
19,400.00	12,399.00	19,033.29	12,050.00	124.77	130.58	67.68	-7,063.14	-1,412.89	988.73	819.73	169.00	5.851				
19,500.00	12,399.00	19,133.29	12,050.00	126.31	132.16	67.68	-7,163.13	-1,412.01	988.83	817.80	171.04	5.781				
19,600.00	12,399.00	19,233.29	12,050.00	127.86	133.74	67.69	-7,263.13	-1,411.13	988.94	815.86	173.08	5.714				
19,700.00	12,399.00	19,333.29	12,050.00	129.41	135.32	67.69	-7,363.13	-1,410.26	989.05	813.92	175.13	5.647				
19,800.00	12,399.00	19,433.29	12,050.00	130.96	136.91	67.69	-7,463.12	-1,409.38	989.16	811.98	177.18	5.583				
19,900.00	12,399.00	19,533.29	12,050.00	132.52	138.50	67.69	-7,563.12	-1,408.51	989.27	810.04	179.23	5.520				
20,000.00	12,399.00	19,633.29	12,050.00	134.07	140.08	67.70	-7,663.11	-1,407.63	989.38	808.10	181.28	5.458				
20,100.00	12,399.00	19,733.29	12,050.00	135.63	141.67	67.70	-7,763.11	-1,406.75	989.49	806.15	183.34	5.397				
20,200.00	12,399.00	19,833.29	12,050.00	137.20	143.27	67.70	-7,863.11	-1,405.88	989.60	804.21	185.40	5.338				
20,300.00	12,399.00	19,933.29	12,050.00	138.76	144.86	67.70	-7,963.10	-1,405.00	989.71	802.26	187.45	5.280				
20,400.00	12,399.00	20,033.29	12,050.00	140.32	146.45	67.71	-8,063.10	-1,404.13	989.82	800.31	189.51	5.223				
20,500.00	12,399.00	20,133.29	12,050.00	141.89	148.05	67.71	-8,163.09	-1,403.25	989.93	798.36	191.58	5.167				
20,600.00	12,399.00	20,233.29	12,050.00	143.46	149.64	67.71	-8,263.09	-1,402.37	990.04	796.40	193.64	5.113				
20,700.00	12,399.00	20,333.29	12,050.00	145.03	151.24	67.71	-8,363.09	-1,401.50	990.15	794.45	195.70	5.059				
20,800.00	12,399.00	20,433.29	12,050.00	146.61	152.84	67.72	-8,463.08	-1,400.62	990.26	792.49	197.77	5.007				
20,900.00	12,399.00	20,533.29	12,050.00	148.18	154.44	67.72	-8,563.08	-1,399.75	990.37	790.53	199.84	4.956				
21,000.00	12,399.00	20,633.29	12,050.00	149.76	156.04	67.72	-8,663.07	-1,398.87	990.48	788.57	201.90	4.906				
21,100.00	12,399.00	20,733.29	12,050.00	151.34	157.64	67.72	-8,763.07	-1,397.99	990.59	786.61	203.97	4.856				
21,200.00	12,399.00	20,833.29	12,050.00	152.92	159.24	67.73	-8,863.07	-1,397.12	990.70	784.65	206.05	4.808				
21,300.00	12,399.00	20,933.29	12,050.00	154.50	160.85	67.73	-8,963.06	-1,396.24	990.81	782.69	208.12	4.761				
21,400.00	12,399.00	21,033.29	12,050.00	156.08	162.45	67.73	-9,063.06	-1,395.36	990.92	780.73	210.19	4.714				
21,500.00	12,399.00	21,133.29	12,050.00	157.66	164.06	67.73	-9,163.06	-1,394.49	991.03	778.76	212.26	4.669				
21,600.00	12,399.00	21,233.29	12,050.00	159.25	165.66	67.74	-9,263.05	-1,393.61	991.14	776.80	214.34	4.624				
21,700.00	12,399.00	21,333.29	12,050.00	160.84	167.27	67.74	-9,363.05	-1,392.74	991.25	774.83	216.41	4.580				
21,800.00	12,399.00	21,433.29	12,050.00	162.42	168.88	67.74	-9,463.04	-1,391.86	991.35	772.87	218.49	4.537				
21,900.00	12,399.00	21,533.29	12,050.00	164.01	170.49	67.74	-9,563.04	-1,390.98	991.46	770.90	220.57	4.495				
22,000.00	12,399.00	21,633.29	12,050.00	165.60	172.10	67.75	-9,663.04	-1,390.11	991.57	768.93	222.64	4.454				
22,100.00	12,399.00	21,733.29	12,050.00	167.19	173.71	67.75	-9,763.03	-1,389.23	991.68	766.96	224.72	4.413				
22,200.00	12,399.00	21,833.29	12,050.00	168.79	175.32	67.75	-9,863.03	-1,388.36	991.79	764.99	226.80	4.373				
22,300.00	12,399.00	21,933.29	12,050.00	170.38	176.93	67.76	-9,963.02	-1,387.48	991.90	763.02	228.88	4.334				
22,400.00	12,399.00	22,033.29	12,050.00	171.98	178.54	67.76	-10,063.02	-1,386.60	992.01	761.05	230.96	4.295				
22,500.00	12,399.00	22,133.29	12,050.00	173.57	180.16	67.76	-10,163.02	-1,385.73	992.12	759.08	233.04	4.257				
22,600.00	12,399.00	22,233.29	12,050.00	175.17	181.77	67.76	-10,263.01	-1,384.85	992.23	757.11	235.12	4.220				
22,700.00	12,399.00	22,333.29	12,050.00	176.77	183.39	67.77	-10,363.01	-1,383.98	992.34	755.14	237.20	4.183				
22,800.00	12,399.00	22,433.29	12,050.00	178.37	185.00	67.77	-10,463.00	-1,383.10	992.45	753.17	239.28	4.148				
22,900.00	12,399.00	22,533.29	12,050.00	179.97	186.62	67.77	-10,563.00	-1,382.22	992.56	751.19	241.37	4.112				
23,000.00	12,399.00	22,633.29	12,050.00	181.57	188.23	67.77	-10,663.00	-1,381.35	992.67	749.22	243.45	4.078				
23,100.00	12,399.00	22,733.29	12,050.00	183.17	189.85	67.78	-10,762.99	-1,380.47	992.78	747.25	245.53	4.043				
23,200.00	12,399.00	22,833.29	12,050.00	184.77	191.47	67.78	-10,862.99	-1,379.60	992.89	745.27	247.62	4.010				
23,300.00	12,399.00	22,933.29	12,050.00	186.38	193.09	67.78	-10,962.98	-1,378.72	993.00	743.30	249.70	3.977				
23,400.00	12,399.00	23,033.29	12,050.00	187.98	194.71	67.78	-11,062.98	-1,377.84	993.11	741.33	251.78	3.944				
23,500.00	12,399.00	23,133.29	12,050.00	189.58	196.33	67.79	-11,162.98	-1,376.97	993.22	739.35	253.87	3.912				
23,600.00	12,399.00	23,233.29	12,050.00	191.19	197.95	67.79	-11,262.97	-1,376.09	993.33	737.38	255.95	3.881				
23,700.00	12,399.00	23,333.29	12,050.00	192.80	199.57	67.79	-11,362.97	-1,375.21	993.44	735.40	258.04	3.850				

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 804H
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 804H	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	
23,800.00	12,399.00	23,433.29	12,050.00	194.41	201.13	67.79	-11,462.97	-1,374.34	993.55	733.47	260.07	3.820	
23,874.38	12,399.00	23,504.65	12,050.00	195.60	202.16	67.80	-11,534.32	-1,373.71	993.63	732.13	261.50	3.800 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 804H
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 804H	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	-83.42	425.44	-3,690.03	3,714.48					
100.00	100.00	139.00	139.00	0.13	0.27	-83.42	425.44	-3,690.03	3,714.48	3,714.18	0.29	N/A		
200.00	200.00	239.00	239.00	0.48	0.62	-83.42	425.44	-3,690.03	3,714.48	3,713.69	0.79	4,705.087		
300.00	300.00	339.00	339.00	0.84	0.98	-83.42	425.44	-3,690.03	3,714.48	3,713.18	1.29	2,870.577		
400.00	400.00	439.00	439.00	1.20	1.34	-83.42	425.44	-3,690.03	3,714.48	3,712.68	1.80	2,063.744		
500.00	500.00	539.00	539.00	1.56	1.70	-83.42	425.44	-3,690.03	3,714.48	3,712.17	2.31	1,610.626		
600.00	600.00	639.00	639.00	1.92	2.06	-83.42	425.44	-3,690.03	3,714.48	3,711.67	2.81	1,320.560		
700.00	700.00	739.00	739.00	2.28	2.42	-83.42	425.44	-3,690.03	3,714.48	3,711.16	3.32	1,118.989		
800.00	800.00	839.00	839.00	2.63	2.77	-83.42	425.44	-3,690.03	3,714.48	3,710.65	3.83	970.787		
900.00	900.00	939.00	939.00	2.99	3.13	-83.42	425.44	-3,690.03	3,714.48	3,710.15	4.33	857.241		
1,000.00	1,000.00	1,039.00	1,039.00	3.35	3.49	-83.42	425.44	-3,690.03	3,714.48	3,709.64	4.84	767.470		
1,100.00	1,100.00	1,139.00	1,139.00	3.71	3.85	-83.42	425.44	-3,690.03	3,714.48	3,709.13	5.35	694.716		
1,200.00	1,200.00	1,239.00	1,239.00	4.07	4.21	-83.42	425.44	-3,690.03	3,714.48	3,708.62	5.85	634.559		
1,300.00	1,300.00	1,339.00	1,339.00	4.43	4.57	-83.42	425.44	-3,690.03	3,714.48	3,708.12	6.36	583.989		
1,400.00	1,400.00	1,439.00	1,439.00	4.79	4.93	-83.42	425.44	-3,690.03	3,714.48	3,707.61	6.87	540.884		
1,500.00	1,500.00	1,539.00	1,539.00	5.14	5.28	-83.42	425.44	-3,690.03	3,714.48	3,707.10	7.37	503.704		
1,600.00	1,600.00	1,639.00	1,639.00	5.50	5.64	-83.42	425.44	-3,690.03	3,714.48	3,706.60	7.88	471.306		
1,700.00	1,700.00	1,739.00	1,739.00	5.86	6.00	-83.42	425.44	-3,690.03	3,714.48	3,706.09	8.39	442.824		
1,800.00	1,800.00	1,839.00	1,839.00	6.22	6.36	-83.42	425.44	-3,690.03	3,714.48	3,705.58	8.90	417.588		
1,900.00	1,900.00	1,939.00	1,939.00	6.58	6.72	-83.42	425.44	-3,690.03	3,714.48	3,705.08	9.40	395.073		
2,000.00	2,000.00	2,039.00	2,039.00	6.94	7.08	-83.42	425.44	-3,690.03	3,714.48	3,704.57	9.91	374.861		
2,100.00	2,099.99	2,138.99	2,138.99	7.29	7.43	-8.83	425.44	-3,690.03	3,713.18	3,702.77	10.41	356.654		
2,200.00	2,199.91	2,238.91	2,238.91	7.64	7.79	-8.85	425.44	-3,690.03	3,709.31	3,698.40	10.91	340.012		
2,300.00	2,299.69	2,338.69	2,338.69	7.99	8.15	-8.88	425.44	-3,690.03	3,702.84	3,691.44	11.41	324.590		
2,400.00	2,399.27	2,438.27	2,438.27	8.34	8.51	-8.92	425.44	-3,690.03	3,693.80	3,681.90	11.91	310.247		
2,458.69	2,457.58	2,496.58	2,496.58	8.55	8.72	-8.95	425.44	-3,690.03	3,687.30	3,675.10	12.20	302.275		
2,500.00	2,498.60	2,537.60	2,537.60	8.70	8.86	-8.96	425.44	-3,690.03	3,682.41	3,670.00	12.40	296.871		
2,600.00	2,597.88	2,636.88	2,636.88	9.06	9.22	-8.99	425.44	-3,690.03	3,670.57	3,657.67	12.90	284.506		
2,700.00	2,697.16	2,736.16	2,736.16	9.43	9.58	-9.02	425.44	-3,690.03	3,658.74	3,645.34	13.40	273.038		
2,800.00	2,796.44	2,835.44	2,835.44	9.80	9.93	-9.05	425.44	-3,690.03	3,646.91	3,633.01	13.90	262.376		
2,900.00	2,895.72	2,934.72	2,934.72	10.17	10.29	-9.08	425.44	-3,690.03	3,635.08	3,620.68	14.40	252.440		
3,000.00	2,995.00	3,034.00	3,034.00	10.54	10.64	-9.11	425.44	-3,690.03	3,623.24	3,608.34	14.90	243.159		
3,100.00	3,094.28	3,133.28	3,133.28	10.92	11.00	-9.14	425.44	-3,690.03	3,611.41	3,596.01	15.40	234.472		
3,200.00	3,193.56	3,232.56	3,232.56	11.30	11.35	-9.17	425.44	-3,690.03	3,599.59	3,583.68	15.90	226.324		
3,300.00	3,292.84	3,331.84	3,331.84	11.68	11.71	-9.20	425.44	-3,690.03	3,587.76	3,571.35	16.41	218.668		
3,400.00	3,392.12	3,431.12	3,431.12	12.06	12.07	-9.23	425.44	-3,690.03	3,575.93	3,559.02	16.91	211.460		
3,500.00	3,491.40	3,530.40	3,530.40	12.45	12.42	-9.26	425.44	-3,690.03	3,564.10	3,546.69	17.41	204.665		
3,600.00	3,590.68	3,629.68	3,629.68	12.83	12.78	-9.29	425.44	-3,690.03	3,552.28	3,534.36	17.92	198.246		
3,700.00	3,689.96	3,720.00	3,720.00	13.22	13.10	-9.32	425.44	-3,690.03	3,540.47	3,522.07	18.40	192.406		
3,800.00	3,789.24	3,800.00	3,799.99	13.60	13.37	-9.36	424.67	-3,690.35	3,528.98	3,510.13	18.85	187.232		
3,900.00	3,888.52	3,885.11	3,885.06	13.99	13.65	-9.43	422.14	-3,691.38	3,518.06	3,498.76	19.30	182.307		
4,000.00	3,987.80	3,964.00	3,963.83	14.38	13.91	-9.52	418.23	-3,692.98	3,507.73	3,488.00	19.73	177.752		
4,100.00	4,087.08	4,042.72	4,042.34	14.77	14.16	-9.64	412.83	-3,695.19	3,498.00	3,477.83	20.17	173.419		
4,200.00	4,186.36	4,139.07	4,138.32	15.16	14.48	-9.81	405.08	-3,698.35	3,488.66	3,468.01	20.65	168.944		
4,300.00	4,285.64	4,238.10	4,236.97	15.56	14.81	-9.98	397.09	-3,701.62	3,479.35	3,458.21	21.14	164.610		
4,400.00	4,384.92	4,337.12	4,335.62	15.95	15.14	-10.15	389.11	-3,704.88	3,470.07	3,448.44	21.63	160.458		
4,500.00	4,484.20	4,436.15	4,434.27	16.34	15.47	-10.32	381.13	-3,708.14	3,460.82	3,438.70	22.12	156.478		
4,600.00	4,583.48	4,535.18	4,532.92	16.74	15.81	-10.49	373.15	-3,711.40	3,451.60	3,428.99	22.61	152.659		
4,700.00	4,682.76	4,634.20	4,631.57	17.13	16.14	-10.66	365.16	-3,714.66	3,442.42	3,419.31	23.10	148.994		
4,800.00	4,782.04	4,733.23	4,730.22	17.53	16.48	-10.84	357.18	-3,717.92	3,433.26	3,409.66	23.60	145.474		
4,900.00	4,881.32	4,832.26	4,828.88	17.92	16.82	-11.01	349.20	-3,721.18	3,424.14	3,400.04	24.10	142.092		
5,000.00	4,980.60	4,931.28	4,927.53	18.32	17.17	-11.19	341.22	-3,724.45	3,415.05	3,390.46	24.60	138.840		

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 804H
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 804H	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	5,079.88	5,030.31	5,026.18	18.71	17.51	-11.37	333.24	-3,727.71	3,406.00	3,380.90	25.10	135.711		
5,200.00	5,179.16	5,129.34	5,124.83	19.11	17.86	-11.55	325.25	-3,730.97	3,396.97	3,371.37	25.60	132.699		
5,300.00	5,278.44	5,228.36	5,223.48	19.51	18.20	-11.73	317.27	-3,734.23	3,387.98	3,361.88	26.10	129.799		
5,400.00	5,377.72	5,327.39	5,322.13	19.90	18.55	-11.91	309.29	-3,737.49	3,379.03	3,352.42	26.61	127.004		
5,500.00	5,477.00	5,426.42	5,420.78	20.30	18.90	-12.09	301.31	-3,740.75	3,370.10	3,342.99	27.11	124.310		
5,600.00	5,576.28	5,525.44	5,519.43	20.70	19.25	-12.27	293.33	-3,744.01	3,361.21	3,333.60	27.62	121.711		
5,700.00	5,675.56	5,624.47	5,618.08	21.10	19.61	-12.45	285.34	-3,747.27	3,352.36	3,324.24	28.12	119.203		
5,800.00	5,774.84	5,723.50	5,716.73	21.50	19.96	-12.64	277.36	-3,750.54	3,343.54	3,314.91	28.63	116.781		
5,900.00	5,874.12	5,822.52	5,815.38	21.90	20.31	-12.82	269.38	-3,753.80	3,334.75	3,305.61	29.14	114.441		
6,000.00	5,973.40	5,921.55	5,914.03	22.30	20.67	-13.01	261.40	-3,757.06	3,326.00	3,296.35	29.65	112.179		
6,100.00	6,072.68	6,020.58	6,012.68	22.70	21.03	-13.19	253.42	-3,760.32	3,317.29	3,287.13	30.16	109.993		
6,200.00	6,171.96	6,119.60	6,111.33	23.10	21.38	-13.38	245.43	-3,763.58	3,308.61	3,277.94	30.67	107.877		
6,300.00	6,271.24	6,218.63	6,209.98	23.50	21.74	-13.57	237.45	-3,766.84	3,299.96	3,268.78	31.18	105.830		
6,400.00	6,370.52	6,317.66	6,308.63	23.90	22.10	-13.76	229.47	-3,770.10	3,291.36	3,259.66	31.69	103.848		
6,500.00	6,469.80	6,416.68	6,407.28	24.30	22.46	-13.95	221.49	-3,773.37	3,282.78	3,250.58	32.21	101.928		
6,600.00	6,569.08	6,515.71	6,505.94	24.70	22.82	-14.14	213.50	-3,776.63	3,274.25	3,241.53	32.72	100.067		
6,700.00	6,668.36	6,614.74	6,604.59	25.10	23.18	-14.33	205.52	-3,779.89	3,265.75	3,232.52	33.23	98.264		
6,800.00	6,767.64	6,713.76	6,703.24	25.50	23.55	-14.53	197.54	-3,783.15	3,257.29	3,223.54	33.75	96.514		
6,900.00	6,866.91	6,812.79	6,801.89	25.90	23.91	-14.72	189.56	-3,786.41	3,248.87	3,214.60	34.26	94.817		
6,934.75	6,901.42	6,847.20	6,836.17	26.04	24.04	-14.79	186.78	-3,787.54	3,245.95	3,211.51	34.44	94.239		
7,000.00	6,966.26	6,911.88	6,900.60	26.30	24.27	-14.90	181.57	-3,789.67	3,241.02	3,206.24	34.78	93.186		
7,100.00	7,065.85	7,011.18	6,999.53	26.68	24.64	-15.06	173.57	-3,792.94	3,235.58	3,200.29	35.29	91.674		
7,200.00	7,165.65	7,110.66	7,098.63	27.05	25.00	-15.22	165.55	-3,796.22	3,232.70	3,196.89	35.81	90.281		
7,262.96	7,228.55	7,173.35	7,161.08	27.27	25.23	-15.32	160.49	-3,798.29	3,232.19	3,196.06	36.13	89.464 CC		
7,300.00	7,265.57	7,210.25	7,197.84	27.41	25.37	-15.38	157.52	-3,799.50	3,232.37	3,196.05	36.32	89.003		
7,393.44	7,359.00	7,303.33	7,290.57	27.72	25.71	-15.12	150.02	-3,802.57	3,234.36	3,197.57	36.79	87.914		
7,400.00	7,365.56	7,309.87	7,297.08	27.74	25.74	-15.13	149.49	-3,802.78	3,234.58	3,197.75	36.82	87.841		
7,500.00	7,465.56	7,409.49	7,396.32	28.08	26.11	-15.28	141.46	-3,806.06	3,237.91	3,200.58	37.33	86.747		
7,600.00	7,565.56	7,535.12	7,521.54	28.41	26.57	-15.44	132.10	-3,809.89	3,241.05	3,203.16	37.89	85.538		
7,700.00	7,665.56	7,683.81	7,670.06	28.74	27.10	-15.55	125.64	-3,812.53	3,242.86	3,204.37	38.50	84.235		
7,800.00	7,765.56	7,818.33	7,804.56	29.07	27.57	-15.68	124.30	-3,813.07	3,243.24	3,204.18	39.06	83.035		
7,900.00	7,865.56	7,918.33	7,904.56	29.41	27.91	-15.78	124.30	-3,813.07	3,243.24	3,203.69	39.55	82.013		
8,000.00	7,965.56	8,018.33	8,004.56	29.74	28.25	-15.88	124.30	-3,813.07	3,243.24	3,203.21	40.03	81.015		
8,100.00	8,065.56	8,118.33	8,104.56	30.08	28.59	-15.98	124.30	-3,813.07	3,243.24	3,202.72	40.52	80.040		
8,200.00	8,165.56	8,218.33	8,204.56	30.41	28.94	-16.08	124.30	-3,813.07	3,243.24	3,202.23	41.01	79.087		
8,300.00	8,265.56	8,318.33	8,304.56	30.75	29.28	-16.18	124.30	-3,813.07	3,243.24	3,201.74	41.50	78.156		
8,400.00	8,365.56	8,418.33	8,404.56	31.09	29.62	-16.28	124.30	-3,813.07	3,243.24	3,201.25	41.99	77.246		
8,500.00	8,465.56	8,518.33	8,504.56	31.42	29.97	-16.38	124.30	-3,813.07	3,243.24	3,200.76	42.48	76.356		
8,600.00	8,565.56	8,618.33	8,604.56	31.76	30.31	-16.48	124.30	-3,813.07	3,243.24	3,200.27	42.97	75.485		
8,700.00	8,665.56	8,718.33	8,704.56	32.10	30.66	-16.58	124.30	-3,813.07	3,243.24	3,199.78	43.46	74.634		
8,800.00	8,765.56	8,818.33	8,804.56	32.44	31.00	-16.68	124.30	-3,813.07	3,243.24	3,199.29	43.95	73.801		
8,900.00	8,865.56	8,918.33	8,904.56	32.78	31.35	-16.78	124.30	-3,813.07	3,243.24	3,198.80	44.44	72.985		
9,000.00	8,965.56	9,018.33	9,004.56	33.12	31.69	-16.88	124.30	-3,813.07	3,243.24	3,198.31	44.93	72.187		
9,100.00	9,065.56	9,118.33	9,104.56	33.45	32.04	-16.98	124.30	-3,813.07	3,243.24	3,197.82	45.42	71.406		
9,200.00	9,165.56	9,218.33	9,204.56	33.79	32.38	-17.08	124.30	-3,813.07	3,243.24	3,197.33	45.91	70.640		
9,300.00	9,265.56	9,318.33	9,304.56	34.14	32.73	-17.18	124.30	-3,813.07	3,243.24	3,196.83	46.40	69.891		
9,400.00	9,365.56	9,418.33	9,404.56	34.48	33.08	-17.28	124.30	-3,813.07	3,243.24	3,196.34	46.90	69.157		
9,500.00	9,465.56	9,518.33	9,504.56	34.82	33.42	-17.38	124.30	-3,813.07	3,243.24	3,195.85	47.39	68.437		
9,600.00	9,565.56	9,618.33	9,604.56	35.16	33.77	-17.48	124.30	-3,813.07	3,243.24	3,195.36	47.88	67.733		
9,700.00	9,665.56	9,718.33	9,704.56	35.50	34.12	-17.58	124.30	-3,813.07	3,243.24	3,194.86	48.38	67.042		
9,800.00	9,765.56	9,818.33	9,804.56	35.84	34.46	-17.68	124.30	-3,813.07	3,243.24	3,194.37	48.87	66.364		
9,900.00	9,865.56	9,918.33	9,904.56	36.19	34.81	-17.78	124.30	-3,813.07	3,243.24	3,193.87	49.36	65.700		

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 804H
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 804H	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	9,965.56	10,018.33	10,004.56	36.53	35.16	-90.58	124.30	-3,813.07	3,243.24	3,193.38	49.86	65.049		
10,100.00	10,065.56	10,118.33	10,104.56	36.87	35.51	-90.58	124.30	-3,813.07	3,243.24	3,192.89	50.35	64.410		
10,200.00	10,165.56	10,218.33	10,204.56	37.21	35.86	-90.58	124.30	-3,813.07	3,243.24	3,192.39	50.85	63.783		
10,300.00	10,265.56	10,318.33	10,304.56	37.56	36.20	-90.58	124.30	-3,813.07	3,243.24	3,191.90	51.34	63.168		
10,400.00	10,365.56	10,418.33	10,404.56	37.90	36.55	-90.58	124.30	-3,813.07	3,243.24	3,191.40	51.84	62.564		
10,500.00	10,465.56	10,518.33	10,504.56	38.25	36.90	-90.58	124.30	-3,813.07	3,243.24	3,190.90	52.33	61.972		
10,600.00	10,565.56	10,618.33	10,604.56	38.59	37.25	-90.58	124.30	-3,813.07	3,243.24	3,190.41	52.83	61.391		
10,700.00	10,665.56	10,718.33	10,704.56	38.94	37.60	-90.58	124.30	-3,813.07	3,243.24	3,189.91	53.33	60.820		
10,800.00	10,765.56	10,818.33	10,804.56	39.28	37.95	-90.58	124.30	-3,813.07	3,243.24	3,189.42	53.82	60.259		
10,900.00	10,865.56	10,918.33	10,904.56	39.63	38.30	-90.58	124.30	-3,813.07	3,243.24	3,188.92	54.32	59.708		
11,000.00	10,965.56	11,018.33	11,004.56	39.97	38.65	-90.58	124.30	-3,813.07	3,243.24	3,188.42	54.81	59.168		
11,100.00	11,065.56	11,118.33	11,104.56	40.32	39.00	-90.58	124.30	-3,813.07	3,243.24	3,187.93	55.31	58.636		
11,200.00	11,165.56	11,218.33	11,204.56	40.66	39.35	-90.58	124.30	-3,813.07	3,243.24	3,187.43	55.81	58.114		
11,300.00	11,265.56	11,318.33	11,304.56	41.01	39.70	-90.58	124.30	-3,813.07	3,243.24	3,186.93	56.31	57.601		
11,311.12	11,276.68	11,329.45	11,315.68	41.05	39.74	-90.58	124.30	-3,813.07	3,243.24	3,186.88	56.36	57.545		
11,400.00	11,365.56	11,418.22	11,404.45	41.36	40.05	-90.58	124.12	-3,813.07	3,243.24	3,186.44	56.80	57.097		
11,500.00	11,465.56	11,516.00	11,501.52	41.70	40.40	-90.77	113.35	-3,812.98	3,243.27	3,185.97	57.30	56.600		
11,600.00	11,565.56	11,607.63	11,589.59	42.05	40.75	-91.21	88.42	-3,812.76	3,243.52	3,185.72	57.80	56.113		
11,700.00	11,665.56	11,689.60	11,664.12	42.40	41.07	-91.81	54.48	-3,812.46	3,244.34	3,186.04	58.29	55.656		
11,800.00	11,765.56	11,760.56	11,724.18	42.74	41.36	-92.48	16.76	-3,812.14	3,246.16	3,187.41	58.76	55.247		
11,860.48	11,826.04	11,800.00	11,755.40	42.95	41.53	-92.90	-7.33	-3,811.93	3,247.94	3,188.91	59.03	55.023		
11,900.00	11,865.53	11,821.51	11,771.70	43.08	41.62	87.29	-21.35	-3,811.80	3,249.36	3,190.17	59.19	54.899		
11,950.00	11,915.20	11,850.00	11,792.47	43.24	41.75	86.79	-40.85	-3,811.63	3,251.34	3,191.96	59.38	54.752		
12,000.00	11,964.19	11,879.49	11,812.92	43.39	41.88	86.28	-62.10	-3,811.45	3,253.48	3,193.91	59.58	54.611		
12,050.00	12,012.13	11,900.00	11,826.48	43.53	41.97	85.86	-77.48	-3,811.31	3,255.76	3,196.03	59.73	54.508		
12,100.00	12,058.65	11,936.48	11,849.21	43.66	42.13	85.30	-106.00	-3,811.06	3,258.07	3,198.14	59.93	54.361		
12,150.00	12,103.40	11,964.68	11,865.51	43.78	42.27	84.83	-129.01	-3,810.86	3,260.44	3,200.33	60.10	54.247		
12,200.00	12,146.04	12,000.00	11,884.30	43.90	42.43	84.33	-158.91	-3,810.60	3,262.80	3,202.51	60.29	54.115		
12,250.00	12,186.24	12,020.64	11,894.42	44.00	42.53	83.95	-176.90	-3,810.45	3,265.09	3,204.66	60.43	54.032		
12,300.00	12,223.71	12,050.00	11,907.67	44.09	42.68	83.55	-203.09	-3,810.22	3,267.30	3,206.71	60.59	53.922		
12,350.00	12,258.14	12,076.13	11,918.33	44.17	42.81	83.19	-226.94	-3,810.01	3,269.39	3,208.64	60.75	53.820		
12,400.00	12,289.29	12,100.00	11,927.10	44.24	42.92	82.87	-249.14	-3,809.82	3,271.33	3,210.43	60.89	53.724		
12,450.00	12,316.92	12,131.28	11,937.19	44.30	43.08	82.56	-278.74	-3,809.56	3,273.07	3,212.00	61.07	53.597		
12,500.00	12,340.80	12,150.00	11,942.45	44.36	43.18	82.33	-296.71	-3,809.40	3,274.63	3,213.43	61.20	53.505		
12,550.00	12,360.77	12,186.19	11,950.94	44.43	43.37	82.08	-331.88	-3,809.09	3,275.92	3,214.52	61.41	53.348		
12,600.00	12,376.67	12,213.58	11,955.87	44.50	43.51	81.91	-358.82	-3,808.86	3,276.98	3,215.40	61.58	53.211		
12,650.00	12,388.38	12,250.00	11,960.44	44.59	43.70	81.77	-394.95	-3,808.54	3,277.79	3,215.99	61.80	53.038		
12,700.00	12,395.81	12,268.29	11,961.86	44.69	43.80	81.70	-413.19	-3,808.38	3,278.29	3,216.33	61.96	52.910		
12,750.00	12,398.90	12,297.58	11,962.92	44.81	43.95	81.67	-442.44	-3,808.13	3,278.52	3,216.36	62.16	52.740		
12,760.48	12,399.00	12,304.50	11,963.00	44.83	43.99	81.67	-449.36	-3,808.07	3,278.53	3,216.32	62.21	52.700		
12,800.00	12,399.00	12,344.02	11,963.43	44.94	44.21	81.68	-488.88	-3,807.72	3,278.52	3,216.07	62.44	52.504		
12,900.00	12,399.00	12,444.01	11,964.51	45.25	44.79	81.70	-588.86	-3,806.85	3,278.48	3,215.40	63.08	51.976		
13,000.00	12,399.00	12,544.01	11,965.59	45.62	45.42	81.72	-688.85	-3,805.98	3,278.45	3,214.66	63.79	51.395		
13,100.00	12,399.00	12,644.00	11,966.67	46.05	46.11	81.73	-788.83	-3,805.11	3,278.41	3,213.84	64.58	50.768		
13,200.00	12,399.00	12,743.99	11,967.75	46.53	46.84	81.75	-888.82	-3,804.23	3,278.38	3,212.94	65.44	50.101		
13,300.00	12,399.00	12,843.99	11,968.83	47.07	47.62	81.77	-988.80	-3,803.36	3,278.34	3,211.98	66.37	49.398		
13,400.00	12,399.00	12,943.98	11,969.91	47.65	48.44	81.79	-1,088.79	-3,802.49	3,278.31	3,210.95	67.36	48.667		
13,500.00	12,399.00	13,043.98	11,970.99	48.29	49.31	81.81	-1,188.77	-3,801.62	3,278.28	3,209.85	68.42	47.912		
13,600.00	12,399.00	13,143.97	11,972.07	48.97	50.21	81.83	-1,288.76	-3,800.75	3,278.24	3,208.70	69.54	47.139		
13,700.00	12,399.00	13,243.97	11,973.15	49.70	51.15	81.85	-1,388.74	-3,799.87	3,278.21	3,207.49	70.72	46.352		
13,800.00	12,399.00	13,343.96	11,974.23	50.47	52.13	81.87	-1,488.72	-3,799.00	3,278.18	3,206.22	71.96	45.556		
13,900.00	12,399.00	13,443.95	11,975.31	51.29	53.14	81.89	-1,588.71	-3,798.13	3,278.15	3,204.90	73.25	44.754		

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 804H
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 804H	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	12,399.00	13,543.95	11,976.40	52.14	54.18	81.91	-1,688.69	-3,797.26	3,278.11	3,203.53	74.59	43.951			
14,100.00	12,399.00	13,643.94	11,977.48	53.03	55.25	81.92	-1,788.68	-3,796.38	3,278.08	3,202.11	75.97	43.150			
14,200.00	12,399.00	13,743.94	11,978.56	53.95	56.35	81.94	-1,888.66	-3,795.51	3,278.05	3,200.65	77.40	42.353			
14,300.00	12,399.00	13,843.93	11,979.64	54.91	57.47	81.96	-1,988.65	-3,794.64	3,278.02	3,199.15	78.87	41.562			
14,400.00	12,399.00	13,943.92	11,980.72	55.90	58.62	81.98	-2,088.63	-3,793.77	3,277.99	3,197.61	80.38	40.780			
14,500.00	12,399.00	14,043.92	11,981.80	56.93	59.80	82.00	-2,188.62	-3,792.89	3,277.96	3,196.03	81.93	40.008			
14,600.00	12,399.00	14,143.91	11,982.88	57.98	60.99	82.02	-2,288.60	-3,792.02	3,277.93	3,194.42	83.52	39.248			
14,700.00	12,399.00	14,243.91	11,983.96	59.06	62.21	82.04	-2,388.58	-3,791.15	3,277.90	3,192.77	85.14	38.502			
14,800.00	12,399.00	14,343.90	11,985.04	60.16	63.44	82.06	-2,488.57	-3,790.28	3,277.87	3,191.09	86.79	37.769			
14,900.00	12,399.00	14,443.89	11,986.12	61.29	64.70	82.08	-2,588.55	-3,789.41	3,277.85	3,189.38	88.47	37.051			
15,000.00	12,399.00	14,543.89	11,987.20	62.44	65.97	82.10	-2,688.54	-3,788.53	3,277.82	3,187.64	90.18	36.348			
15,100.00	12,399.00	14,643.88	11,988.28	63.61	67.26	82.11	-2,788.52	-3,787.66	3,277.79	3,185.88	91.92	35.661			
15,200.00	12,399.00	14,743.88	11,989.36	64.81	68.56	82.13	-2,888.51	-3,786.79	3,277.76	3,184.09	93.68	34.990			
15,300.00	12,399.00	14,843.87	11,990.44	66.02	69.88	82.15	-2,988.49	-3,785.92	3,277.74	3,182.27	95.46	34.335			
15,400.00	12,399.00	14,943.86	11,991.53	67.26	71.22	82.17	-3,088.48	-3,785.04	3,277.71	3,180.44	97.27	33.696			
15,500.00	12,399.00	15,043.86	11,992.61	68.51	72.56	82.19	-3,188.46	-3,784.17	3,277.68	3,178.58	99.10	33.074			
15,600.00	12,399.00	15,143.85	11,993.69	69.77	73.92	82.21	-3,288.44	-3,783.30	3,277.66	3,176.71	100.95	32.467			
15,700.00	12,399.00	15,243.85	11,994.77	71.06	75.29	82.23	-3,388.43	-3,782.43	3,277.63	3,174.81	102.82	31.876			
15,800.00	12,399.00	15,343.84	11,995.85	72.35	76.67	82.25	-3,488.41	-3,781.55	3,277.61	3,172.90	104.71	31.302			
15,900.00	12,399.00	15,443.84	11,996.93	73.67	78.06	82.27	-3,588.40	-3,780.68	3,277.58	3,170.97	106.62	30.742			
16,000.00	12,399.00	15,543.83	11,998.01	74.99	79.46	82.29	-3,688.38	-3,779.81	3,277.56	3,169.02	108.54	30.198			
16,100.00	12,399.00	15,643.82	11,999.09	76.33	80.88	82.30	-3,788.37	-3,778.94	3,277.54	3,167.06	110.47	29.668			
16,200.00	12,399.00	15,743.82	12,000.17	77.68	82.30	82.32	-3,888.35	-3,778.07	3,277.51	3,165.09	112.43	29.153			
16,300.00	12,399.00	15,843.81	12,001.25	79.04	83.72	82.34	-3,988.34	-3,777.19	3,277.49	3,163.10	114.39	28.652			
16,400.00	12,399.00	15,943.81	12,002.33	80.41	85.16	82.36	-4,088.32	-3,776.32	3,277.47	3,161.10	116.37	28.164			
16,500.00	12,399.00	16,043.80	12,003.41	81.80	86.60	82.38	-4,188.30	-3,775.45	3,277.44	3,159.08	118.36	27.690			
16,600.00	12,399.00	16,143.79	12,004.49	83.19	88.06	82.40	-4,288.29	-3,774.58	3,277.42	3,157.06	120.36	27.229			
16,700.00	12,399.00	16,243.79	12,005.57	84.59	89.51	82.42	-4,388.27	-3,773.70	3,277.40	3,155.02	122.38	26.781			
16,800.00	12,399.00	16,343.78	12,006.66	86.00	90.98	82.44	-4,488.26	-3,772.83	3,277.38	3,152.97	124.40	26.345			
16,900.00	12,399.00	16,443.78	12,007.74	87.42	92.45	82.46	-4,588.24	-3,771.96	3,277.36	3,150.92	126.44	25.920			
17,000.00	12,399.00	16,543.77	12,008.82	88.85	93.93	82.48	-4,688.23	-3,771.09	3,277.34	3,148.85	128.49	25.507			
17,100.00	12,399.00	16,643.76	12,009.90	90.28	95.41	82.49	-4,788.21	-3,770.21	3,277.32	3,146.78	130.54	25.106			
17,200.00	12,399.00	16,743.76	12,010.98	91.72	96.90	82.51	-4,888.20	-3,769.34	3,277.30	3,144.69	132.60	24.715			
17,300.00	12,399.00	16,843.75	12,012.06	93.17	98.39	82.53	-4,988.18	-3,768.47	3,277.28	3,142.60	134.68	24.335			
17,400.00	12,399.00	16,943.75	12,013.14	94.63	99.89	82.55	-5,088.16	-3,767.60	3,277.26	3,140.50	136.76	23.964			
17,500.00	12,399.00	17,043.74	12,014.22	96.09	101.39	82.57	-5,188.15	-3,766.73	3,277.24	3,138.39	138.84	23.604			
17,600.00	12,399.00	17,143.73	12,015.30	97.56	102.90	82.59	-5,288.13	-3,765.85	3,277.22	3,136.28	140.94	23.253			
17,700.00	12,399.00	17,243.73	12,016.38	99.03	104.41	82.61	-5,388.12	-3,764.98	3,277.20	3,134.16	143.04	22.911			
17,800.00	12,399.00	17,343.72	12,017.46	100.51	105.93	82.63	-5,488.10	-3,764.11	3,277.18	3,132.03	145.15	22.578			
17,900.00	12,399.00	17,443.72	12,018.54	102.00	107.45	82.65	-5,588.09	-3,763.24	3,277.17	3,129.90	147.27	22.253			
18,000.00	12,399.00	17,543.71	12,019.62	103.48	108.98	82.67	-5,688.07	-3,762.36	3,277.15	3,127.76	149.39	21.937			
18,100.00	12,399.00	17,643.71	12,020.70	104.98	110.50	82.68	-5,788.06	-3,761.49	3,277.13	3,125.61	151.52	21.629			
18,200.00	12,399.00	17,743.70	12,021.79	106.48	112.03	82.70	-5,888.04	-3,760.62	3,277.12	3,123.46	153.65	21.328			
18,300.00	12,399.00	17,843.69	12,022.87	107.98	113.57	82.72	-5,988.02	-3,759.75	3,277.10	3,121.31	155.79	21.035			
18,400.00	12,399.00	17,943.69	12,023.95	109.49	115.11	82.74	-6,088.01	-3,758.87	3,277.08	3,119.15	157.94	20.749			
18,500.00	12,399.00	18,043.68	12,025.03	111.00	116.65	82.76	-6,187.99	-3,758.00	3,277.07	3,116.98	160.09	20.470			
18,600.00	12,399.00	18,143.68	12,026.11	112.52	118.19	82.78	-6,287.98	-3,757.13	3,277.05	3,114.81	162.24	20.198			
18,700.00	12,399.00	18,243.67	12,027.19	114.04	119.74	82.80	-6,387.96	-3,756.26	3,277.04	3,112.64	164.40	19.933			
18,800.00	12,399.00	18,343.66	12,028.27	115.56	121.29	82.82	-6,487.95	-3,755.39	3,277.02	3,110.46	166.57	19.674			
18,900.00	12,399.00	18,443.66	12,029.35	117.09	122.84	82.84	-6,587.93	-3,754.51	3,277.01	3,108.27	168.74	19.421			
19,000.00	12,399.00	18,543.65	12,030.43	118.62	124.40	82.86	-6,687.92	-3,753.64	3,277.00	3,106.09	170.91	19.174			
19,100.00	12,399.00	18,643.65	12,031.51	120.15	125.95	82.87	-6,787.90	-3,752.77	3,276.98	3,103.90	173.09	18.933			

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 804H
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 804H	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	12,399.00	18,743.64	12,032.59	121.69	127.51	82.89	-6,887.88	-3,751.90	3,276.97	3,101.70	175.27	18.697			
19,300.00	12,399.00	18,843.63	12,033.67	123.22	129.07	82.91	-6,987.87	-3,751.02	3,276.96	3,099.51	177.45	18.467			
19,400.00	12,399.00	18,943.63	12,034.75	124.77	130.64	82.93	-7,087.85	-3,750.15	3,276.95	3,097.30	179.64	18.241			
19,500.00	12,399.00	19,043.62	12,035.83	126.31	132.20	82.95	-7,187.84	-3,749.28	3,276.94	3,095.10	181.83	18.022			
19,600.00	12,399.00	19,143.62	12,036.92	127.86	133.77	82.97	-7,287.82	-3,748.41	3,276.92	3,092.89	184.03	17.806			
19,700.00	12,399.00	19,243.61	12,038.00	129.41	135.34	82.99	-7,387.81	-3,747.53	3,276.91	3,090.68	186.23	17.596			
19,800.00	12,399.00	19,343.60	12,039.08	130.96	136.92	83.01	-7,487.79	-3,746.66	3,276.90	3,088.47	188.43	17.390			
19,900.00	12,399.00	19,443.60	12,040.16	132.52	138.49	83.03	-7,587.78	-3,745.79	3,276.89	3,086.26	190.64	17.189			
20,000.00	12,399.00	19,543.59	12,041.24	134.07	140.07	83.05	-7,687.76	-3,744.92	3,276.88	3,084.04	192.84	16.992			
20,100.00	12,399.00	19,643.59	12,042.32	135.63	141.64	83.06	-7,787.74	-3,744.05	3,276.87	3,081.82	195.06	16.800			
20,200.00	12,399.00	19,743.58	12,043.40	137.20	143.22	83.08	-7,887.73	-3,743.17	3,276.86	3,079.59	197.27	16.611			
20,300.00	12,399.00	19,843.57	12,044.48	138.76	144.80	83.10	-7,987.71	-3,742.30	3,276.86	3,077.37	199.49	16.426			
20,400.00	12,399.00	19,943.57	12,045.56	140.32	146.39	83.12	-8,087.70	-3,741.43	3,276.85	3,075.14	201.71	16.246			
20,500.00	12,399.00	20,043.56	12,046.64	141.89	147.97	83.14	-8,187.68	-3,740.56	3,276.84	3,072.91	203.93	16.069			
20,600.00	12,399.00	20,143.56	12,047.72	143.46	149.55	83.16	-8,287.67	-3,739.68	3,276.83	3,070.68	206.15	15.895			
20,700.00	12,399.00	20,243.55	12,048.80	145.03	151.14	83.18	-8,387.65	-3,738.81	3,276.82	3,068.45	208.38	15.725			
20,800.00	12,399.00	20,343.55	12,049.88	146.61	152.73	83.20	-8,487.64	-3,737.94	3,276.82	3,066.21	210.61	15.559			
20,900.00	12,399.00	20,443.54	12,050.96	148.18	154.32	83.22	-8,587.62	-3,737.07	3,276.81	3,063.97	212.84	15.396			
21,000.00	12,399.00	20,543.53	12,052.05	149.76	155.91	83.24	-8,687.60	-3,736.19	3,276.80	3,061.74	215.07	15.236			
21,100.00	12,399.00	20,643.53	12,053.13	151.34	157.50	83.25	-8,787.59	-3,735.32	3,276.80	3,059.49	217.30	15.079			
21,200.00	12,399.00	20,743.52	12,054.21	152.92	159.09	83.27	-8,887.57	-3,734.45	3,276.79	3,057.25	219.54	14.926			
21,300.00	12,399.00	20,843.52	12,055.29	154.50	160.69	83.29	-8,987.56	-3,733.58	3,276.79	3,055.01	221.78	14.775			
21,400.00	12,399.00	20,943.51	12,056.37	156.08	162.28	83.31	-9,087.54	-3,732.70	3,276.78	3,052.76	224.02	14.627			
21,500.00	12,399.00	21,043.50	12,057.45	157.66	163.88	83.33	-9,187.53	-3,731.83	3,276.78	3,050.51	226.26	14.482			
21,600.00	12,399.00	21,143.50	12,058.53	159.25	165.48	83.35	-9,287.51	-3,730.96	3,276.77	3,048.27	228.51	14.340			
21,700.00	12,399.00	21,243.49	12,059.61	160.84	167.08	83.37	-9,387.50	-3,730.09	3,276.77	3,046.02	230.75	14.200			
21,800.00	12,399.00	21,343.49	12,060.69	162.42	168.68	83.39	-9,487.48	-3,729.22	3,276.77	3,043.76	233.00	14.063			
21,900.00	12,399.00	21,443.48	12,061.77	164.01	170.28	83.41	-9,587.46	-3,728.34	3,276.76	3,041.51	235.25	13.929			
22,000.00	12,399.00	21,543.47	12,062.85	165.60	171.88	83.43	-9,687.45	-3,727.47	3,276.76	3,039.26	237.50	13.797			
22,100.00	12,399.00	21,643.47	12,063.93	167.19	173.48	83.44	-9,787.43	-3,726.60	3,276.76	3,037.00	239.76	13.667			
22,200.00	12,399.00	21,743.46	12,065.01	168.79	175.09	83.46	-9,887.42	-3,725.73	3,276.76	3,034.75	242.01	13.540			
22,300.00	12,399.00	21,843.46	12,066.09	170.38	176.69	83.48	-9,987.40	-3,724.85	3,276.75	3,032.49	244.27	13.415			
22,400.00	12,399.00	21,943.45	12,067.18	171.98	178.30	83.50	-10,087.39	-3,723.98	3,276.75	3,030.23	246.52	13.292			
22,500.00	12,399.00	22,043.44	12,068.26	173.57	179.90	83.52	-10,187.37	-3,723.11	3,276.75	3,027.97	248.78	13.171			
22,556.15	12,399.00	22,099.59	12,068.86	174.47	180.80	83.53	-10,243.51	-3,722.62	3,276.75	3,026.70	250.05	13.104			
22,600.00	12,399.00	22,101.01	12,068.88	175.17	180.83	83.53	-10,244.93	-3,722.61	3,277.03	3,026.40	250.62	13.075 ES			
22,700.00	12,399.00	22,101.01	12,068.88	176.77	180.83	83.53	-10,244.93	-3,722.61	3,279.85	3,028.11	251.74	13.029			
22,800.00	12,399.00	22,101.01	12,068.88	178.37	180.83	83.53	-10,244.93	-3,722.61	3,285.71	3,033.08	252.63	13.006 SF			
22,900.00	12,399.00	22,101.01	12,068.88	179.97	180.83	83.53	-10,244.93	-3,722.61	3,294.60	3,041.30	253.30	13.007			
23,000.00	12,399.00	22,101.01	12,068.88	181.57	180.83	83.53	-10,244.93	-3,722.61	3,306.48	3,052.75	253.73	13.031			
23,100.00	12,399.00	22,101.01	12,068.88	183.17	180.83	83.53	-10,244.93	-3,722.61	3,321.34	3,067.39	253.95	13.079			
23,200.00	12,399.00	22,101.01	12,068.88	184.77	180.83	83.53	-10,244.93	-3,722.61	3,339.13	3,085.18	253.95	13.149			
23,300.00	12,399.00	22,101.01	12,068.88	186.38	180.83	83.53	-10,244.93	-3,722.61	3,359.81	3,106.06	253.75	13.241			
23,400.00	12,399.00	22,101.01	12,068.88	187.98	180.83	83.53	-10,244.93	-3,722.61	3,383.31	3,129.96	253.34	13.355			
23,500.00	12,399.00	22,101.01	12,068.88	189.58	180.83	83.53	-10,244.93	-3,722.61	3,409.58	3,156.84	252.74	13.490			
23,600.00	12,399.00	22,101.01	12,068.88	191.19	180.83	83.53	-10,244.93	-3,722.61	3,438.57	3,186.59	251.98	13.646			
23,700.00	12,399.00	22,101.01	12,068.88	192.80	180.83	83.53	-10,244.93	-3,722.61	3,470.19	3,219.16	251.03	13.824			
23,800.00	12,399.00	22,101.01	12,068.88	194.41	180.83	83.53	-10,244.93	-3,722.61	3,504.38	3,254.44	249.94	14.021			
23,874.38	12,399.00	22,101.01	12,068.88	195.60	180.83	83.53	-10,244.93	-3,722.61	3,531.44	3,282.41	249.03	14.181			

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 804H
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 804H	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	-83.36	425.76	-3,655.04	3,679.76					
100.00	100.00	139.00	139.00	0.13	0.27	-83.36	425.76	-3,655.04	3,679.76	3,679.46	0.29	N/A		
200.00	200.00	239.00	239.00	0.48	0.62	-83.36	425.76	-3,655.04	3,679.76	3,678.97	0.79	4,661.106		
300.00	300.00	339.00	339.00	0.84	0.98	-83.36	425.76	-3,655.04	3,679.76	3,678.46	1.29	2,843.744		
400.00	400.00	439.00	439.00	1.20	1.34	-83.36	425.76	-3,655.04	3,679.76	3,677.96	1.80	2,044.453		
500.00	500.00	539.00	539.00	1.56	1.70	-83.36	425.76	-3,655.04	3,679.76	3,677.45	2.31	1,595.571		
600.00	600.00	639.00	639.00	1.92	2.06	-83.36	425.76	-3,655.04	3,679.76	3,676.94	2.81	1,308.216		
700.00	700.00	739.00	739.00	2.28	2.42	-83.36	425.76	-3,655.04	3,679.76	3,676.44	3.32	1,108.529		
800.00	800.00	839.00	839.00	2.63	2.77	-83.36	425.76	-3,655.04	3,679.76	3,675.93	3.83	961.713		
900.00	900.00	939.00	939.00	2.99	3.13	-83.36	425.76	-3,655.04	3,679.76	3,675.42	4.33	849.228		
1,000.00	1,000.00	1,039.00	1,039.00	3.35	3.49	-83.36	425.76	-3,655.04	3,679.76	3,674.92	4.84	760.296		
1,100.00	1,100.00	1,139.00	1,139.00	3.71	3.85	-83.36	425.76	-3,655.04	3,679.76	3,674.41	5.35	688.222		
1,200.00	1,200.00	1,239.00	1,239.00	4.07	4.21	-83.36	425.76	-3,655.04	3,679.76	3,673.90	5.85	628.628		
1,300.00	1,300.00	1,339.00	1,339.00	4.43	4.57	-83.36	425.76	-3,655.04	3,679.76	3,673.40	6.36	578.531		
1,400.00	1,400.00	1,439.00	1,439.00	4.79	4.93	-83.36	425.76	-3,655.04	3,679.76	3,672.89	6.87	535.828		
1,500.00	1,500.00	1,539.00	1,539.00	5.14	5.28	-83.36	425.76	-3,655.04	3,679.76	3,672.38	7.37	498.996		
1,600.00	1,600.00	1,639.00	1,639.00	5.50	5.64	-83.36	425.76	-3,655.04	3,679.76	3,671.88	7.88	466.901		
1,700.00	1,700.00	1,739.00	1,739.00	5.86	6.00	-83.36	425.76	-3,655.04	3,679.76	3,671.37	8.39	438.685		
1,800.00	1,800.00	1,839.00	1,839.00	6.22	6.36	-83.36	425.76	-3,655.04	3,679.76	3,670.86	8.90	413.685		
1,900.00	1,900.00	1,939.00	1,939.00	6.58	6.72	-83.36	425.76	-3,655.04	3,679.76	3,670.36	9.40	391.380		
2,000.00	2,000.00	2,039.00	2,039.00	6.94	7.08	-83.36	425.76	-3,655.04	3,679.76	3,669.85	9.91	371.358		
2,100.00	2,099.99	2,138.99	2,138.99	7.29	7.43	-8.76	425.76	-3,655.04	3,678.46	3,668.05	10.41	353.319		
2,200.00	2,199.91	2,238.91	2,238.91	7.64	7.79	-8.78	425.76	-3,655.04	3,674.58	3,663.67	10.91	336.829		
2,300.00	2,299.69	2,338.69	2,338.69	7.99	8.15	-8.81	425.76	-3,655.04	3,668.12	3,656.71	11.41	321.547		
2,400.00	2,399.27	2,438.27	2,438.27	8.34	8.51	-8.85	425.76	-3,655.04	3,659.08	3,647.17	11.91	307.331		
2,458.69	2,457.58	2,496.58	2,496.58	8.55	8.72	-8.88	425.76	-3,655.04	3,652.57	3,640.37	12.20	299.428		
2,500.00	2,498.60	2,537.60	2,537.60	8.70	8.86	-8.90	425.76	-3,655.04	3,647.68	3,635.28	12.40	294.071		
2,600.00	2,597.88	2,636.88	2,636.88	9.06	9.22	-8.93	425.76	-3,655.04	3,635.85	3,622.94	12.90	281.814		
2,700.00	2,697.16	2,775.85	2,775.84	9.43	9.70	-8.98	425.09	-3,654.70	3,623.81	3,610.32	13.49	268.608		
2,800.00	2,796.44	2,956.83	2,956.63	9.80	10.30	-9.14	418.01	-3,651.10	3,609.42	3,595.27	14.15	255.021		
2,900.00	2,895.72	3,072.59	3,072.11	10.17	10.68	-9.28	410.89	-3,647.48	3,593.80	3,579.14	14.67	245.009		
3,000.00	2,995.00	3,171.06	3,170.35	10.54	11.01	-9.40	404.77	-3,644.36	3,578.20	3,563.05	15.15	236.235		
3,100.00	3,094.28	3,269.54	3,268.59	10.92	11.34	-9.53	398.65	-3,641.25	3,562.61	3,546.98	15.63	227.964		
3,200.00	3,193.56	3,368.02	3,366.82	11.30	11.67	-9.66	392.53	-3,638.14	3,547.04	3,530.93	16.11	220.156		
3,300.00	3,292.84	3,466.49	3,465.06	11.68	12.01	-9.78	386.41	-3,635.02	3,531.48	3,514.89	16.60	212.777		
3,400.00	3,392.12	3,564.97	3,563.29	12.06	12.35	-9.91	380.29	-3,631.91	3,515.95	3,498.86	17.08	205.795		
3,500.00	3,491.40	3,663.44	3,661.53	12.45	12.68	-10.04	374.18	-3,628.80	3,500.43	3,482.85	17.57	199.181		
3,600.00	3,590.68	3,761.92	3,759.77	12.83	13.03	-10.17	368.06	-3,625.68	3,484.92	3,466.86	18.07	192.908		
3,700.00	3,689.96	3,860.39	3,858.00	13.22	13.37	-10.30	361.94	-3,622.57	3,469.44	3,450.88	18.56	186.953		
3,800.00	3,789.24	3,958.87	3,956.24	13.60	13.71	-10.44	355.82	-3,619.46	3,453.97	3,434.92	19.05	181.293		
3,900.00	3,888.52	4,057.34	4,054.47	13.99	14.06	-10.57	349.70	-3,616.35	3,438.53	3,418.98	19.55	175.908		
4,000.00	3,987.80	4,155.82	4,152.71	14.38	14.40	-10.71	343.58	-3,613.23	3,423.10	3,403.05	20.04	170.779		
4,100.00	4,087.08	4,254.30	4,250.95	14.77	14.75	-10.84	337.46	-3,610.12	3,407.69	3,387.15	20.54	165.890		
4,200.00	4,186.36	4,352.77	4,349.18	15.16	15.10	-10.98	331.34	-3,607.01	3,392.30	3,371.26	21.04	161.225		
4,300.00	4,285.64	4,451.25	4,447.42	15.56	15.45	-11.12	325.23	-3,603.89	3,376.92	3,355.38	21.54	156.770		
4,400.00	4,384.92	4,549.72	4,545.65	15.95	15.80	-11.26	319.11	-3,600.78	3,361.57	3,339.53	22.04	152.510		
4,500.00	4,484.20	4,648.20	4,643.89	16.34	16.15	-11.40	312.99	-3,597.67	3,346.24	3,323.70	22.54	148.435		
4,600.00	4,583.48	4,746.67	4,742.13	16.74	16.51	-11.54	306.87	-3,594.55	3,330.93	3,307.88	23.05	144.533		
4,700.00	4,682.76	4,845.15	4,840.36	17.13	16.86	-11.69	300.75	-3,591.44	3,315.64	3,292.09	23.55	140.793		
4,800.00	4,782.04	4,943.62	4,938.60	17.53	17.21	-11.83	294.63	-3,588.33	3,300.37	3,276.31	24.05	137.207		
4,900.00	4,881.32	5,042.10	5,036.83	17.92	17.57	-11.98	288.51	-3,585.21	3,285.12	3,260.56	24.56	133.764		
5,000.00	4,980.60	5,140.58	5,135.07	18.32	17.93	-12.13	282.39	-3,582.10	3,269.89	3,244.83	25.06	130.458		

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 804H
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 804H	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	5,079.88	5,239.05	5,233.31	18.71	18.28	-12.28	276.28	-3,578.99	3,254.69	3,229.12	25.57	127.279		
5,200.00	5,179.16	5,337.53	5,331.54	19.11	18.64	-12.43	270.16	-3,575.88	3,239.50	3,213.42	26.08	124.222		
5,300.00	5,278.44	5,436.00	5,429.78	19.51	19.00	-12.58	264.04	-3,572.76	3,224.34	3,197.76	26.59	121.280		
5,400.00	5,377.72	5,534.48	5,528.01	19.90	19.35	-12.73	257.92	-3,569.65	3,209.20	3,182.11	27.09	118.446		
5,500.00	5,477.00	5,632.95	5,626.25	20.30	19.71	-12.89	251.80	-3,566.54	3,194.09	3,166.48	27.60	115.715		
5,600.00	5,576.28	5,731.43	5,724.49	20.70	20.07	-13.05	245.68	-3,563.42	3,178.99	3,150.88	28.11	113.081		
5,700.00	5,675.56	5,829.90	5,822.72	21.10	20.43	-13.20	239.56	-3,560.31	3,163.92	3,135.30	28.62	110.540		
5,800.00	5,774.84	5,928.38	5,920.96	21.50	20.79	-13.36	233.45	-3,557.20	3,148.88	3,119.75	29.13	108.087		
5,900.00	5,874.12	6,026.86	6,019.19	21.90	21.15	-13.53	227.33	-3,554.08	3,133.86	3,104.22	29.64	105.717		
6,000.00	5,973.40	6,125.33	6,117.43	22.30	21.51	-13.69	221.21	-3,550.97	3,118.86	3,088.71	30.16	103.427		
6,100.00	6,072.68	6,223.81	6,215.67	22.70	21.87	-13.85	215.09	-3,547.86	3,103.89	3,073.23	30.67	101.212		
6,200.00	6,171.96	6,322.28	6,313.90	23.10	22.23	-14.02	208.97	-3,544.75	3,088.95	3,057.77	31.18	99.069		
6,300.00	6,271.24	6,420.76	6,412.14	23.50	22.59	-14.19	202.85	-3,541.63	3,074.03	3,042.33	31.69	96.995		
6,400.00	6,370.52	6,519.23	6,510.37	23.90	22.96	-14.35	196.73	-3,538.52	3,059.13	3,026.93	32.21	94.987		
6,500.00	6,469.80	6,617.71	6,608.61	24.30	23.32	-14.53	190.61	-3,535.41	3,044.27	3,011.55	32.72	93.041		
6,600.00	6,569.08	6,716.18	6,706.85	24.70	23.68	-14.70	184.50	-3,532.29	3,029.43	2,996.19	33.23	91.156		
6,700.00	6,668.36	6,814.66	6,805.08	25.10	24.04	-14.87	178.38	-3,529.18	3,014.61	2,980.87	33.75	89.327		
6,800.00	6,767.64	6,913.14	6,903.32	25.50	24.41	-15.05	172.26	-3,526.07	2,999.83	2,965.57	34.26	87.553		
6,900.00	6,866.91	7,011.61	7,001.55	25.90	24.77	-15.23	166.14	-3,522.95	2,985.07	2,950.29	34.78	85.831		
6,934.75	6,901.42	7,045.83	7,035.69	26.04	24.90	-15.29	164.01	-3,521.87	2,979.95	2,944.99	34.96	85.245		
7,000.00	6,966.26	7,110.18	7,099.88	26.30	25.13	-15.37	160.02	-3,519.84	2,970.87	2,935.58	35.29	84.175		
7,100.00	7,065.85	7,209.10	7,198.57	26.68	25.50	-15.48	153.87	-3,516.71	2,959.06	2,923.25	35.81	82.636		
7,200.00	7,165.65	7,308.36	7,297.58	27.05	25.86	-15.60	147.70	-3,513.57	2,949.77	2,913.45	36.32	81.212		
7,300.00	7,265.57	7,407.86	7,396.84	27.41	26.23	-15.71	141.52	-3,510.43	2,943.02	2,906.18	36.83	79.900		
7,393.44	7,359.00	7,501.01	7,489.76	27.72	26.58	-90.41	135.73	-3,507.48	2,938.99	2,901.68	37.31	78.777		
7,400.00	7,365.56	7,504.97	7,493.71	27.74	26.59	-90.42	135.48	-3,507.36	2,938.79	2,901.45	37.34	78.712		
7,500.00	7,465.56	7,581.19	7,569.79	28.08	26.87	-90.50	131.43	-3,505.29	2,936.13	2,898.34	37.79	77.696		
7,600.00	7,565.56	7,655.62	7,644.16	28.41	27.14	-90.55	128.77	-3,503.94	2,934.34	2,896.11	38.24	76.743		
7,700.00	7,665.56	7,730.14	7,718.67	28.74	27.40	-90.58	127.40	-3,503.24	2,933.43	2,894.75	38.68	75.846		
7,774.79	7,740.36	7,790.83	7,779.36	28.99	27.61	-90.58	127.20	-3,503.14	2,933.29	2,894.28	39.01	75.192		
7,800.00	7,765.56	7,816.04	7,804.56	29.07	27.69	-90.58	127.20	-3,503.14	2,933.29	2,894.16	39.13	74.959		
7,900.00	7,865.56	7,916.04	7,904.56	29.41	28.03	-90.58	127.20	-3,503.14	2,933.29	2,893.68	39.61	74.045		
8,000.00	7,965.56	8,016.04	8,004.56	29.74	28.37	-90.58	127.20	-3,503.14	2,933.29	2,893.20	40.10	73.152		
8,100.00	8,065.56	8,116.04	8,104.56	30.08	28.70	-90.58	127.20	-3,503.14	2,933.29	2,892.71	40.58	72.280		
8,200.00	8,165.56	8,216.04	8,204.56	30.41	29.04	-90.58	127.20	-3,503.14	2,933.29	2,892.23	41.07	71.427		
8,300.00	8,265.56	8,316.04	8,304.56	30.75	29.38	-90.58	127.20	-3,503.14	2,933.29	2,891.74	41.55	70.593		
8,400.00	8,365.56	8,416.04	8,404.56	31.09	29.72	-90.58	127.20	-3,503.14	2,933.29	2,891.26	42.04	69.777		
8,500.00	8,465.56	8,516.04	8,504.56	31.42	30.06	-90.58	127.20	-3,503.14	2,933.29	2,890.77	42.52	68.980		
8,600.00	8,565.56	8,616.04	8,604.56	31.76	30.40	-90.58	127.20	-3,503.14	2,933.29	2,890.28	43.01	68.199		
8,700.00	8,665.56	8,716.04	8,704.56	32.10	30.74	-90.58	127.20	-3,503.14	2,933.29	2,889.80	43.50	67.435		
8,800.00	8,765.56	8,816.04	8,804.56	32.44	31.08	-90.58	127.20	-3,503.14	2,933.29	2,889.31	43.99	66.688		
8,900.00	8,865.56	8,916.04	8,904.56	32.78	31.42	-90.58	127.20	-3,503.14	2,933.29	2,888.82	44.47	65.956		
9,000.00	8,965.56	9,016.04	9,004.56	33.12	31.76	-90.58	127.20	-3,503.14	2,933.29	2,888.33	44.96	65.240		
9,100.00	9,065.56	9,116.04	9,104.56	33.45	32.10	-90.58	127.20	-3,503.14	2,933.29	2,887.84	45.45	64.538		
9,200.00	9,165.56	9,216.04	9,204.56	33.79	32.44	-90.58	127.20	-3,503.14	2,933.29	2,887.36	45.94	63.851		
9,300.00	9,265.56	9,316.04	9,304.56	34.14	32.78	-90.58	127.20	-3,503.14	2,933.29	2,886.87	46.43	63.178		
9,400.00	9,365.56	9,416.04	9,404.56	34.48	33.13	-90.58	127.20	-3,503.14	2,933.29	2,886.38	46.92	62.518		
9,500.00	9,465.56	9,516.04	9,504.56	34.82	33.47	-90.58	127.20	-3,503.14	2,933.29	2,885.89	47.41	61.871		
9,600.00	9,565.56	9,616.04	9,604.56	35.16	33.81	-90.58	127.20	-3,503.14	2,933.29	2,885.39	47.90	61.238		
9,700.00	9,665.56	9,716.04	9,704.56	35.50	34.16	-90.58	127.20	-3,503.14	2,933.29	2,884.90	48.39	60.616		
9,800.00	9,765.56	9,816.04	9,804.56	35.84	34.50	-90.58	127.20	-3,503.14	2,933.29	2,884.41	48.88	60.007		
9,900.00	9,865.56	9,916.04	9,904.56	36.19	34.85	-90.58	127.20	-3,503.14	2,933.29	2,883.92	49.37	59.409		

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 804H
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 804H	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	9,965.56	10,016.04	10,004.56	36.53	35.19	-90.58	127.20	-3,503.14	2,933.29	2,883.43	49.87	58.823		
10,100.00	10,065.56	10,116.04	10,104.56	36.87	35.53	-90.58	127.20	-3,503.14	2,933.29	2,882.94	50.36	58.248		
10,200.00	10,165.56	10,216.04	10,204.56	37.21	35.88	-90.58	127.20	-3,503.14	2,933.29	2,882.44	50.85	57.684		
10,300.00	10,265.56	10,316.04	10,304.56	37.56	36.23	-90.58	127.20	-3,503.14	2,933.29	2,881.95	51.34	57.131		
10,400.00	10,365.56	10,416.04	10,404.56	37.90	36.57	-90.58	127.20	-3,503.14	2,933.29	2,881.46	51.84	56.587		
10,500.00	10,465.56	10,516.04	10,504.56	38.25	36.92	-90.58	127.20	-3,503.14	2,933.29	2,880.96	52.33	56.054		
10,600.00	10,565.56	10,616.04	10,604.56	38.59	37.26	-90.58	127.20	-3,503.14	2,933.29	2,880.47	52.82	55.530		
10,700.00	10,665.56	10,716.04	10,704.56	38.94	37.61	-90.58	127.20	-3,503.14	2,933.29	2,879.98	53.32	55.015		
10,800.00	10,765.56	10,816.04	10,804.56	39.28	37.96	-90.58	127.20	-3,503.14	2,933.29	2,879.48	53.81	54.510		
10,900.00	10,865.56	10,916.04	10,904.56	39.63	38.30	-90.58	127.20	-3,503.14	2,933.29	2,878.99	54.31	54.014		
11,000.00	10,965.56	11,016.04	11,004.56	39.97	38.65	-90.58	127.20	-3,503.14	2,933.29	2,878.49	54.80	53.527		
11,100.00	11,065.56	11,116.04	11,104.56	40.32	39.00	-90.58	127.20	-3,503.14	2,933.29	2,878.00	55.30	53.048		
11,200.00	11,165.56	11,216.04	11,204.56	40.66	39.34	-90.58	127.20	-3,503.14	2,933.29	2,877.50	55.79	52.577		
11,300.00	11,265.56	11,316.04	11,304.56	41.01	39.69	-90.58	127.20	-3,503.14	2,933.29	2,877.01	56.29	52.114		
11,400.00	11,365.56	11,416.04	11,404.56	41.36	40.04	-90.58	127.20	-3,503.14	2,933.29	2,876.51	56.78	51.660		
11,500.00	11,465.56	11,516.04	11,504.56	41.70	40.39	-90.58	127.20	-3,503.14	2,933.29	2,876.02	57.28	51.213		
11,600.00	11,565.56	11,616.04	11,604.56	42.05	40.74	-90.58	127.20	-3,503.14	2,933.29	2,875.52	57.77	50.773		
11,608.00	11,573.57	11,624.04	11,612.57	42.08	40.76	-90.58	127.20	-3,503.14	2,933.29	2,875.48	57.81	50.738 CC		
11,700.00	11,665.56	11,715.87	11,704.39	42.40	41.08	-90.59	126.80	-3,503.14	2,933.30	2,875.03	58.27	50.341		
11,800.00	11,765.56	11,813.41	11,801.09	42.74	41.44	-90.82	114.90	-3,503.04	2,933.34	2,874.57	58.77	49.911		
11,860.48	11,826.04	11,869.53	11,855.34	42.95	41.65	-91.10	100.67	-3,502.91	2,933.47	2,874.39	59.08	49.655		
11,900.00	11,865.53	11,904.91	11,888.74	43.08	41.79	89.25	88.99	-3,502.81	2,933.62	2,874.35	59.27	49.494		
11,950.00	11,915.20	11,950.00	11,930.14	43.24	41.96	88.97	71.16	-3,502.65	2,933.88	2,874.37	59.51	49.298		
12,000.00	11,964.19	11,991.95	11,967.29	43.39	42.13	88.71	51.70	-3,502.48	2,934.20	2,874.46	59.74	49.112		
12,050.00	12,012.13	12,034.31	12,003.26	43.53	42.31	88.45	29.34	-3,502.29	2,934.58	2,874.61	59.97	48.931		
12,100.00	12,058.65	12,076.00	12,036.95	43.66	42.48	88.20	4.81	-3,502.08	2,935.00	2,874.80	60.20	48.755		
12,150.00	12,103.40	12,117.09	12,068.32	43.78	42.66	87.97	-21.71	-3,501.84	2,935.45	2,875.03	60.42	48.585		
12,200.00	12,146.04	12,157.64	12,097.35	43.90	42.83	87.75	-50.02	-3,501.60	2,935.92	2,875.28	60.63	48.420		
12,250.00	12,186.24	12,200.00	12,125.44	44.00	43.02	87.53	-81.71	-3,501.32	2,936.40	2,875.54	60.85	48.253		
12,300.00	12,223.71	12,237.39	12,148.24	44.09	43.19	87.34	-111.34	-3,501.06	2,936.87	2,875.81	61.06	48.100		
12,350.00	12,258.14	12,276.69	12,170.07	44.17	43.38	87.17	-144.01	-3,500.78	2,937.34	2,876.07	61.27	47.942		
12,400.00	12,289.29	12,315.68	12,189.46	44.24	43.56	87.01	-177.82	-3,500.48	2,937.78	2,876.30	61.48	47.786		
12,450.00	12,316.92	12,350.00	12,204.59	44.30	43.73	86.88	-208.62	-3,500.21	2,938.20	2,876.52	61.67	47.641		
12,500.00	12,340.80	12,392.89	12,220.86	44.36	43.94	86.74	-248.29	-3,499.87	2,938.57	2,876.66	61.90	47.470		
12,550.00	12,360.77	12,431.19	12,232.85	44.43	44.13	86.64	-284.66	-3,499.55	2,938.89	2,876.77	62.12	47.309		
12,600.00	12,376.67	12,469.35	12,242.35	44.50	44.33	86.56	-321.61	-3,499.23	2,939.16	2,876.82	62.34	47.146		
12,650.00	12,388.38	12,507.40	12,249.35	44.59	44.52	86.50	-359.00	-3,498.90	2,939.38	2,876.81	62.57	46.981		
12,700.00	12,395.81	12,550.00	12,254.23	44.69	44.74	86.46	-401.31	-3,498.53	2,939.54	2,876.73	62.81	46.801		
12,750.00	12,398.90	12,583.33	12,255.85	44.81	44.92	86.45	-434.59	-3,498.24	2,939.62	2,876.60	63.02	46.644		
12,760.48	12,399.00	12,592.24	12,255.97	44.83	44.96	86.45	-443.50	-3,498.16	2,939.63	2,876.56	63.07	46.606		
12,800.00	12,399.00	12,631.76	12,256.40	44.94	45.18	86.46	-483.02	-3,497.82	2,939.65	2,876.35	63.30	46.438		
12,900.00	12,399.00	12,731.76	12,257.48	45.25	45.75	86.48	-583.00	-3,496.95	2,939.71	2,875.78	63.93	45.984		
13,000.00	12,399.00	12,831.75	12,258.56	45.62	46.37	86.50	-682.99	-3,496.07	2,939.76	2,875.13	64.63	45.483		
13,100.00	12,399.00	12,931.74	12,259.64	46.05	47.04	86.52	-782.97	-3,495.20	2,939.82	2,874.41	65.41	44.942		
13,200.00	12,399.00	13,031.74	12,260.73	46.53	47.76	86.54	-882.95	-3,494.33	2,939.88	2,873.61	66.27	44.364		
13,300.00	12,399.00	13,131.73	12,261.81	47.07	48.52	86.56	-982.94	-3,493.46	2,939.93	2,872.74	67.19	43.755		
13,400.00	12,399.00	13,231.73	12,262.89	47.65	49.33	86.59	-1,082.92	-3,492.58	2,939.99	2,871.81	68.18	43.120		
13,500.00	12,399.00	13,331.72	12,263.98	48.29	50.18	86.61	-1,182.91	-3,491.71	2,940.05	2,870.81	69.24	42.464		
13,600.00	12,399.00	13,431.71	12,265.06	48.97	51.07	86.63	-1,282.89	-3,490.84	2,940.11	2,869.75	70.35	41.791		
13,700.00	12,399.00	13,531.71	12,266.14	49.70	51.99	86.65	-1,382.88	-3,489.97	2,940.16	2,868.64	71.53	41.105		
13,800.00	12,399.00	13,631.70	12,267.22	50.47	52.95	86.67	-1,482.86	-3,489.10	2,940.22	2,867.46	72.76	40.411		
13,900.00	12,399.00	13,731.70	12,268.31	51.29	53.95	86.69	-1,582.85	-3,488.22	2,940.28	2,866.24	74.04	39.710		

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 804H
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 804H	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	12,399.00	13,831.69	12,269.39	52.14	54.97	86.71	-1,682.83	-3,487.35	2,940.34	2,864.96	75.38	39.008			
14,100.00	12,399.00	13,931.68	12,270.47	53.03	56.03	86.73	-1,782.81	-3,486.48	2,940.40	2,863.64	76.76	38.306			
14,200.00	12,399.00	14,031.68	12,271.56	53.95	57.11	86.76	-1,882.80	-3,485.61	2,940.46	2,862.27	78.19	37.608			
14,300.00	12,399.00	14,131.67	12,272.64	54.91	58.22	86.78	-1,982.78	-3,484.73	2,940.52	2,860.86	79.66	36.914			
14,400.00	12,399.00	14,231.67	12,273.72	55.90	59.36	86.80	-2,082.77	-3,483.86	2,940.58	2,859.41	81.17	36.228			
14,500.00	12,399.00	14,331.66	12,274.80	56.93	60.52	86.82	-2,182.75	-3,482.99	2,940.64	2,857.93	82.72	35.550			
14,600.00	12,399.00	14,431.65	12,275.89	57.98	61.70	86.84	-2,282.74	-3,482.12	2,940.71	2,856.40	84.30	34.883			
14,700.00	12,399.00	14,531.65	12,276.97	59.06	62.90	86.86	-2,382.72	-3,481.24	2,940.77	2,854.85	85.92	34.226			
14,800.00	12,399.00	14,631.64	12,278.05	60.16	64.12	86.88	-2,482.70	-3,480.37	2,940.83	2,853.26	87.57	33.581			
14,900.00	12,399.00	14,731.64	12,279.14	61.29	65.37	86.90	-2,582.69	-3,479.50	2,940.89	2,851.64	89.26	32.949			
15,000.00	12,399.00	14,831.63	12,280.22	62.44	66.62	86.92	-2,682.67	-3,478.63	2,940.96	2,849.99	90.97	32.330			
15,100.00	12,399.00	14,931.62	12,281.30	63.61	67.90	86.95	-2,782.66	-3,477.75	2,941.02	2,848.32	92.71	31.724			
15,200.00	12,399.00	15,031.62	12,282.38	64.81	69.19	86.97	-2,882.64	-3,476.88	2,941.09	2,846.62	94.47	31.133			
15,300.00	12,399.00	15,131.61	12,283.47	66.02	70.50	86.99	-2,982.63	-3,476.01	2,941.15	2,844.89	96.26	30.555			
15,400.00	12,399.00	15,231.61	12,284.55	67.26	71.82	87.01	-3,082.61	-3,475.14	2,941.22	2,843.15	98.07	29.991			
15,500.00	12,399.00	15,331.60	12,285.63	68.51	73.16	87.03	-3,182.60	-3,474.26	2,941.28	2,841.38	99.90	29.442			
15,600.00	12,399.00	15,431.59	12,286.72	69.77	74.50	87.05	-3,282.58	-3,473.39	2,941.35	2,839.59	101.75	28.906			
15,700.00	12,399.00	15,531.59	12,287.80	71.06	75.86	87.07	-3,382.56	-3,472.52	2,941.41	2,837.79	103.63	28.384			
15,800.00	12,399.00	15,631.58	12,288.88	72.35	77.23	87.09	-3,482.55	-3,471.65	2,941.48	2,835.96	105.52	27.876			
15,900.00	12,399.00	15,731.58	12,289.96	73.67	78.62	87.12	-3,582.53	-3,470.77	2,941.55	2,834.12	107.43	27.382			
16,000.00	12,399.00	15,831.57	12,291.05	74.99	80.01	87.14	-3,682.52	-3,469.90	2,941.62	2,832.26	109.35	26.900			
16,100.00	12,399.00	15,931.57	12,292.13	76.33	81.41	87.16	-3,782.50	-3,469.03	2,941.68	2,830.39	111.29	26.432			
16,200.00	12,399.00	16,031.56	12,293.21	77.68	82.82	87.18	-3,882.49	-3,468.16	2,941.75	2,828.50	113.25	25.976			
16,300.00	12,399.00	16,131.55	12,294.30	79.04	84.24	87.20	-3,982.47	-3,467.29	2,941.82	2,826.60	115.22	25.532			
16,400.00	12,399.00	16,231.55	12,295.38	80.41	85.67	87.22	-4,082.45	-3,466.41	2,941.89	2,824.69	117.20	25.101			
16,500.00	12,399.00	16,331.54	12,296.46	81.80	87.10	87.24	-4,182.44	-3,465.54	2,941.96	2,822.76	119.20	24.681			
16,600.00	12,399.00	16,431.54	12,297.54	83.19	88.55	87.26	-4,282.42	-3,464.67	2,942.03	2,820.82	121.21	24.273			
16,700.00	12,399.00	16,531.53	12,298.63	84.59	90.00	87.28	-4,382.41	-3,463.80	2,942.10	2,818.87	123.23	23.875			
16,800.00	12,399.00	16,631.52	12,299.71	86.00	91.45	87.31	-4,482.39	-3,462.92	2,942.17	2,816.91	125.26	23.489			
16,900.00	12,399.00	16,731.52	12,300.79	87.42	92.92	87.33	-4,582.38	-3,462.05	2,942.24	2,814.94	127.30	23.113			
17,000.00	12,399.00	16,831.51	12,301.88	88.85	94.39	87.35	-4,682.36	-3,461.18	2,942.31	2,812.96	129.35	22.747			
17,100.00	12,399.00	16,931.51	12,302.96	90.28	95.86	87.37	-4,782.35	-3,460.31	2,942.38	2,810.97	131.41	22.390			
17,200.00	12,399.00	17,031.50	12,304.04	91.72	97.34	87.39	-4,882.33	-3,459.43	2,942.46	2,808.97	133.48	22.044			
17,300.00	12,399.00	17,131.49	12,305.12	93.17	98.83	87.41	-4,982.31	-3,458.56	2,942.53	2,806.97	135.56	21.706			
17,400.00	12,399.00	17,231.49	12,306.21	94.63	100.32	87.43	-5,082.30	-3,457.69	2,942.60	2,804.96	137.65	21.378			
17,500.00	12,399.00	17,331.48	12,307.29	96.09	101.82	87.45	-5,182.28	-3,456.82	2,942.68	2,802.93	139.74	21.058			
17,600.00	12,399.00	17,431.48	12,308.37	97.56	103.32	87.48	-5,282.27	-3,455.94	2,942.75	2,800.91	141.84	20.746			
17,700.00	12,399.00	17,531.47	12,309.46	99.03	104.83	87.50	-5,382.25	-3,455.07	2,942.82	2,798.87	143.95	20.443			
17,800.00	12,399.00	17,631.46	12,310.54	100.51	106.34	87.52	-5,482.24	-3,454.20	2,942.90	2,796.83	146.07	20.147			
17,900.00	12,399.00	17,731.46	12,311.62	102.00	107.85	87.54	-5,582.22	-3,453.33	2,942.97	2,794.78	148.19	19.859			
18,000.00	12,399.00	17,831.45	12,312.70	103.48	109.37	87.56	-5,682.21	-3,452.45	2,943.05	2,792.73	150.32	19.578			
18,100.00	12,399.00	17,931.45	12,313.79	104.98	110.89	87.58	-5,782.19	-3,451.58	2,943.13	2,790.67	152.46	19.305			
18,200.00	12,399.00	18,031.44	12,314.87	106.48	112.42	87.60	-5,882.17	-3,450.71	2,943.20	2,788.60	154.60	19.038			
18,300.00	12,399.00	18,131.43	12,315.95	107.98	113.95	87.62	-5,982.16	-3,449.84	2,943.28	2,786.53	156.74	18.778			
18,400.00	12,399.00	18,231.43	12,317.04	109.49	115.48	87.64	-6,082.14	-3,448.96	2,943.36	2,784.46	158.90	18.524			
18,500.00	12,399.00	18,331.42	12,318.12	111.00	117.02	87.67	-6,182.13	-3,448.09	2,943.43	2,782.38	161.05	18.276			
18,600.00	12,399.00	18,431.42	12,319.20	112.52	118.56	87.69	-6,282.11	-3,447.22	2,943.51	2,780.30	163.22	18.034			
18,700.00	12,399.00	18,531.41	12,320.28	114.04	120.10	87.71	-6,382.10	-3,446.35	2,943.59	2,778.21	165.38	17.799			
18,800.00	12,399.00	18,631.40	12,321.37	115.56	121.64	87.73	-6,482.08	-3,445.47	2,943.67	2,776.11	167.55	17.568			
18,900.00	12,399.00	18,731.40	12,322.45	117.09	123.19	87.75	-6,582.06	-3,444.60	2,943.75	2,774.02	169.73	17.344			
19,000.00	12,399.00	18,831.39	12,323.53	118.62	124.74	87.77	-6,682.05	-3,443.73	2,943.83	2,771.92	171.91	17.124			
19,100.00	12,399.00	18,931.39	12,324.62	120.15	126.29	87.79	-6,782.03	-3,442.86	2,943.91	2,769.81	174.09	16.910			

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 804H
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 804H	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	12,399.00	19,031.38	12,325.70	121.69	127.85	87.81	-6,882.02	-3,441.99	2,943.99	2,767.71	176.28	16.700			
19,300.00	12,399.00	19,131.38	12,326.78	123.22	129.41	87.84	-6,982.00	-3,441.11	2,944.07	2,765.59	178.47	16.496			
19,400.00	12,399.00	19,231.37	12,327.87	124.77	130.97	87.86	-7,081.99	-3,440.24	2,944.15	2,763.48	180.67	16.296			
19,500.00	12,399.00	19,331.36	12,328.95	126.31	132.53	87.88	-7,181.97	-3,439.37	2,944.23	2,761.36	182.87	16.100			
19,600.00	12,399.00	19,431.36	12,330.03	127.86	134.09	87.90	-7,281.96	-3,438.50	2,944.31	2,759.24	185.07	15.909			
19,700.00	12,399.00	19,531.35	12,331.11	129.41	135.66	87.92	-7,381.94	-3,437.62	2,944.40	2,757.12	187.28	15.722			
19,800.00	12,399.00	19,631.35	12,332.20	130.96	137.23	87.94	-7,481.92	-3,436.75	2,944.48	2,754.99	189.49	15.539			
19,900.00	12,399.00	19,731.34	12,333.28	132.52	138.80	87.96	-7,581.91	-3,435.88	2,944.56	2,752.86	191.70	15.361			
20,000.00	12,399.00	19,831.33	12,334.36	134.07	140.37	87.98	-7,681.89	-3,435.01	2,944.65	2,750.73	193.91	15.186			
20,100.00	12,399.00	19,931.33	12,335.45	135.63	141.95	88.00	-7,781.88	-3,434.13	2,944.73	2,748.60	196.13	15.014			
20,200.00	12,399.00	20,031.32	12,336.53	137.20	143.52	88.03	-7,881.86	-3,433.26	2,944.81	2,746.46	198.35	14.847			
20,300.00	12,399.00	20,131.32	12,337.61	138.76	145.10	88.05	-7,981.85	-3,432.39	2,944.90	2,744.33	200.57	14.682			
20,400.00	12,399.00	20,231.31	12,338.69	140.32	146.68	88.07	-8,081.83	-3,431.52	2,944.98	2,742.19	202.80	14.522			
20,500.00	12,399.00	20,331.30	12,339.78	141.89	148.26	88.09	-8,181.82	-3,430.64	2,945.07	2,740.04	205.03	14.364			
20,600.00	12,399.00	20,431.30	12,340.86	143.46	149.84	88.11	-8,281.80	-3,429.77	2,945.16	2,737.90	207.26	14.210			
20,700.00	12,399.00	20,531.29	12,341.94	145.03	151.43	88.13	-8,381.78	-3,428.90	2,945.24	2,735.75	209.49	14.059			
20,800.00	12,399.00	20,631.29	12,343.03	146.61	153.01	88.15	-8,481.77	-3,428.03	2,945.33	2,733.60	211.72	13.911			
20,900.00	12,399.00	20,731.28	12,344.11	148.18	154.60	88.17	-8,581.75	-3,427.15	2,945.42	2,731.45	213.96	13.766			
21,000.00	12,399.00	20,831.27	12,345.19	149.76	156.18	88.19	-8,681.74	-3,426.28	2,945.50	2,729.30	216.20	13.624			
21,100.00	12,399.00	20,931.27	12,346.27	151.34	157.77	88.22	-8,781.72	-3,425.41	2,945.59	2,727.15	218.44	13.485			
21,200.00	12,399.00	21,031.26	12,347.36	152.92	159.36	88.24	-8,881.71	-3,424.54	2,945.68	2,725.00	220.68	13.348			
21,300.00	12,399.00	21,131.26	12,348.44	154.50	160.96	88.26	-8,981.69	-3,423.66	2,945.77	2,722.84	222.93	13.214			
21,400.00	12,399.00	21,231.25	12,349.52	156.08	162.55	88.28	-9,081.67	-3,422.79	2,945.86	2,720.68	225.18	13.082			
21,500.00	12,399.00	21,331.24	12,350.61	157.66	164.14	88.30	-9,181.66	-3,421.92	2,945.95	2,718.52	227.43	12.953			
21,600.00	12,399.00	21,431.24	12,351.69	159.25	165.74	88.32	-9,281.64	-3,421.05	2,946.04	2,716.36	229.68	12.827			
21,700.00	12,399.00	21,531.23	12,352.77	160.84	167.33	88.34	-9,381.63	-3,420.18	2,946.13	2,714.20	231.93	12.703			
21,800.00	12,399.00	21,631.23	12,353.85	162.42	168.93	88.36	-9,481.61	-3,419.30	2,946.22	2,712.04	234.18	12.581			
21,900.00	12,399.00	21,731.22	12,354.94	164.01	170.53	88.38	-9,581.60	-3,418.43	2,946.31	2,709.87	236.44	12.461			
22,000.00	12,399.00	21,831.21	12,356.02	165.60	172.13	88.41	-9,681.58	-3,417.56	2,946.40	2,707.71	238.69	12.344			
22,100.00	12,399.00	21,931.21	12,357.10	167.19	173.73	88.43	-9,781.57	-3,416.69	2,946.49	2,705.54	240.95	12.228			
22,200.00	12,399.00	22,031.20	12,358.19	168.79	175.33	88.45	-9,881.55	-3,415.81	2,946.59	2,703.37	243.21	12.115			
22,300.00	12,399.00	22,131.20	12,359.27	170.38	176.93	88.47	-9,981.53	-3,414.94	2,946.68	2,701.20	245.48	12.004			
22,400.00	12,399.00	22,231.19	12,360.35	171.98	178.54	88.49	-10,081.52	-3,414.07	2,946.77	2,699.03	247.74	11.895			
22,500.00	12,399.00	22,331.19	12,361.43	173.57	180.14	88.51	-10,181.50	-3,413.20	2,946.86	2,696.86	250.00	11.787			
22,600.00	12,399.00	22,390.61	12,362.08	175.17	181.09	88.52	-10,240.92	-3,412.68	2,947.24	2,695.42	251.82	11.704 ES			
22,700.00	12,399.00	22,390.61	12,362.08	176.77	181.09	88.52	-10,240.92	-3,412.68	2,950.40	2,697.61	252.79	11.671			
22,800.00	12,399.00	22,390.61	12,362.08	178.37	181.09	88.52	-10,240.92	-3,412.68	2,956.95	2,703.46	253.49	11.665 SF			
22,900.00	12,399.00	22,390.61	12,362.08	179.97	181.09	88.52	-10,240.92	-3,412.68	2,966.85	2,712.96	253.89	11.685			
23,000.00	12,399.00	22,390.61	12,362.08	181.57	181.09	88.52	-10,240.92	-3,412.68	2,980.08	2,726.06	254.02	11.732			
23,100.00	12,399.00	22,390.61	12,362.08	183.17	181.09	88.52	-10,240.92	-3,412.68	2,996.59	2,742.70	253.89	11.803			
23,200.00	12,399.00	22,390.61	12,362.08	184.77	181.09	88.52	-10,240.92	-3,412.68	3,016.33	2,762.83	253.49	11.899			
23,300.00	12,399.00	22,390.61	12,362.08	186.38	181.09	88.52	-10,240.92	-3,412.68	3,039.23	2,786.38	252.85	12.020			
23,400.00	12,399.00	22,390.61	12,362.08	187.98	181.09	88.52	-10,240.92	-3,412.68	3,065.22	2,813.25	251.97	12.165			
23,500.00	12,399.00	22,390.61	12,362.08	189.58	181.09	88.52	-10,240.92	-3,412.68	3,094.23	2,843.35	250.88	12.333			
23,600.00	12,399.00	22,390.61	12,362.08	191.19	181.09	88.52	-10,240.92	-3,412.68	3,126.16	2,876.58	249.58	12.526			
23,700.00	12,399.00	22,390.61	12,362.08	192.80	181.09	88.52	-10,240.92	-3,412.68	3,160.94	2,912.83	248.11	12.740			
23,800.00	12,399.00	22,390.61	12,362.08	194.41	181.09	88.52	-10,240.92	-3,412.68	3,198.47	2,952.01	246.47	12.977			
23,874.38	12,399.00	22,390.61	12,362.08	195.60	181.09	88.52	-10,240.92	-3,412.68	3,228.12	2,982.96	245.16	13.167			

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 804H
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 804H	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				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	0.50	0.50	0.00	0.00	51.48	465.31	584.64	747.20							
100.00	100.00	100.50	100.50	0.13	0.15	51.48	465.31	584.64	747.20	747.01	0.20	3,795.734				
200.00	200.00	201.33	201.33	0.48	0.33	51.48	465.31	584.63	747.20	746.62	0.58	1,280.443				
300.00	300.00	308.25	308.24	0.84	0.70	51.49	464.86	584.15	746.58	745.49	1.09	682.540				
400.00	400.00	412.34	412.33	1.20	1.06	51.48	464.12	582.97	745.25	743.65	1.60	464.713				
500.00	500.00	517.17	517.13	1.56	1.44	51.43	463.35	581.07	743.38	741.26	2.12	350.741				
600.00	600.00	627.36	627.28	1.92	1.83	51.39	461.85	578.28	740.56	737.91	2.65	279.468				
700.00	700.00	729.44	729.29	2.28	2.20	51.37	459.56	574.99	736.64	733.48	3.16	233.063				
800.00	800.00	828.84	828.61	2.63	2.56	51.35	457.29	571.89	732.77	729.11	3.67	199.922				
900.00	900.00	925.71	925.41	2.99	2.91	51.39	454.68	569.30	729.01	724.85	4.16	175.096				
1,000.00	1,000.00	1,029.21	1,028.85	3.35	3.29	51.40	452.37	566.71	725.68	721.00	4.68	155.116				
1,100.00	1,100.00	1,129.27	1,128.82	3.71	3.65	51.35	450.30	563.16	721.61	716.43	5.19	139.164				
1,200.00	1,200.00	1,227.90	1,227.38	4.07	4.01	51.30	448.54	559.90	717.91	712.23	5.69	126.192				
1,300.00	1,300.00	1,329.17	1,328.57	4.43	4.38	51.22	446.85	556.22	714.03	707.83	6.20	115.182				
1,400.00	1,400.00	1,426.08	1,425.41	4.79	4.53	51.13	445.50	552.75	710.37	703.81	6.56	108.250				
1,500.00	1,500.00	1,525.49	1,524.75	5.14	4.57	51.03	444.31	549.20	706.84	699.99	6.85	103.213				
1,600.00	1,600.00	1,624.94	1,624.14	5.50	4.63	50.92	443.21	545.83	703.51	696.35	7.16	98.276				
1,700.00	1,700.00	1,722.99	1,722.12	5.86	4.72	50.82	442.12	542.54	700.20	692.71	7.49	93.493				
1,800.00	1,800.00	1,820.62	1,819.71	6.22	4.83	50.73	441.22	539.63	697.31	689.47	7.84	88.963				
1,900.00	1,900.00	1,919.72	1,918.77	6.58	4.97	50.66	440.21	537.02	694.63	686.43	8.20	84.671				
2,000.00	2,000.00	2,018.72	2,017.74	6.94	5.13	50.67	438.44	535.19	692.07	683.48	8.58	80.635				
2,100.00	2,099.99	2,117.08	2,116.07	7.29	5.30	125.46	436.27	533.94	690.45	681.48	8.97	76.995				
2,130.14	2,130.12	2,145.31	2,144.29	7.39	5.35	125.54	435.68	533.64	690.33	681.24	9.08	76.001	CC, ES			
2,200.00	2,199.91	2,209.52	2,208.48	7.64	5.48	125.77	434.57	533.24	690.99	681.63	9.35	73.888				
2,300.00	2,299.69	2,304.54	2,303.50	7.99	5.67	126.21	433.52	533.11	694.04	684.29	9.75	71.201				
2,400.00	2,399.27	2,401.50	2,400.46	8.34	5.87	126.78	432.88	533.27	699.22	689.06	10.15	68.863				
2,458.69	2,457.58	2,457.36	2,456.32	8.55	6.00	127.18	432.59	533.54	703.23	692.84	10.39	67.657				
2,500.00	2,498.60	2,496.54	2,495.49	8.70	6.08	127.50	432.47	533.82	706.41	695.84	10.56	66.872				
2,600.00	2,597.88	2,592.17	2,591.11	9.06	6.30	128.28	432.39	534.79	714.57	703.59	10.98	65.082				
2,700.00	2,697.16	2,705.05	2,703.98	9.43	6.57	129.24	431.37	535.70	722.24	710.80	11.43	63.169				
2,800.00	2,796.44	2,815.74	2,814.57	9.80	6.86	130.38	426.62	536.44	728.02	716.12	11.89	61.208				
2,900.00	2,895.72	2,909.34	2,907.98	10.17	7.12	131.49	420.77	537.82	733.68	721.34	12.34	59.472				
3,000.00	2,995.00	3,000.83	2,999.29	10.54	7.37	132.55	415.75	540.25	741.00	728.22	12.78	57.986				
3,100.00	3,094.28	3,117.70	3,115.92	10.92	7.71	133.89	408.72	542.46	747.75	734.48	13.27	56.348				
3,200.00	3,193.56	3,253.04	3,250.78	11.30	8.13	135.46	397.46	541.16	751.26	737.48	13.79	54.496				
3,300.00	3,292.84	3,351.00	3,348.23	11.68	8.44	136.58	388.09	537.73	752.21	737.95	14.26	52.750				
3,400.00	3,392.12	3,445.00	3,441.85	12.06	8.74	137.60	380.15	534.88	754.36	739.63	14.73	51.203				
3,500.00	3,491.40	3,528.57	3,525.20	12.45	9.01	138.45	374.29	533.19	758.24	743.05	15.19	49.912				
3,600.00	3,590.68	3,642.84	3,639.20	12.83	9.38	139.47	367.53	529.76	762.04	746.35	15.69	48.554				
3,700.00	3,689.96	3,738.90	3,735.06	13.22	9.70	140.17	363.36	525.13	765.02	748.85	16.17	47.305				
3,800.00	3,789.24	3,823.00	3,819.07	13.60	9.96	140.67	361.45	521.78	769.67	753.04	16.63	46.285				
3,900.00	3,888.52	3,909.24	3,905.27	13.99	10.24	141.20	359.97	519.88	776.25	759.17	17.09	45.432				
4,000.00	3,987.80	4,021.38	4,017.29	14.38	10.61	142.11	355.04	518.52	782.86	765.26	17.60	44.481				
4,100.00	4,087.08	4,125.44	4,121.02	14.77	10.96	143.17	346.99	517.06	788.20	770.10	18.10	43.542				
4,200.00	4,186.36	4,214.87	4,210.21	15.16	11.27	144.05	340.43	516.21	794.34	775.76	18.58	42.761				
4,300.00	4,285.64	4,314.07	4,309.26	15.56	11.61	144.88	335.15	515.26	801.38	782.32	19.07	42.024				
4,400.00	4,384.92	4,429.81	4,424.84	15.95	12.00	145.73	329.79	512.37	807.37	787.78	19.60	41.200				
4,500.00	4,484.20	4,532.68	4,527.50	16.34	12.35	146.45	324.99	508.09	811.90	791.80	20.10	40.399				
4,600.00	4,583.48	4,621.74	4,616.44	16.74	12.66	147.00	321.78	504.71	817.23	796.66	20.57	39.726				
4,700.00	4,682.76	4,710.48	4,705.12	17.13	12.96	147.55	318.93	502.61	824.12	803.07	21.04	39.163				
4,800.00	4,782.04	4,803.98	4,798.56	17.53	13.28	148.12	316.13	501.26	832.03	810.51	21.52	38.656				
4,900.00	4,881.32	4,900.52	4,895.07	17.92	13.61	148.67	313.88	500.20	840.56	818.55	22.01	38.186				

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 804H
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 804H	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							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,000.00	4,980.60	4,997.78	4,992.30	18.32	13.93	149.18	312.05	499.21	849.36	826.86	22.50	37.746				
5,100.00	5,079.88	5,104.72	5,099.22	18.71	14.30	149.75	309.70	498.12	858.16	835.14	23.02	37.281				
5,200.00	5,179.16	5,248.97	5,243.17	19.11	14.81	150.72	302.34	493.23	864.13	840.52	23.61	36.597				
5,300.00	5,278.44	5,346.70	5,340.48	19.51	15.16	151.48	295.07	487.98	867.65	843.54	24.11	35.980				
5,400.00	5,377.72	5,442.71	5,436.07	19.90	15.51	152.24	287.59	482.93	871.36	846.75	24.62	35.400				
5,500.00	5,477.00	5,539.77	5,532.70	20.30	15.87	153.02	279.87	478.23	875.62	850.50	25.12	34.860				
5,600.00	5,576.28	5,639.83	5,632.30	20.70	16.24	153.85	271.48	473.36	879.93	854.30	25.63	34.335				
5,700.00	5,675.56	5,732.80	5,724.86	21.10	16.58	154.59	263.96	469.16	884.83	858.70	26.12	33.870				
5,800.00	5,774.84	5,830.09	5,821.78	21.50	16.94	155.36	256.36	465.35	890.52	863.89	26.63	33.442				
5,900.00	5,874.12	5,938.78	5,929.94	21.90	17.35	156.26	246.72	460.57	895.75	868.59	27.16	32.979				
6,000.00	5,973.40	6,040.19	6,030.70	22.30	17.73	157.17	236.50	455.46	900.37	872.69	27.68	32.528				
6,100.00	6,072.68	6,138.95	6,128.84	22.70	18.11	158.05	226.53	450.59	905.31	877.12	28.19	32.110				
6,200.00	6,171.96	6,238.50	6,227.72	23.10	18.49	158.93	216.21	445.58	910.33	881.62	28.71	31.705				
6,300.00	6,271.24	6,331.17	6,319.78	23.50	18.84	159.76	206.55	441.12	915.80	886.58	29.21	31.347				
6,400.00	6,370.52	6,425.48	6,413.61	23.90	19.20	160.51	197.94	437.24	922.26	892.54	29.72	31.033				
6,500.00	6,469.80	6,520.23	6,508.02	24.30	19.55	161.17	190.81	433.54	929.21	898.99	30.22	30.747				
6,600.00	6,569.08	6,613.75	6,601.35	24.70	19.89	161.69	185.81	430.34	936.87	906.15	30.71	30.502				
6,700.00	6,668.36	6,708.27	6,695.72	25.10	20.23	162.17	181.24	427.62	945.18	913.97	31.21	30.285				
6,800.00	6,767.64	6,804.90	6,792.20	25.50	20.58	162.67	176.40	425.24	953.97	922.26	31.71	30.084				
6,900.00	6,866.91	6,898.50	6,885.66	25.90	20.92	163.15	171.65	423.24	963.15	930.95	32.20	29.910				
6,934.75	6,901.42	6,930.20	6,917.32	26.04	21.03	163.31	170.05	422.72	966.54	934.17	32.37	29.860				
7,000.00	6,966.26	6,997.18	6,984.21	26.30	21.28	163.65	166.87	421.67	972.42	939.72	32.71	29.731				
7,100.00	7,065.85	7,101.61	7,088.53	26.68	21.65	164.08	162.63	419.61	979.04	945.81	33.23	29.464				
7,200.00	7,165.65	7,195.30	7,182.15	27.05	21.98	164.37	159.57	417.69	983.11	949.40	33.71	29.163				
7,300.00	7,265.57	7,284.25	7,271.07	27.41	22.29	164.54	157.71	416.72	985.63	951.46	34.17	28.845				
7,393.44	7,359.00	7,371.77	7,358.59	27.72	22.59	164.54	156.31	416.62	986.62	952.01	34.61	28.510				
7,400.00	7,365.56	7,378.10	7,364.92	27.74	22.62	164.54	156.22	416.62	986.63	951.99	34.64	28.485				
7,500.00	7,465.56	7,474.83	7,461.63	28.08	22.95	164.54	154.73	416.90	986.91	951.80	35.11	28.109				
7,600.00	7,565.56	7,574.49	7,561.28	28.41	23.29	164.54	153.25	417.40	987.42	951.82	35.59	27.741				
7,700.00	7,665.56	7,671.48	7,658.26	28.74	23.62	164.54	151.79	417.97	988.02	951.95	36.07	27.393				
7,800.00	7,765.56	7,768.60	7,755.36	29.07	23.94	164.54	150.45	418.88	988.96	952.42	36.54	27.065				
7,900.00	7,865.56	7,863.52	7,850.27	29.41	24.26	164.54	149.46	420.13	990.28	953.28	37.00	26.763				
8,000.00	7,965.56	7,962.77	7,949.50	29.74	24.58	164.54	148.68	421.78	991.96	954.48	37.48	26.469				
8,100.00	8,065.56	8,059.10	8,045.81	30.08	24.89	164.54	148.26	423.54	993.79	955.85	37.94	26.195				
8,200.00	8,165.56	8,158.69	8,145.38	30.41	25.21	164.54	148.20	425.61	995.86	957.45	38.41	25.927				
8,300.00	8,265.56	8,255.25	8,241.91	30.75	25.51	164.54	148.77	427.78	998.10	959.24	38.87	25.680				
8,400.00	8,365.56	8,360.49	8,347.13	31.09	25.84	164.54	149.97	430.02	1,000.23	960.87	39.36	25.414				
8,500.00	8,465.56	8,457.07	8,443.67	31.42	26.14	164.54	151.47	432.02	1,002.29	962.47	39.81	25.175				
8,600.00	8,565.56	8,553.94	8,540.50	31.76	26.45	164.54	153.17	434.38	1,004.72	964.45	40.27	24.950				
8,700.00	8,665.56	8,661.76	8,648.27	32.10	26.78	164.54	155.28	436.91	1,007.07	966.29	40.77	24.700				
8,800.00	8,765.56	8,776.44	8,762.94	32.44	27.14	164.54	156.61	437.81	1,007.82	966.52	41.30	24.404				
8,900.00	8,865.56	8,878.70	8,865.20	32.78	27.47	164.54	157.42	438.01	1,008.01	966.23	41.78	24.128				
9,000.00	8,965.56	8,982.40	8,968.88	33.12	27.80	164.54	158.84	437.94	1,007.94	965.68	42.26	23.850				
9,100.00	9,065.56	9,081.13	9,067.59	33.45	28.11	164.54	160.80	437.64	1,007.65	964.92	42.73	23.581				
9,139.84	9,105.40	9,119.45	9,105.91	33.59	28.23	164.54	161.54	437.61	1,007.62	964.70	42.91	23.480				
9,200.00	9,165.56	9,176.86	9,163.31	33.79	28.42	164.54	162.58	437.68	1,007.70	964.51	43.19	23.332				
9,300.00	9,265.56	9,272.64	9,259.07	34.14	28.72	164.54	164.45	438.14	1,008.19	964.54	43.65	23.098				
9,400.00	9,365.56	9,372.77	9,359.17	34.48	29.04	164.54	166.95	438.85	1,008.92	964.80	44.12	22.866				
9,500.00	9,465.56	9,475.80	9,462.16	34.82	29.37	164.54	169.44	439.39	1,009.47	964.86	44.61	22.630				
9,600.00	9,565.56	9,573.79	9,560.13	35.16	29.68	164.54	171.78	439.82	1,009.94	964.86	45.08	22.405				
9,700.00	9,665.56	9,668.18	9,654.48	35.50	29.99	164.54	174.11	440.59	1,010.80	965.27	45.53	22.200				
9,800.00	9,765.56	9,756.17	9,742.43	35.84	30.27	164.54	176.05	442.08	1,012.53	966.57	45.96	22.030				

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 804H
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 804H	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			
9,900.00	9,865.56	9,843.32	9,829.53	36.19	30.55	88.83	177.72	444.63	1,015.50	969.11	46.38	21.893				
10,000.00	9,965.56	9,948.20	9,934.34	36.53	30.90	88.79	178.58	448.30	1,019.02	972.13	46.89	21.732				
10,100.00	10,065.56	10,045.46	10,031.55	36.87	31.22	88.85	177.48	451.45	1,022.23	974.87	47.37	21.582				
10,200.00	10,165.56	10,157.06	10,143.06	37.21	31.61	89.01	174.73	454.59	1,025.00	977.09	47.91	21.394				
10,300.00	10,265.56	10,257.04	10,242.97	37.56	31.96	89.19	171.45	456.79	1,027.15	978.74	48.41	21.219				
10,400.00	10,365.56	10,353.38	10,339.23	37.90	32.29	89.34	168.93	459.40	1,029.82	980.93	48.89	21.066				
10,500.00	10,465.56	10,466.39	10,452.22	38.25	32.68	89.41	167.60	461.27	1,031.42	981.99	49.43	20.866				
10,600.00	10,565.56	10,576.97	10,562.79	38.59	33.06	89.45	166.87	462.65	1,032.71	982.74	49.96	20.670				
10,700.00	10,665.56	10,683.51	10,669.32	38.94	33.43	89.51	165.79	462.28	1,032.33	981.85	50.48	20.450				
10,800.00	10,765.56	10,780.27	10,766.08	39.28	33.77	89.57	164.83	462.16	1,032.19	981.22	50.97	20.253				
10,800.69	10,766.26	10,780.95	10,766.76	39.28	33.77	89.57	164.83	462.16	1,032.19	981.22	50.97	20.251				
10,900.00	10,865.56	10,875.18	10,860.99	39.63	34.10	89.61	164.08	462.37	1,032.40	980.96	51.44	20.069				
11,000.00	10,965.56	10,968.97	10,954.77	39.97	34.43	89.65	163.29	463.11	1,033.19	981.28	51.91	19.902				
11,100.00	11,065.56	11,067.58	11,053.36	40.32	34.77	89.72	162.03	464.32	1,034.41	982.01	52.40	19.740				
11,200.00	11,165.56	11,170.32	11,156.03	40.66	35.13	89.91	158.70	465.48	1,035.53	982.62	52.91	19.571				
11,300.00	11,265.56	11,297.92	11,281.32	41.01	35.63	91.14	136.39	464.74	1,035.05	981.52	53.53	19.336				
11,400.00	11,365.56	11,389.44	11,366.78	41.36	36.01	92.95	103.84	462.84	1,034.20	980.17	54.03	19.140				
11,403.15	11,368.71	11,392.12	11,369.21	41.37	36.03	93.01	102.72	462.78	1,034.20	980.15	54.05	19.135				
11,500.00	11,465.56	11,466.00	11,433.53	41.70	36.36	95.01	66.55	461.08	1,035.55	981.08	54.47	19.012				
11,600.00	11,565.56	11,521.70	11,478.29	42.05	36.62	96.84	33.46	460.22	1,041.30	986.57	54.73	19.026				
11,700.00	11,665.56	11,579.24	11,520.94	42.40	36.90	98.95	-5.13	459.61	1,052.35	997.44	54.91	19.165				
11,800.00	11,765.56	11,630.71	11,555.73	42.74	37.15	101.00	-43.04	458.92	1,069.08	1,014.15	54.93	19.462				
11,860.48	11,826.04	11,659.90	11,574.05	42.95	37.31	102.22	-65.76	458.36	1,082.08	1,027.21	54.87	19.722				
11,900.00	11,865.53	11,679.65	11,585.94	43.08	37.41	-75.45	-81.51	457.91	1,091.45	1,036.65	54.81	19.915				
11,950.00	11,915.20	11,706.02	11,601.26	43.24	37.55	-73.22	-102.97	457.23	1,103.60	1,048.89	54.71	20.172				
12,000.00	11,964.19	11,737.85	11,619.19	43.39	37.73	-70.89	-129.25	456.30	1,115.74	1,061.09	54.64	20.418				
12,050.00	12,012.13	11,765.14	11,634.09	43.53	37.88	-68.85	-152.09	455.42	1,127.58	1,073.06	54.52	20.682				
12,100.00	12,058.65	11,797.00	11,650.29	43.66	38.06	-66.79	-179.50	454.27	1,139.19	1,084.77	54.42	20.932				
12,150.00	12,103.40	11,810.52	11,656.70	43.78	38.14	-65.38	-191.39	453.76	1,150.31	1,096.19	54.13	21.252				
12,200.00	12,146.04	11,830.40	11,665.52	43.90	38.26	-63.88	-209.19	453.01	1,161.05	1,107.16	53.89	21.545				
12,250.00	12,186.24	11,844.00	11,671.14	44.00	38.34	-62.63	-221.57	452.51	1,171.27	1,117.69	53.59	21.858				
12,300.00	12,223.71	11,870.28	11,681.07	44.09	38.49	-61.23	-245.88	451.59	1,180.74	1,127.33	53.41	22.107				
12,350.00	12,258.14	11,891.00	11,688.05	44.17	38.62	-60.08	-265.37	450.94	1,189.47	1,136.28	53.19	22.362				
12,400.00	12,289.29	11,919.38	11,696.55	44.24	38.79	-58.95	-292.43	449.98	1,197.14	1,144.09	53.06	22.563				
12,450.00	12,316.92	11,946.08	11,703.50	44.30	38.96	-58.02	-318.18	448.85	1,203.51	1,150.58	52.93	22.739				
12,500.00	12,340.80	11,967.00	11,708.02	44.36	39.09	-57.31	-338.59	447.86	1,208.70	1,155.92	52.77	22.904				
12,550.00	12,360.77	11,992.85	11,712.49	44.43	39.25	-56.70	-364.01	446.53	1,212.65	1,159.96	52.68	23.017				
12,600.00	12,376.67	12,022.00	11,716.20	44.50	39.44	-56.21	-392.87	444.94	1,215.30	1,162.65	52.65	23.083				
12,650.00	12,388.38	12,057.93	11,719.83	44.59	39.67	-55.89	-428.57	442.95	1,216.30	1,163.60	52.70	23.081				
12,700.00	12,395.81	12,110.86	11,725.12	44.69	40.03	-55.81	-481.14	440.00	1,214.94	1,162.03	52.91	22.961				
12,750.00	12,398.90	12,160.86	11,730.22	44.81	40.38	-56.12	-530.80	437.14	1,211.04	1,157.86	53.18	22.774				
12,760.48	12,399.00	12,169.73	11,731.14	44.83	40.44	-56.23	-539.61	436.66	1,209.93	1,156.70	53.23	22.730				
12,800.00	12,399.00	12,203.16	11,734.61	44.94	40.69	-56.32	-572.82	434.97	1,205.66	1,152.22	53.44	22.560				
12,900.00	12,399.00	12,297.61	11,744.71	45.25	41.40	-56.60	-666.65	431.13	1,195.51	1,141.40	54.11	22.095				
13,000.00	12,399.00	12,384.70	11,754.74	45.62	42.11	-56.90	-753.11	428.28	1,185.64	1,130.84	54.80	21.635				
13,100.00	12,399.00	12,462.24	11,763.89	46.05	42.76	-57.24	-830.10	427.52	1,177.54	1,122.04	55.50	21.217				
13,200.00	12,399.00	12,527.00	11,771.01	46.53	43.33	-57.52	-894.47	427.79	1,171.37	1,115.23	56.14	20.866				
13,300.00	12,399.00	12,622.00	11,779.30	47.07	44.19	-57.89	-989.08	429.62	1,167.48	1,110.41	57.08	20.454				
13,400.00	12,399.00	12,682.08	11,782.59	47.65	44.75	-58.06	-1,049.05	431.44	1,165.97	1,108.24	57.73	20.196				
13,413.57	12,399.00	12,692.20	11,782.97	47.74	44.84	-58.08	-1,059.15	431.75	1,165.95	1,108.11	57.84	20.158				
13,500.00	12,399.00	12,774.28	11,785.01	48.29	45.63	-58.21	-1,141.17	434.31	1,166.36	1,107.70	58.67	19.882				
13,600.00	12,399.00	12,886.12	11,787.71	48.97	46.74	-58.36	-1,252.95	437.00	1,166.30	1,106.48	59.81	19.499				

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 804H
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 804H	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							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	12,399.00	12,983.77	11,789.35	49.70	47.74	-58.44	-1,350.57	438.23	1,165.65	1,104.77	60.87	19.149				
13,738.71	12,399.00	13,017.44	11,789.68	50.00	48.10	-58.45	-1,384.24	438.66	1,165.54	1,104.29	61.26	19.027				
13,800.00	12,399.00	13,067.52	11,789.80	50.47	48.63	-58.47	-1,434.31	439.52	1,165.84	1,104.00	61.83	18.854				
13,900.00	12,399.00	13,196.07	11,790.43	51.29	50.04	-58.51	-1,562.83	441.52	1,166.20	1,102.95	63.26	18.436				
14,000.00	12,399.00	13,282.00	11,791.91	52.14	51.01	-58.59	-1,648.74	442.86	1,165.72	1,101.37	64.35	18.115				
14,100.00	12,399.00	13,403.14	11,796.42	53.03	52.42	-58.81	-1,769.76	445.22	1,164.61	1,098.71	65.90	17.673				
14,200.00	12,399.00	13,504.26	11,802.09	53.95	53.62	-59.07	-1,870.71	447.02	1,162.39	1,095.07	67.32	17.266				
14,300.00	12,399.00	13,598.93	11,807.84	54.91	54.78	-59.34	-1,965.18	449.25	1,160.45	1,091.72	68.73	16.885				
14,400.00	12,399.00	13,696.24	11,814.28	55.90	55.98	-59.67	-2,062.23	452.33	1,158.96	1,088.73	70.23	16.502				
14,500.00	12,399.00	13,797.97	11,822.26	56.93	57.27	-60.08	-2,163.57	456.17	1,157.42	1,085.56	71.86	16.106				
14,600.00	12,399.00	13,884.87	11,829.62	57.98	58.38	-60.47	-2,250.07	459.91	1,156.14	1,082.79	73.36	15.760				
14,617.72	12,399.00	13,897.93	11,830.65	58.17	58.55	-60.53	-2,263.07	460.60	1,156.11	1,082.51	73.60	15.709				
14,700.00	12,399.00	13,960.21	11,835.04	59.06	59.36	-60.79	-2,325.08	464.35	1,156.87	1,082.16	74.71	15.484				
14,800.00	12,399.00	14,045.46	11,838.20	60.16	60.47	-61.03	-2,410.13	469.32	1,159.29	1,083.14	76.15	15.223				
14,900.00	12,399.00	14,184.15	11,839.32	61.29	62.30	-61.15	-2,548.72	473.93	1,161.05	1,082.83	78.22	14.843				
15,000.00	12,399.00	14,308.95	11,841.86	62.44	63.97	-61.25	-2,673.49	474.69	1,159.75	1,079.63	80.12	14.475				
15,100.00	12,399.00	14,439.28	11,848.33	63.61	65.74	-61.49	-2,803.63	473.99	1,156.03	1,073.85	82.18	14.068				
15,200.00	12,399.00	14,533.30	11,857.15	64.81	67.04	-61.86	-2,897.23	474.50	1,151.17	1,067.22	83.95	13.713				
15,300.00	12,399.00	14,621.43	11,865.92	66.02	68.27	-62.26	-2,984.91	476.05	1,147.17	1,061.47	85.70	13.386				
15,400.00	12,399.00	14,719.58	11,874.26	67.26	69.65	-62.65	-3,082.69	477.72	1,143.87	1,056.29	87.57	13.062				
15,500.00	12,399.00	14,828.10	11,885.47	68.51	71.18	-63.18	-3,190.60	480.16	1,140.27	1,050.58	89.68	12.714				
15,600.00	12,399.00	14,935.49	11,895.92	69.77	72.71	-63.65	-3,297.46	481.20	1,135.87	1,044.10	91.77	12.378				
15,700.00	12,399.00	15,032.05	11,900.93	71.06	74.09	-63.83	-3,393.87	479.92	1,131.49	1,037.91	93.57	12.092				
15,800.00	12,399.00	15,128.50	11,904.37	72.35	75.47	-63.92	-3,490.24	477.85	1,127.11	1,031.77	95.34	11.822				
15,900.00	12,399.00	15,209.21	11,909.74	73.67	76.64	-64.16	-3,570.75	478.58	1,124.08	1,027.05	97.03	11.585				
16,000.00	12,399.00	15,310.33	11,916.52	74.99	78.11	-64.48	-3,671.64	479.94	1,121.48	1,022.45	99.03	11.324				
16,100.00	12,399.00	15,389.00	11,919.30	76.33	79.26	-64.62	-3,750.24	481.23	1,120.45	1,019.81	100.64	11.133				
16,105.02	12,399.00	15,389.00	11,919.30	76.40	79.26	-64.62	-3,750.24	481.23	1,120.44	1,019.77	100.66	11.130				
16,200.00	12,399.00	15,474.42	11,919.87	77.68	80.51	-64.67	-3,835.64	482.98	1,121.05	1,018.77	102.28	10.961				
16,300.00	12,399.00	15,590.78	11,919.39	79.04	82.21	-64.65	-3,951.98	484.27	1,121.35	1,017.03	104.32	10.749				
16,400.00	12,399.00	15,743.33	11,920.84	80.41	84.46	-64.63	-4,104.50	481.79	1,118.68	1,011.89	106.78	10.476				
16,500.00	12,399.00	15,838.95	11,922.23	81.80	85.87	-64.58	-4,200.00	477.47	1,113.10	1,004.56	108.54	10.255				
16,600.00	12,399.00	15,939.91	11,923.63	83.19	87.38	-64.54	-4,300.82	473.85	1,108.36	997.98	110.37	10.042				
16,700.00	12,399.00	16,034.09	11,932.39	84.59	88.79	-64.93	-4,394.60	473.89	1,103.53	991.07	112.46	9.812				
16,800.00	12,399.00	16,112.52	11,939.73	86.00	89.97	-65.28	-4,472.68	474.96	1,099.95	985.60	114.35	9.620				
16,900.00	12,399.00	16,215.85	11,947.11	87.42	91.53	-65.66	-4,575.70	476.98	1,097.86	981.30	116.56	9.419				
17,000.00	12,399.00	16,300.65	11,947.86	88.85	92.81	-65.65	-4,660.47	475.86	1,095.45	977.20	118.25	9.263				
17,100.00	12,399.00	16,387.13	11,944.39	90.28	94.12	-65.44	-4,746.88	474.66	1,094.91	975.10	119.81	9.139				
17,131.56	12,399.00	16,417.17	11,943.54	90.74	94.58	-65.39	-4,776.90	474.55	1,094.88	974.54	120.35	9.098				
17,200.00	12,399.00	16,484.55	11,942.89	91.72	95.60	-65.35	-4,844.27	474.96	1,094.93	973.32	121.61	9.003				
17,300.00	12,399.00	16,589.58	11,945.79	93.17	97.20	-65.52	-4,949.23	477.30	1,094.90	971.16	123.75	8.848				
17,400.00	12,399.00	16,692.61	11,951.53	94.63	98.78	-65.84	-5,052.05	480.29	1,094.35	968.37	125.98	8.687				
17,500.00	12,399.00	16,789.27	11,955.40	96.09	100.27	-66.05	-5,148.61	482.45	1,093.85	965.80	128.05	8.542				
17,533.07	12,399.00	16,819.03	11,956.54	96.58	100.72	-66.11	-5,178.34	483.19	1,093.78	965.09	128.70	8.499				
17,600.00	12,399.00	16,875.04	11,958.65	97.56	101.59	-66.24	-5,234.28	484.98	1,094.12	964.19	129.93	8.421				
17,700.00	12,399.00	16,979.07	11,963.28	99.03	103.19	-66.53	-5,338.11	489.28	1,095.22	963.02	132.21	8.284				
17,800.00	12,399.00	17,053.38	11,967.43	100.51	104.34	-66.79	-5,412.21	493.03	1,096.82	962.87	133.95	8.188				
17,900.00	12,399.00	17,138.65	11,971.13	102.00	105.67	-67.08	-5,497.17	499.29	1,100.90	965.01	135.89	8.102				
18,000.00	12,399.00	17,301.35	11,976.10	103.48	108.19	-67.42	-5,659.58	505.88	1,102.62	963.37	139.25	7.918				
18,100.00	12,399.00	17,386.70	11,979.97	104.98	109.52	-67.62	-5,744.82	507.85	1,102.08	960.87	141.21	7.805				
18,147.61	12,399.00	17,435.13	11,982.84	105.69	110.28	-67.79	-5,793.13	509.50	1,102.07	959.76	142.31	7.744				
18,186.78	12,399.00	17,473.89	11,985.14	106.28	110.88	-67.91	-5,831.81	510.79	1,102.05	958.84	143.20	7.696				

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 804H
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 804H	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							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				
18,200.00	12,399.00	17,485.72	11,985.85	106.48	111.07	-67.95	-5,843.60	511.21	1,102.06	958.57	143.48	7.681				
18,300.00	12,399.00	17,607.06	11,993.17	107.98	112.96	-68.37	-5,964.64	515.58	1,102.45	956.28	146.17	7.542				
18,400.00	12,399.00	17,708.69	11,998.23	109.49	114.55	-68.58	-6,066.14	515.01	1,099.15	950.75	148.40	7.407				
18,500.00	12,399.00	17,811.08	12,004.17	111.00	116.15	-68.90	-6,168.32	517.36	1,098.28	947.55	150.73	7.286				
18,600.00	12,399.00	17,955.41	12,011.22	112.52	118.41	-69.17	-6,312.44	514.71	1,093.78	940.32	153.47	7.127				
18,700.00	12,399.00	18,067.75	12,015.89	114.04	120.16	-69.27	-6,424.55	509.23	1,086.79	931.12	155.68	6.981				
18,800.00	12,399.00	18,159.58	12,020.31	115.56	121.59	-69.39	-6,516.17	504.84	1,079.70	921.94	157.76	6.844				
18,900.00	12,399.00	18,251.64	12,027.36	117.09	123.04	-69.69	-6,607.92	502.60	1,073.78	913.77	160.01	6.711				
19,000.00	12,399.00	18,373.68	12,034.93	118.62	124.95	-69.96	-6,729.62	497.79	1,067.03	904.59	162.44	6.569				
19,100.00	12,399.00	18,459.21	12,039.64	120.15	126.29	-70.09	-6,814.89	493.17	1,059.22	894.69	164.53	6.438				
19,200.00	12,399.00	18,524.96	12,039.92	121.69	127.32	-70.04	-6,880.58	490.35	1,054.16	887.94	166.22	6.342				
19,300.00	12,399.00	18,598.00	12,041.65	123.22	128.47	-70.13	-6,953.58	490.90	1,052.85	884.85	168.00	6.267				
19,308.30	12,399.00	18,598.00	12,041.65	123.35	128.47	-70.13	-6,953.58	490.90	1,052.82	884.78	168.03	6.266				
19,400.00	12,399.00	18,661.29	12,044.67	124.77	129.47	-70.33	-7,016.72	493.96	1,054.47	884.89	169.58	6.218				
19,500.00	12,399.00	18,739.37	12,048.97	126.31	130.72	-70.63	-7,094.50	499.30	1,058.16	886.72	171.44	6.172				
19,600.00	12,399.00	18,897.08	12,059.15	127.86	133.23	-71.32	-7,251.44	510.40	1,062.67	887.30	175.37	6.060				
19,602.53	12,399.00	18,857.79	12,056.78	127.90	132.60	-71.17	-7,212.28	508.40	1,062.48	888.01	174.47	6.090				
19,700.00	12,399.00	18,954.46	12,061.74	129.41	134.14	-71.49	-7,308.69	513.33	1,064.69	887.89	176.80	6.022				
19,800.00	12,399.00	19,123.42	12,069.08	130.96	136.83	-71.94	-7,477.32	519.60	1,066.61	886.08	180.52	5.908				
19,900.00	12,399.00	19,234.25	12,072.63	132.52	138.58	-72.06	-7,588.05	516.57	1,061.96	879.11	182.85	5.808				
20,000.00	12,399.00	19,324.28	12,075.88	134.07	140.01	-72.19	-7,678.02	515.23	1,058.49	873.52	184.97	5.722				
20,100.00	12,399.00	19,419.64	12,079.11	135.63	141.53	-72.32	-7,773.31	514.35	1,055.62	868.47	187.15	5.640				
20,200.00	12,399.00	19,503.05	12,084.55	137.20	142.86	-72.61	-7,856.54	515.07	1,053.56	864.26	189.31	5.565				
20,250.32	12,399.00	19,542.00	12,086.95	137.98	143.48	-72.74	-7,895.40	515.97	1,053.28	862.97	190.31	5.534				
20,300.00	12,399.00	19,579.54	12,088.67	138.76	144.08	-72.84	-7,932.89	517.10	1,053.56	862.32	191.24	5.509				
20,400.00	12,399.00	19,662.04	12,089.07	140.32	145.40	-72.89	-8,015.32	520.04	1,055.82	862.77	193.05	5.469				
20,500.00	12,399.00	19,774.41	12,086.45	141.89	147.20	-72.79	-8,127.62	523.13	1,058.21	862.85	195.36	5.417				
20,600.00	12,399.00	19,897.85	12,083.34	143.46	149.17	-72.63	-8,251.01	524.13	1,058.78	861.01	197.77	5.354				
20,700.00	12,399.00	19,998.46	12,079.71	145.03	150.77	-72.41	-8,351.54	523.14	1,057.98	858.29	199.69	5.298				
20,800.00	12,399.00	20,096.65	12,075.15	146.61	152.34	-72.14	-8,449.63	522.14	1,057.48	855.97	201.51	5.248				
20,900.00	12,399.00	20,193.22	12,073.21	148.18	153.88	-72.02	-8,546.17	522.19	1,057.20	853.74	203.46	5.196				
20,911.90	12,399.00	20,204.00	12,073.12	148.37	154.05	-72.02	-8,556.95	522.26	1,057.19	853.50	203.69	5.190				
21,000.00	12,399.00	20,276.10	12,073.01	149.76	155.21	-72.02	-8,629.04	523.49	1,057.83	852.57	205.26	5.154				
21,100.00	12,399.00	20,360.94	12,073.38	151.34	156.57	-72.08	-8,713.83	526.49	1,060.11	852.99	207.12	5.118				
21,200.00	12,399.00	20,476.04	12,073.23	152.92	158.42	-72.12	-8,828.84	530.81	1,062.84	853.20	209.64	5.070				
21,300.00	12,399.00	20,583.39	12,073.47	154.50	160.14	-72.15	-8,936.16	533.18	1,063.92	851.95	211.97	5.019				
21,400.00	12,399.00	20,669.33	12,073.08	156.08	161.52	-72.15	-9,022.08	535.26	1,065.42	851.60	213.81	4.983				
21,500.00	12,399.00	20,766.76	12,070.23	157.66	163.09	-72.03	-9,119.43	537.67	1,067.72	851.96	215.76	4.949				
21,600.00	12,399.00	20,848.41	12,066.27	159.25	164.40	-71.86	-9,200.95	539.95	1,070.94	853.69	217.25	4.930				
21,700.00	12,399.00	20,951.71	12,062.31	160.84	166.07	-71.71	-9,304.08	544.17	1,075.09	855.78	219.31	4.902				
21,800.00	12,399.00	21,091.79	12,060.84	162.42	168.32	-71.67	-9,444.10	547.53	1,076.64	854.36	222.28	4.844				
21,900.00	12,399.00	21,203.41	12,057.88	164.01	170.12	-71.49	-9,555.67	547.11	1,076.18	851.79	224.39	4.796				
22,000.00	12,399.00	21,305.87	12,056.26	165.60	171.76	-71.38	-9,658.12	546.22	1,074.91	848.50	226.42	4.748				
22,100.00	12,399.00	21,402.62	12,057.16	167.19	173.32	-71.41	-9,754.87	546.36	1,073.82	845.28	228.54	4.699				
22,200.00	12,399.00	21,498.18	12,057.76	168.79	174.86	-71.43	-9,850.42	546.77	1,073.08	842.46	230.63	4.653				
22,261.35	12,399.00	21,553.98	12,057.90	169.77	175.76	-71.43	-9,906.22	547.19	1,072.89	841.04	231.85	4.628				
22,300.00	12,399.00	21,587.73	12,057.79	170.38	176.30	-71.43	-9,939.97	547.57	1,072.98	840.40	232.58	4.613				
22,400.00	12,399.00	21,673.92	12,056.80	171.98	177.69	-71.39	-10,026.14	549.07	1,074.06	839.67	234.39	4.582				
22,500.00	12,399.00	21,753.56	12,055.20	173.57	178.98	-71.34	-10,105.72	551.45	1,076.62	840.65	235.97	4.563				
22,600.00	12,399.00	21,836.13	12,053.35	175.17	183.73	-71.30	-10,188.16	555.78	1,081.31	841.43	239.88	4.508 SF				
22,700.00	12,399.00	21,860.00	12,052.81	176.77	186.65	-71.30	-10,211.98	557.15	1,089.21	848.53	240.67	4.526				
22,800.00	12,399.00	21,860.00	12,052.81	178.37	186.65	-71.30	-10,211.98	557.15	1,105.86	868.96	236.90	4.668				

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 804H
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 804H	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
LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - OH												Offset Well Error:	0.00 usft
Survey Program: 190-MWD, 1393-OWSG (Rev2) MWD, 21860-BLIND													
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
22,900.00	12,399.00	21,860.00	12,052.81	179.97	186.65	-71.30	-10,211.98	557.15	1,131.15	899.82	231.32	4.890	
23,000.00	12,399.00	21,860.00	12,052.81	181.57	186.65	-71.30	-10,211.98	557.15	1,164.50	940.10	224.40	5.189	
23,100.00	12,399.00	21,860.00	12,052.81	183.17	186.65	-71.30	-10,211.98	557.15	1,205.24	988.64	216.61	5.564	
23,200.00	12,399.00	21,860.00	12,052.81	184.77	186.65	-71.30	-10,211.98	557.15	1,252.67	1,044.30	208.37	6.012	
23,300.00	12,399.00	21,860.00	12,052.81	186.38	186.65	-71.30	-10,211.98	557.15	1,306.04	1,106.00	200.03	6.529	
23,400.00	12,399.00	21,860.00	12,052.81	187.98	186.65	-71.30	-10,211.98	557.15	1,364.66	1,172.81	191.85	7.113	
23,500.00	12,399.00	21,860.00	12,052.81	189.58	186.65	-71.30	-10,211.98	557.15	1,427.88	1,243.89	183.99	7.761	
23,600.00	12,399.00	21,860.00	12,052.81	191.19	186.65	-71.30	-10,211.98	557.15	1,495.13	1,318.57	176.56	8.468	
23,700.00	12,399.00	21,860.00	12,052.81	192.80	186.65	-71.30	-10,211.98	557.15	1,565.88	1,396.27	169.61	9.232	
23,800.00	12,399.00	21,860.00	12,052.81	194.41	186.65	-71.30	-10,211.98	557.15	1,639.67	1,476.52	163.15	10.050	
23,874.38	12,399.00	21,860.00	12,052.81	195.60	186.65	-71.30	-10,211.98	557.15	1,696.31	1,537.63	158.68	10.690	

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 804H
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 804H	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 705H - OH - OH		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	53.08	465.62	619.64	775.08							
100.00	100.00	105.75	105.74	0.13	0.15	53.03	465.88	619.03	774.77	774.57	0.19	3,997.909				
200.00	200.00	201.90	201.89	0.48	0.43	52.99	466.11	618.24	774.26	773.61	0.65	1,197.825				
300.00	300.00	305.14	305.13	0.84	0.80	52.93	466.54	617.51	773.95	772.79	1.16	667.229				
400.00	400.00	405.49	405.48	1.20	1.16	52.88	466.78	616.78	773.51	771.85	1.67	463.842				
500.00	500.00	508.86	508.84	1.56	1.53	52.79	467.24	615.38	772.70	770.52	2.18	353.957				
600.00	600.00	615.32	615.27	1.92	1.91	52.68	467.57	613.33	771.37	768.66	2.71	285.032				
700.00	700.00	722.40	722.30	2.28	2.30	52.56	467.33	610.29	768.96	765.73	3.23	238.026				
800.00	800.00	824.16	824.01	2.63	2.66	52.40	467.11	606.65	765.99	762.25	3.74	204.700				
900.00	900.00	927.14	926.91	2.99	3.04	52.26	466.70	602.93	762.89	758.64	4.26	179.233				
1,000.00	1,000.00	1,031.99	1,031.66	3.35	3.42	52.07	466.24	598.32	759.15	754.38	4.78	158.955				
1,100.00	1,100.00	1,127.86	1,127.44	3.71	3.77	51.91	465.70	594.08	755.32	750.05	5.27	143.233				
1,200.00	1,200.00	1,226.90	1,226.40	4.07	4.12	51.78	464.83	590.22	751.72	745.94	5.78	130.096				
1,300.00	1,300.00	1,323.44	1,322.88	4.43	4.47	51.67	464.06	586.89	748.52	742.24	6.28	119.252				
1,400.00	1,400.00	1,420.57	1,419.94	4.79	4.65	51.48	464.21	583.27	745.70	739.05	6.65	112.092				
1,500.00	1,500.00	1,514.58	1,513.89	5.14	4.68	51.32	464.56	580.20	743.38	736.45	6.93	107.207				
1,589.60	1,589.60	1,591.19	1,590.50	5.47	4.72	51.26	464.70	579.14	742.53	735.33	7.20	103.123 CC				
1,600.00	1,600.00	1,599.56	1,598.86	5.50	4.72	51.25	464.72	579.14	742.54	735.31	7.23	102.673 ES				
1,700.00	1,700.00	1,681.75	1,681.05	5.86	4.78	51.30	465.10	580.51	744.11	736.57	7.54	98.680				
1,800.00	1,800.00	1,772.35	1,771.58	6.22	4.85	51.42	465.77	583.91	747.50	739.63	7.87	95.008				
1,900.00	1,900.00	1,870.69	1,869.82	6.58	4.96	51.56	466.86	588.17	751.58	743.36	8.22	91.451				
2,000.00	2,000.00	1,973.21	1,972.25	6.94	5.09	51.67	468.33	592.27	755.61	747.02	8.59	87.969				
2,100.00	2,099.99	2,080.34	2,079.27	7.29	5.26	126.53	468.16	597.00	759.76	750.78	8.97	84.655				
2,200.00	2,199.91	2,185.59	2,184.30	7.64	5.44	127.19	464.78	602.80	764.52	755.15	9.37	81.634				
2,300.00	2,299.69	2,284.97	2,283.39	7.99	5.63	128.05	460.22	608.86	770.65	760.89	9.76	78.955				
2,400.00	2,399.27	2,377.20	2,375.33	8.34	5.82	128.94	456.14	614.77	778.97	768.81	10.16	76.692				
2,458.69	2,457.58	2,432.35	2,430.32	8.55	5.94	129.49	454.15	618.51	785.19	774.79	10.40	75.527				
2,500.00	2,498.60	2,473.62	2,471.47	8.70	6.04	129.98	452.60	621.35	789.84	779.27	10.57	74.721				
2,600.00	2,597.88	2,574.78	2,572.30	9.06	6.28	131.17	448.49	628.27	801.12	790.12	11.00	72.825				
2,700.00	2,697.16	2,691.71	2,688.91	9.43	6.57	132.49	443.11	634.99	811.56	800.09	11.47	70.768				
2,800.00	2,796.44	2,803.72	2,800.70	9.80	6.87	133.69	437.06	638.90	819.93	808.00	11.93	68.711				
2,900.00	2,895.72	2,897.20	2,894.00	10.17	7.13	134.65	432.04	641.69	828.19	815.82	12.37	66.933				
3,000.00	2,995.00	2,985.10	2,981.76	10.54	7.38	135.49	428.36	644.80	837.74	824.93	12.81	65.409				
3,100.00	3,094.28	3,077.53	3,074.08	10.92	7.64	136.29	425.73	648.48	848.51	835.26	13.25	64.023				
3,200.00	3,193.56	3,179.23	3,175.61	11.30	7.94	137.22	422.00	653.04	859.55	845.83	13.72	62.636				
3,300.00	3,292.84	3,277.59	3,273.68	11.68	8.24	138.22	416.63	658.28	870.76	856.57	14.19	61.361				
3,400.00	3,392.12	3,395.46	3,391.19	12.06	8.61	139.42	409.29	663.93	881.52	866.82	14.70	59.948				
3,500.00	3,491.40	3,520.22	3,515.68	12.45	9.00	140.55	401.37	665.43	889.11	873.89	15.23	58.393				
3,600.00	3,590.68	3,614.77	3,610.08	12.83	9.29	141.31	396.13	665.10	895.91	880.22	15.69	57.089				
3,700.00	3,689.96	3,704.19	3,699.42	13.22	9.57	141.96	392.40	665.20	903.81	887.66	16.15	55.960				
3,800.00	3,789.24	3,790.50	3,785.69	13.60	9.84	142.52	389.90	665.95	913.04	896.44	16.60	54.993				
3,900.00	3,888.52	3,894.95	3,890.03	13.99	10.18	143.29	385.76	668.25	923.22	906.13	17.10	53.998				
4,000.00	3,987.80	4,017.69	4,012.43	14.38	10.58	144.38	376.87	669.94	931.67	914.04	17.63	52.836				
4,100.00	4,087.08	4,106.00	4,100.51	14.77	10.87	145.13	370.48	670.45	939.57	921.47	18.10	51.912				
4,200.00	4,186.36	4,193.26	4,187.63	15.16	11.16	145.78	365.81	671.36	948.71	930.15	18.56	51.115				
4,300.00	4,285.64	4,296.87	4,291.15	15.56	11.51	146.47	361.47	672.58	958.50	939.44	19.06	50.290				
4,400.00	4,384.92	4,400.67	4,394.79	15.95	11.86	147.20	355.90	673.50	967.76	948.20	19.56	49.475				
4,500.00	4,484.20	4,492.35	4,486.31	16.34	12.17	147.88	350.47	674.65	977.37	957.33	20.04	48.782				
4,600.00	4,583.48	4,585.72	4,579.54	16.74	12.49	148.52	345.67	676.26	987.79	967.27	20.51	48.152				
4,700.00	4,682.76	4,688.54	4,682.20	17.13	12.84	149.22	340.34	678.12	998.42	977.40	21.02	47.504				
4,800.00	4,782.04	4,797.02	4,790.47	17.53	13.21	149.99	333.62	679.54	1,008.45	986.92	21.54	46.824				
4,900.00	4,881.32	4,901.11	4,894.35	17.92	13.57	150.70	327.07	680.05	1,017.82	995.77	22.05	46.170				

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 804H
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 804H	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 705H - OH - OH		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					
5,000.00	4,980.60	4,999.96	4,993.02	18.32	13.91	151.35	321.21	680.27	1,027.16	1,004.62	22.54	45.569					
5,100.00	5,079.88	5,104.05	5,096.95	18.71	14.27	151.99	315.54	680.25	1,036.50	1,013.45	23.05	44.970					
5,200.00	5,179.16	5,189.73	5,182.51	19.11	14.57	152.50	310.93	680.10	1,045.86	1,022.35	23.51	44.483					
5,300.00	5,278.44	5,271.66	5,264.30	19.51	14.86	153.00	306.42	681.75	1,057.35	1,033.38	23.96	44.128					
5,400.00	5,377.72	5,367.12	5,359.54	19.90	15.20	153.62	300.57	684.49	1,069.70	1,045.25	24.45	43.750					
5,500.00	5,477.00	5,466.03	5,458.22	20.30	15.55	154.25	294.48	687.46	1,082.30	1,057.35	24.95	43.377					
5,600.00	5,576.28	5,555.26	5,547.23	20.70	15.87	154.81	288.87	690.22	1,095.13	1,069.71	25.42	43.081					
5,700.00	5,675.56	5,637.42	5,629.13	21.10	16.16	155.32	283.84	694.13	1,109.66	1,083.79	25.86	42.905					
5,800.00	5,774.84	5,734.40	5,725.80	21.50	16.51	155.91	278.03	699.28	1,124.90	1,098.55	26.36	42.679					
5,900.00	5,874.12	5,832.84	5,823.95	21.90	16.87	156.47	272.51	704.53	1,140.34	1,113.49	26.86	42.460					
6,000.00	5,973.40	5,933.13	5,923.95	22.30	17.23	157.02	266.96	709.70	1,155.71	1,128.35	27.36	42.235					
6,100.00	6,072.68	6,031.04	6,021.57	22.70	17.58	157.56	261.27	714.72	1,171.13	1,143.27	27.86	42.033					
6,200.00	6,171.96	6,129.45	6,119.70	23.10	17.94	158.07	255.82	719.78	1,186.69	1,158.32	28.36	41.840					
6,300.00	6,271.24	6,227.84	6,217.81	23.50	18.30	158.57	250.39	724.77	1,202.27	1,173.40	28.86	41.654					
6,400.00	6,370.52	6,323.33	6,313.03	23.90	18.65	159.04	245.14	729.71	1,218.04	1,188.68	29.35	41.496					
6,500.00	6,469.80	6,419.29	6,408.70	24.30	19.00	159.51	239.78	734.94	1,234.16	1,204.31	29.85	41.352					
6,600.00	6,569.08	6,516.78	6,505.89	24.70	19.35	159.97	234.39	740.33	1,250.43	1,220.09	30.34	41.210					
6,700.00	6,668.36	6,616.03	6,604.85	25.10	19.71	160.42	229.05	745.82	1,266.80	1,235.96	30.85	41.066					
6,800.00	6,767.64	6,737.22	6,725.73	25.50	20.15	160.93	222.94	751.59	1,282.57	1,251.14	31.43	40.801					
6,900.00	6,866.91	6,833.23	6,821.69	25.90	20.65	161.33	219.87	753.37	1,294.81	1,262.73	32.08	40.365					
6,934.75	6,901.42	6,919.24	6,907.69	26.04	20.77	161.38	220.03	753.23	1,298.63	1,266.38	32.25	40.267					
7,000.00	6,966.26	6,983.91	6,972.35	26.30	20.97	161.47	220.97	752.90	1,305.24	1,272.68	32.56	40.084					
7,100.00	7,065.85	7,082.12	7,070.55	26.68	21.28	161.56	222.61	752.49	1,313.42	1,280.39	33.03	39.760					
7,200.00	7,165.65	7,178.20	7,166.61	27.05	21.57	161.60	224.21	752.22	1,319.28	1,285.78	33.50	39.382					
7,300.00	7,265.57	7,276.95	7,265.35	27.41	21.88	161.61	225.58	752.26	1,322.95	1,288.98	33.97	38.944					
7,393.44	7,359.00	7,369.77	7,358.17	27.72	22.18	86.98	226.66	752.27	1,324.10	1,289.69	34.41	38.482					
7,400.00	7,365.56	7,376.19	7,364.59	27.74	22.20	86.98	226.72	752.27	1,324.11	1,289.67	34.44	38.448					
7,500.00	7,465.56	7,471.88	7,460.28	28.08	22.51	86.95	227.46	752.50	1,324.39	1,289.49	34.90	37.950					
7,600.00	7,565.56	7,569.61	7,558.01	28.41	22.83	86.94	227.84	753.06	1,324.98	1,289.61	35.37	37.462					
7,700.00	7,665.56	7,665.58	7,653.97	28.74	23.15	86.93	228.04	753.78	1,325.74	1,289.90	35.84	36.994					
7,800.00	7,765.56	7,759.44	7,747.82	29.07	23.47	86.93	228.17	754.86	1,326.90	1,290.60	36.30	36.554					
7,900.00	7,865.56	7,851.08	7,839.44	29.41	23.78	86.91	228.52	756.40	1,328.60	1,291.85	36.76	36.147					
8,000.00	7,965.56	7,946.50	7,934.85	29.74	24.11	86.90	228.91	758.54	1,330.86	1,293.64	37.22	35.753					
8,100.00	8,065.56	8,045.10	8,033.41	30.08	24.44	86.88	229.45	760.92	1,333.30	1,295.60	37.70	35.363					
8,200.00	8,165.56	8,143.98	8,132.26	30.41	24.78	86.85	230.44	763.36	1,335.82	1,297.64	38.18	34.986					
8,300.00	8,265.56	8,240.30	8,228.53	30.75	25.10	86.80	231.79	765.87	1,338.50	1,299.85	38.65	34.630					
8,400.00	8,365.56	8,341.18	8,329.36	31.09	25.44	86.72	233.66	768.62	1,341.33	1,302.19	39.14	34.273					
8,500.00	8,465.56	8,445.84	8,433.97	31.42	25.79	86.64	235.69	771.23	1,343.93	1,304.30	39.63	33.908					
8,600.00	8,565.56	8,552.34	8,540.43	31.76	26.15	86.56	237.76	773.46	1,346.14	1,306.00	40.14	33.538					
8,700.00	8,665.56	8,665.57	8,653.64	32.10	26.53	86.51	239.01	775.00	1,347.56	1,306.90	40.66	33.139					
8,800.00	8,765.56	8,772.40	8,760.47	32.44	26.90	86.54	238.38	775.69	1,348.17	1,306.99	41.17	32.743					
8,900.00	8,865.56	8,871.60	8,859.65	32.78	27.25	86.59	237.21	776.20	1,348.61	1,306.94	41.66	32.369					
9,000.00	8,965.56	8,969.21	8,957.24	33.12	27.59	86.66	235.53	776.89	1,349.21	1,307.06	42.15	32.011					
9,100.00	9,065.56	9,066.55	9,054.57	33.45	27.93	86.74	233.70	777.75	1,349.98	1,307.35	42.63	31.664					
9,200.00	9,165.56	9,162.23	9,150.23	33.79	28.27	86.81	232.15	778.81	1,351.00	1,307.89	43.11	31.336					
9,300.00	9,265.56	9,258.36	9,246.35	34.14	28.61	86.84	231.53	780.16	1,352.37	1,308.77	43.59	31.022					
9,400.00	9,365.56	9,371.48	9,359.46	34.48	29.00	86.85	231.42	781.53	1,353.59	1,309.47	44.13	30.675					
9,500.00	9,465.56	9,473.87	9,461.84	34.82	29.36	86.86	231.17	781.87	1,353.92	1,309.29	44.63	30.339					
9,600.00	9,565.56	9,563.11	9,551.08	35.16	29.66	86.84	231.62	782.48	1,354.62	1,309.54	45.08	30.048					
9,700.00	9,665.56	9,685.65	9,673.62	35.50	30.07	86.81	232.47	783.02	1,355.14	1,309.51	45.63	29.700					
9,800.00	9,765.56	9,782.88	9,770.83	35.84	30.40	86.87	231.01	782.68	1,354.71	1,308.60	46.11	29.382					
9,828.48	9,794.04	9,807.00	9,794.94	35.94	30.48	86.89	230.48	782.67	1,354.67	1,308.43	46.24	29.299					

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 804H
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 804H	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 705H - OH - OH		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				
9,900.00	9,865.56	9,871.34	9,859.28	36.19	30.71	86.94	229.25	783.00	1,354.94	1,308.38	46.57	29.096				
10,000.00	9,965.56	9,993.40	9,981.30	36.53	31.13	87.07	226.33	782.55	1,354.40	1,307.28	47.12	28.742				
10,100.00	10,065.56	10,090.06	10,077.91	36.87	31.46	87.18	223.57	781.61	1,353.30	1,305.70	47.61	28.427				
10,200.00	10,165.56	10,182.77	10,170.59	37.21	31.79	87.28	221.22	781.28	1,352.81	1,304.73	48.08	28.137				
10,281.09	10,246.65	10,259.75	10,247.55	37.49	32.06	87.36	219.25	781.19	1,352.63	1,304.16	48.47	27.908				
10,300.00	10,265.56	10,276.07	10,263.86	37.56	32.11	87.38	218.85	781.23	1,352.64	1,304.09	48.55	27.858				
10,400.00	10,365.56	10,364.91	10,352.67	37.90	32.43	87.46	216.91	781.91	1,353.31	1,304.29	49.02	27.609				
10,500.00	10,465.56	10,460.06	10,447.79	38.25	32.77	87.56	214.67	783.19	1,354.54	1,305.05	49.50	27.365				
10,600.00	10,565.56	10,559.43	10,547.10	38.59	33.12	87.68	211.88	784.73	1,355.98	1,305.99	49.99	27.122				
10,700.00	10,665.56	10,737.16	10,724.73	38.94	33.74	87.87	207.37	783.21	1,355.40	1,304.72	50.68	26.743				
10,800.00	10,765.56	10,834.32	10,821.79	39.28	34.06	87.94	205.52	779.09	1,351.10	1,299.94	51.16	26.407				
10,900.00	10,865.56	10,920.75	10,908.12	39.63	34.35	88.04	203.12	776.02	1,347.46	1,295.83	51.63	26.101				
11,000.00	10,965.56	10,995.00	10,982.31	39.97	34.61	88.14	200.68	774.28	1,345.08	1,293.02	52.06	25.839				
11,100.00	11,065.56	11,089.00	11,076.25	40.32	34.94	88.28	197.34	773.42	1,344.06	1,291.53	52.54	25.583				
11,125.94	11,091.50	11,105.16	11,092.40	40.41	34.99	88.31	196.75	773.42	1,344.01	1,291.37	52.64	25.533				
11,200.00	11,165.56	11,167.86	11,155.05	40.66	35.22	88.40	194.45	773.75	1,344.32	1,291.35	52.97	25.377				
11,300.00	11,265.56	11,262.75	11,249.88	41.01	35.56	88.55	191.07	774.90	1,345.44	1,291.98	53.46	25.169				
11,400.00	11,365.56	11,356.09	11,343.15	41.36	35.89	88.69	187.89	776.39	1,346.95	1,293.01	53.94	24.974				
11,500.00	11,465.56	11,475.19	11,461.44	41.70	36.33	89.20	175.76	777.50	1,347.64	1,293.14	54.50	24.727				
11,600.00	11,565.56	11,547.73	11,531.44	42.05	36.62	90.00	156.94	778.54	1,349.00	1,294.08	54.92	24.562				
11,700.00	11,665.56	11,619.20	11,597.56	42.40	36.92	91.15	129.97	780.86	1,352.89	1,297.57	55.32	24.455				
11,800.00	11,765.56	11,694.42	11,663.39	42.74	37.25	92.67	93.75	783.84	1,359.23	1,303.51	55.72	24.396				
11,860.48	11,826.04	11,773.21	11,727.84	42.95	37.61	94.57	48.65	785.83	1,363.76	1,307.65	56.10	24.307				
11,900.00	11,865.53	11,793.63	11,743.38	43.08	37.70	-84.02	35.41	785.99	1,366.85	1,310.64	56.20	24.321				
11,950.00	11,915.20	11,820.64	11,763.71	43.24	37.83	-82.94	17.64	786.40	1,371.27	1,314.96	56.31	24.352				
12,000.00	11,964.19	11,862.00	11,794.33	43.39	38.03	-81.60	-10.15	787.46	1,376.22	1,319.73	56.48	24.365				
12,050.00	12,012.13	11,862.00	11,794.33	43.53	38.03	-81.09	-10.15	787.46	1,381.38	1,324.97	56.41	24.490				
12,100.00	12,058.65	11,907.69	11,826.97	43.66	38.26	-79.82	-42.07	789.11	1,386.49	1,329.89	56.60	24.497				
12,150.00	12,103.40	11,937.76	11,847.52	43.78	38.42	-78.88	-63.98	790.39	1,391.75	1,335.07	56.68	24.553				
12,200.00	12,146.04	11,968.53	11,867.70	43.90	38.58	-78.01	-87.16	791.85	1,396.93	1,340.16	56.77	24.606				
12,250.00	12,186.24	12,005.00	11,889.55	44.00	38.77	-77.12	-116.30	793.44	1,401.92	1,345.03	56.89	24.641				
12,300.00	12,223.71	12,073.60	11,920.85	44.09	39.15	-75.74	-177.14	793.30	1,405.94	1,348.76	57.19	24.585				
12,350.00	12,258.14	12,137.85	11,939.75	44.17	39.50	-74.33	-238.39	789.24	1,408.42	1,351.01	57.41	24.535				
12,400.00	12,289.29	12,171.48	11,948.44	44.24	39.69	-73.63	-270.76	786.61	1,409.85	1,352.38	57.48	24.529				
12,450.00	12,316.92	12,199.48	11,953.90	44.30	39.84	-73.09	-298.12	784.29	1,410.90	1,353.38	57.52	24.529				
12,500.00	12,340.80	12,242.00	11,958.92	44.36	40.08	-72.39	-340.17	780.56	1,411.67	1,354.05	57.63	24.497				
12,507.48	12,344.04	12,242.00	11,958.92	44.37	40.08	-72.39	-340.17	780.56	1,411.67	1,354.05	57.62	24.501				
12,550.00	12,360.77	12,242.00	11,958.92	44.43	40.08	-72.38	-340.17	780.56	1,411.83	1,354.26	57.57	24.523				
12,600.00	12,376.67	12,242.00	11,958.92	44.50	40.08	-72.32	-340.17	780.56	1,412.44	1,354.90	57.54	24.549				
12,650.00	12,388.38	12,287.27	11,961.33	44.59	40.35	-71.93	-385.26	777.43	1,411.59	1,353.88	57.71	24.459				
12,700.00	12,395.81	12,306.16	11,961.83	44.69	40.46	-71.87	-404.12	776.70	1,411.16	1,353.35	57.81	24.410				
12,750.00	12,398.90	12,336.00	11,962.04	44.81	40.64	-71.89	-433.96	776.22	1,410.58	1,352.60	57.98	24.328				
12,760.48	12,399.00	12,336.00	11,962.04	44.83	40.64	-71.91	-433.96	776.22	1,410.34	1,352.34	58.00	24.317				
12,791.84	12,399.00	12,336.00	11,962.04	44.91	40.64	-71.91	-433.96	776.22	1,409.99	1,351.94	58.05	24.291				
12,800.00	12,399.00	12,336.00	11,962.04	44.94	40.64	-71.91	-433.96	776.22	1,410.01	1,351.95	58.06	24.286				
12,900.00	12,399.00	12,396.35	11,962.53	45.25	41.03	-71.94	-494.28	777.76	1,411.54	1,353.03	58.51	24.125				
13,000.00	12,399.00	12,497.23	11,964.52	45.62	41.72	-72.07	-594.95	783.41	1,415.32	1,356.09	59.23	23.897				
13,100.00	12,399.00	12,682.99	11,963.81	46.05	43.12	-72.06	-780.64	786.42	1,416.39	1,355.93	60.46	23.429				
13,200.00	12,399.00	12,755.17	11,965.02	46.53	43.72	-72.08	-852.79	785.13	1,413.62	1,352.46	61.16	23.112				
13,218.47	12,399.00	12,762.90	11,965.27	46.63	43.78	-72.09	-860.52	785.26	1,413.55	1,352.28	61.27	23.071				
13,300.00	12,399.00	12,809.00	11,967.32	47.07	44.17	-72.19	-906.52	787.47	1,415.04	1,353.22	61.82	22.889				
13,400.00	12,399.00	13,012.93	11,973.27	47.65	46.03	-72.47	-1,110.11	793.28	1,418.03	1,354.46	63.56	22.309				

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 804H
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 804H	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		
13,500.00	12,399.00	13,143.19	11,978.30	48.29	47.29	-72.56	-1,240.03	785.99	1,410.10	1,345.23	64.87	21.738		
13,600.00	12,399.00	13,205.58	11,983.02	48.97	47.92	-72.72	-1,302.22	784.44	1,404.50	1,338.71	65.79	21.348		
13,700.00	12,399.00	13,280.00	11,987.55	49.70	48.69	-72.88	-1,376.50	784.40	1,401.55	1,334.72	66.84	20.970		
13,759.15	12,399.00	13,304.62	11,988.74	50.16	48.96	-72.93	-1,401.09	784.83	1,400.97	1,333.65	67.31	20.813		
13,800.00	12,399.00	13,327.74	11,989.89	50.47	49.20	-72.98	-1,424.17	785.57	1,401.23	1,333.54	67.69	20.701		
13,900.00	12,399.00	13,389.41	11,993.17	51.29	49.87	-73.15	-1,485.65	789.04	1,404.03	1,335.35	68.68	20.443		
14,000.00	12,399.00	13,566.19	12,004.41	52.14	51.86	-73.69	-1,661.70	799.63	1,408.29	1,337.47	70.82	19.884		
14,100.00	12,399.00	13,671.77	12,006.40	53.03	53.06	-73.75	-1,767.24	799.53	1,406.72	1,334.45	72.28	19.463		
14,200.00	12,399.00	13,765.59	12,005.87	53.95	54.16	-73.71	-1,861.06	798.68	1,405.05	1,331.42	73.64	19.081		
14,300.00	12,399.00	13,849.24	12,004.60	54.91	55.15	-73.65	-1,944.70	798.41	1,404.23	1,329.29	74.94	18.739		
14,400.00	12,399.00	13,954.20	12,002.23	55.90	56.42	-73.55	-2,049.63	798.65	1,404.15	1,327.69	76.45	18.366		
14,500.00	12,399.00	14,052.05	11,998.71	56.93	57.63	-73.39	-2,147.42	797.99	1,403.57	1,325.65	77.93	18.012		
14,572.95	12,399.00	14,119.64	11,995.96	57.69	58.48	-73.27	-2,214.95	797.70	1,403.43	1,324.44	78.98	17.769		
14,600.00	12,399.00	14,144.59	11,995.19	57.98	58.79	-73.24	-2,239.89	797.73	1,403.45	1,324.07	79.38	17.681		
14,700.00	12,399.00	14,257.46	11,993.24	59.06	60.23	-73.15	-2,352.74	798.05	1,403.28	1,322.20	81.08	17.308		
14,800.00	12,399.00	14,372.84	11,993.99	60.16	61.72	-73.17	-2,468.12	797.88	1,402.01	1,319.14	82.86	16.919		
14,900.00	12,399.00	14,468.34	11,994.90	61.29	62.97	-73.18	-2,563.60	796.83	1,399.75	1,315.27	84.49	16.568		
14,950.72	12,399.00	14,497.49	11,995.55	61.87	63.36	-73.20	-2,592.75	797.08	1,399.36	1,314.23	85.13	16.438		
15,000.00	12,399.00	14,539.00	11,997.12	62.44	63.91	-73.28	-2,634.20	798.45	1,399.84	1,313.94	85.91	16.295		
15,100.00	12,399.00	14,593.81	12,000.34	63.61	64.65	-73.44	-2,688.82	801.66	1,402.47	1,315.30	87.17	16.089		
15,200.00	12,399.00	14,765.88	12,010.78	64.81	67.00	-73.90	-2,860.31	808.64	1,403.70	1,313.82	89.88	15.617		
15,256.09	12,399.00	14,805.34	12,012.52	65.49	67.54	-73.98	-2,899.72	809.24	1,403.30	1,312.58	90.72	15.468		
15,300.00	12,399.00	14,837.48	12,014.08	66.02	67.98	-74.04	-2,931.81	810.12	1,403.44	1,312.05	91.39	15.356		
15,400.00	12,399.00	14,916.00	12,018.16	67.26	69.07	-74.23	-3,010.16	813.34	1,405.00	1,312.00	93.00	15.107		
15,500.00	12,399.00	15,074.28	12,023.22	68.51	71.28	-74.44	-3,168.31	815.83	1,404.41	1,308.87	95.54	14.700		
15,600.00	12,399.00	15,194.43	12,022.37	69.77	72.96	-74.37	-3,288.42	813.60	1,401.87	1,304.32	97.54	14.372		
15,700.00	12,399.00	15,278.34	12,021.18	71.06	74.14	-74.29	-3,372.29	811.66	1,399.07	1,299.87	99.20	14.104		
15,800.00	12,399.00	15,429.55	12,021.17	72.35	76.28	-74.21	-3,523.34	805.79	1,394.02	1,292.52	101.51	13.733		
15,900.00	12,399.00	15,503.39	12,023.19	73.67	77.33	-74.25	-3,597.10	803.32	1,389.11	1,285.95	103.16	13.465		
16,000.00	12,399.00	15,578.00	12,026.52	74.99	78.41	-74.37	-3,671.64	802.71	1,386.13	1,281.28	104.85	13.220		
16,100.00	12,399.00	15,681.62	12,030.88	76.33	79.91	-74.53	-3,775.16	802.58	1,383.92	1,277.05	106.87	12.950		
16,200.00	12,399.00	15,767.00	12,032.62	77.68	81.15	-74.58	-3,860.52	801.96	1,381.78	1,273.13	108.65	12.717		
16,300.00	12,399.00	15,861.00	12,036.80	79.04	82.53	-74.75	-3,954.40	802.94	1,380.65	1,270.06	110.59	12.484		
16,400.00	12,399.00	15,956.00	12,044.33	80.41	83.94	-75.06	-4,049.08	804.68	1,379.42	1,266.79	112.62	12.248		
16,500.00	12,399.00	16,050.00	12,052.04	81.80	85.33	-75.39	-4,142.71	807.46	1,379.22	1,264.56	114.66	12.028		
16,500.71	12,399.00	16,050.00	12,052.04	81.81	85.33	-75.39	-4,142.71	807.46	1,379.22	1,264.55	114.67	12.028		
16,600.00	12,399.00	16,102.72	12,056.99	83.19	86.12	-75.62	-4,195.10	810.69	1,381.40	1,265.28	116.12	11.897		
16,700.00	12,399.00	16,219.96	12,069.84	84.59	87.89	-76.20	-4,311.36	818.44	1,384.21	1,265.61	118.60	11.671		
16,800.00	12,399.00	16,356.48	12,085.02	86.00	89.94	-76.85	-4,446.92	823.72	1,384.16	1,262.81	121.36	11.406		
16,900.00	12,399.00	16,479.39	12,096.76	87.42	91.80	-77.33	-4,569.24	825.98	1,382.82	1,258.98	123.84	11.166		
17,000.00	12,399.00	16,641.39	12,101.81	88.85	94.23	-77.49	-4,730.99	822.11	1,378.99	1,252.48	126.51	10.900		
17,100.00	12,399.00	16,763.06	12,101.26	90.28	96.04	-77.38	-4,852.40	814.11	1,371.69	1,243.05	128.64	10.663		
17,200.00	12,399.00	16,845.88	12,103.55	91.72	97.28	-77.42	-4,935.00	808.65	1,363.78	1,233.21	130.58	10.444		
17,300.00	12,399.00	16,911.93	12,107.34	93.17	98.28	-77.55	-5,000.90	806.49	1,358.31	1,225.91	132.40	10.259		
17,400.00	12,399.00	17,000.38	12,113.94	94.63	99.63	-77.80	-5,089.09	805.29	1,354.41	1,219.95	134.47	10.072		
17,500.00	12,399.00	17,092.46	12,122.40	96.09	101.04	-78.14	-5,180.79	805.11	1,351.32	1,214.71	136.61	9.892		
17,600.00	12,399.00	17,231.74	12,136.98	97.56	103.17	-78.72	-5,319.27	802.64	1,346.29	1,207.00	139.29	9.665		
17,700.00	12,399.00	17,331.58	12,149.94	99.03	104.70	-79.24	-5,418.23	800.40	1,340.59	1,199.00	141.60	9.468		
17,800.00	12,399.00	17,425.42	12,164.22	100.51	106.14	-79.82	-5,510.97	798.75	1,335.08	1,191.21	143.88	9.279		
17,900.00	12,399.00	17,512.51	12,178.32	102.00	107.48	-80.40	-5,596.91	797.97	1,330.41	1,184.31	146.10	9.106		
18,000.00	12,399.00	17,592.32	12,189.17	103.48	108.71	-80.86	-5,675.97	797.76	1,326.96	1,178.78	148.19	8.955		
18,100.00	12,399.00	17,655.00	12,196.45	104.98	109.69	-81.17	-5,738.22	798.49	1,325.51	1,175.55	149.96	8.839		

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 804H
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 804H	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		
18,114.20	12,399.00	17,673.26	12,198.42	105.19	109.97	-81.26	-5,756.36	798.91	1,325.44	1,175.08	150.35	8.816		
18,200.00	12,399.00	17,728.90	12,204.43	106.48	110.84	-81.52	-5,811.64	801.01	1,326.42	1,174.59	151.83	8.736		
18,300.00	12,399.00	17,815.89	12,213.82	107.98	112.20	-81.95	-5,897.97	805.95	1,329.49	1,175.58	153.91	8.638		
18,400.00	12,399.00	17,923.83	12,224.07	109.49	113.89	-82.42	-6,005.26	811.84	1,332.65	1,176.31	156.35	8.524		
18,500.00	12,399.00	18,023.97	12,231.49	111.00	115.46	-82.75	-6,105.01	816.52	1,335.36	1,176.74	158.61	8.419		
18,600.00	12,399.00	18,093.23	12,237.30	112.52	116.55	-83.02	-6,173.91	820.56	1,339.18	1,178.88	160.31	8.354		
18,700.00	12,399.00	18,201.93	12,245.22	114.04	118.26	-83.39	-6,282.02	828.59	1,344.76	1,182.00	162.76	8.262		
18,800.00	12,399.00	18,371.26	12,253.59	115.56	120.92	-83.76	-6,451.05	833.23	1,345.45	1,179.32	166.14	8.098		
18,900.00	12,399.00	18,468.89	12,258.36	117.09	122.45	-83.96	-6,548.55	834.08	1,344.81	1,176.47	168.34	7.988		
19,000.00	12,399.00	18,577.49	12,260.49	118.62	124.15	-84.05	-6,657.13	834.67	1,344.17	1,173.51	170.66	7.876		
19,100.00	12,399.00	18,664.61	12,260.84	120.15	125.52	-84.06	-6,744.25	834.81	1,343.33	1,170.65	172.68	7.779		
19,112.83	12,399.00	18,675.04	12,260.94	120.35	125.68	-84.06	-6,754.68	834.92	1,343.32	1,170.39	172.93	7.768		
19,200.00	12,399.00	18,757.96	12,262.59	121.69	126.99	-84.13	-6,837.57	836.13	1,343.55	1,168.75	174.80	7.686		
19,300.00	12,399.00	18,844.69	12,266.95	123.22	128.36	-84.32	-6,924.16	838.01	1,344.23	1,167.38	176.85	7.601		
19,400.00	12,399.00	18,944.47	12,276.02	124.77	129.94	-84.72	-7,023.46	841.50	1,345.86	1,166.71	179.15	7.512		
19,500.00	12,399.00	19,054.64	12,285.51	126.31	131.69	-85.13	-7,133.18	844.50	1,346.83	1,165.21	181.62	7.416		
19,600.00	12,399.00	19,146.02	12,291.39	127.86	133.14	-85.38	-7,224.34	846.69	1,347.71	1,163.95	183.76	7.334		
19,700.00	12,399.00	19,278.68	12,293.33	129.41	135.24	-85.46	-7,356.89	848.16	1,347.67	1,161.23	186.45	7.228		
19,789.43	12,399.00	19,353.00	12,290.68	130.80	136.41	-85.35	-7,431.16	848.28	1,347.18	1,158.98	188.20	7.158		
19,800.00	12,399.00	19,353.00	12,290.68	130.96	136.41	-85.35	-7,431.16	848.28	1,347.22	1,158.94	188.28	7.155		
19,900.00	12,399.00	19,434.64	12,287.49	132.52	137.70	-85.22	-7,512.72	849.71	1,348.37	1,158.21	190.17	7.090		
20,000.00	12,399.00	19,549.25	12,279.90	134.07	139.52	-84.90	-7,627.03	852.32	1,350.26	1,157.73	192.53	7.013		
20,100.00	12,399.00	19,671.46	12,268.70	135.63	141.46	-84.42	-7,748.73	852.58	1,350.30	1,155.37	194.92	6.927		
20,200.00	12,399.00	19,771.09	12,261.32	137.20	143.03	-84.11	-7,848.08	852.26	1,349.73	1,152.70	197.03	6.850		
20,300.00	12,399.00	19,870.08	12,255.41	138.76	144.61	-83.85	-7,946.88	852.28	1,349.39	1,150.24	199.15	6.776		
20,400.00	12,399.00	19,965.25	12,255.97	140.32	146.12	-83.88	-8,042.05	852.93	1,349.02	1,147.71	201.32	6.701		
20,402.36	12,399.00	19,967.30	12,255.98	140.36	146.15	-83.88	-8,044.10	852.95	1,349.02	1,147.66	201.36	6.699		
20,500.00	12,399.00	20,054.28	12,255.25	141.89	147.54	-83.85	-8,131.06	854.13	1,349.46	1,146.09	203.37	6.636		
20,600.00	12,399.00	20,145.54	12,253.44	143.46	148.99	-83.77	-8,222.28	855.85	1,350.56	1,145.12	205.43	6.574		
20,700.00	12,399.00	20,224.39	12,251.55	145.03	150.25	-83.70	-8,301.09	857.92	1,352.51	1,145.24	207.27	6.526		
20,800.00	12,399.00	20,297.00	12,251.13	146.61	151.42	-83.70	-8,373.56	862.15	1,357.14	1,148.21	208.94	6.496		
20,900.00	12,399.00	20,370.12	12,252.18	148.18	152.60	-83.77	-8,446.44	868.03	1,363.77	1,153.21	210.56	6.477		
21,000.00	12,399.00	20,534.86	12,256.42	149.76	155.25	-83.98	-8,610.79	878.26	1,368.89	1,154.61	214.27	6.389		
21,100.00	12,399.00	20,689.99	12,256.17	151.34	157.73	-83.97	-8,765.88	879.94	1,368.92	1,151.63	217.29	6.300		
21,200.00	12,399.00	20,779.77	12,253.02	152.92	159.16	-83.84	-8,855.60	879.54	1,367.82	1,148.47	219.35	6.236		
21,300.00	12,399.00	20,895.76	12,248.16	154.50	161.01	-83.62	-8,971.47	878.06	1,365.99	1,144.31	221.68	6.162		
21,400.00	12,399.00	21,006.12	12,243.40	156.08	162.77	-83.41	-9,081.71	876.07	1,363.73	1,139.81	223.92	6.090		
21,500.00	12,399.00	21,100.79	12,239.84	157.66	164.28	-83.24	-9,176.28	873.48	1,360.49	1,134.45	226.04	6.019		
21,600.00	12,399.00	21,185.98	12,238.95	159.25	165.64	-83.20	-9,261.46	872.75	1,358.73	1,130.62	228.10	5.957		
21,700.00	12,399.00	21,320.36	12,239.30	160.84	167.79	-83.20	-9,395.82	871.08	1,356.64	1,126.00	230.65	5.882		
21,800.00	12,399.00	21,425.84	12,235.46	162.42	169.47	-83.01	-9,501.14	867.00	1,352.24	1,119.41	232.83	5.808		
21,900.00	12,399.00	21,508.49	12,231.22	164.01	170.79	-82.81	-9,583.64	864.15	1,348.46	1,113.61	234.85	5.742		
22,000.00	12,399.00	21,594.60	12,225.95	165.60	172.16	-82.57	-9,669.56	862.12	1,345.90	1,109.06	236.84	5.683		
22,100.00	12,399.00	21,679.52	12,220.69	167.19	173.52	-82.34	-9,754.30	860.96	1,344.38	1,105.58	238.79	5.630		
22,176.57	12,399.00	21,743.58	12,218.03	168.41	174.55	-82.22	-9,818.31	860.92	1,344.01	1,103.73	240.29	5.593		
22,200.00	12,399.00	21,763.02	12,217.25	168.79	174.87	-82.19	-9,837.74	861.04	1,344.05	1,103.31	240.74	5.583		
22,300.00	12,399.00	21,842.15	12,214.00	170.38	176.14	-82.05	-9,916.79	862.16	1,345.05	1,102.49	242.57	5.545		
22,400.00	12,399.00	21,919.06	12,210.98	171.98	177.38	-81.94	-9,993.60	864.67	1,347.83	1,103.53	244.29	5.517		
22,500.00	12,399.00	22,004.35	12,207.80	173.57	178.76	-81.82	-10,078.74	868.60	1,351.94	1,105.79	246.15	5.492		
22,600.00	12,399.00	22,091.00	12,203.88	175.17	180.17	-81.68	-10,165.16	873.47	1,357.16	1,109.17	247.99	5.473		
22,700.00	12,399.00	22,180.08	12,198.41	176.77	182.02	-81.48	-10,253.90	879.06	1,363.28	1,113.16	250.13	5.450		
22,800.00	12,399.00	22,230.00	12,194.93	178.37	187.87	-81.36	-10,303.59	882.28	1,370.63	1,116.29	254.34	5.389 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 804H
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 804H	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
LHS Wildcat Fed Com - LHS Wildcat Fed Com 705H - OH - OH												Offset Well Error:	0.00 usft
Survey Program: 133-MWD, 1394-OWSG (Rev2) MWD, 22230-BLIND													
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	
22,900.00	12,399.00	22,230.00	12,194.93	179.97	187.87	-81.36	-10,303.59	882.28	1,384.28	1,131.89	252.39	5.485	
23,000.00	12,399.00	22,230.00	12,194.93	181.57	187.87	-81.36	-10,303.59	882.28	1,404.93	1,155.81	249.12	5.640	
23,100.00	12,399.00	22,230.00	12,194.93	183.17	187.87	-81.36	-10,303.59	882.28	1,432.28	1,187.54	244.73	5.852	
23,200.00	12,399.00	22,230.00	12,194.93	184.77	187.87	-81.36	-10,303.59	882.28	1,465.95	1,226.49	239.46	6.122	
23,300.00	12,399.00	22,230.00	12,194.93	186.38	187.87	-81.36	-10,303.59	882.28	1,505.52	1,271.98	233.54	6.446	
23,400.00	12,399.00	22,230.00	12,194.93	187.98	187.87	-81.36	-10,303.59	882.28	1,550.55	1,323.35	227.19	6.825	
23,500.00	12,399.00	22,230.00	12,194.93	189.58	187.87	-81.36	-10,303.59	882.28	1,600.56	1,379.95	220.61	7.255	
23,600.00	12,399.00	22,230.00	12,194.93	191.19	187.87	-81.36	-10,303.59	882.28	1,655.11	1,441.15	213.96	7.736	
23,700.00	12,399.00	22,230.00	12,194.93	192.80	187.87	-81.36	-10,303.59	882.28	1,713.76	1,506.40	207.36	8.265	
23,800.00	12,399.00	22,230.00	12,194.93	194.41	187.87	-81.36	-10,303.59	882.28	1,776.11	1,575.20	200.91	8.841	
23,874.38	12,399.00	22,230.00	12,194.93	195.60	187.87	-81.36	-10,303.59	882.28	1,824.66	1,628.42	196.25	9.298	

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 804H
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 804H	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	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 CC			
2,100.00	2,099.99	2,100.08	2,100.07	7.29	7.29	-96.54	-74.80	-12.97	76.06	65.75	10.31	7.379			
2,200.00	2,199.91	2,200.16	2,200.07	7.64	7.63	-96.52	-74.04	-16.83	76.35	65.55	10.80	7.070			
2,300.00	2,299.69	2,300.24	2,299.93	7.99	7.98	-96.48	-72.77	-23.25	76.82	65.53	11.29	6.803 ES			
2,400.00	2,399.27	2,400.32	2,399.59	8.34	8.34	-96.43	-70.99	-32.24	77.49	65.70	11.79	6.572			
2,458.69	2,457.58	2,459.05	2,457.95	8.55	8.55	-96.39	-69.71	-38.71	77.97	65.88	12.09	6.450			
2,500.00	2,498.60	2,500.39	2,498.96	8.70	8.70	-96.20	-68.70	-43.79	78.32	66.03	12.30	6.369			
2,600.00	2,597.88	2,600.40	2,597.94	9.06	9.06	-94.42	-65.91	-57.88	79.15	66.34	12.81	6.178			
2,700.00	2,697.16	2,700.32	2,696.55	9.43	9.43	-91.47	-62.80	-73.59	80.12	66.78	13.33	6.009			
2,800.00	2,796.44	2,800.23	2,795.16	9.80	9.81	-88.57	-59.68	-89.34	81.30	67.44	13.86	5.865			
2,900.00	2,895.72	2,900.14	2,893.78	10.17	10.19	-85.76	-56.56	-105.09	82.67	68.28	14.39	5.745			
3,000.00	2,995.00	3,000.04	2,992.39	10.54	10.58	-83.05	-53.44	-120.84	84.24	69.32	14.92	5.646			
3,100.00	3,094.28	3,099.95	3,091.00	10.92	10.97	-80.44	-50.33	-136.59	86.00	70.54	15.46	5.564			
3,200.00	3,193.56	3,199.86	3,189.61	11.30	11.37	-77.94	-47.21	-152.33	87.92	71.93	15.99	5.498			
3,300.00	3,292.84	3,299.77	3,288.22	11.68	11.77	-75.56	-44.09	-168.08	90.00	73.48	16.53	5.446			
3,400.00	3,392.12	3,399.68	3,386.83	12.06	12.17	-73.28	-40.97	-183.83	92.24	75.18	17.06	5.406			
3,500.00	3,491.40	3,499.59	3,485.44	12.45	12.57	-71.12	-37.85	-199.58	94.61	77.01	17.60	5.376			
3,600.00	3,590.68	3,599.50	3,584.06	12.83	12.98	-69.06	-34.73	-215.33	97.11	78.98	18.13	5.356			
3,700.00	3,689.96	3,699.41	3,682.67	13.22	13.39	-67.11	-31.61	-231.08	99.73	81.06	18.67	5.343			
3,800.00	3,789.24	3,799.32	3,781.28	13.60	13.80	-65.26	-28.50	-246.83	102.45	83.25	19.20	5.336			
3,900.00	3,888.52	3,899.23	3,879.89	13.99	14.21	-63.51	-25.38	-262.57	105.28	85.55	19.73	5.335			
4,000.00	3,987.80	3,999.14	3,978.50	14.38	14.63	-61.85	-22.26	-278.32	108.21	87.94	20.26	5.340			
4,100.00	4,087.08	4,099.05	4,077.11	14.77	15.04	-60.28	-19.14	-294.07	111.21	90.42	20.80	5.348			
4,200.00	4,186.36	4,198.96	4,175.72	15.16	15.46	-58.80	-16.02	-309.82	114.30	92.98	21.33	5.360			
4,300.00	4,285.64	4,298.87	4,274.33	15.56	15.88	-57.39	-12.90	-325.57	117.46	95.61	21.86	5.374			
4,400.00	4,384.92	4,398.78	4,372.95	15.95	16.30	-56.06	-9.79	-341.32	120.69	98.30	22.39	5.391			
4,500.00	4,484.20	4,498.69	4,471.56	16.34	16.72	-54.79	-6.67	-357.06	123.98	101.06	22.91	5.411			
4,600.00	4,583.48	4,598.60	4,570.17	16.74	17.14	-53.60	-3.55	-372.81	127.32	103.88	23.44	5.432			
4,700.00	4,682.76	4,698.51	4,668.78	17.13	17.57	-52.46	-0.43	-388.56	130.72	106.75	23.97	5.454			
4,800.00	4,782.04	4,798.42	4,767.39	17.53	17.99	-51.39	2.69	-404.31	134.17	109.67	24.50	5.477			
4,900.00	4,881.32	4,898.33	4,866.00	17.92	18.42	-50.36	5.81	-420.06	137.66	112.64	25.02	5.502			
5,000.00	4,980.60	4,998.24	4,964.61	18.32	18.84	-49.39	8.93	-435.81	141.20	115.65	25.55	5.527			

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 804H
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 804H	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	5,079.88	5,098.15	5,063.22	18.71	19.27	-48.47	12.04	-451.56	144.77	118.70	26.07	5.552		
5,200.00	5,179.16	5,198.05	5,161.84	19.11	19.69	-47.59	15.16	-467.30	148.38	121.78	26.60	5.578		
5,300.00	5,278.44	5,297.96	5,260.45	19.51	20.12	-46.75	18.28	-483.05	152.02	124.89	27.13	5.604		
5,400.00	5,377.72	5,397.87	5,359.06	19.90	20.55	-45.95	21.40	-498.80	155.69	128.04	27.65	5.631		
5,500.00	5,477.00	5,497.78	5,457.67	20.30	20.98	-45.19	24.52	-514.55	159.39	131.22	28.18	5.657		
5,600.00	5,576.28	5,597.69	5,556.28	20.70	21.41	-44.46	27.64	-530.30	163.12	134.42	28.70	5.684		
5,700.00	5,675.56	5,697.60	5,654.89	21.10	21.84	-43.77	30.76	-546.05	166.88	137.65	29.22	5.710		
5,800.00	5,774.84	5,797.51	5,753.50	21.50	22.27	-43.10	33.87	-561.79	170.65	140.90	29.75	5.736		
5,900.00	5,874.12	5,897.42	5,852.11	21.90	22.70	-42.47	36.99	-577.54	174.45	144.18	30.27	5.762		
6,000.00	5,973.40	5,997.33	5,950.73	22.30	23.13	-41.86	40.11	-593.29	178.27	147.47	30.80	5.788		
6,100.00	6,072.68	6,097.24	6,049.34	22.70	23.56	-41.28	43.23	-609.04	182.11	150.79	31.32	5.814		
6,200.00	6,171.96	6,197.15	6,147.95	23.10	23.99	-40.72	46.35	-624.79	185.97	154.12	31.85	5.839		
6,300.00	6,271.24	6,297.06	6,246.56	23.50	24.43	-40.19	49.47	-640.54	189.84	157.47	32.37	5.864		
6,400.00	6,370.52	6,396.97	6,345.17	23.90	24.86	-39.67	52.58	-656.28	193.73	160.83	32.90	5.889		
6,500.00	6,469.80	6,496.88	6,443.78	24.30	25.29	-39.18	55.70	-672.03	197.63	164.21	33.42	5.914		
6,600.00	6,569.08	6,596.79	6,542.39	24.70	25.72	-38.70	58.82	-687.78	201.55	167.61	33.95	5.938		
6,700.00	6,668.36	6,696.70	6,641.00	25.10	26.16	-38.25	61.94	-703.53	205.48	171.01	34.47	5.961		
6,800.00	6,767.64	6,796.61	6,739.62	25.50	26.59	-37.81	65.06	-719.28	209.43	174.43	34.99	5.985		
6,900.00	6,866.91	6,901.02	6,842.85	25.90	27.04	-37.55	68.08	-734.55	212.41	176.84	35.57	5.972		
6,934.75	6,901.42	6,937.46	6,878.98	26.04	27.18	-37.56	69.01	-739.23	212.91	177.14	35.77	5.953		
7,000.00	6,966.26	7,005.89	6,946.94	26.30	27.46	-37.62	70.57	-747.10	213.55	177.41	36.14	5.910		
7,100.00	7,065.85	7,110.79	7,051.37	26.68	27.87	-37.70	72.50	-756.85	214.35	177.67	36.68	5.844		
7,200.00	7,165.65	7,215.70	7,156.04	27.05	28.25	-37.76	73.87	-763.78	214.93	177.74	37.19	5.780		
7,300.00	7,265.57	7,320.62	7,260.87	27.41	28.62	-37.79	74.69	-767.90	215.29	177.62	37.67	5.716		
7,393.44	7,359.00	7,418.67	7,358.90	27.72	28.94	-112.39	74.94	-769.18	215.42	177.34	38.09	5.656		
7,400.00	7,365.56	7,425.33	7,365.56	27.74	28.96	-112.39	74.94	-769.18	215.42	177.31	38.12	5.652		
7,500.00	7,465.56	7,525.33	7,465.56	28.08	29.28	-112.39	74.94	-769.18	215.42	176.83	38.59	5.582		
7,600.00	7,565.56	7,625.33	7,565.56	28.41	29.60	-112.39	74.94	-769.18	215.42	176.35	39.07	5.514		
7,700.00	7,665.56	7,725.33	7,665.56	28.74	29.92	-112.39	74.94	-769.18	215.42	175.87	39.55	5.447		
7,800.00	7,765.56	7,825.33	7,765.56	29.07	30.24	-112.39	74.94	-769.18	215.42	175.40	40.03	5.382		
7,900.00	7,865.56	7,925.33	7,865.56	29.41	30.56	-112.39	74.94	-769.18	215.42	174.92	40.51	5.318		
7,900.95	7,866.51	7,926.28	7,866.51	29.41	30.56	-112.39	74.94	-769.18	215.42	174.91	40.51	5.317		
8,000.00	7,965.56	8,018.01	7,958.18	29.74	30.85	-112.95	72.65	-769.16	216.41	175.36	41.05	5.272 SF		
8,100.00	8,065.56	8,100.00	8,039.04	30.08	31.08	-116.09	59.53	-769.03	223.20	181.66	41.54	5.373		
8,200.00	8,165.56	8,182.78	8,117.94	30.41	31.29	-121.60	34.72	-768.78	238.19	196.39	41.81	5.697		
8,300.00	8,265.56	8,250.00	8,178.84	30.75	31.45	-127.19	6.37	-768.50	263.84	222.59	41.26	6.395		
8,400.00	8,365.56	8,317.55	8,236.28	31.09	31.59	-133.20	-29.10	-768.15	301.01	260.63	40.39	7.453		
8,500.00	8,465.56	8,372.20	8,279.45	31.42	31.69	-137.99	-62.59	-767.82	349.27	310.36	38.90	8.978		
8,600.00	8,565.56	8,419.20	8,313.87	31.76	31.77	-141.87	-94.56	-767.50	406.99	369.72	37.27	10.919		
8,700.00	8,665.56	8,450.00	8,334.96	32.10	31.82	-144.25	-117.00	-767.28	472.54	437.24	35.30	13.387		
8,800.00	8,765.56	8,500.00	8,366.54	32.44	31.89	-147.81	-155.75	-766.89	543.87	509.37	34.51	15.761		
8,900.00	8,865.56	8,524.14	8,380.55	32.78	31.92	-149.39	-175.41	-766.70	620.02	586.96	33.06	18.757		
9,000.00	8,965.56	8,550.00	8,394.62	33.12	31.96	-150.97	-197.10	-766.48	699.97	667.97	32.01	21.870		
9,100.00	9,065.56	8,572.71	8,406.16	33.45	31.99	-152.29	-216.66	-766.29	782.91	751.78	31.13	25.146		
9,200.00	9,165.56	8,600.00	8,418.99	33.79	32.03	-153.76	-240.73	-766.05	868.33	837.73	30.59	28.381		
9,300.00	9,265.56	8,600.00	8,418.99	34.14	32.03	-153.76	-240.73	-766.05	955.67	926.08	29.59	32.299		
9,400.00	9,365.56	8,625.61	8,429.97	34.48	32.07	-155.05	-263.86	-765.82	1,044.41	1,015.08	29.33	35.608		
9,500.00	9,465.56	8,650.00	8,439.47	34.82	32.11	-156.19	-286.33	-765.60	1,134.76	1,105.62	29.13	38.949		
9,600.00	9,565.56	8,650.00	8,439.47	35.16	32.11	-156.19	-286.33	-765.60	1,225.93	1,197.32	28.60	42.862		
9,700.00	9,665.56	8,650.00	8,439.47	35.50	32.11	-156.19	-286.33	-765.60	1,318.38	1,290.18	28.20	46.754		
9,800.00	9,765.56	8,673.20	8,447.60	35.84	32.14	-157.21	-308.06	-765.38	1,411.20	1,382.98	28.22	50.006		
9,900.00	9,865.56	8,700.00	8,455.89	36.19	32.19	-158.31	-333.54	-765.13	1,505.29	1,476.97	28.32	53.155		

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 804H
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 804H	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	9,965.56	8,700.00	8,455.89	36.53	32.19	-158.31	-333.54	-765.13	1,599.32	1,571.20	28.12	56.875		
10,100.00	10,065.56	8,700.00	8,455.89	36.87	32.19	-158.31	-333.54	-765.13	1,694.04	1,666.05	27.99	60.534		
10,200.00	10,165.56	8,700.00	8,455.89	37.21	32.19	-158.31	-333.54	-765.13	1,789.33	1,761.42	27.91	64.121		
10,300.00	10,265.56	8,700.00	8,455.89	37.56	32.19	-158.31	-333.54	-765.13	1,885.11	1,857.24	27.87	67.639		
10,400.00	10,365.56	8,700.00	8,455.89	37.90	32.19	-158.31	-333.54	-765.13	1,981.30	1,953.43	27.87	71.079		
10,500.00	10,465.56	8,723.62	8,462.20	38.25	32.23	-159.21	-356.30	-764.90	2,077.24	2,049.13	28.11	73.908		
10,600.00	10,565.56	8,728.80	8,463.46	38.59	32.24	-159.40	-361.32	-764.85	2,173.81	2,145.61	28.20	77.082		
10,700.00	10,665.56	8,750.00	8,468.13	38.94	32.29	-160.14	-382.00	-764.65	2,270.93	2,242.49	28.43	79.864		
10,800.00	10,765.56	8,750.00	8,468.13	39.28	32.29	-160.14	-382.00	-764.65	2,367.82	2,339.30	28.53	83.000		
10,900.00	10,865.56	8,750.00	8,468.13	39.63	32.29	-160.14	-382.00	-764.65	2,464.97	2,436.33	28.64	86.055		
11,000.00	10,965.56	8,750.00	8,468.13	39.97	32.29	-160.14	-382.00	-764.65	2,562.34	2,533.55	28.78	89.030		
11,100.00	11,065.56	8,750.00	8,468.13	40.32	32.29	-160.14	-382.00	-764.65	2,659.90	2,630.96	28.93	91.934		
11,200.00	11,165.56	8,750.00	8,468.13	40.66	32.29	-160.14	-382.00	-764.65	2,757.63	2,728.53	29.10	94.760		
11,300.00	11,265.56	8,750.00	8,468.13	41.01	32.29	-160.14	-382.00	-764.65	2,855.52	2,826.24	29.28	97.510		
11,400.00	11,365.56	8,750.00	8,468.13	41.36	32.29	-160.14	-382.00	-764.65	2,953.56	2,924.08	29.48	100.184		
11,500.00	11,465.56	8,750.00	8,468.13	41.70	32.29	-160.14	-382.00	-764.65	3,051.72	3,022.03	29.69	102.785		
11,600.00	11,565.56	8,750.00	8,468.13	42.05	32.29	-160.14	-382.00	-764.65	3,150.00	3,120.09	29.91	105.313		
11,700.00	11,665.56	8,750.00	8,468.13	42.40	32.29	-160.14	-382.00	-764.65	3,248.38	3,218.24	30.14	107.769		
11,800.00	11,765.56	8,750.00	8,468.13	42.74	32.29	-160.14	-382.00	-764.65	3,346.86	3,316.47	30.38	110.156		
11,860.48	11,826.04	8,772.20	8,472.21	42.95	32.33	-160.88	-403.82	-764.43	3,405.95	3,375.34	30.62	111.234		
11,900.00	11,865.53	8,773.32	8,472.39	43.08	32.34	14.19	-404.92	-764.42	3,444.63	3,413.91	30.72	112.138		
11,950.00	11,915.20	8,775.24	8,472.70	43.24	32.34	10.46	-406.82	-764.40	3,492.67	3,461.83	30.83	113.277		
12,000.00	11,964.19	8,777.70	8,473.08	43.39	32.35	8.29	-409.24	-764.38	3,539.41	3,508.47	30.94	114.403		
12,050.00	12,012.13	8,800.00	8,476.11	43.53	32.40	6.81	-431.34	-764.16	3,584.94	3,553.84	31.10	115.258		
12,100.00	12,058.65	8,800.00	8,476.11	43.66	32.40	5.87	-431.34	-764.16	3,628.08	3,596.91	31.18	116.377		
12,150.00	12,103.40	8,800.00	8,476.11	43.78	32.40	5.18	-431.34	-764.16	3,669.09	3,637.85	31.24	117.460		
12,200.00	12,146.04	8,800.00	8,476.11	43.90	32.40	4.66	-431.34	-764.16	3,707.72	3,676.43	31.29	118.496		
12,250.00	12,186.24	8,800.00	8,476.11	44.00	32.40	4.25	-431.34	-764.16	3,743.77	3,712.43	31.33	119.479		
12,300.00	12,223.71	8,800.00	8,476.11	44.09	32.40	3.93	-431.34	-764.16	3,777.02	3,745.65	31.37	120.384		
12,350.00	12,258.14	8,800.00	8,476.11	44.17	32.40	3.68	-431.34	-764.16	3,807.31	3,775.91	31.41	121.228		
12,400.00	12,289.29	8,800.00	8,476.11	44.24	32.40	3.48	-431.34	-764.16	3,834.49	3,803.05	31.43	121.994		
12,450.00	12,316.92	8,800.00	8,476.11	44.30	32.40	3.32	-431.34	-764.16	3,858.40	3,826.93	31.47	122.621		
12,500.00	12,340.80	8,824.02	8,478.40	44.36	32.46	3.18	-455.25	-763.92	3,878.35	3,846.82	31.54	122.980		
12,550.00	12,360.77	8,850.00	8,479.75	44.43	32.54	3.08	-481.19	-763.66	3,895.47	3,863.85	31.62	123.204		
12,600.00	12,376.67	8,850.00	8,479.75	44.50	32.54	3.01	-481.19	-763.66	3,908.34	3,876.70	31.64	123.528		
12,650.00	12,388.38	8,850.00	8,479.75	44.59	32.54	2.96	-481.19	-763.66	3,917.57	3,885.90	31.67	123.715		
12,700.00	12,395.81	8,850.00	8,479.75	44.69	32.54	2.93	-481.19	-763.66	3,923.11	3,891.41	31.70	123.752		
12,750.00	12,398.90	8,850.00	8,479.75	44.81	32.54	2.92	-481.19	-763.66	3,924.94	3,893.20	31.74	123.641		
12,760.48	12,399.00	8,850.00	8,479.75	44.83	32.54	2.92	-481.19	-763.66	3,924.86	3,893.11	31.75	123.621		
12,800.00	12,399.00	8,866.81	8,480.00	44.94	32.59	2.92	-497.99	-763.49	3,924.31	3,892.49	31.82	123.345		
12,840.55	12,399.00	8,866.81	8,480.00	45.06	32.59	2.92	-497.99	-763.49	3,924.10	3,892.23	31.87	123.141		
12,900.00	12,399.00	8,926.25	8,480.00	45.25	32.79	2.92	-557.43	-762.90	3,924.10	3,892.09	32.02	122.571		
13,000.00	12,399.00	9,026.25	8,480.00	45.62	33.21	2.92	-657.43	-761.91	3,924.10	3,891.81	32.29	121.509		
13,100.00	12,399.00	9,126.25	8,480.00	46.05	33.72	2.92	-757.42	-760.92	3,924.10	3,891.49	32.61	120.334		
13,200.00	12,399.00	9,226.25	8,480.00	46.53	34.31	2.92	-857.42	-759.93	3,924.10	3,891.14	32.96	119.055		
13,300.00	12,399.00	9,326.25	8,480.00	47.07	34.97	2.92	-957.41	-758.93	3,924.10	3,890.76	33.34	117.685		
13,400.00	12,399.00	9,426.25	8,480.00	47.65	35.70	2.92	-1,057.41	-757.94	3,924.10	3,890.34	33.76	116.235		
13,500.00	12,399.00	9,526.25	8,480.00	48.29	36.49	2.92	-1,157.40	-756.95	3,924.10	3,889.89	34.21	114.715		
13,600.00	12,399.00	9,626.25	8,480.00	48.97	37.35	2.92	-1,257.40	-755.95	3,924.10	3,889.42	34.68	113.136		
13,700.00	12,399.00	9,726.25	8,480.00	49.70	38.25	2.92	-1,357.39	-754.96	3,924.10	3,888.91	35.19	111.508		
13,800.00	12,399.00	9,826.25	8,480.00	50.47	39.20	2.92	-1,457.39	-753.97	3,924.10	3,888.38	35.73	109.842		
13,900.00	12,399.00	9,926.25	8,480.00	51.29	40.20	2.92	-1,557.38	-752.98	3,924.10	3,887.82	36.29	108.146		

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 804H
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 804H	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	12,399.00	10,026.25	8,480.00	52.14	41.25	2.92	-1,657.38	-751.98	3,924.10	3,887.23	36.87	106.428		
14,100.00	12,399.00	10,126.25	8,480.00	53.03	42.33	2.92	-1,757.37	-750.99	3,924.10	3,886.62	37.48	104.698		
14,200.00	12,399.00	10,226.25	8,480.00	53.95	43.44	2.92	-1,857.37	-750.00	3,924.10	3,885.99	38.11	102.961		
14,300.00	12,399.00	10,326.25	8,480.00	54.91	44.59	2.92	-1,957.36	-749.00	3,924.10	3,885.33	38.77	101.224		
14,400.00	12,399.00	10,426.25	8,480.00	55.90	45.77	2.92	-2,057.36	-748.01	3,924.10	3,884.66	39.44	99.492		
14,500.00	12,399.00	10,526.25	8,480.00	56.93	46.98	2.92	-2,157.35	-747.02	3,924.10	3,883.97	40.14	97.771		
14,600.00	12,399.00	10,626.25	8,480.00	57.98	48.22	2.92	-2,257.35	-746.02	3,924.10	3,883.25	40.85	96.066		
14,700.00	12,399.00	10,726.25	8,480.00	59.06	49.48	2.92	-2,357.34	-745.03	3,924.10	3,882.52	41.58	94.380		
14,800.00	12,399.00	10,826.25	8,480.00	60.16	50.76	2.92	-2,457.34	-744.04	3,924.10	3,881.78	42.32	92.715		
14,900.00	12,399.00	10,926.25	8,480.00	61.29	52.06	2.92	-2,557.33	-743.05	3,924.10	3,881.02	43.09	91.075		
15,000.00	12,399.00	11,026.25	8,480.00	62.44	53.38	2.92	-2,657.33	-742.05	3,924.10	3,880.24	43.86	89.460		
15,100.00	12,399.00	11,126.25	8,480.00	63.61	54.72	2.92	-2,757.32	-741.06	3,924.10	3,879.45	44.66	87.874		
15,200.00	12,399.00	11,226.25	8,480.00	64.81	56.08	2.92	-2,857.32	-740.07	3,924.10	3,878.64	45.46	86.318		
15,300.00	12,399.00	11,326.25	8,480.00	66.02	57.45	2.92	-2,957.31	-739.07	3,924.10	3,877.82	46.28	84.792		
15,400.00	12,399.00	11,426.25	8,480.00	67.26	58.84	2.92	-3,057.31	-738.08	3,924.10	3,876.99	47.11	83.293		
15,500.00	12,399.00	11,526.25	8,480.00	68.51	60.23	2.92	-3,157.30	-737.09	3,924.10	3,876.15	47.95	81.830		
15,600.00	12,399.00	11,626.25	8,480.00	69.77	61.65	2.92	-3,257.30	-736.10	3,924.10	3,875.29	48.81	80.400		
15,700.00	12,399.00	11,726.25	8,480.00	71.06	63.07	2.92	-3,357.29	-735.10	3,924.10	3,874.43	49.67	79.002		
15,800.00	12,399.00	11,826.25	8,480.00	72.35	64.50	2.92	-3,457.29	-734.11	3,924.10	3,873.56	50.54	77.637		
15,900.00	12,399.00	11,926.25	8,480.00	73.67	65.95	2.92	-3,557.28	-733.12	3,924.10	3,872.68	51.43	76.306		
16,000.00	12,399.00	12,026.25	8,480.00	74.99	67.40	2.92	-3,657.28	-732.12	3,924.10	3,871.79	52.32	75.007		
16,100.00	12,399.00	12,126.25	8,480.00	76.33	68.86	2.92	-3,757.27	-731.13	3,924.10	3,870.89	53.22	73.739		
16,200.00	12,399.00	12,226.25	8,480.00	77.68	70.33	2.92	-3,857.27	-730.14	3,924.10	3,869.98	54.12	72.504		
16,300.00	12,399.00	12,326.25	8,480.00	79.04	71.81	2.92	-3,957.26	-729.15	3,924.10	3,869.07	55.04	71.298		
16,400.00	12,399.00	12,426.25	8,480.00	80.41	73.30	2.92	-4,057.26	-728.15	3,924.10	3,868.14	55.96	70.124		
16,500.00	12,399.00	12,526.25	8,480.00	81.80	74.79	2.92	-4,157.25	-727.16	3,924.10	3,867.21	56.89	68.979		
16,600.00	12,399.00	12,626.25	8,480.00	83.19	76.29	2.92	-4,257.25	-726.17	3,924.10	3,866.28	57.82	67.863		
16,700.00	12,399.00	12,726.25	8,480.00	84.59	77.80	2.92	-4,357.24	-725.17	3,924.10	3,865.34	58.77	66.776		
16,800.00	12,399.00	12,826.25	8,480.00	86.00	79.31	2.92	-4,457.24	-724.18	3,924.10	3,864.39	59.71	65.716		
16,900.00	12,399.00	12,926.25	8,480.00	87.42	80.83	2.92	-4,557.23	-723.19	3,924.10	3,863.44	60.67	64.684		
17,000.00	12,399.00	13,026.25	8,480.00	88.85	82.35	2.92	-4,657.23	-722.20	3,924.10	3,862.48	61.62	63.677		
17,100.00	12,399.00	13,126.25	8,480.00	90.28	83.87	2.92	-4,757.23	-721.20	3,924.10	3,861.52	62.59	62.697		
17,200.00	12,399.00	13,226.25	8,480.00	91.72	85.41	2.92	-4,857.22	-720.21	3,924.10	3,860.55	63.56	61.741		
17,300.00	12,399.00	13,326.25	8,480.00	93.17	86.94	2.92	-4,957.22	-719.22	3,924.10	3,859.57	64.53	60.810		
17,400.00	12,399.00	13,426.25	8,480.00	94.63	88.48	2.92	-5,057.21	-718.22	3,924.10	3,858.60	65.51	59.903		
17,500.00	12,399.00	13,526.25	8,480.00	96.09	90.03	2.92	-5,157.21	-717.23	3,924.10	3,857.61	66.49	59.018		
17,600.00	12,399.00	13,626.25	8,480.00	97.56	91.57	2.92	-5,257.20	-716.24	3,924.10	3,856.63	67.48	58.155		
17,700.00	12,399.00	13,726.25	8,480.00	99.03	93.13	2.92	-5,357.20	-715.24	3,924.10	3,855.64	68.47	57.314		
17,800.00	12,399.00	13,826.25	8,480.00	100.51	94.68	2.92	-5,457.19	-714.25	3,924.10	3,854.64	69.46	56.494		
17,900.00	12,399.00	13,926.25	8,480.00	102.00	96.24	2.92	-5,557.19	-713.26	3,924.10	3,853.65	70.46	55.695		
18,000.00	12,399.00	14,026.25	8,480.00	103.48	97.80	2.92	-5,657.18	-712.27	3,924.10	3,852.65	71.46	54.914		
18,100.00	12,399.00	14,126.25	8,480.00	104.98	99.36	2.92	-5,757.18	-711.27	3,924.10	3,851.64	72.46	54.154		
18,200.00	12,399.00	14,226.25	8,480.00	106.48	100.93	2.92	-5,857.17	-710.28	3,924.10	3,850.63	73.47	53.411		
18,300.00	12,399.00	14,326.25	8,480.00	107.98	102.50	2.92	-5,957.17	-709.29	3,924.10	3,849.62	74.48	52.687		
18,400.00	12,399.00	14,426.25	8,480.00	109.49	104.07	2.92	-6,057.16	-708.29	3,924.10	3,848.61	75.49	51.979		
18,500.00	12,399.00	14,526.25	8,480.00	111.00	105.65	2.92	-6,157.16	-707.30	3,924.10	3,847.60	76.51	51.289		
18,600.00	12,399.00	14,626.25	8,480.00	112.52	107.22	2.92	-6,257.15	-706.31	3,924.10	3,846.58	77.53	50.615		
18,700.00	12,399.00	14,726.25	8,480.00	114.04	108.80	2.92	-6,357.15	-705.32	3,924.10	3,845.56	78.55	49.957		
18,800.00	12,399.00	14,826.25	8,480.00	115.56	110.38	2.92	-6,457.14	-704.32	3,924.10	3,844.53	79.57	49.314		
18,900.00	12,399.00	14,926.25	8,480.00	117.09	111.96	2.92	-6,557.14	-703.33	3,924.10	3,843.51	80.60	48.687		
19,000.00	12,399.00	15,026.25	8,480.00	118.62	113.55	2.92	-6,657.13	-702.34	3,924.10	3,842.48	81.63	48.073		
19,100.00	12,399.00	15,126.25	8,480.00	120.15	115.14	2.92	-6,757.13	-701.34	3,924.11	3,841.45	82.66	47.474		

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 804H
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 804H	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	12,399.00	15,226.25	8,480.00	121.69	116.72	2.92	-6,857.12	-700.35	3,924.11	3,840.41	83.69	46.888		
19,300.00	12,399.00	15,326.25	8,480.00	123.22	118.32	2.92	-6,957.12	-699.36	3,924.11	3,839.38	84.73	46.315		
19,400.00	12,399.00	15,426.25	8,480.00	124.77	119.91	2.92	-7,057.11	-698.37	3,924.11	3,838.34	85.76	45.755		
19,500.00	12,399.00	15,526.25	8,480.00	126.31	121.50	2.92	-7,157.11	-697.37	3,924.11	3,837.30	86.80	45.208		
19,600.00	12,399.00	15,626.25	8,480.00	127.86	123.10	2.92	-7,257.10	-696.38	3,924.11	3,836.26	87.84	44.672		
19,700.00	12,399.00	15,726.25	8,480.00	129.41	124.69	2.92	-7,357.10	-695.39	3,924.11	3,835.22	88.88	44.148		
19,800.00	12,399.00	15,826.25	8,480.00	130.96	126.29	2.92	-7,457.09	-694.39	3,924.11	3,834.18	89.93	43.636		
19,900.00	12,399.00	15,926.25	8,480.00	132.52	127.89	2.92	-7,557.09	-693.40	3,924.11	3,833.13	90.97	43.134		
20,000.00	12,399.00	16,026.25	8,480.00	134.07	129.49	2.92	-7,657.08	-692.41	3,924.11	3,832.08	92.02	42.643		
20,100.00	12,399.00	16,126.25	8,480.00	135.63	131.09	2.92	-7,757.08	-691.42	3,924.11	3,831.04	93.07	42.163		
20,200.00	12,399.00	16,226.25	8,480.00	137.20	132.69	2.92	-7,857.07	-690.42	3,924.11	3,829.99	94.12	41.692		
20,300.00	12,399.00	16,326.25	8,480.00	138.76	134.30	2.92	-7,957.07	-689.43	3,924.11	3,828.93	95.17	41.231		
20,400.00	12,399.00	16,426.25	8,480.00	140.32	135.90	2.92	-8,057.06	-688.44	3,924.11	3,827.88	96.23	40.780		
20,500.00	12,399.00	16,526.25	8,480.00	141.89	137.51	2.92	-8,157.06	-687.44	3,924.11	3,826.83	97.28	40.338		
20,600.00	12,399.00	16,626.25	8,480.00	143.46	139.12	2.92	-8,257.05	-686.45	3,924.11	3,825.77	98.34	39.905		
20,700.00	12,399.00	16,726.25	8,480.00	145.03	140.73	2.92	-8,357.05	-685.46	3,924.11	3,824.71	99.39	39.481		
20,800.00	12,399.00	16,826.25	8,480.00	146.61	142.34	2.92	-8,457.04	-684.47	3,924.11	3,823.65	100.45	39.065		
20,900.00	12,399.00	16,926.25	8,480.00	148.18	143.95	2.92	-8,557.04	-683.47	3,924.11	3,822.60	101.51	38.657		
21,000.00	12,399.00	17,026.25	8,480.00	149.76	145.56	2.92	-8,657.03	-682.48	3,924.11	3,821.53	102.57	38.257		
21,100.00	12,399.00	17,126.25	8,480.00	151.34	147.17	2.92	-8,757.03	-681.49	3,924.11	3,820.47	103.63	37.865		
21,200.00	12,399.00	17,226.25	8,480.00	152.92	148.78	2.92	-8,857.02	-680.49	3,924.11	3,819.41	104.70	37.481		
21,300.00	12,399.00	17,326.25	8,480.00	154.50	150.40	2.92	-8,957.02	-679.50	3,924.11	3,818.35	105.76	37.104		
21,400.00	12,399.00	17,426.25	8,480.00	156.08	152.01	2.92	-9,057.01	-678.51	3,924.11	3,817.28	106.82	36.734		
21,500.00	12,399.00	17,526.25	8,480.00	157.66	153.63	2.92	-9,157.01	-677.51	3,924.11	3,816.22	107.89	36.371		
21,600.00	12,399.00	17,626.25	8,480.00	159.25	155.24	2.92	-9,257.00	-676.52	3,924.11	3,815.15	108.96	36.015		
21,700.00	12,399.00	17,726.25	8,480.00	160.84	156.86	2.92	-9,357.00	-675.53	3,924.11	3,814.08	110.03	35.665		
21,800.00	12,399.00	17,826.25	8,480.00	162.42	158.48	2.92	-9,456.99	-674.54	3,924.11	3,813.01	111.09	35.322		
21,900.00	12,399.00	17,926.25	8,480.00	164.01	160.10	2.92	-9,556.99	-673.54	3,924.11	3,811.94	112.16	34.986		
22,000.00	12,399.00	18,026.25	8,480.00	165.60	161.72	2.92	-9,656.98	-672.55	3,924.11	3,810.87	113.23	34.655		
22,100.00	12,399.00	18,126.25	8,480.00	167.19	163.34	2.92	-9,756.98	-671.56	3,924.11	3,809.80	114.31	34.330		
22,200.00	12,399.00	18,226.25	8,480.00	168.79	164.96	2.92	-9,856.97	-670.56	3,924.11	3,808.73	115.38	34.011		
22,300.00	12,399.00	18,326.25	8,480.00	170.38	166.58	2.92	-9,956.97	-669.57	3,924.11	3,807.66	116.45	33.698		
22,400.00	12,399.00	18,426.25	8,480.00	171.98	168.20	2.92	-10,056.96	-668.58	3,924.11	3,806.58	117.52	33.390		
22,500.00	12,399.00	18,526.25	8,480.00	173.57	169.82	2.92	-10,156.96	-667.59	3,924.11	3,805.51	118.60	33.087		
22,600.00	12,399.00	18,626.25	8,480.00	175.17	171.44	2.92	-10,256.95	-666.59	3,924.11	3,804.43	119.67	32.790		
22,700.00	12,399.00	18,726.25	8,480.00	176.77	173.07	2.92	-10,356.95	-665.60	3,924.11	3,803.36	120.75	32.498		
22,800.00	12,399.00	18,826.25	8,480.00	178.37	174.69	2.92	-10,456.94	-664.61	3,924.11	3,802.28	121.83	32.211		
22,900.00	12,399.00	18,926.25	8,480.00	179.97	176.31	2.92	-10,556.94	-663.61	3,924.11	3,801.21	122.90	31.929		
23,000.00	12,399.00	19,026.25	8,480.00	181.57	177.94	2.92	-10,656.93	-662.62	3,924.11	3,800.13	123.98	31.651		
23,100.00	12,399.00	19,126.25	8,480.00	183.17	179.56	2.92	-10,756.93	-661.63	3,924.11	3,799.05	125.06	31.378		
23,200.00	12,399.00	19,226.25	8,480.00	184.77	181.19	2.92	-10,856.92	-660.64	3,924.11	3,797.97	126.14	31.110		
23,300.00	12,399.00	19,326.25	8,480.00	186.38	182.82	2.92	-10,956.92	-659.64	3,924.11	3,796.89	127.22	30.846		
23,400.00	12,399.00	19,426.25	8,480.00	187.98	184.44	2.92	-11,056.91	-658.65	3,924.11	3,795.81	128.30	30.586		
23,500.00	12,399.00	19,526.25	8,480.00	189.58	186.07	2.92	-11,156.91	-657.66	3,924.11	3,794.73	129.38	30.331		
23,600.00	12,399.00	19,626.25	8,480.00	191.19	187.70	2.92	-11,256.90	-656.66	3,924.11	3,793.65	130.46	30.079		
23,700.00	12,399.00	19,726.25	8,480.00	192.80	189.33	2.92	-11,356.90	-655.67	3,924.11	3,792.57	131.54	29.832		
23,800.00	12,399.00	19,826.25	8,480.00	194.41	190.95	2.92	-11,456.89	-654.68	3,924.11	3,791.49	132.62	29.588		
23,807.88	12,399.00	19,834.13	8,480.00	194.53	191.08	2.92	-11,464.78	-654.60	3,924.11	3,791.40	132.71	29.569		
23,874.38	12,399.00	19,899.80	8,480.00	195.60	192.15	2.92	-11,530.44	-653.95	3,924.11	3,790.68	133.43	29.410		

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 804H
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 804H	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	0.00	0.00	0.00	0.00	139.60	-74.35	63.27	97.63					
100.00	100.00	100.00	100.00	0.13	0.13	139.60	-74.35	63.27	97.63	97.45	0.18	550.242		
200.00	200.00	200.00	200.00	0.48	0.48	139.60	-74.35	63.27	97.63	96.95	0.68	142.655		
300.00	300.00	300.00	300.00	0.84	0.84	139.60	-74.35	63.27	97.63	96.44	1.19	81.951		
400.00	400.00	400.00	400.00	1.20	1.20	139.60	-74.35	63.27	97.63	95.93	1.70	57.488		
500.00	500.00	500.00	500.00	1.56	1.56	139.60	-74.35	63.27	97.63	95.43	2.21	44.272		
600.00	600.00	600.00	600.00	1.92	1.92	139.60	-74.35	63.27	97.63	94.92	2.71	35.997		
700.00	700.00	700.00	700.00	2.28	2.28	139.60	-74.35	63.27	97.63	94.41	3.22	30.328		
800.00	800.00	800.00	800.00	2.63	2.63	139.60	-74.35	63.27	97.63	93.91	3.73	26.202		
900.00	900.00	900.00	900.00	2.99	2.99	139.60	-74.35	63.27	97.63	93.40	4.23	23.064		
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	139.60	-74.35	63.27	97.63	92.89	4.74	20.597		
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	139.60	-74.35	63.27	97.63	92.38	5.25	18.607		
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	139.60	-74.35	63.27	97.63	91.88	5.75	16.968		
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	139.60	-74.35	63.27	97.63	91.37	6.26	15.594		
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	139.60	-74.35	63.27	97.63	90.86	6.77	14.426		
1,500.00	1,500.00	1,500.00	1,500.00	5.14	5.14	139.60	-74.35	63.27	97.63	90.36	7.27	13.421		
1,600.00	1,600.00	1,600.00	1,600.00	5.50	5.50	139.60	-74.35	63.27	97.63	89.85	7.78	12.546		
1,700.00	1,700.00	1,700.00	1,700.00	5.86	5.86	139.60	-74.35	63.27	97.63	89.34	8.29	11.779		
1,800.00	1,800.00	1,800.00	1,800.00	6.22	6.22	139.60	-74.35	63.27	97.63	88.84	8.80	11.100		
1,900.00	1,900.00	1,900.00	1,900.00	6.58	6.58	139.60	-74.35	63.27	97.63	88.33	9.30	10.495		
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	139.60	-74.35	63.27	97.63	87.82	9.81	9.953 CC, ES		
2,100.00	2,099.99	2,099.99	2,099.99	7.29	7.29	-146.22	-74.35	63.27	98.72	88.41	10.31	9.573		
2,200.00	2,199.91	2,198.63	2,198.62	7.64	7.64	-148.02	-74.05	64.51	102.63	91.82	10.80	9.501 SF		
2,300.00	2,299.69	2,296.72	2,296.63	7.99	7.98	-151.46	-73.16	68.20	110.26	98.98	11.29	9.771		
2,400.00	2,399.27	2,393.88	2,393.59	8.34	8.32	-155.88	-71.70	74.26	122.14	110.38	11.76	10.384		
2,458.69	2,457.58	2,450.33	2,449.84	8.55	8.52	-158.65	-70.59	78.88	131.29	119.25	12.04	10.905		
2,500.00	2,498.60	2,489.82	2,489.15	8.70	8.66	-160.60	-69.69	82.59	138.53	126.30	12.23	11.326		
2,600.00	2,597.88	2,584.68	2,583.38	9.06	9.00	-164.99	-67.15	93.13	157.89	145.20	12.69	12.444		
2,700.00	2,697.16	2,679.37	2,677.16	9.43	9.34	-168.91	-64.08	105.82	179.77	166.63	13.14	13.678		
2,800.00	2,796.44	2,776.10	2,772.88	9.80	9.70	-172.15	-60.81	119.38	202.82	189.20	13.62	14.891		
2,900.00	2,895.72	2,872.83	2,868.60	10.17	10.06	-174.74	-57.54	132.94	226.36	212.26	14.10	16.053		
3,000.00	2,995.00	2,969.56	2,964.32	10.54	10.42	-176.84	-54.26	146.51	250.26	235.68	14.58	17.160		
3,100.00	3,094.28	3,066.29	3,060.04	10.92	10.79	-178.57	-50.99	160.07	274.42	259.35	15.07	18.211		
3,200.00	3,193.56	3,163.02	3,155.75	11.30	11.16	179.98	-47.71	173.63	298.78	283.23	15.56	19.207		
3,300.00	3,292.84	3,259.75	3,251.47	11.68	11.53	178.74	-44.44	187.20	323.30	307.26	16.05	20.149		
3,400.00	3,392.12	3,356.48	3,347.19	12.06	11.91	177.68	-41.17	200.76	347.94	331.40	16.54	21.042		
3,500.00	3,491.40	3,453.21	3,442.91	12.45	12.28	176.76	-37.89	214.32	372.67	355.65	17.03	21.887		
3,600.00	3,590.68	3,549.94	3,538.63	12.83	12.66	175.96	-34.62	227.89	397.49	379.97	17.52	22.688		
3,700.00	3,689.96	3,646.67	3,634.35	13.22	13.05	175.25	-31.34	241.45	422.37	404.35	18.01	23.447		
3,800.00	3,789.24	3,743.40	3,730.06	13.60	13.43	174.61	-28.07	255.01	447.30	428.79	18.51	24.167		
3,900.00	3,888.52	3,840.13	3,825.78	13.99	13.82	174.05	-24.80	268.58	472.28	453.28	19.00	24.851		
4,000.00	3,987.80	3,936.86	3,921.50	14.38	14.20	173.54	-21.52	282.14	497.30	477.80	19.50	25.501		
4,100.00	4,087.08	4,033.59	4,017.22	14.77	14.59	173.08	-18.25	295.70	522.35	502.35	20.00	26.120		
4,200.00	4,186.36	4,130.32	4,112.94	15.16	14.98	172.66	-14.98	309.27	547.43	526.94	20.50	26.708		
4,300.00	4,285.64	4,227.05	4,208.66	15.56	15.37	172.28	-11.70	322.83	572.54	551.54	21.00	27.270		
4,400.00	4,384.92	4,323.78	4,304.37	15.95	15.76	171.93	-8.43	336.39	597.67	576.17	21.50	27.805		
4,500.00	4,484.20	4,420.51	4,400.09	16.34	16.15	171.61	-5.15	349.96	622.81	600.82	22.00	28.316		
4,600.00	4,583.48	4,517.24	4,495.81	16.74	16.55	171.31	-1.88	363.52	647.98	625.48	22.50	28.804		
4,700.00	4,682.76	4,613.97	4,591.53	17.13	16.94	171.04	1.39	377.08	673.16	650.16	23.00	29.271		
4,800.00	4,782.04	4,710.70	4,687.25	17.53	17.34	170.78	4.67	390.65	698.35	674.85	23.50	29.718		
4,900.00	4,881.32	4,807.43	4,782.96	17.92	17.73	170.55	7.94	404.21	723.55	699.55	24.00	30.147		
5,000.00	4,980.60	4,904.16	4,878.68	18.32	18.13	170.33	11.22	417.77	748.77	724.26	24.50	30.557		

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 804H
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 804H	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	5,079.88	5,000.88	4,974.40	18.71	18.53	170.12	14.49	431.34	773.99	748.99	25.01	30.951		
5,200.00	5,179.16	5,097.61	5,070.12	19.11	18.92	169.93	17.76	444.90	799.23	773.72	25.51	31.330		
5,300.00	5,278.44	5,194.34	5,165.84	19.51	19.32	169.74	21.04	458.46	824.47	798.45	26.01	31.693		
5,400.00	5,377.72	5,291.07	5,261.56	19.90	19.72	169.57	24.31	472.03	849.72	823.20	26.52	32.043		
5,500.00	5,477.00	5,387.80	5,357.27	20.30	20.12	169.41	27.59	485.59	874.97	847.95	27.02	32.379		
5,600.00	5,576.28	5,484.53	5,452.99	20.70	20.52	169.26	30.86	499.15	900.23	872.71	27.53	32.703		
5,700.00	5,675.56	5,581.26	5,548.71	21.10	20.92	169.12	34.13	512.72	925.50	897.47	28.03	33.015		
5,800.00	5,774.84	5,677.99	5,644.43	21.50	21.32	168.98	37.41	526.28	950.77	922.24	28.54	33.316		
5,900.00	5,874.12	5,774.72	5,740.15	21.90	21.72	168.85	40.68	539.84	976.05	947.01	29.04	33.606		
6,000.00	5,973.40	5,871.45	5,835.86	22.30	22.13	168.73	43.95	553.41	1,001.33	971.78	29.55	33.887		
6,100.00	6,072.68	5,968.18	5,931.58	22.70	22.53	168.61	47.23	566.97	1,026.62	996.56	30.06	34.157		
6,200.00	6,171.96	6,064.91	6,027.30	23.10	22.93	168.50	50.50	580.53	1,051.91	1,021.35	30.56	34.418		
6,300.00	6,271.24	6,161.64	6,123.02	23.50	23.33	168.40	53.78	594.09	1,077.20	1,046.13	31.07	34.671		
6,400.00	6,370.52	6,258.37	6,218.74	23.90	23.73	168.30	57.05	607.66	1,102.50	1,070.92	31.58	34.916		
6,500.00	6,469.80	6,355.10	6,314.46	24.30	24.14	168.20	60.32	621.22	1,127.80	1,095.71	32.08	35.152		
6,600.00	6,569.08	6,451.83	6,410.17	24.70	24.54	168.11	63.60	634.78	1,153.10	1,120.51	32.59	35.381		
6,700.00	6,668.36	6,548.56	6,505.89	25.10	24.95	168.02	66.87	648.35	1,178.40	1,145.31	33.10	35.603		
6,800.00	6,767.64	6,645.29	6,601.61	25.50	25.35	167.94	70.15	661.91	1,203.71	1,170.11	33.61	35.818		
6,900.00	6,866.91	6,742.02	6,697.33	25.90	25.75	167.85	73.42	675.47	1,229.02	1,194.91	34.11	36.027		
6,934.75	6,901.42	6,775.64	6,730.59	26.04	25.89	167.83	74.56	680.19	1,237.82	1,203.53	34.29	36.098		
7,000.00	6,966.26	6,838.88	6,793.18	26.30	26.16	167.82	76.70	689.06	1,253.80	1,219.18	34.62	36.214		
7,100.00	7,065.85	6,974.09	6,927.21	26.68	26.71	167.77	80.85	706.25	1,275.06	1,239.73	35.33	36.089		
7,200.00	7,165.65	7,119.75	7,072.22	27.05	27.28	167.73	84.08	719.65	1,290.31	1,254.26	36.05	35.793		
7,300.00	7,265.57	7,267.23	7,219.45	27.41	27.81	167.71	86.03	727.72	1,299.37	1,262.64	36.72	35.382		
7,393.44	7,359.00	7,405.84	7,358.03	27.72	28.28	93.10	86.65	730.27	1,302.18	1,264.87	37.31	34.902		
7,400.00	7,365.56	7,415.59	7,367.78	27.74	28.31	93.10	86.65	730.27	1,302.17	1,264.82	37.35	34.865		
7,406.88	7,372.44	7,425.80	7,377.99	27.77	28.34	93.10	86.64	730.24	1,302.15	1,264.76	37.39	34.826		
7,500.00	7,465.56	7,513.38	7,465.56	28.08	28.63	93.10	86.65	730.27	1,302.18	1,264.35	37.83	34.422		
7,600.00	7,565.56	7,613.38	7,565.56	28.41	28.95	93.10	86.65	730.27	1,302.18	1,263.86	38.32	33.985		
7,700.00	7,665.56	7,713.38	7,665.56	28.74	29.28	93.10	86.65	730.27	1,302.18	1,263.37	38.80	33.558		
7,800.00	7,765.56	7,813.38	7,765.56	29.07	29.61	93.10	86.65	730.27	1,302.18	1,262.89	39.29	33.142		
7,809.10	7,774.66	7,822.48	7,774.66	29.10	29.64	93.10	86.65	730.27	1,302.18	1,262.84	39.34	33.104		
7,900.00	7,865.56	7,911.02	7,863.20	29.41	29.92	93.11	86.42	730.28	1,302.19	1,262.42	39.77	32.742		
8,000.00	7,965.56	8,000.00	7,951.60	29.74	30.19	93.52	77.03	730.37	1,302.90	1,262.69	40.21	32.400		
8,100.00	8,065.56	8,079.01	8,028.05	30.08	30.40	94.38	57.31	730.57	1,304.92	1,264.31	40.61	32.131		
8,200.00	8,165.56	8,150.00	8,093.84	30.41	30.58	95.54	30.77	730.83	1,308.91	1,267.94	40.96	31.952		
8,300.00	8,265.56	8,220.11	8,155.11	30.75	30.73	97.02	-3.22	731.17	1,315.64	1,274.37	41.28	31.873		
8,400.00	8,365.56	8,277.97	8,202.24	31.09	30.85	98.47	-36.73	731.51	1,325.94	1,284.45	41.50	31.953		
8,500.00	8,465.56	8,327.88	8,240.01	31.42	30.94	99.86	-69.34	731.83	1,340.47	1,298.86	41.62	32.211		
8,600.00	8,565.56	8,370.77	8,270.09	31.76	31.01	101.16	-99.89	732.14	1,359.73	1,318.10	41.63	32.661		
8,700.00	8,665.56	8,400.00	8,289.24	32.10	31.06	102.09	-121.97	732.36	1,384.04	1,342.56	41.48	33.366		
8,800.00	8,765.56	8,450.00	8,319.31	32.44	31.14	103.75	-161.89	732.76	1,413.51	1,372.13	41.37	34.164		
8,900.00	8,865.56	8,466.89	8,328.67	32.78	31.16	104.34	-175.96	732.90	1,447.98	1,406.98	41.00	35.318		
9,000.00	8,965.56	8,500.00	8,345.79	33.12	31.22	105.50	-204.29	733.18	1,487.59	1,446.93	40.66	36.584		
9,100.00	9,065.56	8,500.00	8,345.79	33.45	31.22	105.50	-204.29	733.18	1,531.95	1,491.89	40.06	38.241		
9,200.00	9,165.56	8,530.24	8,359.97	33.79	31.27	106.58	-230.99	733.45	1,580.66	1,541.02	39.64	39.878		
9,300.00	9,265.56	8,550.00	8,368.47	34.14	31.30	107.29	-248.83	733.62	1,633.68	1,594.55	39.13	41.753		
9,400.00	9,365.56	8,550.00	8,368.47	34.48	31.30	107.29	-248.83	733.62	1,690.66	1,652.18	38.48	43.935		
9,500.00	9,465.56	8,574.13	8,378.01	34.82	31.34	108.17	-270.99	733.85	1,750.99	1,712.97	38.02	46.060		
9,600.00	9,565.56	8,600.00	8,387.18	35.16	31.39	109.12	-295.17	734.09	1,814.85	1,777.27	37.58	48.295		
9,700.00	9,665.56	8,600.00	8,387.18	35.50	31.39	109.12	-295.17	734.09	1,881.32	1,844.32	37.00	50.852		
9,800.00	9,765.56	8,600.00	8,387.18	35.84	31.39	109.12	-295.17	734.09	1,950.65	1,914.20	36.45	53.519		

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 804H
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 804H	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							
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	
9,900.00	9,865.56	8,600.00	8,387.18	36.19	31.39	109.12	-295.17	734.09	2,022.55	1,986.61	35.94	56.277		
10,000.00	9,965.56	8,622.73	8,394.34	36.53	31.44	109.96	-316.74	734.30	2,096.28	2,060.66	35.62	58.859		
10,100.00	10,065.56	8,630.06	8,396.46	36.87	31.45	110.23	-323.76	734.37	2,172.19	2,136.96	35.23	61.654		
10,200.00	10,165.56	8,650.00	8,401.78	37.21	31.50	110.97	-342.97	734.56	2,250.06	2,215.10	34.96	64.359		
10,300.00	10,265.56	8,650.00	8,401.78	37.56	31.50	110.97	-342.97	734.56	2,329.28	2,294.66	34.61	67.295		
10,400.00	10,365.56	8,650.00	8,401.78	37.90	31.50	110.97	-342.97	734.56	2,410.04	2,375.73	34.31	70.251		
10,500.00	10,465.56	8,650.00	8,401.78	38.25	31.50	110.97	-342.97	734.56	2,492.20	2,458.16	34.04	73.217		
10,600.00	10,565.56	8,650.00	8,401.78	38.59	31.50	110.97	-342.97	734.56	2,575.62	2,541.81	33.81	76.185		
10,700.00	10,665.56	8,650.00	8,401.78	38.94	31.50	110.97	-342.97	734.56	2,660.18	2,626.57	33.61	79.145		
10,800.00	10,765.56	8,650.00	8,401.78	39.28	31.50	110.97	-342.97	734.56	2,745.78	2,712.33	33.45	82.087		
10,900.00	10,865.56	8,672.19	8,406.92	39.63	31.55	111.79	-364.56	734.78	2,831.86	2,798.43	33.42	84.724		
11,000.00	10,965.56	8,676.01	8,407.72	39.97	31.56	111.93	-368.29	734.82	2,919.09	2,885.75	33.34	87.557		
11,100.00	11,065.56	8,700.00	8,412.16	40.32	31.63	112.81	-391.87	735.05	3,007.48	2,974.11	33.37	90.125		
11,200.00	11,165.56	8,700.00	8,412.16	40.66	31.63	112.81	-391.87	735.05	3,096.07	3,062.75	33.32	92.919		
11,300.00	11,265.56	8,700.00	8,412.16	41.01	31.63	112.81	-391.87	735.05	3,185.33	3,152.03	33.29	95.672		
11,400.00	11,365.56	8,700.00	8,412.16	41.36	31.63	112.81	-391.87	735.05	3,275.21	3,241.92	33.29	98.382		
11,500.00	11,465.56	8,700.00	8,412.16	41.70	31.63	112.81	-391.87	735.05	3,365.66	3,332.35	33.31	101.041		
11,600.00	11,565.56	8,700.00	8,412.16	42.05	31.63	112.81	-391.87	735.05	3,456.64	3,423.29	33.35	103.647		
11,700.00	11,665.56	8,700.00	8,412.16	42.40	31.63	112.81	-391.87	735.05	3,548.10	3,514.69	33.41	106.197		
11,800.00	11,765.56	8,700.00	8,412.16	42.74	31.63	112.81	-391.87	735.05	3,640.01	3,606.52	33.49	108.690		
11,860.48	11,826.04	8,700.00	8,412.16	42.95	31.63	112.81	-391.87	735.05	3,695.80	3,662.26	33.55	110.170		
11,900.00	11,865.53	8,700.00	8,412.16	43.08	31.63	-58.47	-391.87	735.05	3,732.11	3,698.53	33.58	111.131		
11,950.00	11,915.20	8,700.00	8,412.16	43.24	31.63	-49.93	-391.87	735.05	3,777.28	3,743.66	33.62	112.340		
12,000.00	11,964.19	8,700.00	8,412.16	43.39	31.63	-43.17	-391.87	735.05	3,821.33	3,787.67	33.66	113.529		
12,050.00	12,012.13	8,700.00	8,412.16	43.53	31.63	-37.87	-391.87	735.05	3,863.96	3,830.27	33.69	114.690		
12,100.00	12,058.65	8,700.00	8,412.16	43.66	31.63	-33.70	-391.87	735.05	3,904.90	3,871.18	33.72	115.816		
12,150.00	12,103.40	8,700.00	8,412.16	43.78	31.63	-30.39	-391.87	735.05	3,943.89	3,910.16	33.74	116.899		
12,200.00	12,146.04	8,700.00	8,412.16	43.90	31.63	-27.75	-391.87	735.05	3,980.70	3,946.95	33.75	117.933		
12,250.00	12,186.24	8,725.36	8,415.79	44.00	31.70	-25.47	-416.96	735.30	4,014.51	3,980.67	33.84	118.641		
12,300.00	12,223.71	8,750.00	8,418.24	44.09	31.78	-23.66	-441.48	735.55	4,046.44	4,012.53	33.91	119.327		
12,350.00	12,258.14	8,750.00	8,418.24	44.17	31.78	-22.30	-441.48	735.55	4,075.00	4,041.09	33.91	120.164		
12,400.00	12,289.29	8,750.00	8,418.24	44.24	31.78	-21.20	-441.48	735.55	4,100.60	4,066.69	33.91	120.918		
12,450.00	12,316.92	8,750.00	8,418.24	44.30	31.78	-20.30	-441.48	735.55	4,123.10	4,089.19	33.91	121.579		
12,500.00	12,340.80	8,750.00	8,418.24	44.36	31.78	-19.59	-441.48	735.55	4,142.39	4,108.47	33.92	122.137		
12,550.00	12,360.77	8,750.00	8,418.24	44.43	31.78	-19.03	-441.48	735.55	4,158.36	4,124.44	33.92	122.585		
12,600.00	12,376.67	8,750.00	8,418.24	44.50	31.78	-18.61	-441.48	735.55	4,170.93	4,137.00	33.93	122.913		
12,650.00	12,388.38	8,770.50	8,419.48	44.59	31.84	-18.31	-461.94	735.75	4,179.64	4,145.65	33.99	122.960		
12,700.00	12,395.81	8,794.85	8,420.00	44.69	31.93	-18.13	-486.28	736.00	4,185.27	4,151.21	34.06	122.880		
12,750.00	12,398.90	8,794.85	8,420.00	44.81	31.93	-18.08	-486.28	736.00	4,186.80	4,152.70	34.09	122.812		
12,760.48	12,399.00	8,794.85	8,420.00	44.83	31.93	-18.09	-486.28	736.00	4,186.67	4,152.57	34.10	122.780		
12,800.00	12,399.00	8,794.85	8,420.00	44.94	31.93	-18.09	-486.28	736.00	4,186.07	4,151.93	34.13	122.637		
12,843.76	12,399.00	8,794.85	8,420.00	45.07	31.93	-18.09	-486.28	736.00	4,185.84	4,151.65	34.19	122.446		
12,900.00	12,399.00	8,851.05	8,420.00	45.25	32.14	-18.09	-542.47	736.56	4,185.84	4,151.50	34.34	121.893		
13,000.00	12,399.00	8,951.05	8,420.00	45.62	32.60	-18.09	-642.47	737.56	4,185.84	4,151.19	34.65	120.797		
13,100.00	12,399.00	9,051.05	8,420.00	46.05	33.13	-18.09	-742.46	738.55	4,185.84	4,150.83	35.01	119.570		
13,200.00	12,399.00	9,151.05	8,420.00	46.53	33.75	-18.09	-842.46	739.55	4,185.84	4,150.44	35.41	118.226		
13,300.00	12,399.00	9,251.05	8,420.00	47.07	34.43	-18.09	-942.45	740.55	4,185.84	4,150.00	35.84	116.778		
13,400.00	12,399.00	9,351.05	8,420.00	47.65	35.18	-18.09	-1,042.45	741.55	4,185.84	4,149.52	36.32	115.239		
13,500.00	12,399.00	9,451.05	8,420.00	48.29	35.99	-18.09	-1,142.44	742.55	4,185.84	4,149.00	36.84	113.622		
13,600.00	12,399.00	9,551.05	8,420.00	48.97	36.85	-18.09	-1,242.44	743.55	4,185.85	4,148.45	37.39	111.941		
13,700.00	12,399.00	9,651.05	8,420.00	49.70	37.77	-18.09	-1,342.43	744.54	4,185.85	4,147.87	37.98	110.208		
13,800.00	12,399.00	9,751.05	8,420.00	50.47	38.74	-18.09	-1,442.43	745.54	4,185.85	4,147.25	38.60	108.434		

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 804H
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 804H	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	12,399.00	9,851.05	8,420.00	51.29	39.75	-18.09	-1,542.42	746.54	4,185.85	4,146.59	39.26	106.629		
14,000.00	12,399.00	9,951.05	8,420.00	52.14	40.80	-18.09	-1,642.42	747.54	4,185.85	4,145.91	39.94	104.805		
14,100.00	12,399.00	10,051.05	8,420.00	53.03	41.89	-18.09	-1,742.41	748.54	4,185.85	4,145.20	40.65	102.970		
14,200.00	12,399.00	10,151.05	8,420.00	53.95	43.02	-18.09	-1,842.41	749.54	4,185.85	4,144.46	41.39	101.131		
14,300.00	12,399.00	10,251.05	8,420.00	54.91	44.18	-18.09	-1,942.40	750.54	4,185.85	4,143.70	42.16	99.296		
14,400.00	12,399.00	10,351.05	8,420.00	55.90	45.37	-18.09	-2,042.40	751.53	4,185.86	4,142.91	42.94	97.472		
14,500.00	12,399.00	10,451.05	8,420.00	56.93	46.58	-18.09	-2,142.39	752.53	4,185.86	4,142.10	43.76	95.662		
14,600.00	12,399.00	10,551.05	8,420.00	57.98	47.83	-18.09	-2,242.39	753.53	4,185.86	4,141.27	44.59	93.873		
14,700.00	12,399.00	10,651.05	8,420.00	59.06	49.10	-18.09	-2,342.38	754.53	4,185.86	4,140.42	45.44	92.109		
14,800.00	12,399.00	10,751.05	8,420.00	60.16	50.39	-18.09	-2,442.38	755.53	4,185.86	4,139.55	46.32	90.376		
14,900.00	12,399.00	10,851.05	8,420.00	61.29	51.70	-18.09	-2,542.37	756.53	4,185.86	4,138.66	47.21	88.673		
15,000.00	12,399.00	10,951.05	8,420.00	62.44	53.02	-18.09	-2,642.37	757.52	4,185.86	4,137.75	48.11	87.002		
15,100.00	12,399.00	11,051.05	8,420.00	63.61	54.37	-18.09	-2,742.36	758.52	4,185.86	4,136.83	49.04	85.363		
15,200.00	12,399.00	11,151.05	8,420.00	64.81	55.73	-18.09	-2,842.36	759.52	4,185.87	4,135.89	49.97	83.760		
15,300.00	12,399.00	11,251.05	8,420.00	66.02	57.11	-18.09	-2,942.35	760.52	4,185.87	4,134.94	50.93	82.191		
15,400.00	12,399.00	11,351.05	8,420.00	67.26	58.51	-18.09	-3,042.35	761.52	4,185.87	4,133.97	51.90	80.658		
15,500.00	12,399.00	11,451.05	8,420.00	68.51	59.91	-18.09	-3,142.34	762.52	4,185.87	4,132.99	52.88	79.162		
15,600.00	12,399.00	11,551.05	8,420.00	69.77	61.33	-18.09	-3,242.34	763.51	4,185.87	4,132.00	53.87	77.702		
15,700.00	12,399.00	11,651.05	8,420.00	71.06	62.76	-18.09	-3,342.33	764.51	4,185.87	4,131.00	54.88	76.279		
15,800.00	12,399.00	11,751.05	8,420.00	72.35	64.20	-18.09	-3,442.33	765.51	4,185.87	4,129.98	55.89	74.894		
15,900.00	12,399.00	11,851.05	8,420.00	73.67	65.65	-18.09	-3,542.32	766.51	4,185.87	4,128.96	56.91	73.547		
16,000.00	12,399.00	11,951.05	8,420.00	74.99	67.11	-18.09	-3,642.32	767.51	4,185.88	4,127.93	57.95	72.235		
16,100.00	12,399.00	12,051.05	8,420.00	76.33	68.57	-18.09	-3,742.31	768.51	4,185.88	4,126.89	58.99	70.957		
16,200.00	12,399.00	12,151.05	8,420.00	77.68	70.05	-18.09	-3,842.31	769.51	4,185.88	4,125.83	60.05	69.712		
16,300.00	12,399.00	12,251.05	8,420.00	79.04	71.53	-18.09	-3,942.30	770.50	4,185.88	4,124.77	61.11	68.501		
16,400.00	12,399.00	12,351.05	8,420.00	80.41	73.02	-18.09	-4,042.30	771.50	4,185.88	4,123.71	62.17	67.324		
16,500.00	12,399.00	12,451.05	8,420.00	81.80	74.52	-18.09	-4,142.29	772.50	4,185.88	4,122.63	63.25	66.181		
16,600.00	12,399.00	12,551.05	8,420.00	83.19	76.03	-18.09	-4,242.29	773.50	4,185.88	4,121.55	64.33	65.068		
16,700.00	12,399.00	12,651.05	8,420.00	84.59	77.54	-18.09	-4,342.28	774.50	4,185.88	4,120.46	65.42	63.985		
16,800.00	12,399.00	12,751.05	8,420.00	86.00	79.05	-18.09	-4,442.28	775.50	4,185.89	4,119.37	66.51	62.932		
16,900.00	12,399.00	12,851.05	8,420.00	87.42	80.57	-18.09	-4,542.27	776.49	4,185.89	4,118.27	67.62	61.907		
17,000.00	12,399.00	12,951.05	8,420.00	88.85	82.10	-18.09	-4,642.27	777.49	4,185.89	4,117.16	68.72	60.909		
17,100.00	12,399.00	13,051.05	8,420.00	90.28	83.63	-18.09	-4,742.26	778.49	4,185.89	4,116.05	69.84	59.938		
17,200.00	12,399.00	13,151.05	8,420.00	91.72	85.16	-18.09	-4,842.26	779.49	4,185.89	4,114.93	70.96	58.993		
17,300.00	12,399.00	13,251.05	8,420.00	93.17	86.70	-18.09	-4,942.25	780.49	4,185.89	4,113.81	72.08	58.073		
17,400.00	12,399.00	13,351.05	8,420.00	94.63	88.25	-18.09	-5,042.25	781.49	4,185.89	4,112.69	73.21	57.178		
17,500.00	12,399.00	13,451.05	8,420.00	96.09	89.79	-18.09	-5,142.24	782.49	4,185.89	4,111.56	74.34	56.309		
17,600.00	12,399.00	13,551.05	8,420.00	97.56	91.34	-18.09	-5,242.24	783.48	4,185.90	4,110.42	75.47	55.462		
17,700.00	12,399.00	13,651.05	8,420.00	99.03	92.90	-18.09	-5,342.23	784.48	4,185.90	4,109.28	76.61	54.637		
17,800.00	12,399.00	13,751.05	8,420.00	100.51	94.46	-18.09	-5,442.23	785.48	4,185.90	4,108.14	77.76	53.834		
17,900.00	12,399.00	13,851.05	8,420.00	102.00	96.02	-18.09	-5,542.22	786.48	4,185.90	4,107.00	78.90	53.052		
18,000.00	12,399.00	13,951.05	8,420.00	103.48	97.58	-18.09	-5,642.22	787.48	4,185.90	4,105.85	80.05	52.289		
18,100.00	12,399.00	14,051.05	8,420.00	104.98	99.15	-18.09	-5,742.21	788.48	4,185.90	4,104.69	81.21	51.546		
18,200.00	12,399.00	14,151.05	8,420.00	106.48	100.72	-18.09	-5,842.21	789.47	4,185.90	4,103.54	82.36	50.822		
18,300.00	12,399.00	14,251.05	8,420.00	107.98	102.29	-18.09	-5,942.20	790.47	4,185.90	4,102.38	83.53	50.115		
18,400.00	12,399.00	14,351.05	8,420.00	109.49	103.86	-18.09	-6,042.20	791.47	4,185.91	4,101.22	84.69	49.427		
18,500.00	12,399.00	14,451.05	8,420.00	111.00	105.44	-18.09	-6,142.19	792.47	4,185.91	4,100.05	85.86	48.755		
18,600.00	12,399.00	14,551.05	8,420.00	112.52	107.02	-18.09	-6,242.19	793.47	4,185.91	4,098.88	87.03	48.100		
18,700.00	12,399.00	14,651.05	8,420.00	114.04	108.60	-18.09	-6,342.18	794.47	4,185.91	4,097.71	88.20	47.460		
18,800.00	12,399.00	14,751.05	8,420.00	115.56	110.18	-18.09	-6,442.18	795.47	4,185.91	4,096.54	89.37	46.837		
18,900.00	12,399.00	14,851.05	8,420.00	117.09	111.77	-18.09	-6,542.17	796.46	4,185.91	4,095.36	90.55	46.229		
19,000.00	12,399.00	14,951.05	8,420.00	118.62	113.36	-18.09	-6,642.17	797.46	4,185.91	4,094.19	91.72	45.636		

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 804H
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 804H	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	12,399.00	15,051.05	8,420.00	120.15	114.94	-18.09	-6,742.16	798.46	4,185.91	4,093.01	92.90	45.057		
19,200.00	12,399.00	15,151.05	8,420.00	121.69	116.54	-18.09	-6,842.16	799.46	4,185.92	4,091.83	94.09	44.490		
19,300.00	12,399.00	15,251.05	8,420.00	123.22	118.13	-18.09	-6,942.15	800.46	4,185.92	4,090.65	95.27	43.937		
19,400.00	12,399.00	15,351.05	8,420.00	124.77	119.72	-18.09	-7,042.15	801.46	4,185.92	4,089.46	96.46	43.397		
19,500.00	12,399.00	15,451.05	8,420.00	126.31	121.32	-18.09	-7,142.14	802.45	4,185.92	4,088.27	97.65	42.868		
19,600.00	12,399.00	15,551.05	8,420.00	127.86	122.91	-18.09	-7,242.14	803.45	4,185.92	4,087.08	98.84	42.352		
19,700.00	12,399.00	15,651.05	8,420.00	129.41	124.51	-18.09	-7,342.13	804.45	4,185.92	4,085.89	100.03	41.847		
19,800.00	12,399.00	15,751.05	8,420.00	130.96	126.11	-18.09	-7,442.13	805.45	4,185.92	4,084.70	101.22	41.353		
19,900.00	12,399.00	15,851.05	8,420.00	132.52	127.71	-18.09	-7,542.12	806.45	4,185.92	4,083.51	102.42	40.872		
20,000.00	12,399.00	15,951.05	8,420.00	134.07	129.31	-18.09	-7,642.12	807.45	4,185.93	4,082.31	103.61	40.400		
20,100.00	12,399.00	16,051.05	8,420.00	135.63	130.92	-18.09	-7,742.11	808.45	4,185.93	4,081.12	104.81	39.939		
20,200.00	12,399.00	16,151.05	8,420.00	137.20	132.52	-18.09	-7,842.11	809.44	4,185.93	4,079.92	106.01	39.487		
20,300.00	12,399.00	16,251.05	8,420.00	138.76	134.13	-18.09	-7,942.10	810.44	4,185.93	4,078.72	107.21	39.045		
20,400.00	12,399.00	16,351.05	8,420.00	140.32	135.74	-18.09	-8,042.10	811.44	4,185.93	4,077.52	108.41	38.611		
20,500.00	12,399.00	16,451.05	8,420.00	141.89	137.34	-18.09	-8,142.09	812.44	4,185.93	4,076.32	109.61	38.188		
20,600.00	12,399.00	16,551.05	8,420.00	143.46	138.95	-18.09	-8,242.09	813.44	4,185.93	4,075.12	110.82	37.773		
20,700.00	12,399.00	16,651.05	8,420.00	145.03	140.56	-18.09	-8,342.08	814.44	4,185.93	4,073.91	112.02	37.367		
20,800.00	12,399.00	16,751.05	8,420.00	146.61	142.17	-18.09	-8,442.08	815.43	4,185.94	4,072.71	113.23	36.969		
20,900.00	12,399.00	16,851.05	8,420.00	148.18	143.79	-18.09	-8,542.07	816.43	4,185.94	4,071.50	114.43	36.580		
21,000.00	12,399.00	16,951.05	8,420.00	149.76	145.40	-18.09	-8,642.07	817.43	4,185.94	4,070.30	115.64	36.198		
21,100.00	12,399.00	17,051.05	8,420.00	151.34	147.01	-18.09	-8,742.06	818.43	4,185.94	4,069.09	116.85	35.823		
21,200.00	12,399.00	17,151.05	8,420.00	152.92	148.63	-18.09	-8,842.06	819.43	4,185.94	4,067.88	118.06	35.456		
21,300.00	12,399.00	17,251.05	8,420.00	154.50	150.24	-18.09	-8,942.05	820.43	4,185.94	4,066.67	119.27	35.095		
21,400.00	12,399.00	17,351.05	8,420.00	156.08	151.86	-18.09	-9,042.05	821.43	4,185.94	4,065.46	120.49	34.742		
21,500.00	12,399.00	17,451.05	8,420.00	157.66	153.47	-18.09	-9,142.04	822.42	4,185.94	4,064.24	121.70	34.396		
21,600.00	12,399.00	17,551.05	8,420.00	159.25	155.09	-18.09	-9,242.04	823.42	4,185.94	4,063.03	122.91	34.056		
21,700.00	12,399.00	17,651.05	8,420.00	160.84	156.71	-18.09	-9,342.03	824.42	4,185.95	4,061.82	124.13	33.724		
21,800.00	12,399.00	17,751.05	8,420.00	162.42	158.33	-18.09	-9,442.03	825.42	4,185.95	4,060.61	125.34	33.397		
21,900.00	12,399.00	17,851.05	8,420.00	164.01	159.95	-18.09	-9,542.02	826.42	4,185.95	4,059.39	126.55	33.076		
22,000.00	12,399.00	17,951.05	8,420.00	165.60	161.57	-18.09	-9,642.02	827.42	4,185.95	4,058.18	127.77	32.762		
22,100.00	12,399.00	18,051.05	8,420.00	167.19	163.19	-18.09	-9,742.01	828.41	4,185.95	4,056.96	128.99	32.452		
22,200.00	12,399.00	18,151.05	8,420.00	168.79	164.81	-18.09	-9,842.01	829.41	4,185.95	4,055.75	130.20	32.149		
22,300.00	12,399.00	18,251.05	8,420.00	170.38	166.43	-18.09	-9,942.00	830.41	4,185.95	4,054.53	131.42	31.851		
22,400.00	12,399.00	18,351.05	8,420.00	171.98	168.05	-18.09	-10,042.00	831.41	4,185.95	4,053.31	132.64	31.558		
22,500.00	12,399.00	18,451.05	8,420.00	173.57	169.68	-18.09	-10,141.99	832.41	4,185.96	4,052.09	133.86	31.271		
22,500.01	12,399.00	18,451.05	8,420.00	173.57	169.68	-18.09	-10,142.00	832.41	4,185.96	4,052.09	133.86	31.271		
22,600.00	12,399.00	18,511.34	8,420.00	175.17	170.66	-18.09	-10,202.29	833.01	4,186.15	4,051.26	134.88	31.035		
22,700.00	12,399.00	18,511.34	8,420.00	176.77	170.66	-18.09	-10,202.29	833.01	4,188.29	4,052.72	135.57	30.893		
22,800.00	12,399.00	18,511.34	8,420.00	178.37	170.66	-18.09	-10,202.29	833.01	4,192.82	4,056.63	136.19	30.787		
22,900.00	12,399.00	18,511.34	8,420.00	179.97	170.66	-18.09	-10,202.29	833.01	4,199.72	4,062.98	136.75	30.712		
23,000.00	12,399.00	18,511.34	8,420.00	181.57	170.66	-18.09	-10,202.29	833.01	4,208.99	4,071.75	137.24	30.668		
23,100.00	12,399.00	18,511.34	8,420.00	183.17	170.66	-18.09	-10,202.29	833.01	4,220.61	4,082.94	137.68	30.656		
23,200.00	12,399.00	18,511.34	8,420.00	184.77	170.66	-18.09	-10,202.29	833.01	4,234.56	4,096.52	138.04	30.676		
23,300.00	12,399.00	18,511.34	8,420.00	186.38	170.66	-18.09	-10,202.29	833.01	4,250.82	4,112.46	138.36	30.724		
23,400.00	12,399.00	18,511.34	8,420.00	187.98	170.66	-18.09	-10,202.29	833.01	4,269.36	4,130.76	138.60	30.803		
23,500.00	12,399.00	18,511.34	8,420.00	189.58	170.66	-18.09	-10,202.29	833.01	4,290.15	4,151.36	138.79	30.912		
23,600.00	12,399.00	18,511.34	8,420.00	191.19	170.66	-18.09	-10,202.29	833.01	4,313.16	4,174.24	138.91	31.049		
23,700.00	12,399.00	18,511.34	8,420.00	192.80	170.66	-18.09	-10,202.29	833.01	4,338.35	4,199.36	138.99	31.214		
23,800.00	12,399.00	18,511.34	8,420.00	194.41	170.66	-18.09	-10,202.29	833.01	4,365.69	4,226.68	139.00	31.407		
23,874.38	12,399.00	18,511.34	8,420.00	195.60	170.66	-18.09	-10,202.29	833.01	4,387.39	4,248.41	138.98	31.569		

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 804H
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 804H	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	0.00	0.00	0.00	0.00	170.07	-74.83	13.10	75.96					
100.00	100.00	100.00	100.00	0.13	0.13	170.07	-74.83	13.10	75.96	75.79	0.18	428.118		
200.00	200.00	200.00	200.00	0.48	0.48	170.07	-74.83	13.10	75.96	75.28	0.68	110.994		
300.00	300.00	300.00	300.00	0.84	0.84	170.07	-74.83	13.10	75.96	74.77	1.19	63.762		
400.00	400.00	400.00	400.00	1.20	1.20	170.07	-74.83	13.10	75.96	74.26	1.70	44.729		
500.00	500.00	500.00	500.00	1.56	1.56	170.07	-74.83	13.10	75.96	73.76	2.21	34.446		
600.00	600.00	600.00	600.00	1.92	1.92	170.07	-74.83	13.10	75.96	73.25	2.71	28.008		
700.00	700.00	700.00	700.00	2.28	2.28	170.07	-74.83	13.10	75.96	72.74	3.22	23.597		
800.00	800.00	800.00	800.00	2.63	2.63	170.07	-74.83	13.10	75.96	72.24	3.73	20.387		
900.00	900.00	900.00	900.00	2.99	2.99	170.07	-74.83	13.10	75.96	71.73	4.23	17.945		
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	170.07	-74.83	13.10	75.96	71.22	4.74	16.026		
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	170.07	-74.83	13.10	75.96	70.72	5.25	14.477		
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	170.07	-74.83	13.10	75.96	70.21	5.75	13.202		
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	170.07	-74.83	13.10	75.96	69.70	6.26	12.133		
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	170.07	-74.83	13.10	75.96	69.20	6.77	11.224		
1,500.00	1,500.00	1,500.00	1,500.00	5.14	5.14	170.07	-74.83	13.10	75.96	68.69	7.27	10.442		
1,600.00	1,600.00	1,600.00	1,600.00	5.50	5.50	170.07	-74.83	13.10	75.96	68.18	7.78	9.762		
1,700.00	1,700.00	1,700.00	1,700.00	5.86	5.86	170.07	-74.83	13.10	75.96	67.67	8.29	9.165		
1,800.00	1,800.00	1,800.00	1,800.00	6.22	6.22	170.07	-74.83	13.10	75.96	67.17	8.80	8.636		
1,900.00	1,900.00	1,900.00	1,900.00	6.58	6.58	170.07	-74.83	13.10	75.96	66.66	9.30	8.166		
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	170.07	-74.83	13.10	75.96	66.15	9.81	7.744		
2,100.00	2,099.99	2,099.99	2,099.99	7.29	7.29	-116.21	-74.83	13.10	76.53	66.22	10.31	7.422		
2,200.00	2,199.91	2,200.91	2,200.89	7.64	7.65	-117.94	-74.45	11.82	77.70	66.89	10.81	7.189		
2,300.00	2,299.69	2,301.89	2,301.80	7.99	8.00	-119.61	-73.34	7.97	78.90	67.60	11.30	6.982		
2,400.00	2,399.27	2,402.95	2,402.63	8.34	8.36	-121.23	-71.48	1.56	80.12	68.32	11.79	6.793		
2,458.69	2,457.58	2,462.29	2,461.75	8.55	8.56	-122.16	-70.05	-3.39	80.84	68.76	12.08	6.689		
2,500.00	2,498.60	2,504.08	2,503.33	8.70	8.71	-122.67	-68.88	-7.41	81.23	68.94	12.29	6.610		
2,600.00	2,597.88	2,605.27	2,603.80	9.06	9.08	-122.80	-65.53	-18.95	81.15	68.37	12.79	6.346		
2,700.00	2,697.16	2,706.40	2,703.85	9.43	9.44	-121.32	-61.45	-33.04	79.64	66.35	13.29	5.991		
2,800.00	2,796.44	2,806.97	2,802.97	9.80	9.82	-118.20	-56.70	-49.41	76.95	63.13	13.82	5.569		
2,900.00	2,895.72	2,906.81	2,901.27	10.17	10.20	-114.49	-51.84	-66.19	74.26	59.90	14.36	5.172		
3,000.00	2,995.00	3,006.66	2,999.57	10.54	10.59	-110.53	-46.98	-82.97	71.90	57.00	14.91	4.824		
3,100.00	3,094.28	3,106.50	3,097.88	10.92	10.98	-106.32	-42.11	-99.74	69.92	54.45	15.46	4.522		
3,200.00	3,193.56	3,206.34	3,196.18	11.30	11.38	-101.89	-37.25	-116.52	68.33	52.31	16.02	4.265		
3,300.00	3,292.84	3,306.19	3,294.49	11.68	11.78	-97.28	-32.38	-133.30	67.16	50.58	16.58	4.050		
3,400.00	3,392.12	3,406.03	3,392.79	12.06	12.18	-92.54	-27.52	-150.08	66.45	49.31	17.14	3.876		
3,500.00	3,491.40	3,505.88	3,491.09	12.45	12.59	-87.73	-22.65	-166.86	66.20	48.50	17.70	3.740		
3,502.93	3,494.31	3,508.81	3,493.98	12.46	12.60	-87.59	-22.51	-167.35	66.20	48.49	17.72	3.737 CC		
3,600.00	3,590.68	3,605.72	3,589.40	12.83	13.00	-82.92	-17.79	-183.64	66.42	48.17	18.25	3.640 ES		
3,700.00	3,689.96	3,705.57	3,687.70	13.22	13.41	-78.18	-12.93	-200.42	67.11	48.32	18.79	3.571		
3,800.00	3,789.24	3,805.41	3,786.01	13.60	13.83	-73.56	-8.06	-217.20	68.25	48.92	19.32	3.532		
3,900.00	3,888.52	3,905.25	3,884.31	13.99	14.25	-69.12	-3.20	-233.97	69.81	49.96	19.85	3.517 SF		
4,000.00	3,987.80	4,005.10	3,982.62	14.38	14.67	-64.89	1.67	-250.75	71.78	51.41	20.36	3.525		
4,100.00	4,087.08	4,104.94	4,080.92	14.77	15.09	-60.92	6.53	-267.53	74.11	53.24	20.87	3.551		
4,200.00	4,186.36	4,204.79	4,179.22	15.16	15.52	-57.20	11.40	-284.31	76.78	55.41	21.37	3.592		
4,300.00	4,285.64	4,304.63	4,277.53	15.56	15.95	-53.74	16.26	-301.09	79.75	57.88	21.87	3.646		
4,400.00	4,384.92	4,404.47	4,375.83	15.95	16.37	-50.54	21.12	-317.87	82.99	60.63	22.37	3.710		
4,500.00	4,484.20	4,504.32	4,474.14	16.34	16.80	-47.59	25.99	-334.65	86.47	63.61	22.86	3.783		
4,600.00	4,583.48	4,604.16	4,572.44	16.74	17.23	-44.88	30.85	-351.43	90.16	66.81	23.35	3.861		
4,700.00	4,682.76	4,704.01	4,670.74	17.13	17.67	-42.38	35.72	-368.20	94.04	70.19	23.85	3.944		
4,800.00	4,782.04	4,803.85	4,769.05	17.53	18.10	-40.09	40.58	-384.98	98.08	73.74	24.34	4.030		
4,900.00	4,881.32	4,903.70	4,867.35	17.92	18.53	-37.98	45.45	-401.76	102.27	77.43	24.83	4.118		

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 804H
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 804H	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		
5,000.00	4,980.60	5,003.54	4,965.66	18.32	18.97	-36.03	50.31	-418.54	106.58	81.25	25.33	4.208		
5,100.00	5,079.88	5,103.38	5,063.96	18.71	19.41	-34.24	55.17	-435.32	111.01	85.18	25.83	4.298		
5,200.00	5,179.16	5,203.23	5,162.26	19.11	19.84	-32.59	60.04	-452.10	115.54	89.21	26.33	4.389		
5,300.00	5,278.44	5,303.07	5,260.57	19.51	20.28	-31.07	64.90	-468.88	120.15	93.33	26.83	4.479		
5,400.00	5,377.72	5,402.92	5,358.87	19.90	20.72	-29.66	69.77	-485.66	124.84	97.52	27.33	4.569		
5,500.00	5,477.00	5,502.76	5,457.18	20.30	21.16	-28.35	74.63	-502.43	129.61	101.78	27.83	4.657		
5,600.00	5,576.28	5,602.61	5,555.48	20.70	21.60	-27.13	79.50	-519.21	134.44	106.10	28.33	4.745		
5,700.00	5,675.56	5,702.45	5,653.78	21.10	22.04	-26.00	84.36	-535.99	139.32	110.48	28.84	4.831		
5,800.00	5,774.84	5,802.29	5,752.09	21.50	22.48	-24.95	89.23	-552.77	144.25	114.91	29.35	4.916		
5,900.00	5,874.12	5,902.14	5,850.39	21.90	22.92	-23.96	94.09	-569.55	149.23	119.38	29.85	4.999		
6,000.00	5,973.40	6,001.98	5,948.70	22.30	23.36	-23.04	98.95	-586.33	154.25	123.89	30.36	5.081		
6,100.00	6,072.68	6,101.83	6,047.00	22.70	23.81	-22.18	103.82	-603.11	159.31	128.44	30.87	5.161		
6,200.00	6,171.96	6,201.67	6,145.30	23.10	24.25	-21.37	108.68	-619.89	164.40	133.02	31.38	5.239		
6,300.00	6,271.24	6,301.52	6,243.61	23.50	24.69	-20.61	113.55	-636.66	169.52	137.63	31.89	5.315		
6,400.00	6,370.52	6,401.36	6,341.91	23.90	25.14	-19.89	118.41	-653.44	174.67	142.27	32.40	5.390		
6,500.00	6,469.80	6,501.20	6,440.22	24.30	25.58	-19.22	123.28	-670.22	179.85	146.93	32.92	5.464		
6,600.00	6,569.08	6,601.05	6,538.52	24.70	26.03	-18.58	128.14	-687.00	185.05	151.62	33.43	5.535		
6,700.00	6,668.36	6,700.89	6,636.82	25.10	26.47	-17.98	133.00	-703.78	190.27	156.32	33.95	5.605		
6,800.00	6,767.64	6,802.94	6,737.34	25.50	26.93	-17.42	137.90	-720.67	195.27	160.77	34.49	5.661		
6,900.00	6,866.91	6,908.04	6,841.26	25.90	27.37	-17.09	142.28	-735.78	198.09	163.02	35.07	5.649		
6,934.75	6,901.42	6,944.60	6,877.50	26.04	27.52	-17.04	143.62	-740.39	198.45	163.19	35.26	5.628		
7,000.00	6,966.26	7,013.25	6,945.67	26.30	27.80	-16.97	145.87	-748.15	198.82	163.20	35.62	5.582		
7,100.00	7,065.85	7,118.47	7,050.41	26.68	28.21	-16.89	148.65	-757.76	199.29	163.14	36.14	5.514		
7,200.00	7,165.65	7,223.71	7,155.40	27.05	28.59	-16.83	150.63	-764.59	199.63	163.00	36.64	5.449		
7,300.00	7,265.57	7,328.95	7,260.56	27.41	28.95	-16.80	151.81	-768.64	199.86	162.76	37.10	5.387		
7,393.44	7,359.00	7,427.30	7,358.90	27.72	29.28	-91.38	152.17	-769.90	199.96	162.46	37.50	5.332		
7,400.00	7,365.56	7,433.96	7,365.56	27.74	29.30	-91.38	152.17	-769.90	199.96	162.43	37.53	5.327		
7,500.00	7,465.56	7,533.96	7,465.56	28.08	29.61	-91.38	152.17	-769.90	199.96	161.94	38.02	5.260		
7,600.00	7,565.56	7,633.96	7,565.56	28.41	29.93	-91.38	152.17	-769.90	199.96	161.46	38.50	5.194		
7,700.00	7,665.56	7,733.96	7,665.56	28.74	30.25	-91.38	152.17	-769.90	199.96	160.98	38.99	5.129		
7,800.00	7,765.56	7,833.96	7,765.56	29.07	30.56	-91.38	152.17	-769.90	199.96	160.49	39.47	5.066		
7,900.00	7,865.56	7,933.96	7,865.56	29.41	30.88	-91.38	152.17	-769.90	199.96	160.00	39.96	5.004		
8,000.00	7,965.56	8,033.96	7,965.56	29.74	31.20	-91.38	152.17	-769.90	199.96	159.52	40.44	4.944		
8,100.00	8,065.56	8,133.96	8,065.56	30.08	31.52	-91.38	152.17	-769.90	199.96	159.03	40.93	4.885		
8,200.00	8,165.56	8,233.96	8,165.56	30.41	31.84	-91.38	152.17	-769.90	199.96	158.54	41.42	4.828		
8,300.00	8,265.56	8,333.96	8,265.56	30.75	32.17	-91.38	152.17	-769.90	199.96	158.06	41.90	4.772		
8,400.00	8,365.56	8,433.96	8,365.56	31.09	32.49	-91.38	152.17	-769.90	199.96	157.57	42.39	4.717		
8,500.00	8,465.56	8,533.96	8,465.56	31.42	32.81	-91.38	152.17	-769.90	199.96	157.08	42.88	4.663		
8,600.00	8,565.56	8,633.96	8,565.56	31.76	33.14	-91.38	152.17	-769.90	199.96	156.59	43.37	4.611		
8,700.00	8,665.56	8,733.96	8,665.56	32.10	33.46	-91.38	152.17	-769.90	199.96	156.10	43.86	4.559		
8,800.00	8,765.56	8,833.96	8,765.56	32.44	33.79	-91.38	152.17	-769.90	199.96	155.61	44.35	4.509		
8,900.00	8,865.56	8,933.96	8,865.56	32.78	34.11	-91.38	152.17	-769.90	199.96	155.12	44.84	4.459		
9,000.00	8,965.56	9,033.96	8,965.56	33.12	34.44	-91.38	152.17	-769.90	199.96	154.63	45.33	4.411		
9,100.00	9,065.56	9,133.96	9,065.56	33.45	34.77	-91.38	152.17	-769.90	199.96	154.14	45.82	4.364		
9,200.00	9,165.56	9,233.96	9,165.56	33.79	35.10	-91.38	152.17	-769.90	199.96	153.65	46.31	4.318		
9,300.00	9,265.56	9,333.96	9,265.56	34.14	35.42	-91.38	152.17	-769.90	199.96	153.16	46.80	4.272		
9,400.00	9,365.56	9,433.96	9,365.56	34.48	35.75	-91.38	152.17	-769.90	199.96	152.67	47.30	4.228		
9,500.00	9,465.56	9,533.96	9,465.56	34.82	36.08	-91.38	152.17	-769.90	199.96	152.17	47.79	4.184		
9,600.00	9,565.56	9,633.96	9,565.56	35.16	36.41	-91.38	152.17	-769.90	199.96	151.68	48.28	4.142		
9,700.00	9,665.56	9,733.96	9,665.56	35.50	36.74	-91.38	152.17	-769.90	199.96	151.19	48.77	4.100		
9,800.00	9,765.56	9,833.96	9,765.56	35.84	37.08	-91.38	152.17	-769.90	199.96	150.70	49.27	4.059		
9,808.66	9,774.23	9,842.63	9,774.23	35.87	37.11	-91.38	152.17	-769.90	199.96	150.65	49.31	4.055		

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 804H
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 804H	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	9,865.56	9,933.85	9,865.45	36.19	37.40	-91.49	151.81	-769.90	199.97	150.21	49.76	4.019		
10,000.00	9,965.56	10,031.66	9,962.42	36.53	37.69	-94.86	140.02	-769.78	200.53	150.19	50.33	3.984		
10,100.00	10,065.56	10,123.00	10,049.96	36.87	37.92	-102.09	114.28	-769.53	204.65	153.65	51.00	4.013		
10,200.00	10,165.56	10,204.47	10,123.71	37.21	38.11	-111.17	79.84	-769.19	217.67	166.41	51.26	4.247		
10,300.00	10,265.56	10,274.86	10,182.96	37.56	38.24	-120.06	41.92	-768.81	244.11	193.68	50.44	4.840		
10,400.00	10,365.56	10,334.58	10,229.27	37.90	38.33	-127.59	4.25	-768.44	285.10	236.50	48.61	5.866		
10,500.00	10,465.56	10,384.85	10,265.04	38.25	38.40	-133.51	-31.05	-768.09	338.84	292.46	46.38	7.305		
10,600.00	10,565.56	10,427.14	10,292.63	38.59	38.44	-138.06	-63.08	-767.77	402.54	358.30	44.25	9.098		
10,700.00	10,665.56	10,462.85	10,314.04	38.94	38.48	-141.54	-91.65	-767.48	473.70	431.31	42.40	11.173		
10,800.00	10,765.56	10,500.00	10,334.38	39.28	38.52	-144.82	-122.73	-767.18	550.50	509.36	41.14	13.381		
10,900.00	10,865.56	10,519.12	10,344.05	39.63	38.53	-146.37	-139.22	-767.01	631.30	591.66	39.64	15.925		
11,000.00	10,965.56	10,550.00	10,358.49	39.97	38.56	-148.69	-166.51	-766.74	715.47	676.55	38.92	18.384		
11,100.00	11,065.56	10,550.00	10,358.49	40.32	38.56	-148.69	-166.51	-766.74	802.07	764.46	37.61	21.327		
11,200.00	11,165.56	10,577.85	10,370.24	40.66	38.58	-150.60	-191.76	-766.49	890.38	853.10	37.28	23.881		
11,300.00	11,265.56	10,600.00	10,378.70	41.01	38.60	-152.00	-212.23	-766.29	980.50	943.54	36.96	26.526		
11,400.00	11,365.56	10,600.00	10,378.70	41.36	38.60	-152.00	-212.23	-766.29	1,071.80	1,035.45	36.36	29.481		
11,500.00	11,465.56	10,617.83	10,384.93	41.70	38.61	-153.06	-228.93	-766.12	1,164.12	1,127.92	36.20	32.154		
11,600.00	11,565.56	10,628.41	10,388.38	42.05	38.62	-153.66	-238.93	-766.02	1,257.36	1,221.34	36.02	34.905		
11,700.00	11,665.56	10,650.00	10,394.84	42.40	38.64	-154.82	-259.53	-765.82	1,351.51	1,315.44	36.07	37.474		
11,800.00	11,765.56	10,650.00	10,394.84	42.74	38.64	-154.82	-259.53	-765.82	1,445.93	1,410.04	35.88	40.294		
11,860.48	11,826.04	10,650.00	10,394.84	42.95	38.64	-154.82	-259.53	-765.82	1,503.38	1,467.57	35.82	41.976		
11,900.00	11,865.53	10,650.00	10,394.84	43.08	38.64	21.27	-259.53	-765.82	1,540.66	1,504.89	35.77	43.074		
11,950.00	11,915.20	10,650.00	10,394.84	43.24	38.64	17.37	-259.53	-765.82	1,586.69	1,551.00	35.69	44.459		
12,000.00	11,964.19	10,650.00	10,394.84	43.39	38.64	14.66	-259.53	-765.82	1,631.24	1,595.65	35.59	45.829		
12,050.00	12,012.13	10,672.34	10,400.71	43.53	38.66	12.44	-281.08	-765.60	1,673.53	1,637.84	35.69	46.891		
12,100.00	12,058.65	10,679.66	10,402.45	43.66	38.66	10.96	-288.19	-765.53	1,714.09	1,678.47	35.62	48.116		
12,150.00	12,103.40	10,700.00	10,406.80	43.78	38.68	9.75	-308.06	-765.34	1,752.62	1,716.97	35.65	49.158		
12,200.00	12,146.04	10,700.00	10,406.80	43.90	38.68	8.92	-308.06	-765.34	1,788.42	1,752.91	35.51	50.366		
12,250.00	12,186.24	10,700.00	10,406.80	44.00	38.68	8.25	-308.06	-765.34	1,821.84	1,786.46	35.37	51.505		
12,300.00	12,223.71	10,700.00	10,406.80	44.09	38.68	7.70	-308.06	-765.34	1,852.75	1,817.51	35.24	52.570		
12,350.00	12,258.14	10,724.16	10,411.06	44.17	38.71	7.20	-331.84	-765.10	1,880.40	1,845.14	35.26	53.325		
12,400.00	12,289.29	10,750.00	10,414.49	44.24	38.74	6.79	-357.45	-764.85	1,905.63	1,870.35	35.28	54.009		
12,450.00	12,316.92	10,750.00	10,414.49	44.30	38.74	6.51	-357.45	-764.85	1,927.29	1,892.11	35.18	54.789		
12,500.00	12,340.80	10,750.00	10,414.49	44.36	38.74	6.29	-357.45	-764.85	1,946.07	1,910.97	35.10	55.450		
12,550.00	12,360.77	10,750.00	10,414.49	44.43	38.74	6.11	-357.45	-764.85	1,961.91	1,926.87	35.05	55.982		
12,600.00	12,376.67	10,777.00	10,416.84	44.50	38.78	5.95	-384.34	-764.58	1,973.95	1,938.86	35.09	56.248		
12,650.00	12,388.38	10,800.00	10,417.84	44.59	38.82	5.85	-407.32	-764.35	1,983.14	1,948.00	35.14	56.438		
12,700.00	12,395.81	10,800.00	10,417.84	44.69	38.82	5.79	-407.32	-764.35	1,988.67	1,953.52	35.16	56.565		
12,750.00	12,398.90	10,813.44	10,418.00	44.81	38.85	5.76	-420.76	-764.22	1,991.01	1,955.79	35.23	56.519		
12,760.48	12,399.00	10,813.44	10,418.00	44.83	38.85	5.76	-420.76	-764.22	1,991.07	1,955.83	35.24	56.499		
12,764.56	12,399.00	10,814.69	10,418.00	44.84	38.85	5.76	-422.00	-764.20	1,991.07	1,955.82	35.25	56.485		
12,800.00	12,399.00	10,850.12	10,418.00	44.94	38.92	5.76	-457.44	-763.85	1,991.07	1,955.74	35.33	56.355		
12,900.00	12,399.00	10,950.12	10,418.00	45.25	39.18	5.76	-557.43	-762.86	1,991.07	1,955.49	35.58	55.961		
13,000.00	12,399.00	11,050.12	10,418.00	45.62	39.52	5.76	-657.43	-761.87	1,991.07	1,955.20	35.86	55.520		
13,100.00	12,399.00	11,150.12	10,418.00	46.05	39.95	5.76	-757.42	-760.88	1,991.07	1,954.89	36.18	55.036		
13,200.00	12,399.00	11,250.12	10,418.00	46.53	40.45	5.76	-857.42	-759.88	1,991.07	1,954.54	36.52	54.513		
13,300.00	12,399.00	11,350.12	10,418.00	47.07	41.02	5.76	-957.41	-758.89	1,991.07	1,954.16	36.90	53.954		
13,400.00	12,399.00	11,450.12	10,418.00	47.65	41.65	5.76	-1,057.41	-757.90	1,991.07	1,953.75	37.31	53.362		
13,500.00	12,399.00	11,550.12	10,418.00	48.29	42.34	5.76	-1,157.40	-756.91	1,991.07	1,953.32	37.75	52.743		
13,600.00	12,399.00	11,650.12	10,418.00	48.97	43.08	5.76	-1,257.40	-755.91	1,991.07	1,952.85	38.22	52.100		
13,700.00	12,399.00	11,750.12	10,418.00	49.70	43.88	5.76	-1,357.39	-754.92	1,991.07	1,952.36	38.71	51.436		
13,800.00	12,399.00	11,850.12	10,418.00	50.47	44.72	5.76	-1,457.39	-753.93	1,991.07	1,951.84	39.23	50.755		

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 804H
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 804H	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	12,399.00	11,950.12	10,418.00	51.29	45.61	5.76	-1,557.38	-752.94	1,991.07	1,951.29	39.77	50.059		
14,000.00	12,399.00	12,050.12	10,418.00	52.14	46.53	5.76	-1,657.38	-751.94	1,991.07	1,950.73	40.34	49.353		
14,100.00	12,399.00	12,150.12	10,418.00	53.03	47.50	5.76	-1,757.37	-750.95	1,991.07	1,950.13	40.94	48.640		
14,200.00	12,399.00	12,250.12	10,418.00	53.95	48.51	5.76	-1,857.37	-749.96	1,991.07	1,949.52	41.55	47.921		
14,300.00	12,399.00	12,350.12	10,418.00	54.91	49.54	5.76	-1,957.36	-748.97	1,991.07	1,948.88	42.18	47.199		
14,400.00	12,399.00	12,450.12	10,418.00	55.90	50.62	5.76	-2,057.36	-747.97	1,991.07	1,948.23	42.84	46.478		
14,500.00	12,399.00	12,550.12	10,418.00	56.93	51.72	5.76	-2,157.35	-746.98	1,991.07	1,947.56	43.51	45.757		
14,600.00	12,399.00	12,650.12	10,418.00	57.98	52.85	5.76	-2,257.35	-745.99	1,991.07	1,946.86	44.21	45.041		
14,700.00	12,399.00	12,750.12	10,418.00	59.06	54.01	5.76	-2,357.34	-745.00	1,991.07	1,946.15	44.91	44.330		
14,800.00	12,399.00	12,850.12	10,418.00	60.16	55.19	5.76	-2,457.34	-744.00	1,991.07	1,945.43	45.64	43.625		
14,900.00	12,399.00	12,950.12	10,418.00	61.29	56.39	5.76	-2,557.33	-743.01	1,991.07	1,944.69	46.38	42.927		
15,000.00	12,399.00	13,050.12	10,418.00	62.44	57.62	5.76	-2,657.33	-742.02	1,991.07	1,943.93	47.14	42.237		
15,100.00	12,399.00	13,150.12	10,418.00	63.61	58.87	5.76	-2,757.32	-741.03	1,991.07	1,943.16	47.91	41.557		
15,200.00	12,399.00	13,250.12	10,418.00	64.81	60.14	5.77	-2,857.32	-740.03	1,991.07	1,942.37	48.70	40.887		
15,300.00	12,399.00	13,350.12	10,418.00	66.02	61.42	5.77	-2,957.31	-739.04	1,991.07	1,941.57	49.50	40.227		
15,400.00	12,399.00	13,450.12	10,418.00	67.26	62.73	5.77	-3,057.31	-738.05	1,991.07	1,940.76	50.31	39.578		
15,500.00	12,399.00	13,550.12	10,418.00	68.51	64.05	5.77	-3,157.30	-737.06	1,991.07	1,939.94	51.13	38.941		
15,600.00	12,399.00	13,650.12	10,418.00	69.77	65.38	5.77	-3,257.30	-736.06	1,991.07	1,939.11	51.96	38.316		
15,700.00	12,399.00	13,750.12	10,418.00	71.06	66.73	5.77	-3,357.29	-735.07	1,991.07	1,938.26	52.81	37.703		
15,800.00	12,399.00	13,850.12	10,418.00	72.35	68.09	5.77	-3,457.29	-734.08	1,991.07	1,937.41	53.67	37.102		
15,900.00	12,399.00	13,950.12	10,418.00	73.67	69.46	5.77	-3,557.28	-733.09	1,991.07	1,936.54	54.53	36.513		
16,000.00	12,399.00	14,050.12	10,418.00	74.99	70.85	5.77	-3,657.28	-732.09	1,991.07	1,935.67	55.41	35.937		
16,100.00	12,399.00	14,150.12	10,418.00	76.33	72.25	5.77	-3,757.27	-731.10	1,991.07	1,934.78	56.29	35.372		
16,200.00	12,399.00	14,250.12	10,418.00	77.68	73.65	5.77	-3,857.27	-730.11	1,991.07	1,933.89	57.18	34.821		
16,300.00	12,399.00	14,350.12	10,418.00	79.04	75.07	5.77	-3,957.26	-729.12	1,991.07	1,932.99	58.08	34.281		
16,400.00	12,399.00	14,450.12	10,418.00	80.41	76.50	5.77	-4,057.26	-728.12	1,991.07	1,932.08	58.99	33.753		
16,500.00	12,399.00	14,550.12	10,418.00	81.80	77.93	5.77	-4,157.25	-727.13	1,991.07	1,931.17	59.90	33.237		
16,600.00	12,399.00	14,650.12	10,418.00	83.19	79.38	5.77	-4,257.25	-726.14	1,991.07	1,930.25	60.83	32.733		
16,700.00	12,399.00	14,750.12	10,418.00	84.59	80.83	5.77	-4,357.24	-725.15	1,991.07	1,929.32	61.76	32.241		
16,800.00	12,399.00	14,850.12	10,418.00	86.00	82.29	5.77	-4,457.24	-724.15	1,991.07	1,928.38	62.69	31.760		
16,900.00	12,399.00	14,950.12	10,418.00	87.42	83.75	5.77	-4,557.23	-723.16	1,991.07	1,927.44	63.63	31.290		
17,000.00	12,399.00	15,050.12	10,418.00	88.85	85.23	5.77	-4,657.23	-722.17	1,991.07	1,926.49	64.58	30.831		
17,100.00	12,399.00	15,150.12	10,418.00	90.28	86.71	5.77	-4,757.22	-721.18	1,991.07	1,925.54	65.53	30.382		
17,200.00	12,399.00	15,250.12	10,418.00	91.72	88.19	5.77	-4,857.22	-720.18	1,991.07	1,924.58	66.49	29.944		
17,300.00	12,399.00	15,350.12	10,418.00	93.17	89.68	5.77	-4,957.21	-719.19	1,991.07	1,923.62	67.46	29.517		
17,400.00	12,399.00	15,450.12	10,418.00	94.63	91.18	5.77	-5,057.21	-718.20	1,991.07	1,922.65	68.42	29.099		
17,500.00	12,399.00	15,550.12	10,418.00	96.09	92.68	5.77	-5,157.20	-717.21	1,991.08	1,921.68	69.40	28.692		
17,600.00	12,399.00	15,650.12	10,418.00	97.56	94.19	5.77	-5,257.20	-716.21	1,991.08	1,920.70	70.37	28.293		
17,700.00	12,399.00	15,750.12	10,418.00	99.03	95.70	5.77	-5,357.19	-715.22	1,991.08	1,919.72	71.35	27.904		
17,800.00	12,399.00	15,850.12	10,418.00	100.51	97.22	5.77	-5,457.19	-714.23	1,991.08	1,918.74	72.34	27.525		
17,900.00	12,399.00	15,950.12	10,418.00	102.00	98.74	5.77	-5,557.18	-713.24	1,991.08	1,917.75	73.33	27.152		
18,000.00	12,399.00	16,050.12	10,418.00	103.48	100.26	5.77	-5,657.18	-712.24	1,991.08	1,916.75	74.32	26.790		
18,100.00	12,399.00	16,150.12	10,418.00	104.98	101.79	5.77	-5,757.17	-711.25	1,991.08	1,915.76	75.32	26.435		
18,200.00	12,399.00	16,250.12	10,418.00	106.48	103.33	5.77	-5,857.17	-710.26	1,991.08	1,914.76	76.32	26.089		
18,300.00	12,399.00	16,350.12	10,418.00	107.98	104.86	5.77	-5,957.16	-709.27	1,991.08	1,913.75	77.32	25.750		
18,400.00	12,399.00	16,450.12	10,418.00	109.49	106.40	5.77	-6,057.16	-708.27	1,991.08	1,912.75	78.33	25.419		
18,500.00	12,399.00	16,550.12	10,418.00	111.00	107.95	5.77	-6,157.15	-707.28	1,991.08	1,911.74	79.34	25.096		
18,600.00	12,399.00	16,650.12	10,418.00	112.52	109.49	5.77	-6,257.15	-706.29	1,991.08	1,910.72	80.35	24.779		
18,700.00	12,399.00	16,750.12	10,418.00	114.04	111.04	5.77	-6,357.14	-705.30	1,991.08	1,909.71	81.37	24.470		
18,800.00	12,399.00	16,850.12	10,418.00	115.56	112.59	5.77	-6,457.14	-704.30	1,991.08	1,908.69	82.39	24.167		
18,900.00	12,399.00	16,950.12	10,418.00	117.09	114.15	5.77	-6,557.13	-703.31	1,991.08	1,907.67	83.41	23.871		
19,000.00	12,399.00	17,050.12	10,418.00	118.62	115.70	5.77	-6,657.13	-702.32	1,991.08	1,906.64	84.43	23.582		

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 804H
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 804H	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	12,399.00	17,150.12	10,418.00	120.15	117.27	5.77	-6,757.13	-701.33	1,991.08	1,905.62	85.46	23.298			
19,200.00	12,399.00	17,250.12	10,418.00	121.69	118.83	5.77	-6,857.12	-700.33	1,991.08	1,904.59	86.49	23.021			
19,300.00	12,399.00	17,350.12	10,418.00	123.22	120.39	5.77	-6,957.12	-699.34	1,991.08	1,903.56	87.52	22.750			
19,400.00	12,399.00	17,450.12	10,418.00	124.77	121.96	5.77	-7,057.11	-698.35	1,991.08	1,902.53	88.55	22.484			
19,500.00	12,399.00	17,550.12	10,418.00	126.31	123.53	5.77	-7,157.11	-697.36	1,991.08	1,901.49	89.59	22.224			
19,600.00	12,399.00	17,650.12	10,418.00	127.86	125.10	5.77	-7,257.10	-696.36	1,991.08	1,900.45	90.63	21.970			
19,700.00	12,399.00	17,750.12	10,418.00	129.41	126.67	5.77	-7,357.10	-695.37	1,991.08	1,899.41	91.67	21.721			
19,800.00	12,399.00	17,850.12	10,418.00	130.96	128.25	5.77	-7,457.09	-694.38	1,991.08	1,898.37	92.71	21.477			
19,900.00	12,399.00	17,950.12	10,418.00	132.52	129.83	5.77	-7,557.09	-693.39	1,991.08	1,897.33	93.75	21.238			
20,000.00	12,399.00	18,050.12	10,418.00	134.07	131.41	5.77	-7,657.08	-692.39	1,991.08	1,896.28	94.80	21.003			
20,100.00	12,399.00	18,150.12	10,418.00	135.63	132.99	5.77	-7,757.08	-691.40	1,991.08	1,895.24	95.84	20.774			
20,200.00	12,399.00	18,250.12	10,418.00	137.20	134.57	5.77	-7,857.07	-690.41	1,991.08	1,894.19	96.89	20.549			
20,300.00	12,399.00	18,350.12	10,418.00	138.76	136.15	5.77	-7,957.07	-689.42	1,991.08	1,893.14	97.94	20.329			
20,400.00	12,399.00	18,450.12	10,418.00	140.32	137.74	5.77	-8,057.06	-688.42	1,991.08	1,892.09	99.00	20.113			
20,500.00	12,399.00	18,550.12	10,418.00	141.89	139.33	5.77	-8,157.06	-687.43	1,991.08	1,891.03	100.05	19.901			
20,600.00	12,399.00	18,650.12	10,418.00	143.46	140.92	5.77	-8,257.05	-686.44	1,991.08	1,889.98	101.10	19.694			
20,700.00	12,399.00	18,750.12	10,418.00	145.03	142.51	5.77	-8,357.05	-685.45	1,991.08	1,888.92	102.16	19.490			
20,800.00	12,399.00	18,850.12	10,418.00	146.61	144.10	5.77	-8,457.04	-684.45	1,991.08	1,887.87	103.22	19.290			
20,900.00	12,399.00	18,950.12	10,418.00	148.18	145.69	5.77	-8,557.04	-683.46	1,991.08	1,886.81	104.27	19.095			
21,000.00	12,399.00	19,050.12	10,418.00	149.76	147.28	5.77	-8,657.03	-682.47	1,991.08	1,885.75	105.33	18.903			
21,100.00	12,399.00	19,150.12	10,418.00	151.34	148.88	5.77	-8,757.03	-681.48	1,991.08	1,884.69	106.39	18.714			
21,200.00	12,399.00	19,250.12	10,418.00	152.92	150.48	5.77	-8,857.02	-680.48	1,991.08	1,883.62	107.46	18.529			
21,300.00	12,399.00	19,350.12	10,418.00	154.50	152.07	5.77	-8,957.02	-679.49	1,991.08	1,882.56	108.52	18.347			
21,400.00	12,399.00	19,450.12	10,418.00	156.08	153.67	5.77	-9,057.01	-678.50	1,991.08	1,881.50	109.59	18.169			
21,500.00	12,399.00	19,550.12	10,418.00	157.66	155.27	5.77	-9,157.01	-677.51	1,991.08	1,880.43	110.65	17.994			
21,600.00	12,399.00	19,650.12	10,418.00	159.25	156.88	5.77	-9,257.00	-676.51	1,991.08	1,879.36	111.72	17.822			
21,700.00	12,399.00	19,750.12	10,418.00	160.84	158.48	5.77	-9,357.00	-675.52	1,991.08	1,878.29	112.79	17.653			
21,800.00	12,399.00	19,850.12	10,418.00	162.42	160.08	5.77	-9,456.99	-674.53	1,991.08	1,877.22	113.86	17.487			
21,900.00	12,399.00	19,950.12	10,418.00	164.01	161.68	5.77	-9,556.99	-673.54	1,991.08	1,876.15	114.93	17.324			
22,000.00	12,399.00	20,050.12	10,418.00	165.60	163.29	5.77	-9,656.98	-672.54	1,991.08	1,875.08	116.00	17.164			
22,100.00	12,399.00	20,150.12	10,418.00	167.19	164.90	5.77	-9,756.98	-671.55	1,991.08	1,874.01	117.07	17.007			
22,200.00	12,399.00	20,250.12	10,418.00	168.79	166.50	5.77	-9,856.97	-670.56	1,991.08	1,872.94	118.14	16.853			
22,300.00	12,399.00	20,350.12	10,418.00	170.38	168.11	5.77	-9,956.97	-669.57	1,991.08	1,871.87	119.22	16.701			
22,400.00	12,399.00	20,450.12	10,418.00	171.98	169.72	5.77	-10,056.96	-668.57	1,991.08	1,870.79	120.29	16.552			
22,500.00	12,399.00	20,550.12	10,418.00	173.57	171.33	5.77	-10,156.96	-667.58	1,991.08	1,869.72	121.37	16.406			
22,600.00	12,399.00	20,650.12	10,418.00	175.17	172.94	5.77	-10,256.95	-666.59	1,991.09	1,868.64	122.44	16.261			
22,700.00	12,399.00	20,750.12	10,418.00	176.77	174.55	5.77	-10,356.95	-665.60	1,991.09	1,867.57	123.52	16.120			
22,800.00	12,399.00	20,850.12	10,418.00	178.37	176.16	5.77	-10,456.94	-664.60	1,991.09	1,866.49	124.60	15.980			
22,900.00	12,399.00	20,950.12	10,418.00	179.97	177.77	5.77	-10,556.94	-663.61	1,991.09	1,865.41	125.68	15.843			
23,000.00	12,399.00	21,050.12	10,418.00	181.57	179.39	5.77	-10,656.93	-662.62	1,991.09	1,864.33	126.76	15.708			
23,100.00	12,399.00	21,150.12	10,418.00	183.17	181.00	5.77	-10,756.93	-661.63	1,991.09	1,863.25	127.84	15.575			
23,200.00	12,399.00	21,250.12	10,418.00	184.77	182.61	5.77	-10,856.92	-660.63	1,991.09	1,862.17	128.92	15.444			
23,300.00	12,399.00	21,350.12	10,418.00	186.38	184.23	5.77	-10,956.92	-659.64	1,991.09	1,861.09	130.00	15.316			
23,400.00	12,399.00	21,450.12	10,418.00	187.98	185.85	5.77	-11,056.91	-658.65	1,991.09	1,860.00	131.08	15.189			
23,500.00	12,399.00	21,550.12	10,418.00	189.58	187.46	5.77	-11,156.91	-657.66	1,991.09	1,858.92	132.17	15.065			
23,600.00	12,399.00	21,650.12	10,418.00	191.19	189.08	5.77	-11,256.90	-656.66	1,991.09	1,857.84	133.25	14.943			
23,700.00	12,399.00	21,750.12	10,418.00	192.80	190.70	5.77	-11,356.90	-655.67	1,991.09	1,856.75	134.33	14.822			
23,800.00	12,399.00	21,850.12	10,418.00	194.41	192.32	5.77	-11,456.89	-654.68	1,991.09	1,855.67	135.42	14.703			
23,807.85	12,399.00	21,857.97	10,418.00	194.53	192.44	5.77	-11,464.74	-654.60	1,991.09	1,855.59	135.50	14.694			
23,874.38	12,399.00	21,923.68	10,418.00	195.60	193.51	5.77	-11,530.44	-653.95	1,991.09	1,854.87	136.22	14.616			

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 804H
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 804H	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	0.00	0.00	0.00	0.00	152.89	-74.59	38.19	83.80					
100.00	100.00	100.00	100.00	0.13	0.13	152.89	-74.59	38.19	83.80	83.62	0.18	472.260		
200.00	200.00	200.00	200.00	0.48	0.48	152.89	-74.59	38.19	83.80	83.11	0.68	122.438		
300.00	300.00	300.00	300.00	0.84	0.84	152.89	-74.59	38.19	83.80	82.60	1.19	70.337		
400.00	400.00	400.00	400.00	1.20	1.20	152.89	-74.59	38.19	83.80	82.10	1.70	49.341		
500.00	500.00	500.00	500.00	1.56	1.56	152.89	-74.59	38.19	83.80	81.59	2.21	37.998		
600.00	600.00	600.00	600.00	1.92	1.92	152.89	-74.59	38.19	83.80	81.08	2.71	30.896		
700.00	700.00	700.00	700.00	2.28	2.28	152.89	-74.59	38.19	83.80	80.58	3.22	26.030		
800.00	800.00	800.00	800.00	2.63	2.63	152.89	-74.59	38.19	83.80	80.07	3.73	22.489		
900.00	900.00	900.00	900.00	2.99	2.99	152.89	-74.59	38.19	83.80	79.56	4.23	19.795		
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	152.89	-74.59	38.19	83.80	79.06	4.74	17.678		
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	152.89	-74.59	38.19	83.80	78.55	5.25	15.970		
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	152.89	-74.59	38.19	83.80	78.04	5.75	14.563		
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	152.89	-74.59	38.19	83.80	77.53	6.26	13.384		
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	152.89	-74.59	38.19	83.80	77.03	6.77	12.381		
1,500.00	1,500.00	1,500.00	1,500.00	5.14	5.14	152.89	-74.59	38.19	83.80	76.52	7.27	11.519		
1,600.00	1,600.00	1,600.00	1,600.00	5.50	5.50	152.89	-74.59	38.19	83.80	76.01	7.78	10.768		
1,700.00	1,700.00	1,700.00	1,700.00	5.86	5.86	152.89	-74.59	38.19	83.80	75.51	8.29	10.110		
1,800.00	1,800.00	1,800.00	1,800.00	6.22	6.22	152.89	-74.59	38.19	83.80	75.00	8.80	9.527		
1,900.00	1,900.00	1,900.00	1,900.00	6.58	6.58	152.89	-74.59	38.19	83.80	74.49	9.30	9.008		
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	152.89	-74.59	38.19	83.80	73.99	9.81	8.542 CC, ES		
2,100.00	2,099.99	2,099.99	2,099.99	7.29	7.29	-133.15	-74.59	38.19	84.69	74.37	10.31	8.212		
2,200.00	2,199.91	2,199.91	2,199.91	7.64	7.65	-135.00	-74.59	38.19	87.42	76.61	10.81	8.086 SF		
2,300.00	2,299.69	2,299.12	2,299.11	7.99	8.00	-138.58	-74.17	39.40	92.47	81.16	11.30	8.180		
2,400.00	2,399.27	2,397.61	2,397.52	8.34	8.35	-144.03	-72.91	43.01	100.76	88.96	11.79	8.544		
2,458.69	2,457.58	2,454.92	2,454.74	8.55	8.55	-147.72	-71.79	46.21	107.49	95.41	12.08	8.900		
2,500.00	2,498.60	2,495.06	2,494.76	8.70	8.69	-150.38	-70.84	48.94	112.98	100.71	12.28	9.204		
2,600.00	2,597.88	2,591.56	2,590.87	9.06	9.03	-156.50	-67.99	57.12	128.09	115.34	12.75	10.047		
2,700.00	2,697.16	2,687.08	2,685.76	9.43	9.37	-162.04	-64.38	67.47	145.87	132.66	13.21	11.041		
2,800.00	2,796.44	2,781.51	2,779.26	9.80	9.71	-166.95	-60.04	79.90	166.37	152.71	13.66	12.179		
2,900.00	2,895.72	2,876.91	2,873.45	10.17	10.06	-171.23	-55.05	94.21	189.24	175.12	14.12	13.400		
3,000.00	2,995.00	2,973.32	2,968.61	10.54	10.43	-174.65	-49.95	108.82	213.05	198.46	14.60	14.593		
3,100.00	3,094.28	3,069.73	3,063.77	10.92	10.79	-177.39	-44.86	123.43	237.45	222.37	15.08	15.776		
3,200.00	3,193.56	3,166.14	3,158.94	11.30	11.16	-179.62	-39.76	138.04	262.26	246.70	15.56	16.851		
3,300.00	3,292.84	3,262.55	3,254.10	11.68	11.54	-178.53	-34.67	152.65	287.38	271.33	16.05	17.907		
3,400.00	3,392.12	3,358.96	3,349.26	12.06	11.91	-176.99	-29.57	167.26	312.74	296.20	16.54	18.912		
3,500.00	3,491.40	3,455.37	3,444.42	12.45	12.29	-175.67	-24.48	181.87	338.28	321.25	17.03	19.868		
3,600.00	3,590.68	3,551.78	3,539.58	12.83	12.68	-174.54	-19.38	196.48	363.97	346.45	17.52	20.777		
3,700.00	3,689.96	3,648.20	3,634.74	13.22	13.06	-173.55	-14.29	211.09	389.77	371.76	18.01	21.641		
3,800.00	3,789.24	3,744.61	3,729.90	13.60	13.45	-172.69	-9.19	225.70	415.66	397.16	18.51	22.462		
3,900.00	3,888.52	3,841.02	3,825.07	13.99	13.84	-171.93	-4.10	240.31	441.64	422.64	19.00	23.244		
4,000.00	3,987.80	3,937.43	3,920.23	14.38	14.23	-171.25	1.00	254.92	467.68	448.18	19.50	23.987		
4,100.00	4,087.08	4,033.84	4,015.39	14.77	14.62	-170.65	6.10	269.53	493.77	473.77	19.99	24.695		
4,200.00	4,186.36	4,130.25	4,110.55	15.16	15.02	-170.10	11.19	284.13	519.91	499.42	20.49	25.370		
4,300.00	4,285.64	4,226.66	4,205.71	15.56	15.42	-169.61	16.29	298.74	546.09	525.10	20.99	26.014		
4,400.00	4,384.92	4,323.07	4,300.87	15.95	15.82	-169.16	21.38	313.35	572.30	550.81	21.49	26.628		
4,500.00	4,484.20	4,419.48	4,396.03	16.34	16.21	-168.76	26.48	327.96	598.54	576.55	21.99	27.215		
4,600.00	4,583.48	4,515.89	4,491.20	16.74	16.62	-168.38	31.57	342.57	624.81	602.32	22.49	27.776		
4,700.00	4,682.76	4,612.31	4,586.36	17.13	17.02	-168.04	36.67	357.18	651.10	628.11	23.00	28.313		
4,800.00	4,782.04	4,708.72	4,681.52	17.53	17.42	-167.72	41.76	371.79	677.41	653.92	23.50	28.827		
4,900.00	4,881.32	4,805.13	4,776.68	17.92	17.82	-167.43	46.86	386.40	703.74	679.74	24.00	29.320		
5,000.00	4,980.60	4,901.54	4,871.84	18.32	18.23	-167.15	51.95	401.01	730.09	705.58	24.51	29.792		

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 804H
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 804H	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	5,079.88	4,997.95	4,967.00	18.71	18.63	166.90	57.05	415.62	756.45	731.44	25.01	30.245		
5,200.00	5,179.16	5,094.36	5,062.16	19.11	19.04	166.66	62.14	430.23	782.82	757.31	25.52	30.681		
5,300.00	5,278.44	5,190.77	5,157.33	19.51	19.45	166.44	67.24	444.84	809.21	783.19	26.02	31.099		
5,400.00	5,377.72	5,287.18	5,252.49	19.90	19.86	166.24	72.33	459.45	835.60	809.08	26.53	31.501		
5,500.00	5,477.00	5,383.59	5,347.65	20.30	20.27	166.04	77.43	474.06	862.01	834.97	27.03	31.888		
5,600.00	5,576.28	5,480.01	5,442.81	20.70	20.67	165.86	82.52	488.67	888.42	860.88	27.54	32.261		
5,700.00	5,675.56	5,576.42	5,537.97	21.10	21.08	165.69	87.62	503.27	914.84	886.79	28.05	32.620		
5,800.00	5,774.84	5,672.83	5,633.13	21.50	21.49	165.52	92.72	517.88	941.27	912.72	28.55	32.966		
5,900.00	5,874.12	5,769.24	5,728.29	21.90	21.91	165.37	97.81	532.49	967.70	938.64	29.06	33.300		
6,000.00	5,973.40	5,865.65	5,823.46	22.30	22.32	165.23	102.91	547.10	994.14	964.58	29.57	33.623		
6,100.00	6,072.68	5,962.06	5,918.62	22.70	22.73	165.09	108.00	561.71	1,020.59	990.52	30.08	33.934		
6,200.00	6,171.96	6,058.47	6,013.78	23.10	23.14	164.96	113.10	576.32	1,047.04	1,016.46	30.58	34.235		
6,300.00	6,271.24	6,154.88	6,108.94	23.50	23.55	164.83	118.19	590.93	1,073.50	1,042.41	31.09	34.526		
6,400.00	6,370.52	6,251.29	6,204.10	23.90	23.97	164.71	123.29	605.54	1,099.96	1,068.36	31.60	34.807		
6,500.00	6,469.80	6,347.71	6,299.26	24.30	24.38	164.60	128.38	620.15	1,126.43	1,094.32	32.11	35.080		
6,600.00	6,569.08	6,444.12	6,394.42	24.70	24.79	164.49	133.48	634.76	1,152.90	1,120.28	32.62	35.343		
6,700.00	6,668.36	6,540.53	6,489.59	25.10	25.21	164.39	138.57	649.37	1,179.37	1,146.24	33.13	35.599		
6,800.00	6,767.64	6,636.94	6,584.75	25.50	25.62	164.29	143.67	663.98	1,205.85	1,172.21	33.64	35.846		
6,900.00	6,866.91	6,733.35	6,679.91	25.90	26.04	164.20	148.76	678.59	1,232.32	1,198.18	34.15	36.086		
6,934.75	6,901.42	6,770.44	6,716.52	26.04	26.20	164.16	150.72	684.19	1,241.52	1,207.17	34.35	36.145		
7,000.00	6,966.26	6,862.08	6,807.18	26.30	26.58	164.16	155.11	696.79	1,257.38	1,222.54	34.84	36.090		
7,100.00	7,065.85	7,005.03	6,949.18	26.68	27.15	164.15	160.53	712.33	1,276.83	1,241.26	35.57	35.896		
7,200.00	7,165.65	7,150.34	7,094.04	27.05	27.70	164.16	164.25	722.98	1,290.28	1,254.02	36.26	35.584		
7,300.00	7,265.57	7,297.15	7,240.72	27.41	28.21	164.17	166.15	728.45	1,297.62	1,260.71	36.91	35.157		
7,393.44	7,359.00	7,415.43	7,359.00	27.72	28.60	89.58	166.41	729.19	1,299.22	1,261.79	37.43	34.713		
7,400.00	7,365.56	7,422.00	7,365.56	27.74	28.62	89.58	166.41	729.19	1,299.22	1,261.76	37.46	34.684		
7,500.00	7,465.56	7,522.00	7,465.56	28.08	28.94	89.58	166.41	729.19	1,299.22	1,261.28	37.94	34.240		
7,600.00	7,565.56	7,622.00	7,565.56	28.41	29.26	89.58	166.41	729.19	1,299.22	1,260.79	38.43	33.807		
7,700.00	7,665.56	7,722.00	7,665.56	28.74	29.59	89.58	166.41	729.19	1,299.22	1,260.30	38.92	33.385		
7,800.00	7,765.56	7,822.00	7,765.56	29.07	29.91	89.58	166.41	729.19	1,299.22	1,259.82	39.40	32.972		
7,900.00	7,865.56	7,922.00	7,865.56	29.41	30.24	89.58	166.41	729.19	1,299.22	1,259.33	39.89	32.569		
8,000.00	7,965.56	8,022.00	7,965.56	29.74	30.56	89.58	166.41	729.19	1,299.22	1,258.84	40.38	32.176		
8,100.00	8,065.56	8,122.00	8,065.56	30.08	30.89	89.58	166.41	729.19	1,299.22	1,258.35	40.87	31.791		
8,200.00	8,165.56	8,222.00	8,165.56	30.41	31.22	89.58	166.41	729.19	1,299.22	1,257.86	41.36	31.416		
8,300.00	8,265.56	8,322.00	8,265.56	30.75	31.55	89.58	166.41	729.19	1,299.22	1,257.37	41.85	31.048		
8,400.00	8,365.56	8,422.00	8,365.56	31.09	31.88	89.58	166.41	729.19	1,299.22	1,256.88	42.33	30.689		
8,500.00	8,465.56	8,522.00	8,465.56	31.42	32.21	89.58	166.41	729.19	1,299.22	1,256.39	42.82	30.338		
8,600.00	8,565.56	8,622.00	8,565.56	31.76	32.54	89.58	166.41	729.19	1,299.22	1,255.90	43.32	29.995		
8,700.00	8,665.56	8,722.00	8,665.56	32.10	32.87	89.58	166.41	729.19	1,299.22	1,255.41	43.81	29.658		
8,800.00	8,765.56	8,822.00	8,765.56	32.44	33.20	89.58	166.41	729.19	1,299.22	1,254.92	44.30	29.330		
8,900.00	8,865.56	8,922.00	8,865.56	32.78	33.53	89.58	166.41	729.19	1,299.22	1,254.43	44.79	29.008		
9,000.00	8,965.56	9,022.00	8,965.56	33.12	33.86	89.58	166.41	729.19	1,299.22	1,253.94	45.28	28.693		
9,100.00	9,065.56	9,122.00	9,065.56	33.45	34.20	89.58	166.41	729.19	1,299.22	1,253.45	45.77	28.384		
9,200.00	9,165.56	9,222.00	9,165.56	33.79	34.53	89.58	166.41	729.19	1,299.22	1,252.95	46.27	28.082		
9,300.00	9,265.56	9,322.00	9,265.56	34.14	34.87	89.58	166.41	729.19	1,299.22	1,252.46	46.76	27.786		
9,400.00	9,365.56	9,422.00	9,365.56	34.48	35.20	89.58	166.41	729.19	1,299.22	1,251.97	47.25	27.496		
9,500.00	9,465.56	9,522.00	9,465.56	34.82	35.54	89.58	166.41	729.19	1,299.22	1,251.48	47.74	27.212		
9,600.00	9,565.56	9,622.00	9,565.56	35.16	35.87	89.58	166.41	729.19	1,299.22	1,250.98	48.24	26.933		
9,700.00	9,665.56	9,722.00	9,665.56	35.50	36.21	89.58	166.41	729.19	1,299.22	1,250.49	48.73	26.660		
9,800.00	9,765.56	9,822.00	9,765.56	35.84	36.54	89.58	166.41	729.19	1,299.22	1,249.99	49.23	26.393		
9,806.69	9,772.25	9,828.68	9,772.25	35.87	36.57	89.58	166.41	729.19	1,299.22	1,249.96	49.26	26.375		
9,900.00	9,865.56	9,920.76	9,863.99	36.19	36.84	89.88	159.78	729.25	1,299.26	1,249.56	49.70	26.143		

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 804H
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 804H	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	9,965.56	10,014.54	9,955.11	36.53	37.10	90.84	138.04	729.47	1,299.65	1,249.51	50.14	25.921			
10,100.00	10,065.56	10,100.00	10,034.06	36.87	37.30	92.27	105.53	729.80	1,301.20	1,250.65	50.54	25.745			
10,200.00	10,165.56	10,173.22	10,097.23	37.21	37.45	93.89	68.60	730.16	1,304.96	1,254.07	50.88	25.646			
10,300.00	10,265.56	10,236.22	10,147.43	37.56	37.56	95.55	30.60	730.55	1,312.00	1,260.86	51.14	25.653			
10,400.00	10,365.56	10,289.36	10,186.32	37.90	37.63	97.12	-5.58	730.91	1,323.22	1,271.93	51.29	25.798			
10,500.00	10,465.56	10,334.05	10,216.32	38.25	37.69	98.55	-38.69	731.24	1,339.27	1,287.95	51.31	26.100			
10,600.00	10,565.56	10,371.74	10,239.55	38.59	37.73	99.82	-68.36	731.54	1,360.54	1,309.34	51.20	26.573			
10,700.00	10,665.56	10,400.00	10,255.66	38.94	37.76	100.81	-91.57	731.77	1,387.23	1,336.30	50.93	27.238			
10,800.00	10,765.56	10,430.94	10,271.97	39.28	37.79	101.92	-117.87	732.03	1,419.32	1,368.74	50.58	28.060			
10,900.00	10,865.56	10,450.00	10,281.29	39.63	37.81	102.62	-134.48	732.20	1,456.73	1,406.64	50.09	29.083			
11,000.00	10,965.56	10,474.69	10,292.54	39.97	37.83	103.53	-156.46	732.42	1,499.17	1,449.59	49.57	30.241			
11,100.00	11,065.56	10,500.00	10,303.08	40.32	37.85	104.48	-179.46	732.65	1,546.44	1,497.42	49.02	31.545			
11,200.00	11,165.56	10,500.00	10,303.08	40.66	37.85	104.48	-179.46	732.65	1,598.12	1,549.82	48.29	33.094			
11,300.00	11,265.56	10,521.74	10,311.32	41.01	37.87	105.31	-199.58	732.85	1,653.83	1,606.12	47.70	34.668			
11,400.00	11,365.56	10,550.00	10,320.87	41.36	37.90	106.39	-226.17	733.12	1,713.57	1,666.40	47.17	36.327			
11,500.00	11,465.56	10,550.00	10,320.87	41.70	37.90	106.39	-226.17	733.12	1,776.30	1,729.82	46.49	38.211			
11,600.00	11,565.56	10,550.00	10,320.87	42.05	37.90	106.39	-226.17	733.12	1,842.33	1,796.49	45.84	40.191			
11,700.00	11,665.56	10,550.00	10,320.87	42.40	37.90	106.39	-226.17	733.12	1,911.32	1,866.08	45.24	42.251			
11,800.00	11,765.56	10,571.78	10,327.33	42.74	37.92	107.22	-246.97	733.32	1,982.51	1,937.70	44.81	44.240			
11,860.48	11,826.04	10,576.32	10,328.58	42.95	37.93	107.40	-251.33	733.37	2,026.79	1,982.27	44.53	45.518			
11,900.00	11,865.53	10,579.49	10,329.43	43.08	37.93	-67.89	-254.39	733.40	2,055.86	2,011.51	44.35	46.360			
11,950.00	11,915.20	10,600.00	10,334.52	43.24	37.96	-62.45	-274.26	733.60	2,092.30	2,048.10	44.20	47.333			
12,000.00	11,964.19	10,600.00	10,334.52	43.39	37.96	-58.13	-274.26	733.60	2,127.54	2,083.59	43.95	48.406			
12,050.00	12,012.13	10,600.00	10,334.52	43.53	37.96	-54.24	-274.26	733.60	2,161.73	2,118.02	43.71	49.460			
12,100.00	12,058.65	10,600.00	10,334.52	43.66	37.96	-50.77	-274.26	733.60	2,194.67	2,151.20	43.47	50.488			
12,150.00	12,103.40	10,600.00	10,334.52	43.78	37.96	-47.70	-274.26	733.60	2,226.16	2,182.92	43.24	51.481			
12,200.00	12,146.04	10,619.20	10,338.64	43.90	37.98	-44.71	-293.00	733.79	2,255.69	2,212.58	43.12	52.316			
12,250.00	12,186.24	10,627.86	10,340.29	44.00	37.99	-42.30	-301.51	733.87	2,283.41	2,240.46	42.95	53.164			
12,300.00	12,223.71	10,650.00	10,343.93	44.09	38.03	-40.07	-323.34	734.09	2,309.19	2,266.34	42.85	53.889			
12,350.00	12,258.14	10,650.00	10,343.93	44.17	38.03	-38.41	-323.34	734.09	2,332.43	2,289.75	42.68	54.653			
12,400.00	12,289.29	10,650.00	10,343.93	44.24	38.03	-37.00	-323.34	734.09	2,353.46	2,310.94	42.52	55.345			
12,450.00	12,316.92	10,650.00	10,343.93	44.30	38.03	-35.80	-323.34	734.09	2,372.19	2,329.80	42.39	55.956			
12,500.00	12,340.80	10,676.63	10,347.18	44.36	38.07	-34.67	-349.77	734.35	2,387.87	2,345.50	42.37	56.355			
12,550.00	12,360.77	10,700.00	10,349.02	44.43	38.12	-33.80	-373.07	734.59	2,401.27	2,358.92	42.35	56.697			
12,600.00	12,376.67	10,700.00	10,349.02	44.50	38.12	-33.22	-373.07	734.59	2,411.62	2,369.33	42.30	57.018			
12,650.00	12,388.38	10,700.00	10,349.02	44.59	38.12	-32.79	-373.07	734.59	2,419.38	2,377.11	42.27	57.235			
12,700.00	12,395.81	10,719.48	10,349.83	44.69	38.16	-32.49	-392.53	734.78	2,424.17	2,381.85	42.32	57.288			
12,750.00	12,398.90	10,733.47	10,350.00	44.81	38.19	-32.38	-406.52	734.92	2,426.16	2,383.79	42.38	57.254			
12,760.48	12,399.00	10,733.47	10,350.00	44.83	38.19	-32.38	-406.52	734.92	2,426.21	2,383.82	42.39	57.239			
12,764.34	12,399.00	10,733.74	10,350.00	44.84	38.19	-32.38	-406.79	734.93	2,426.20	2,383.81	42.39	57.232			
12,800.00	12,399.00	10,769.40	10,350.00	44.94	38.28	-32.38	-442.44	735.28	2,426.20	2,383.71	42.49	57.099			
12,900.00	12,399.00	10,869.40	10,350.00	45.25	38.57	-32.38	-542.44	736.28	2,426.21	2,383.40	42.80	56.681			
13,000.00	12,399.00	10,969.40	10,350.00	45.62	38.95	-32.38	-642.43	737.28	2,426.21	2,383.04	43.17	56.201			
13,100.00	12,399.00	11,069.40	10,350.00	46.05	39.41	-32.38	-742.43	738.29	2,426.22	2,382.63	43.59	55.663			
13,200.00	12,399.00	11,169.40	10,350.00	46.53	39.93	-32.38	-842.42	739.29	2,426.22	2,382.16	44.06	55.070			
13,300.00	12,399.00	11,269.40	10,350.00	47.07	40.52	-32.38	-942.42	740.29	2,426.22	2,381.65	44.57	54.431			
13,400.00	12,399.00	11,369.40	10,350.00	47.65	41.16	-32.38	-1,042.41	741.29	2,426.23	2,381.09	45.14	53.749			
13,500.00	12,399.00	11,469.40	10,350.00	48.29	41.86	-32.38	-1,142.41	742.29	2,426.23	2,380.48	45.75	53.031			
13,600.00	12,399.00	11,569.40	10,350.00	48.97	42.61	-32.38	-1,242.40	743.29	2,426.23	2,379.83	46.41	52.282			
13,700.00	12,399.00	11,669.40	10,350.00	49.70	43.42	-32.38	-1,342.40	744.29	2,426.24	2,379.13	47.10	51.508			
13,800.00	12,399.00	11,769.40	10,350.00	50.47	44.27	-32.38	-1,442.39	745.29	2,426.24	2,378.40	47.84	50.714			
13,900.00	12,399.00	11,869.40	10,350.00	51.29	45.16	-32.38	-1,542.39	746.30	2,426.24	2,377.63	48.62	49.905			

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 804H
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 804H	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	12,399.00	11,969.40	10,350.00	52.14	46.10	-32.38	-1,642.38	747.30	2,426.25	2,376.82	49.43	49.087		
14,100.00	12,399.00	12,069.40	10,350.00	53.03	47.07	-32.38	-1,742.38	748.30	2,426.25	2,375.98	50.27	48.261		
14,200.00	12,399.00	12,169.40	10,350.00	53.95	48.08	-32.38	-1,842.37	749.30	2,426.26	2,375.10	51.15	47.432		
14,300.00	12,399.00	12,269.40	10,350.00	54.91	49.13	-32.38	-1,942.37	750.30	2,426.26	2,374.20	52.06	46.604		
14,400.00	12,399.00	12,369.40	10,350.00	55.90	50.21	-32.38	-2,042.36	751.30	2,426.26	2,373.26	53.00	45.778		
14,500.00	12,399.00	12,469.40	10,350.00	56.93	51.31	-32.38	-2,142.36	752.30	2,426.27	2,372.30	53.97	44.957		
14,600.00	12,399.00	12,569.40	10,350.00	57.98	52.45	-32.38	-2,242.35	753.31	2,426.27	2,371.31	54.96	44.144		
14,700.00	12,399.00	12,669.40	10,350.00	59.06	53.61	-32.38	-2,342.35	754.31	2,426.27	2,370.29	55.98	43.340		
14,800.00	12,399.00	12,769.40	10,350.00	60.16	54.80	-32.38	-2,442.34	755.31	2,426.28	2,369.25	57.02	42.549		
14,900.00	12,399.00	12,869.40	10,350.00	61.29	56.01	-32.38	-2,542.34	756.31	2,426.28	2,368.19	58.09	41.770		
15,000.00	12,399.00	12,969.40	10,350.00	62.44	57.25	-32.38	-2,642.33	757.31	2,426.28	2,367.11	59.17	41.004		
15,100.00	12,399.00	13,069.40	10,350.00	63.61	58.50	-32.38	-2,742.33	758.31	2,426.29	2,366.01	60.28	40.252		
15,200.00	12,399.00	13,169.40	10,350.00	64.81	59.78	-32.38	-2,842.32	759.31	2,426.29	2,364.89	61.40	39.515		
15,300.00	12,399.00	13,269.40	10,350.00	66.02	61.07	-32.38	-2,942.32	760.31	2,426.30	2,363.75	62.54	38.794		
15,400.00	12,399.00	13,369.40	10,350.00	67.26	62.38	-32.38	-3,042.31	761.32	2,426.30	2,362.60	63.70	38.090		
15,500.00	12,399.00	13,469.40	10,350.00	68.51	63.70	-32.38	-3,142.31	762.32	2,426.30	2,361.43	64.87	37.401		
15,600.00	12,399.00	13,569.40	10,350.00	69.77	65.04	-32.38	-3,242.30	763.32	2,426.31	2,360.24	66.06	36.728		
15,700.00	12,399.00	13,669.40	10,350.00	71.06	66.39	-32.38	-3,342.30	764.32	2,426.31	2,359.04	67.27	36.070		
15,800.00	12,399.00	13,769.40	10,350.00	72.35	67.76	-32.38	-3,442.29	765.32	2,426.31	2,357.83	68.48	35.430		
15,900.00	12,399.00	13,869.40	10,350.00	73.67	69.14	-32.38	-3,542.29	766.32	2,426.32	2,356.61	69.71	34.806		
16,000.00	12,399.00	13,969.40	10,350.00	74.99	70.53	-32.38	-3,642.28	767.32	2,426.32	2,355.37	70.95	34.198		
16,100.00	12,399.00	14,069.40	10,350.00	76.33	71.93	-32.38	-3,742.28	768.32	2,426.32	2,354.12	72.20	33.605		
16,200.00	12,399.00	14,169.40	10,350.00	77.68	73.34	-32.38	-3,842.27	769.33	2,426.33	2,352.86	73.46	33.028		
16,300.00	12,399.00	14,269.40	10,350.00	79.04	74.76	-32.38	-3,942.27	770.33	2,426.33	2,351.60	74.73	32.466		
16,400.00	12,399.00	14,369.40	10,350.00	80.41	76.20	-32.38	-4,042.26	771.33	2,426.34	2,350.32	76.02	31.919		
16,500.00	12,399.00	14,469.40	10,350.00	81.80	77.64	-32.38	-4,142.26	772.33	2,426.34	2,349.03	77.31	31.387		
16,600.00	12,399.00	14,569.40	10,350.00	83.19	79.08	-32.38	-4,242.25	773.33	2,426.34	2,347.74	78.60	30.868		
16,700.00	12,399.00	14,669.40	10,350.00	84.59	80.54	-32.38	-4,342.25	774.33	2,426.35	2,346.44	79.91	30.363		
16,800.00	12,399.00	14,769.40	10,350.00	86.00	82.00	-32.38	-4,442.24	775.33	2,426.35	2,345.13	81.22	29.872		
16,900.00	12,399.00	14,869.40	10,350.00	87.42	83.47	-32.38	-4,542.24	776.33	2,426.35	2,343.81	82.55	29.394		
17,000.00	12,399.00	14,969.40	10,350.00	88.85	84.95	-32.38	-4,642.23	777.34	2,426.36	2,342.48	83.87	28.929		
17,100.00	12,399.00	15,069.40	10,350.00	90.28	86.43	-32.38	-4,742.23	778.34	2,426.36	2,341.15	85.21	28.475		
17,200.00	12,399.00	15,169.40	10,350.00	91.72	87.92	-32.38	-4,842.22	779.34	2,426.36	2,339.81	86.55	28.034		
17,300.00	12,399.00	15,269.40	10,350.00	93.17	89.42	-32.38	-4,942.22	780.34	2,426.37	2,338.47	87.90	27.605		
17,400.00	12,399.00	15,369.40	10,350.00	94.63	90.92	-32.38	-5,042.21	781.34	2,426.37	2,337.13	89.25	27.188		
17,500.00	12,399.00	15,469.40	10,350.00	96.09	92.42	-32.38	-5,142.21	782.34	2,426.38	2,335.77	90.60	26.780		
17,600.00	12,399.00	15,569.40	10,350.00	97.56	93.93	-32.39	-5,242.20	783.34	2,426.38	2,334.41	91.97	26.383		
17,700.00	12,399.00	15,669.40	10,350.00	99.03	95.45	-32.39	-5,342.20	784.34	2,426.38	2,333.05	93.34	25.996		
17,800.00	12,399.00	15,769.40	10,350.00	100.51	96.97	-32.39	-5,442.19	785.35	2,426.39	2,331.68	94.71	25.620		
17,900.00	12,399.00	15,869.40	10,350.00	102.00	98.49	-32.39	-5,542.19	786.35	2,426.39	2,330.31	96.08	25.253		
18,000.00	12,399.00	15,969.40	10,350.00	103.48	100.02	-32.39	-5,642.18	787.35	2,426.39	2,328.93	97.46	24.895		
18,100.00	12,399.00	16,069.40	10,350.00	104.98	101.55	-32.39	-5,742.18	788.35	2,426.40	2,327.55	98.85	24.547		
18,200.00	12,399.00	16,169.40	10,350.00	106.48	103.08	-32.39	-5,842.17	789.35	2,426.40	2,326.17	100.24	24.207		
18,300.00	12,399.00	16,269.40	10,350.00	107.98	104.62	-32.39	-5,942.17	790.35	2,426.40	2,324.78	101.63	23.876		
18,400.00	12,399.00	16,369.40	10,350.00	109.49	106.17	-32.39	-6,042.16	791.35	2,426.41	2,323.39	103.02	23.553		
18,500.00	12,399.00	16,469.40	10,350.00	111.00	107.71	-32.39	-6,142.16	792.36	2,426.41	2,321.99	104.42	23.237		
18,600.00	12,399.00	16,569.40	10,350.00	112.52	109.26	-32.39	-6,242.15	793.36	2,426.42	2,320.60	105.82	22.930		
18,700.00	12,399.00	16,669.40	10,350.00	114.04	110.81	-32.39	-6,342.15	794.36	2,426.42	2,319.20	107.22	22.630		
18,800.00	12,399.00	16,769.40	10,350.00	115.56	112.37	-32.39	-6,442.14	795.36	2,426.42	2,317.79	108.63	22.337		
18,900.00	12,399.00	16,869.40	10,350.00	117.09	113.92	-32.39	-6,542.14	796.36	2,426.43	2,316.39	110.04	22.051		
19,000.00	12,399.00	16,969.40	10,350.00	118.62	115.48	-32.39	-6,642.13	797.36	2,426.43	2,314.98	111.45	21.771		
19,100.00	12,399.00	17,069.40	10,350.00	120.15	117.04	-32.39	-6,742.13	798.36	2,426.43	2,313.57	112.87	21.499		

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 804H
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 804H	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	12,399.00	17,169.40	10,350.00	121.69	118.61	-32.39	-6,842.12	799.36	2,426.44	2,312.16	114.28	21.232		
19,300.00	12,399.00	17,269.40	10,350.00	123.22	120.18	-32.39	-6,942.12	800.37	2,426.44	2,310.74	115.70	20.972		
19,400.00	12,399.00	17,369.40	10,350.00	124.77	121.74	-32.39	-7,042.11	801.37	2,426.45	2,309.32	117.12	20.717		
19,500.00	12,399.00	17,469.40	10,350.00	126.31	123.32	-32.39	-7,142.11	802.37	2,426.45	2,307.91	118.54	20.469		
19,600.00	12,399.00	17,569.40	10,350.00	127.86	124.89	-32.39	-7,242.10	803.37	2,426.45	2,306.49	119.97	20.226		
19,700.00	12,399.00	17,669.40	10,350.00	129.41	126.46	-32.39	-7,342.10	804.37	2,426.46	2,305.06	121.39	19.988		
19,800.00	12,399.00	17,769.40	10,350.00	130.96	128.04	-32.39	-7,442.09	805.37	2,426.46	2,303.64	122.82	19.756		
19,900.00	12,399.00	17,869.40	10,350.00	132.52	129.62	-32.39	-7,542.09	806.37	2,426.46	2,302.21	124.25	19.529		
20,000.00	12,399.00	17,969.40	10,350.00	134.07	131.20	-32.39	-7,642.08	807.37	2,426.47	2,300.78	125.68	19.306		
20,100.00	12,399.00	18,069.40	10,350.00	135.63	132.78	-32.39	-7,742.08	808.38	2,426.47	2,299.36	127.11	19.089		
20,200.00	12,399.00	18,169.40	10,350.00	137.20	134.37	-32.39	-7,842.07	809.38	2,426.47	2,297.93	128.55	18.876		
20,300.00	12,399.00	18,269.40	10,350.00	138.76	135.95	-32.39	-7,942.07	810.38	2,426.48	2,296.49	129.98	18.667		
20,400.00	12,399.00	18,369.40	10,350.00	140.32	137.54	-32.39	-8,042.06	811.38	2,426.48	2,295.06	131.42	18.463		
20,500.00	12,399.00	18,469.40	10,350.00	141.89	139.13	-32.39	-8,142.06	812.38	2,426.49	2,293.63	132.86	18.264		
20,600.00	12,399.00	18,569.40	10,350.00	143.46	140.72	-32.39	-8,242.05	813.38	2,426.49	2,292.19	134.30	18.068		
20,700.00	12,399.00	18,669.40	10,350.00	145.03	142.31	-32.39	-8,342.05	814.38	2,426.49	2,290.76	135.74	17.876		
20,800.00	12,399.00	18,769.40	10,350.00	146.61	143.91	-32.39	-8,442.04	815.38	2,426.50	2,289.32	137.18	17.689		
20,900.00	12,399.00	18,869.40	10,350.00	148.18	145.50	-32.39	-8,542.04	816.39	2,426.50	2,287.88	138.62	17.505		
21,000.00	12,399.00	18,969.40	10,350.00	149.76	147.10	-32.39	-8,642.03	817.39	2,426.50	2,286.44	140.06	17.324		
21,100.00	12,399.00	19,069.40	10,350.00	151.34	148.69	-32.39	-8,742.03	818.39	2,426.51	2,285.00	141.51	17.148		
21,200.00	12,399.00	19,169.40	10,350.00	152.92	150.29	-32.39	-8,842.02	819.39	2,426.51	2,283.56	142.95	16.974		
21,300.00	12,399.00	19,269.40	10,350.00	154.50	151.89	-32.39	-8,942.02	820.39	2,426.51	2,282.12	144.40	16.804		
21,400.00	12,399.00	19,369.40	10,350.00	156.08	153.49	-32.39	-9,042.01	821.39	2,426.52	2,280.67	145.84	16.638		
21,500.00	12,399.00	19,469.40	10,350.00	157.66	155.09	-32.39	-9,142.01	822.39	2,426.52	2,279.23	147.29	16.474		
21,600.00	12,399.00	19,569.40	10,350.00	159.25	156.69	-32.39	-9,242.00	823.39	2,426.53	2,277.79	148.74	16.314		
21,700.00	12,399.00	19,669.40	10,350.00	160.84	158.30	-32.39	-9,342.00	824.40	2,426.53	2,276.34	150.19	16.157		
21,800.00	12,399.00	19,769.40	10,350.00	162.42	159.90	-32.39	-9,441.99	825.40	2,426.53	2,274.89	151.64	16.002		
21,900.00	12,399.00	19,869.40	10,350.00	164.01	161.51	-32.39	-9,541.99	826.40	2,426.54	2,273.45	153.09	15.851		
22,000.00	12,399.00	19,969.40	10,350.00	165.60	163.11	-32.39	-9,641.98	827.40	2,426.54	2,272.00	154.54	15.702		
22,100.00	12,399.00	20,069.40	10,350.00	167.19	164.72	-32.39	-9,741.98	828.40	2,426.54	2,270.56	155.99	15.556		
22,200.00	12,399.00	20,169.40	10,350.00	168.79	166.33	-32.39	-9,841.97	829.40	2,426.55	2,269.11	157.44	15.413		
22,300.00	12,399.00	20,269.40	10,350.00	170.38	167.94	-32.39	-9,941.97	830.40	2,426.55	2,267.66	158.89	15.272		
22,400.00	12,399.00	20,369.40	10,350.00	171.98	169.55	-32.39	-10,041.96	831.40	2,426.55	2,266.21	160.34	15.134		
22,500.00	12,399.00	20,469.40	10,350.00	173.57	171.16	-32.39	-10,141.96	832.41	2,426.56	2,264.76	161.79	14.998		
22,500.02	12,399.00	20,469.42	10,350.00	173.57	171.16	-32.39	-10,141.98	832.41	2,426.56	2,264.76	161.79	14.998		
22,600.00	12,399.00	20,529.73	10,350.00	175.17	172.13	-32.39	-10,202.29	833.01	2,426.89	2,263.85	163.03	14.886		
22,700.00	12,399.00	20,529.73	10,350.00	176.77	172.13	-32.39	-10,202.29	833.01	2,430.58	2,266.80	163.78	14.841		
22,800.00	12,399.00	20,529.73	10,350.00	178.37	172.13	-32.39	-10,202.29	833.01	2,438.38	2,274.10	164.27	14.844		
22,900.00	12,399.00	20,529.73	10,350.00	179.97	172.13	-32.39	-10,202.29	833.01	2,450.23	2,285.71	164.52	14.893		
23,000.00	12,399.00	20,529.73	10,350.00	181.57	172.13	-32.39	-10,202.29	833.01	2,466.09	2,301.55	164.54	14.988		
23,100.00	12,399.00	20,529.73	10,350.00	183.17	172.13	-32.39	-10,202.29	833.01	2,485.87	2,321.54	164.32	15.128		
23,200.00	12,399.00	20,529.73	10,350.00	184.77	172.13	-32.39	-10,202.29	833.01	2,509.48	2,345.59	163.89	15.312		
23,300.00	12,399.00	20,529.73	10,350.00	186.38	172.13	-32.39	-10,202.29	833.01	2,536.82	2,373.57	163.25	15.540		
23,400.00	12,399.00	20,529.73	10,350.00	187.98	172.13	-32.39	-10,202.29	833.01	2,567.76	2,405.33	162.43	15.809		
23,500.00	12,399.00	20,529.73	10,350.00	189.58	172.13	-32.39	-10,202.29	833.01	2,602.18	2,440.73	161.45	16.118		
23,600.00	12,399.00	20,529.73	10,350.00	191.19	172.13	-32.39	-10,202.29	833.01	2,639.94	2,479.63	160.31	16.468		
23,700.00	12,399.00	20,529.73	10,350.00	192.80	172.13	-32.39	-10,202.29	833.01	2,680.90	2,521.85	159.05	16.855		
23,800.00	12,399.00	20,529.73	10,350.00	194.41	172.13	-32.39	-10,202.29	833.01	2,724.92	2,567.23	157.69	17.281		
23,874.38	12,399.00	20,529.73	10,350.00	195.60	172.13	-32.39	-10,202.29	833.01	2,759.56	2,602.95	156.61	17.620		

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 804H
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 804H	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	0.00	0.00	0.00	0.00	89.46	0.24	25.09	25.09					
100.00	100.00	100.00	100.00	0.13	0.13	89.46	0.24	25.09	25.09	24.91	0.18	141.406		
200.00	200.00	200.00	200.00	0.48	0.48	89.46	0.24	25.09	25.09	24.41	0.68	36.661		
300.00	300.00	300.00	300.00	0.84	0.84	89.46	0.24	25.09	25.09	23.90	1.19	21.061		
400.00	400.00	400.00	400.00	1.20	1.20	89.46	0.24	25.09	25.09	23.39	1.70	14.774		
500.00	500.00	500.00	500.00	1.56	1.56	89.46	0.24	25.09	25.09	22.89	2.21	11.378		
600.00	600.00	600.00	600.00	1.92	1.92	89.46	0.24	25.09	25.09	22.38	2.71	9.251		
700.00	700.00	700.00	700.00	2.28	2.28	89.46	0.24	25.09	25.09	21.87	3.22	7.794		
800.00	800.00	800.00	800.00	2.63	2.63	89.46	0.24	25.09	25.09	21.36	3.73	6.734		
900.00	900.00	900.00	900.00	2.99	2.99	89.46	0.24	25.09	25.09	20.86	4.23	5.927		
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	89.46	0.24	25.09	25.09	20.35	4.74	5.293		
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	89.46	0.24	25.09	25.09	19.84	5.25	4.782		
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	89.46	0.24	25.09	25.09	19.34	5.75	4.361		
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	89.46	0.24	25.09	25.09	18.83	6.26	4.007		
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	89.46	0.24	25.09	25.09	18.32	6.77	3.707		
1,500.00	1,500.00	1,500.00	1,500.00	5.14	5.14	89.46	0.24	25.09	25.09	17.82	7.27	3.449		
1,600.00	1,600.00	1,600.00	1,600.00	5.50	5.50	89.46	0.24	25.09	25.09	17.31	7.78	3.224		
1,700.00	1,700.00	1,700.00	1,700.00	5.86	5.86	89.46	0.24	25.09	25.09	16.80	8.29	3.027		
1,800.00	1,800.00	1,800.00	1,800.00	6.22	6.22	89.46	0.24	25.09	25.09	16.29	8.80	2.853		
1,900.00	1,900.00	1,900.00	1,900.00	6.58	6.58	89.46	0.24	25.09	25.09	15.79	9.30	2.697		
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	89.46	0.24	25.09	25.09	15.28	9.81	2.558 CC, ES		
2,100.00	2,099.99	2,099.99	2,099.99	7.29	7.29	164.84	0.24	25.09	26.35	16.04	10.31	2.555 SF		
2,200.00	2,199.91	2,199.91	2,199.91	7.64	7.65	166.77	0.24	25.09	30.16	19.35	10.81	2.790		
2,300.00	2,299.69	2,298.87	2,298.86	7.99	8.00	168.03	0.84	26.22	37.65	26.35	11.30	3.332		
2,400.00	2,399.27	2,397.16	2,397.07	8.34	8.35	167.84	2.63	29.58	49.88	38.10	11.78	4.235		
2,458.69	2,457.58	2,454.39	2,454.21	8.55	8.55	167.41	4.23	32.56	59.25	47.20	12.06	4.914		
2,500.00	2,498.60	2,494.82	2,494.54	8.70	8.69	167.05	5.56	35.06	66.54	54.29	12.26	5.429		
2,600.00	2,597.88	2,593.24	2,592.70	9.06	9.04	166.41	8.86	41.22	84.27	71.53	12.74	6.613		
2,700.00	2,697.16	2,691.65	2,690.87	9.43	9.39	165.99	12.15	47.38	102.01	88.77	13.23	7.708		
2,800.00	2,796.44	2,790.06	2,789.03	9.80	9.74	165.70	15.45	53.55	119.75	106.02	13.72	8.725		
2,900.00	2,895.72	2,888.47	2,887.19	10.17	10.09	165.48	18.74	59.71	137.49	123.27	14.22	9.670		
3,000.00	2,995.00	2,986.89	2,985.36	10.54	10.45	165.31	22.03	65.88	155.23	140.52	14.71	10.552		
3,100.00	3,094.28	3,085.30	3,083.52	10.92	10.80	165.18	25.33	72.04	172.98	157.77	15.21	11.375		
3,200.00	3,193.56	3,183.71	3,181.68	11.30	11.16	165.07	28.62	78.20	190.72	175.02	15.70	12.146		
3,300.00	3,292.84	3,282.12	3,279.85	11.68	11.51	164.98	31.92	84.37	208.47	192.27	16.20	12.868		
3,400.00	3,392.12	3,380.54	3,378.01	12.06	11.87	164.90	35.21	90.53	226.22	209.52	16.70	13.547		
3,500.00	3,491.40	3,478.95	3,476.18	12.45	12.23	164.84	38.50	96.69	243.96	226.77	17.20	14.186		
3,600.00	3,590.68	3,577.36	3,574.34	12.83	12.59	164.78	41.80	102.86	261.71	244.01	17.70	14.789		
3,700.00	3,689.96	3,675.77	3,672.50	13.22	12.94	164.73	45.09	109.02	279.46	261.26	18.20	15.357		
3,800.00	3,789.24	3,774.18	3,770.67	13.60	13.30	164.69	48.39	115.19	297.20	278.51	18.70	15.895		
3,900.00	3,888.52	3,872.60	3,868.83	13.99	13.66	164.65	51.68	121.35	314.95	295.75	19.20	16.404		
4,000.00	3,987.80	3,971.01	3,967.00	14.38	14.02	164.62	54.97	127.51	332.70	313.00	19.70	16.887		
4,100.00	4,087.08	4,069.42	4,065.16	14.77	14.38	164.58	58.27	133.68	350.45	330.24	20.20	17.345		
4,200.00	4,186.36	4,167.83	4,163.32	15.16	14.75	164.56	61.56	139.84	368.20	347.49	20.71	17.781		
4,300.00	4,285.64	4,266.25	4,261.49	15.56	15.11	164.53	64.86	146.00	385.94	364.73	21.21	18.196		
4,400.00	4,384.92	4,364.66	4,359.65	15.95	15.47	164.51	68.15	152.17	403.69	381.98	21.71	18.591		
4,500.00	4,484.20	4,463.07	4,457.81	16.34	15.83	164.49	71.45	158.33	421.44	399.22	22.22	18.968		
4,600.00	4,583.48	4,561.48	4,555.98	16.74	16.19	164.47	74.74	164.50	439.19	416.46	22.72	19.328		
4,700.00	4,682.76	4,659.90	4,654.14	17.13	16.56	164.45	78.03	170.66	456.94	433.71	23.23	19.672		
4,800.00	4,782.04	4,758.31	4,752.31	17.53	16.92	164.43	81.33	176.82	474.68	450.95	23.73	20.001		
4,900.00	4,881.32	4,856.72	4,850.47	17.92	17.28	164.42	84.62	182.99	492.43	468.19	24.24	20.316		
5,000.00	4,980.60	4,955.13	4,948.63	18.32	17.65	164.40	87.92	189.15	510.18	485.44	24.75	20.618		

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 804H
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 804H	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				
5,100.00	5,079.88	5,053.55	5,046.80	18.71	18.01	164.39	91.21	195.31	527.93	502.68	25.25	20.907				
5,200.00	5,179.16	5,151.96	5,144.96	19.11	18.37	164.38	94.50	201.48	545.68	519.92	25.76	21.185				
5,300.00	5,278.44	5,250.37	5,243.13	19.51	18.74	164.37	97.80	207.64	563.43	537.16	26.26	21.452				
5,400.00	5,377.72	5,348.78	5,341.29	19.90	19.10	164.36	101.09	213.81	581.17	554.40	26.77	21.709				
5,500.00	5,477.00	5,447.19	5,439.45	20.30	19.47	164.34	104.39	219.97	598.92	571.64	27.28	21.956				
5,600.00	5,576.28	5,545.61	5,537.62	20.70	19.83	164.34	107.68	226.13	616.67	588.89	27.79	22.194				
5,700.00	5,675.56	5,644.02	5,635.78	21.10	20.20	164.33	110.97	232.30	634.42	606.13	28.29	22.423				
5,800.00	5,774.84	5,742.43	5,733.94	21.50	20.56	164.32	114.27	238.46	652.17	623.37	28.80	22.644				
5,900.00	5,874.12	5,840.84	5,832.11	21.90	20.93	164.31	117.56	244.63	669.92	640.61	29.31	22.858				
6,000.00	5,973.40	5,939.26	5,930.27	22.30	21.29	164.30	120.86	250.79	687.66	657.85	29.82	23.063				
6,100.00	6,072.68	6,037.67	6,028.44	22.70	21.66	164.29	124.15	256.95	705.41	675.09	30.32	23.262				
6,200.00	6,171.96	6,136.08	6,126.60	23.10	22.02	164.29	127.44	263.12	723.16	692.33	30.83	23.454				
6,300.00	6,271.24	6,234.49	6,224.76	23.50	22.39	164.28	130.74	269.28	740.91	709.57	31.34	23.640				
6,400.00	6,370.52	6,332.91	6,322.93	23.90	22.75	164.27	134.03	275.44	758.66	726.81	31.85	23.820				
6,500.00	6,469.80	6,431.32	6,421.09	24.30	23.12	164.27	137.33	281.61	776.41	744.05	32.36	23.994				
6,600.00	6,569.08	6,529.73	6,519.26	24.70	23.48	164.26	140.62	287.77	794.16	761.29	32.87	24.162				
6,700.00	6,668.36	6,628.14	6,617.42	25.10	23.85	164.26	143.92	293.94	811.90	778.53	33.38	24.325				
6,800.00	6,767.64	6,726.55	6,715.58	25.50	24.21	164.25	147.21	300.10	829.65	795.77	33.89	24.484				
6,900.00	6,866.91	6,824.97	6,813.75	25.90	24.58	164.25	150.50	306.26	847.40	813.01	34.40	24.637				
6,934.75	6,901.42	6,859.17	6,847.86	26.04	24.71	164.24	151.65	308.41	853.57	819.00	34.57	24.689				
7,000.00	6,966.26	6,923.47	6,912.00	26.30	24.95	164.28	153.80	312.43	864.62	829.72	34.90	24.771				
7,100.00	7,065.85	7,022.35	7,010.63	26.68	25.32	164.28	157.11	318.63	879.51	844.09	35.41	24.836				
7,200.00	7,165.65	7,135.10	7,123.13	27.05	25.73	164.23	160.62	325.19	891.50	855.51	35.99	24.772				
7,300.00	7,265.57	7,260.95	7,248.89	27.41	26.19	164.20	162.84	329.35	898.42	861.82	36.60	24.545				
7,393.44	7,359.00	7,371.07	7,359.00	27.72	26.57	89.60	163.24	330.09	900.11	862.99	37.12	24.246				
7,400.00	7,365.56	7,377.63	7,365.56	27.74	26.60	89.60	163.24	330.09	900.11	862.95	37.16	24.225				
7,500.00	7,465.56	7,477.63	7,465.56	28.08	26.94	89.60	163.24	330.09	900.11	862.46	37.65	23.908				
7,600.00	7,565.56	7,577.63	7,565.56	28.41	27.29	89.60	163.24	330.09	900.11	861.97	38.14	23.600				
7,700.00	7,665.56	7,677.63	7,665.56	28.74	27.64	89.60	163.24	330.09	900.11	861.48	38.63	23.299				
7,800.00	7,765.56	7,777.63	7,765.56	29.07	27.99	89.60	163.24	330.09	900.11	860.99	39.13	23.006				
7,900.00	7,865.56	7,877.63	7,865.56	29.41	28.33	89.60	163.24	330.09	900.11	860.49	39.62	22.719				
8,000.00	7,965.56	7,977.63	7,965.56	29.74	28.68	89.60	163.24	330.09	900.11	860.00	40.11	22.440				
8,100.00	8,065.56	8,077.63	8,065.56	30.08	29.03	89.60	163.24	330.09	900.11	859.50	40.61	22.167				
8,200.00	8,165.56	8,177.63	8,165.56	30.41	29.38	89.60	163.24	330.09	900.11	859.01	41.10	21.900				
8,300.00	8,265.56	8,277.63	8,265.56	30.75	29.73	89.60	163.24	330.09	900.11	858.52	41.60	21.640				
8,400.00	8,365.56	8,377.63	8,365.56	31.09	30.08	89.60	163.24	330.09	900.11	858.02	42.09	21.385				
8,500.00	8,465.56	8,477.63	8,465.56	31.42	30.43	89.60	163.24	330.09	900.11	857.53	42.59	21.137				
8,600.00	8,565.56	8,577.63	8,565.56	31.76	30.78	89.60	163.24	330.09	900.11	857.03	43.08	20.894				
8,700.00	8,665.56	8,677.63	8,665.56	32.10	31.13	89.60	163.24	330.09	900.11	856.53	43.58	20.656				
8,800.00	8,765.56	8,777.63	8,765.56	32.44	31.48	89.60	163.24	330.09	900.11	856.04	44.07	20.423				
8,900.00	8,865.56	8,877.63	8,865.56	32.78	31.83	89.60	163.24	330.09	900.11	855.54	44.57	20.196				
9,000.00	8,965.56	8,977.63	8,965.56	33.12	32.18	89.60	163.24	330.09	900.11	855.05	45.06	19.974				
9,100.00	9,065.56	9,077.63	9,065.56	33.45	32.53	89.60	163.24	330.09	900.11	854.55	45.56	19.756				
9,200.00	9,165.56	9,177.63	9,165.56	33.79	32.88	89.60	163.24	330.09	900.11	854.05	46.06	19.543				
9,300.00	9,265.56	9,277.63	9,265.56	34.14	33.23	89.60	163.24	330.09	900.11	853.56	46.56	19.334				
9,400.00	9,365.56	9,377.63	9,365.56	34.48	33.58	89.60	163.24	330.09	900.11	853.06	47.05	19.130				
9,500.00	9,465.56	9,477.63	9,465.56	34.82	33.93	89.60	163.24	330.09	900.11	852.56	47.55	18.930				
9,600.00	9,565.56	9,577.63	9,565.56	35.16	34.29	89.60	163.24	330.09	900.11	852.06	48.05	18.734				
9,700.00	9,665.56	9,677.63	9,665.56	35.50	34.64	89.60	163.24	330.09	900.11	851.56	48.55	18.541				
9,800.00	9,765.56	9,777.63	9,765.56	35.84	34.99	89.60	163.24	330.09	900.11	851.07	49.04	18.353				
9,900.00	9,865.56	9,877.63	9,865.56	36.19	35.34	89.60	163.24	330.09	900.11	850.57	49.54	18.169				
10,000.00	9,965.56	9,977.63	9,965.56	36.53	35.69	89.60	163.24	330.09	900.11	850.07	50.04	17.988				

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 804H
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 804H	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									
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	10,065.56	10,077.63	10,065.56	36.87	36.04	89.60	163.24	330.09	900.11	849.57	50.54	17.810				
10,200.00	10,165.56	10,177.63	10,165.56	37.21	36.40	89.60	163.24	330.09	900.11	849.07	51.04	17.636				
10,300.00	10,265.56	10,277.63	10,265.56	37.56	36.75	89.60	163.24	330.09	900.11	848.57	51.54	17.465				
10,400.00	10,365.56	10,377.63	10,365.56	37.90	37.10	89.60	163.24	330.09	900.11	848.07	52.04	17.298				
10,500.00	10,465.56	10,477.63	10,465.56	38.25	37.45	89.60	163.24	330.09	900.11	847.58	52.54	17.133				
10,600.00	10,565.56	10,577.63	10,565.56	38.59	37.81	89.60	163.24	330.09	900.11	847.08	53.03	16.972				
10,700.00	10,665.56	10,677.63	10,665.56	38.94	38.16	89.60	163.24	330.09	900.11	846.58	53.53	16.814				
10,800.00	10,765.56	10,777.63	10,765.56	39.28	38.51	89.60	163.24	330.09	900.11	846.08	54.03	16.658				
10,900.00	10,865.56	10,877.63	10,865.56	39.63	38.87	89.60	163.24	330.09	900.11	845.58	54.53	16.506				
11,000.00	10,965.56	10,977.63	10,965.56	39.97	39.22	89.60	163.24	330.09	900.11	845.08	55.03	16.356				
11,100.00	11,065.56	11,077.63	11,065.56	40.32	39.57	89.60	163.24	330.09	900.11	844.58	55.53	16.208				
11,200.00	11,165.56	11,177.63	11,165.56	40.66	39.93	89.60	163.24	330.09	900.11	844.08	56.03	16.064				
11,300.00	11,265.56	11,277.63	11,265.56	41.01	40.28	89.60	163.24	330.09	900.11	843.58	56.53	15.922				
11,400.00	11,365.56	11,377.63	11,365.56	41.36	40.63	89.60	163.24	330.09	900.11	843.08	57.03	15.782				
11,500.00	11,465.56	11,477.63	11,465.56	41.70	40.99	89.60	163.24	330.09	900.11	842.58	57.53	15.645				
11,600.00	11,565.56	11,577.63	11,565.56	42.05	41.34	89.60	163.24	330.09	900.11	842.08	58.04	15.510				
11,700.00	11,665.56	11,677.63	11,665.56	42.40	41.69	89.60	163.24	330.09	900.11	841.57	58.54	15.377				
11,800.00	11,765.56	11,777.63	11,765.56	42.74	42.05	89.60	163.24	330.09	900.11	841.07	59.04	15.246				
11,860.48	11,826.04	11,838.11	11,826.04	42.95	42.26	89.60	163.24	330.09	900.11	840.77	59.34	15.169				
11,900.00	11,865.53	11,877.60	11,865.53	43.08	42.40	-89.91	163.24	330.09	900.11	840.57	59.53	15.119				
11,916.26	11,881.74	11,893.81	11,881.74	43.13	42.46	-90.00	163.24	330.09	900.11	840.50	59.61	15.100				
11,950.00	11,915.20	11,927.27	11,915.20	43.24	42.58	-90.27	163.24	330.09	900.12	840.35	59.77	15.059				
12,000.00	11,964.19	11,976.25	11,964.19	43.39	42.75	-90.88	163.24	330.09	900.22	840.22	60.00	15.003				
12,050.00	12,012.13	12,024.19	12,012.13	43.53	42.92	-91.71	163.24	330.09	900.55	840.32	60.23	14.952				
12,100.00	12,058.65	12,070.71	12,058.65	43.66	43.08	-92.71	163.24	330.09	901.31	840.87	60.45	14.911				
12,150.00	12,103.40	12,115.46	12,103.40	43.78	43.24	-93.83	163.24	330.09	902.74	842.08	60.66	14.883				
12,200.00	12,146.04	12,158.10	12,146.04	43.90	43.39	-95.00	163.24	330.09	905.10	844.25	60.86	14.873				
12,250.00	12,186.24	12,203.64	12,191.56	44.00	43.55	-96.33	162.71	330.09	908.64	847.59	61.06	14.882				
12,300.00	12,223.71	12,256.83	12,244.52	44.09	43.72	-97.86	157.97	330.14	913.17	851.91	61.26	14.907				
12,350.00	12,258.14	12,314.29	12,300.97	44.17	43.89	-99.42	147.36	330.25	918.56	857.12	61.44	14.950				
12,400.00	12,289.29	12,376.95	12,360.98	44.24	44.07	-101.02	129.42	330.42	924.68	863.10	61.58	15.015				
12,450.00	12,316.92	12,445.95	12,424.34	44.30	44.26	-102.66	102.22	330.69	931.35	869.68	61.66	15.104				
12,500.00	12,340.80	12,522.56	12,490.29	44.36	44.44	-104.36	63.35	331.08	938.29	876.63	61.66	15.218				
12,550.00	12,360.77	12,608.12	12,557.07	44.43	44.61	-106.06	10.00	331.61	945.16	883.61	61.55	15.356				
12,600.00	12,376.67	12,703.71	12,621.36	44.50	44.77	-107.69	-60.60	332.31	951.53	890.17	61.35	15.509				
12,650.00	12,388.38	12,809.70	12,677.82	44.59	44.95	-109.13	-150.11	333.20	956.86	895.74	61.12	15.654				
12,700.00	12,395.81	12,924.99	12,719.40	44.69	45.22	-110.20	-257.44	334.26	960.65	899.66	60.99	15.752				
12,750.00	12,398.90	13,046.59	12,739.08	44.81	45.53	-110.72	-377.19	335.45	962.43	901.35	61.08	15.757				
12,760.48	12,399.00	13,072.44	12,739.96	44.83	45.60	-110.75	-403.03	335.71	962.52	901.38	61.14	15.744				
12,800.00	12,399.00	13,115.93	12,740.00	44.94	45.72	-110.75	-446.52	336.14	962.52	901.24	61.29	15.705				
12,900.00	12,399.00	13,215.93	12,740.00	45.25	46.04	-110.75	-546.51	337.13	962.52	900.82	61.70	15.599				
13,000.00	12,399.00	13,315.93	12,740.00	45.62	46.41	-110.75	-646.51	338.13	962.52	900.32	62.20	15.476				
13,100.00	12,399.00	13,415.93	12,740.00	46.05	46.83	-110.75	-746.50	339.12	962.52	899.76	62.76	15.336				
13,200.00	12,399.00	13,515.93	12,740.00	46.53	47.30	-110.75	-846.50	340.11	962.52	899.12	63.40	15.182				
13,300.00	12,399.00	13,615.93	12,740.00	47.07	47.82	-110.75	-946.49	341.10	962.51	898.41	64.11	15.014				
13,400.00	12,399.00	13,715.93	12,740.00	47.65	48.40	-110.75	-1,046.49	342.10	962.51	897.63	64.88	14.835				
13,500.00	12,399.00	13,815.93	12,740.00	48.29	49.02	-110.75	-1,146.48	343.09	962.51	896.79	65.72	14.645				
13,600.00	12,399.00	13,915.93	12,740.00	48.97	49.69	-110.75	-1,246.48	344.08	962.51	895.88	66.63	14.447				
13,700.00	12,399.00	14,015.93	12,740.00	49.70	50.40	-110.75	-1,346.47	345.07	962.51	894.92	67.59	14.241				
13,800.00	12,399.00	14,115.93	12,740.00	50.47	51.16	-110.75	-1,446.47	346.07	962.51	893.90	68.61	14.029				
13,900.00	12,399.00	14,215.93	12,740.00	51.29	51.96	-110.75	-1,546.46	347.06	962.50	892.82	69.68	13.812				
14,000.00	12,399.00	14,315.93	12,740.00	52.14	52.80	-110.75	-1,646.46	348.05	962.50	891.69	70.81	13.592				

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 804H
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 804H	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									
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	12,399.00	14,415.93	12,740.00	53.03	53.67	-110.75	-1,746.45	349.04	962.50	890.51	71.99	13.370				
14,200.00	12,399.00	14,515.93	12,740.00	53.95	54.59	-110.75	-1,846.45	350.04	962.50	889.28	73.22	13.146				
14,300.00	12,399.00	14,615.93	12,740.00	54.91	55.53	-110.75	-1,946.44	351.03	962.50	888.01	74.49	12.922				
14,400.00	12,399.00	14,715.93	12,740.00	55.90	56.51	-110.75	-2,046.44	352.02	962.49	886.69	75.80	12.698				
14,500.00	12,399.00	14,815.93	12,740.00	56.93	57.52	-110.75	-2,146.43	353.01	962.49	885.34	77.15	12.475				
14,600.00	12,399.00	14,915.93	12,740.00	57.98	58.56	-110.75	-2,246.43	354.01	962.49	883.94	78.55	12.254				
14,700.00	12,399.00	15,015.93	12,740.00	59.06	59.62	-110.75	-2,346.42	355.00	962.49	882.51	79.98	12.035				
14,800.00	12,399.00	15,115.93	12,740.00	60.16	60.71	-110.75	-2,446.42	355.99	962.49	881.05	81.44	11.818				
14,900.00	12,399.00	15,215.93	12,740.00	61.29	61.83	-110.75	-2,546.41	356.98	962.49	879.55	82.94	11.605				
15,000.00	12,399.00	15,315.93	12,740.00	62.44	62.97	-110.75	-2,646.41	357.98	962.48	878.02	84.46	11.395				
15,100.00	12,399.00	15,415.93	12,740.00	63.61	64.13	-110.75	-2,746.40	358.97	962.48	876.46	86.02	11.189				
15,200.00	12,399.00	15,515.93	12,740.00	64.81	65.32	-110.75	-2,846.40	359.96	962.48	874.88	87.60	10.987				
15,300.00	12,399.00	15,615.93	12,740.00	66.02	66.52	-110.75	-2,946.39	360.95	962.48	873.27	89.21	10.789				
15,400.00	12,399.00	15,715.93	12,740.00	67.26	67.74	-110.75	-3,046.39	361.95	962.48	871.63	90.85	10.595				
15,500.00	12,399.00	15,815.93	12,740.00	68.51	68.98	-110.75	-3,146.38	362.94	962.47	869.97	92.51	10.405				
15,600.00	12,399.00	15,915.93	12,740.00	69.77	70.24	-110.75	-3,246.38	363.93	962.47	868.29	94.19	10.219				
15,700.00	12,399.00	16,015.93	12,740.00	71.06	71.51	-110.75	-3,346.37	364.92	962.47	866.58	95.89	10.038				
15,800.00	12,399.00	16,115.93	12,740.00	72.35	72.80	-110.75	-3,446.37	365.92	962.47	864.86	97.61	9.861				
15,900.00	12,399.00	16,215.93	12,740.00	73.67	74.10	-110.75	-3,546.36	366.91	962.47	863.12	99.35	9.688				
16,000.00	12,399.00	16,315.93	12,740.00	74.99	75.42	-110.75	-3,646.36	367.90	962.46	861.36	101.10	9.520				
16,100.00	12,399.00	16,415.93	12,740.00	76.33	76.75	-110.75	-3,746.35	368.89	962.46	859.59	102.88	9.356				
16,200.00	12,399.00	16,515.93	12,740.00	77.68	78.09	-110.75	-3,846.35	369.89	962.46	857.80	104.67	9.196				
16,300.00	12,399.00	16,615.93	12,740.00	79.04	79.44	-110.75	-3,946.34	370.88	962.46	855.99	106.47	9.040				
16,400.00	12,399.00	16,715.93	12,740.00	80.41	80.81	-110.75	-4,046.34	371.87	962.46	854.17	108.29	8.888				
16,500.00	12,399.00	16,815.93	12,740.00	81.80	82.18	-110.75	-4,146.33	372.86	962.46	852.33	110.12	8.740				
16,600.00	12,399.00	16,915.93	12,740.00	83.19	83.57	-110.75	-4,246.33	373.86	962.45	850.49	111.97	8.596				
16,700.00	12,399.00	17,015.93	12,740.00	84.59	84.96	-110.75	-4,346.32	374.85	962.45	848.63	113.82	8.456				
16,800.00	12,399.00	17,115.93	12,740.00	86.00	86.36	-110.75	-4,446.32	375.84	962.45	846.76	115.69	8.319				
16,900.00	12,399.00	17,215.93	12,740.00	87.42	87.78	-110.75	-4,546.31	376.83	962.45	844.88	117.57	8.186				
17,000.00	12,399.00	17,315.93	12,740.00	88.85	89.20	-110.75	-4,646.31	377.83	962.45	842.98	119.46	8.056				
17,100.00	12,399.00	17,415.93	12,740.00	90.28	90.62	-110.75	-4,746.31	378.82	962.44	841.08	121.36	7.930				
17,200.00	12,399.00	17,515.93	12,740.00	91.72	92.06	-110.75	-4,846.30	379.81	962.44	839.17	123.27	7.808				
17,300.00	12,399.00	17,615.93	12,740.00	93.17	93.50	-110.75	-4,946.30	380.80	962.44	837.25	125.19	7.688				
17,400.00	12,399.00	17,715.93	12,740.00	94.63	94.95	-110.75	-5,046.29	381.80	962.44	835.32	127.12	7.571				
17,500.00	12,399.00	17,815.93	12,740.00	96.09	96.41	-110.75	-5,146.29	382.79	962.44	833.39	129.05	7.458				
17,600.00	12,399.00	17,915.93	12,740.00	97.56	97.87	-110.75	-5,246.28	383.78	962.44	831.44	130.99	7.347				
17,700.00	12,399.00	18,015.93	12,740.00	99.03	99.34	-110.75	-5,346.28	384.77	962.43	829.49	132.94	7.239				
17,800.00	12,399.00	18,115.93	12,740.00	100.51	100.81	-110.75	-5,446.27	385.77	962.43	827.53	134.90	7.134				
17,900.00	12,399.00	18,215.93	12,740.00	102.00	102.29	-110.75	-5,546.27	386.76	962.43	825.57	136.86	7.032				
18,000.00	12,399.00	18,315.93	12,740.00	103.48	103.77	-110.75	-5,646.26	387.75	962.43	823.59	138.83	6.932				
18,100.00	12,399.00	18,415.93	12,740.00	104.98	105.26	-110.75	-5,746.26	388.74	962.43	821.61	140.81	6.835				
18,200.00	12,399.00	18,515.93	12,740.00	106.48	106.76	-110.75	-5,846.25	389.74	962.42	819.63	142.79	6.740				
18,300.00	12,399.00	18,615.93	12,740.00	107.98	108.26	-110.75	-5,946.25	390.73	962.42	817.64	144.78	6.647				
18,400.00	12,399.00	18,715.93	12,740.00	109.49	109.76	-110.75	-6,046.24	391.72	962.42	815.65	146.77	6.557				
18,500.00	12,399.00	18,815.93	12,740.00	111.00	111.27	-110.75	-6,146.24	392.71	962.42	813.65	148.77	6.469				
18,600.00	12,399.00	18,915.93	12,740.00	112.52	112.78	-110.75	-6,246.23	393.71	962.42	811.64	150.77	6.383				
18,700.00	12,399.00	19,015.93	12,740.00	114.04	114.29	-110.75	-6,346.23	394.70	962.42	809.64	152.78	6.299				
18,800.00	12,399.00	19,115.93	12,740.00	115.56	115.81	-110.75	-6,446.22	395.69	962.41	807.62	154.79	6.217				
18,900.00	12,399.00	19,215.93	12,740.00	117.09	117.34	-110.75	-6,546.22	396.68	962.41	805.60	156.81	6.138				
19,000.00	12,399.00	19,315.93	12,740.00	118.62	118.86	-110.75	-6,646.21	397.68	962.41	803.58	158.83	6.060				
19,100.00	12,399.00	19,415.93	12,740.00	120.15	120.39	-110.75	-6,746.21	398.67	962.41	801.56	160.85	5.983				
19,200.00	12,399.00	19,515.93	12,740.00	121.69	121.92	-110.75	-6,846.20	399.66	962.41	799.53	162.88	5.909				

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 804H
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 804H	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	12,399.00	19,615.93	12,740.00	123.22	123.46	-110.75	-6,946.20	400.65	962.40	797.50	164.91	5.836				
19,400.00	12,399.00	19,715.93	12,740.00	124.77	125.00	-110.75	-7,046.19	401.65	962.40	795.46	166.94	5.765				
19,500.00	12,399.00	19,815.93	12,740.00	126.31	126.54	-110.75	-7,146.19	402.64	962.40	793.42	168.98	5.695				
19,600.00	12,399.00	19,915.93	12,740.00	127.86	128.08	-110.75	-7,246.18	403.63	962.40	791.38	171.02	5.627				
19,700.00	12,399.00	20,015.93	12,740.00	129.41	129.63	-110.75	-7,346.18	404.62	962.40	789.33	173.06	5.561				
19,800.00	12,399.00	20,115.93	12,740.00	130.96	131.18	-110.75	-7,446.17	405.62	962.40	787.29	175.11	5.496				
19,900.00	12,399.00	20,215.93	12,740.00	132.52	132.73	-110.75	-7,546.17	406.61	962.39	785.24	177.16	5.432				
20,000.00	12,399.00	20,315.93	12,740.00	134.07	134.28	-110.75	-7,646.16	407.60	962.39	783.18	179.21	5.370				
20,100.00	12,399.00	20,415.93	12,740.00	135.63	135.84	-110.75	-7,746.16	408.59	962.39	781.13	181.26	5.309				
20,200.00	12,399.00	20,515.93	12,740.00	137.20	137.40	-110.75	-7,846.15	409.59	962.39	779.07	183.32	5.250				
20,300.00	12,399.00	20,615.93	12,740.00	138.76	138.96	-110.75	-7,946.15	410.58	962.39	777.01	185.37	5.192				
20,400.00	12,399.00	20,715.93	12,740.00	140.32	140.52	-110.75	-8,046.14	411.57	962.38	774.95	187.43	5.134				
20,500.00	12,399.00	20,815.93	12,740.00	141.89	142.09	-110.75	-8,146.14	412.56	962.38	772.89	189.50	5.079				
20,600.00	12,399.00	20,915.93	12,740.00	143.46	143.66	-110.75	-8,246.13	413.56	962.38	770.82	191.56	5.024				
20,700.00	12,399.00	21,015.93	12,740.00	145.03	145.22	-110.75	-8,346.13	414.55	962.38	768.75	193.63	4.970				
20,800.00	12,399.00	21,115.93	12,740.00	146.61	146.79	-110.75	-8,446.12	415.54	962.38	766.68	195.69	4.918				
20,900.00	12,399.00	21,215.93	12,740.00	148.18	148.37	-110.75	-8,546.12	416.53	962.37	764.61	197.76	4.866				
21,000.00	12,399.00	21,315.93	12,740.00	149.76	149.94	-110.75	-8,646.11	417.53	962.37	762.54	199.84	4.816				
21,100.00	12,399.00	21,415.93	12,740.00	151.34	151.52	-110.75	-8,746.11	418.52	962.37	760.46	201.91	4.766				
21,200.00	12,399.00	21,515.93	12,740.00	152.92	153.09	-110.75	-8,846.10	419.51	962.37	758.39	203.98	4.718				
21,300.00	12,399.00	21,615.93	12,740.00	154.50	154.67	-110.75	-8,946.10	420.50	962.37	756.31	206.06	4.670				
21,400.00	12,399.00	21,715.93	12,740.00	156.08	156.25	-110.75	-9,046.09	421.50	962.37	754.23	208.13	4.624				
21,500.00	12,399.00	21,815.93	12,740.00	157.66	157.83	-110.75	-9,146.09	422.49	962.36	752.15	210.21	4.578				
21,600.00	12,399.00	21,915.93	12,740.00	159.25	159.42	-110.75	-9,246.08	423.48	962.36	750.07	212.29	4.533				
21,700.00	12,399.00	22,015.93	12,740.00	160.84	161.00	-110.75	-9,346.08	424.47	962.36	747.99	214.37	4.489				
21,800.00	12,399.00	22,115.93	12,740.00	162.42	162.59	-110.75	-9,446.07	425.47	962.36	745.90	216.45	4.446				
21,900.00	12,399.00	22,215.93	12,740.00	164.01	164.17	-110.75	-9,546.07	426.46	962.36	743.82	218.54	4.404				
22,000.00	12,399.00	22,315.93	12,740.00	165.60	165.76	-110.75	-9,646.06	427.45	962.35	741.73	220.62	4.362				
22,100.00	12,399.00	22,415.93	12,740.00	167.19	167.35	-110.75	-9,746.06	428.44	962.35	739.65	222.70	4.321				
22,200.00	12,399.00	22,515.93	12,740.00	168.79	168.94	-110.75	-9,846.05	429.44	962.35	737.56	224.79	4.281				
22,300.00	12,399.00	22,615.93	12,740.00	170.38	170.54	-110.75	-9,946.05	430.43	962.35	735.47	226.88	4.242				
22,400.00	12,399.00	22,715.93	12,740.00	171.98	172.13	-110.75	-10,046.04	431.42	962.35	733.38	228.96	4.203				
22,500.00	12,399.00	22,815.93	12,740.00	173.57	173.72	-110.75	-10,146.04	432.41	962.35	731.29	231.05	4.165				
22,556.78	12,399.00	22,872.71	12,740.00	174.48	174.63	-110.75	-10,202.82	432.98	962.34	730.11	232.24	4.144				
22,600.00	12,399.00	22,874.14	12,740.00	175.17	174.65	-110.75	-10,204.24	432.99	963.25	731.04	232.21	4.148				
22,700.00	12,399.00	22,874.14	12,740.00	176.77	174.65	-110.75	-10,204.24	432.99	972.73	742.66	230.07	4.228				
22,800.00	12,399.00	22,874.14	12,740.00	178.37	174.65	-110.75	-10,204.24	432.99	992.25	766.87	225.38	4.403				
22,900.00	12,399.00	22,874.14	12,740.00	179.97	174.65	-110.75	-10,204.24	432.99	1,021.23	802.54	218.69	4.670				
23,000.00	12,399.00	22,874.14	12,740.00	181.57	174.65	-110.75	-10,204.24	432.99	1,058.90	848.23	210.67	5.026				
23,100.00	12,399.00	22,874.14	12,740.00	183.17	174.65	-110.75	-10,204.24	432.99	1,104.37	902.42	201.95	5.469				
23,200.00	12,399.00	22,874.14	12,740.00	184.77	174.65	-110.75	-10,204.24	432.99	1,156.71	963.68	193.03	5.992				
23,300.00	12,399.00	22,874.14	12,740.00	186.38	174.65	-110.75	-10,204.24	432.99	1,215.05	1,030.77	184.28	6.594				
23,400.00	12,399.00	22,874.14	12,740.00	187.98	174.65	-110.75	-10,204.24	432.99	1,278.55	1,102.63	175.93	7.268				
23,500.00	12,399.00	22,874.14	12,740.00	189.58	174.65	-110.75	-10,204.24	432.99	1,346.50	1,178.39	168.11	8.010				
23,600.00	12,399.00	22,874.14	12,740.00	191.19	174.65	-110.75	-10,204.24	432.99	1,418.24	1,257.35	160.89	8.815				
23,700.00	12,399.00	22,874.14	12,740.00	192.80	174.65	-110.75	-10,204.24	432.99	1,493.24	1,338.97	154.27	9.679				
23,800.00	12,399.00	22,874.14	12,740.00	194.41	174.65	-110.75	-10,204.24	432.99	1,571.02	1,422.78	148.24	10.598				
23,874.38	12,399.00	22,874.14	12,740.00	195.60	174.65	-110.75	-10,204.24	432.99	1,630.46	1,486.34	144.12	11.313				

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 804H
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 804H	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 806H - 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	89.46	0.47	49.87	49.87					
100.00	100.00	100.00	100.00	0.13	0.13	89.46	0.47	49.87	49.87	49.69	0.18	281.066		
200.00	200.00	200.00	200.00	0.48	0.48	89.46	0.47	49.87	49.87	49.19	0.68	72.869		
300.00	300.00	300.00	300.00	0.84	0.84	89.46	0.47	49.87	49.87	48.68	1.19	41.861		
400.00	400.00	400.00	400.00	1.20	1.20	89.46	0.47	49.87	49.87	48.17	1.70	29.365		
500.00	500.00	500.00	500.00	1.56	1.56	89.46	0.47	49.87	49.87	47.67	2.21	22.615		
600.00	600.00	600.00	600.00	1.92	1.92	89.46	0.47	49.87	49.87	47.16	2.71	18.388		
700.00	700.00	700.00	700.00	2.28	2.28	89.46	0.47	49.87	49.87	46.65	3.22	15.492		
800.00	800.00	800.00	800.00	2.63	2.63	89.46	0.47	49.87	49.87	46.14	3.73	13.384		
900.00	900.00	900.00	900.00	2.99	2.99	89.46	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	89.46	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	89.46	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	89.46	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	89.46	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	89.46	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	89.46	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	89.46	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	89.46	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	89.46	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	89.46	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	89.46	0.47	49.87	49.87	40.06	9.81	5.084 CC, ES		
2,100.00	2,099.99	2,099.99	2,099.99	7.29	7.29	164.46	0.47	49.87	51.13	40.82	10.31	4.958 SF		
2,200.00	2,199.91	2,198.53	2,198.52	7.64	7.64	165.15	0.81	51.09	56.16	45.36	10.80	5.201		
2,300.00	2,299.69	2,296.52	2,296.43	7.99	7.98	165.64	1.82	54.74	66.19	54.91	11.27	5.870		
2,400.00	2,399.27	2,393.60	2,393.31	8.34	8.32	165.89	3.48	60.74	81.16	69.42	11.74	6.912		
2,458.69	2,457.58	2,450.00	2,449.51	8.55	8.52	165.95	4.74	65.31	92.22	80.21	12.01	7.678		
2,500.00	2,498.60	2,489.46	2,488.79	8.70	8.66	165.97	5.76	68.99	100.80	88.60	12.20	8.263		
2,600.00	2,597.88	2,584.27	2,582.97	9.06	9.00	165.77	8.64	79.42	123.20	110.56	12.65	9.743		
2,700.00	2,697.16	2,680.82	2,678.70	9.43	9.35	165.45	12.00	91.56	147.14	134.02	13.12	11.215		
2,800.00	2,796.44	2,777.90	2,774.94	9.80	9.70	165.21	15.39	103.80	171.12	157.52	13.60	12.578		
2,900.00	2,895.72	2,874.98	2,871.19	10.17	10.06	165.03	18.78	116.05	195.10	181.01	14.09	13.846		
3,000.00	2,995.00	2,972.06	2,967.43	10.54	10.42	164.89	22.17	128.29	219.09	204.51	14.58	15.028		
3,100.00	3,094.28	3,069.14	3,063.68	10.92	10.79	164.78	25.56	140.54	243.07	228.00	15.07	16.131		
3,200.00	3,193.56	3,166.22	3,159.92	11.30	11.16	164.69	28.94	152.78	267.05	251.49	15.56	17.164		
3,300.00	3,292.84	3,263.30	3,256.17	11.68	11.53	164.61	32.33	165.03	291.04	274.99	16.05	18.132		
3,400.00	3,392.12	3,360.38	3,352.41	12.06	11.90	164.54	35.72	177.27	315.03	298.48	16.54	19.041		
3,500.00	3,491.40	3,457.46	3,448.66	12.45	12.27	164.49	39.11	189.52	339.01	321.97	17.04	19.897		
3,600.00	3,590.68	3,554.54	3,544.90	12.83	12.65	164.44	42.49	201.76	363.00	345.46	17.53	20.703		
3,700.00	3,689.96	3,651.62	3,641.15	13.22	13.02	164.39	45.88	214.01	386.98	368.95	18.03	21.464		
3,800.00	3,789.24	3,748.70	3,737.39	13.60	13.40	164.36	49.27	226.25	410.97	392.44	18.53	22.183		
3,900.00	3,888.52	3,845.78	3,833.64	13.99	13.78	164.32	52.66	238.50	434.96	415.93	19.02	22.863		
4,000.00	3,987.80	3,942.86	3,929.89	14.38	14.16	164.29	56.05	250.74	458.95	439.42	19.52	23.508		
4,100.00	4,087.08	4,039.94	4,026.13	14.77	14.54	164.27	59.43	262.99	482.93	462.91	20.02	24.120		
4,200.00	4,186.36	4,137.02	4,122.38	15.16	14.93	164.24	62.82	275.23	506.92	486.40	20.52	24.701		
4,300.00	4,285.64	4,234.10	4,218.62	15.56	15.31	164.22	66.21	287.48	530.91	509.88	21.02	25.254		
4,400.00	4,384.92	4,331.18	4,314.87	15.95	15.70	164.20	69.60	299.72	554.89	533.37	21.52	25.781		
4,500.00	4,484.20	4,428.26	4,411.11	16.34	16.08	164.18	72.98	311.97	578.88	556.86	22.02	26.283		
4,600.00	4,583.48	4,525.34	4,507.36	16.74	16.47	164.16	76.37	324.21	602.87	580.34	22.53	26.763		
4,700.00	4,682.76	4,622.42	4,603.60	17.13	16.86	164.15	79.76	336.46	626.86	603.83	23.03	27.220		
4,800.00	4,782.04	4,719.50	4,699.85	17.53	17.24	164.13	83.15	348.70	650.84	627.31	23.53	27.658		
4,900.00	4,881.32	4,816.58	4,796.09	17.92	17.63	164.12	86.54	360.95	674.83	650.80	24.03	28.077		
5,000.00	4,980.60	4,913.66	4,892.34	18.32	18.02	164.11	89.92	373.19	698.82	674.28	24.54	28.478		

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 804H
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 804H	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	5,079.88	5,010.74	4,988.58	18.71	18.41	164.09	93.31	385.44	722.81	697.77	25.04	28.863		
5,200.00	5,179.16	5,107.82	5,084.83	19.11	18.80	164.08	96.70	397.68	746.80	721.25	25.55	29.232		
5,300.00	5,278.44	5,204.90	5,181.07	19.51	19.19	164.07	100.09	409.93	770.78	744.73	26.05	29.587		
5,400.00	5,377.72	5,301.98	5,277.32	19.90	19.58	164.06	103.47	422.17	794.77	768.21	26.56	29.928		
5,500.00	5,477.00	5,399.06	5,373.56	20.30	19.97	164.05	106.86	434.42	818.76	791.70	27.06	30.255		
5,600.00	5,576.28	5,496.15	5,469.81	20.70	20.37	164.04	110.25	446.66	842.75	815.18	27.57	30.571		
5,700.00	5,675.56	5,593.23	5,566.05	21.10	20.76	164.04	113.64	458.91	866.73	838.66	28.07	30.874		
5,800.00	5,774.84	5,690.31	5,662.30	21.50	21.15	164.03	117.03	471.16	890.72	862.14	28.58	31.167		
5,900.00	5,874.12	5,787.39	5,758.55	21.90	21.54	164.02	120.41	483.40	914.71	885.62	29.09	31.449		
6,000.00	5,973.40	5,884.47	5,854.79	22.30	21.94	164.01	123.80	495.65	938.70	909.11	29.59	31.721		
6,100.00	6,072.68	5,981.55	5,951.04	22.70	22.33	164.01	127.19	507.89	962.69	932.59	30.10	31.984		
6,200.00	6,171.96	6,078.63	6,047.28	23.10	22.72	164.00	130.58	520.14	986.67	956.07	30.61	32.238		
6,300.00	6,271.24	6,175.71	6,143.53	23.50	23.12	163.99	133.97	532.38	1,010.66	979.55	31.11	32.484		
6,400.00	6,370.52	6,272.79	6,239.77	23.90	23.51	163.99	137.35	544.63	1,034.65	1,003.03	31.62	32.721		
6,500.00	6,469.80	6,369.87	6,336.02	24.30	23.91	163.98	140.74	556.87	1,058.64	1,026.51	32.13	32.951		
6,600.00	6,569.08	6,466.95	6,432.26	24.70	24.30	163.98	144.13	569.12	1,082.63	1,049.99	32.64	33.173		
6,700.00	6,668.36	6,564.03	6,528.51	25.10	24.70	163.97	147.52	581.36	1,106.61	1,073.47	33.14	33.388		
6,800.00	6,767.64	6,661.11	6,624.75	25.50	25.09	163.97	150.90	593.61	1,130.60	1,096.95	33.65	33.597		
6,900.00	6,866.91	6,758.19	6,721.00	25.90	25.49	163.96	154.29	605.85	1,154.59	1,120.43	34.16	33.799		
6,934.75	6,901.42	6,791.92	6,754.44	26.04	25.62	163.96	155.47	610.11	1,162.93	1,128.59	34.34	33.868		
7,000.00	6,966.26	6,855.39	6,817.37	26.30	25.88	164.02	157.68	618.11	1,178.06	1,143.39	34.67	33.980		
7,100.00	7,065.85	6,995.27	6,956.34	26.68	26.44	164.07	161.89	633.33	1,197.51	1,162.12	35.40	33.832		
7,200.00	7,165.65	7,137.75	7,098.40	27.05	26.97	164.11	164.79	643.78	1,210.96	1,174.88	36.09	33.558		
7,300.00	7,265.57	7,281.70	7,242.23	27.41	27.48	164.14	166.27	649.14	1,218.30	1,181.57	36.74	33.164		
7,393.44	7,359.00	7,398.47	7,359.00	27.72	27.87	89.56	166.47	649.87	1,219.91	1,182.65	37.26	32.742		
7,400.00	7,365.56	7,405.03	7,365.56	27.74	27.89	89.56	166.47	649.87	1,219.91	1,182.62	37.29	32.714		
7,500.00	7,465.56	7,505.03	7,465.56	28.08	28.22	89.56	166.47	649.87	1,219.91	1,182.13	37.78	32.292		
7,600.00	7,565.56	7,605.03	7,565.56	28.41	28.56	89.56	166.47	649.87	1,219.91	1,181.64	38.26	31.881		
7,700.00	7,665.56	7,705.03	7,665.56	28.74	28.89	89.56	166.47	649.87	1,219.91	1,181.15	38.75	31.479		
7,800.00	7,765.56	7,805.03	7,765.56	29.07	29.22	89.56	166.47	649.87	1,219.91	1,180.66	39.24	31.087		
7,900.00	7,865.56	7,905.03	7,865.56	29.41	29.55	89.56	166.47	649.87	1,219.91	1,180.17	39.73	30.704		
8,000.00	7,965.56	8,005.03	7,965.56	29.74	29.88	89.56	166.47	649.87	1,219.91	1,179.68	40.22	30.330		
8,100.00	8,065.56	8,105.03	8,065.56	30.08	30.22	89.56	166.47	649.87	1,219.91	1,179.19	40.71	29.965		
8,200.00	8,165.56	8,205.03	8,165.56	30.41	30.55	89.56	166.47	649.87	1,219.91	1,178.70	41.20	29.608		
8,300.00	8,265.56	8,305.03	8,265.56	30.75	30.89	89.56	166.47	649.87	1,219.91	1,178.21	41.69	29.260		
8,400.00	8,365.56	8,405.03	8,365.56	31.09	31.22	89.56	166.47	649.87	1,219.91	1,177.72	42.18	28.919		
8,500.00	8,465.56	8,505.03	8,465.56	31.42	31.56	89.56	166.47	649.87	1,219.91	1,177.23	42.68	28.586		
8,600.00	8,565.56	8,605.03	8,565.56	31.76	31.89	89.56	166.47	649.87	1,219.91	1,176.74	43.17	28.260		
8,700.00	8,665.56	8,705.03	8,665.56	32.10	32.23	89.56	166.47	649.87	1,219.91	1,176.25	43.66	27.941		
8,800.00	8,765.56	8,805.03	8,765.56	32.44	32.57	89.56	166.47	649.87	1,219.91	1,175.75	44.15	27.630		
8,900.00	8,865.56	8,905.03	8,865.56	32.78	32.90	89.56	166.47	649.87	1,219.91	1,175.26	44.65	27.324		
9,000.00	8,965.56	9,005.03	8,965.56	33.12	33.24	89.56	166.47	649.87	1,219.91	1,174.77	45.14	27.026		
9,100.00	9,065.56	9,105.03	9,065.56	33.45	33.58	89.56	166.47	649.87	1,219.91	1,174.27	45.63	26.734		
9,200.00	9,165.56	9,205.03	9,165.56	33.79	33.92	89.56	166.47	649.87	1,219.91	1,173.78	46.13	26.447		
9,300.00	9,265.56	9,305.03	9,265.56	34.14	34.26	89.56	166.47	649.87	1,219.91	1,173.29	46.62	26.167		
9,400.00	9,365.56	9,405.03	9,365.56	34.48	34.60	89.56	166.47	649.87	1,219.91	1,172.79	47.11	25.892		
9,500.00	9,465.56	9,505.03	9,465.56	34.82	34.94	89.56	166.47	649.87	1,219.91	1,172.30	47.61	25.623		
9,600.00	9,565.56	9,605.03	9,565.56	35.16	35.28	89.56	166.47	649.87	1,219.91	1,171.80	48.10	25.360		
9,700.00	9,665.56	9,705.03	9,665.56	35.50	35.62	89.56	166.47	649.87	1,219.91	1,171.31	48.60	25.101		
9,800.00	9,765.56	9,805.03	9,765.56	35.84	35.96	89.56	166.47	649.87	1,219.91	1,170.81	49.09	24.848		
9,900.00	9,865.56	9,905.03	9,865.56	36.19	36.30	89.56	166.47	649.87	1,219.91	1,170.31	49.59	24.600		
10,000.00	9,965.56	10,005.03	9,965.56	36.53	36.64	89.56	166.47	649.87	1,219.91	1,169.82	50.09	24.356		

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 804H
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 804H	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 806H - 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	10,065.56	10,105.03	10,065.56	36.87	36.99	89.56	166.47	649.87	1,219.91	1,169.32	50.58	24.117		
10,200.00	10,165.56	10,205.03	10,165.56	37.21	37.33	89.56	166.47	649.87	1,219.91	1,168.83	51.08	23.883		
10,300.00	10,265.56	10,305.03	10,265.56	37.56	37.67	89.56	166.47	649.87	1,219.91	1,168.33	51.58	23.653		
10,400.00	10,365.56	10,405.03	10,365.56	37.90	38.01	89.56	166.47	649.87	1,219.91	1,167.83	52.07	23.427		
10,500.00	10,465.56	10,505.03	10,465.56	38.25	38.36	89.56	166.47	649.87	1,219.91	1,167.34	52.57	23.206		
10,600.00	10,565.56	10,605.03	10,565.56	38.59	38.70	89.56	166.47	649.87	1,219.91	1,166.84	53.07	22.988		
10,700.00	10,665.56	10,705.03	10,665.56	38.94	39.05	89.56	166.47	649.87	1,219.91	1,166.34	53.56	22.775		
10,800.00	10,765.56	10,805.03	10,765.56	39.28	39.39	89.56	166.47	649.87	1,219.91	1,165.84	54.06	22.565		
10,900.00	10,865.56	10,905.03	10,865.56	39.63	39.73	89.56	166.47	649.87	1,219.91	1,165.35	54.56	22.359		
11,000.00	10,965.56	11,005.03	10,965.56	39.97	40.08	89.56	166.47	649.87	1,219.91	1,164.85	55.06	22.157		
11,100.00	11,065.56	11,105.03	11,065.56	40.32	40.42	89.56	166.47	649.87	1,219.91	1,164.35	55.55	21.959		
11,200.00	11,165.56	11,205.03	11,165.56	40.66	40.77	89.56	166.47	649.87	1,219.91	1,163.85	56.05	21.764		
11,300.00	11,265.56	11,305.03	11,265.56	41.01	41.11	89.56	166.47	649.87	1,219.91	1,163.35	56.55	21.572		
11,400.00	11,365.56	11,405.03	11,365.56	41.36	41.46	89.56	166.47	649.87	1,219.91	1,162.86	57.05	21.383		
11,500.00	11,465.56	11,505.03	11,465.56	41.70	41.80	89.56	166.47	649.87	1,219.91	1,162.36	57.55	21.198		
11,600.00	11,565.56	11,605.03	11,565.56	42.05	42.15	89.56	166.47	649.87	1,219.91	1,161.86	58.05	21.016		
11,700.00	11,665.56	11,705.03	11,665.56	42.40	42.50	89.56	166.47	649.87	1,219.91	1,161.36	58.55	20.837		
11,800.00	11,765.56	11,805.03	11,765.56	42.74	42.84	89.56	166.47	649.87	1,219.91	1,160.86	59.04	20.661		
11,800.86	11,766.42	11,805.89	11,766.42	42.75	42.85	89.56	166.47	649.87	1,219.91	1,160.86	59.05	20.659		
11,860.48	11,826.04	11,861.84	11,822.37	42.95	43.04	89.56	166.27	649.89	1,219.93	1,160.60	59.33	20.560		
11,900.00	11,865.53	11,893.69	11,854.16	43.08	43.14	-89.81	164.54	650.10	1,220.17	1,160.67	59.50	20.507		
11,950.00	11,915.20	11,933.96	11,894.15	43.24	43.26	-89.74	159.86	650.67	1,220.82	1,161.12	59.70	20.450		
12,000.00	11,964.19	11,974.22	11,933.70	43.39	43.39	-89.66	152.40	651.57	1,221.85	1,161.96	59.89	20.402		
12,050.00	12,012.13	12,014.52	11,972.65	43.53	43.51	-89.58	142.19	652.81	1,223.24	1,163.17	60.07	20.364		
12,100.00	12,058.65	12,054.88	12,010.85	43.66	43.62	-89.50	129.27	654.37	1,225.00	1,164.76	60.24	20.335		
12,150.00	12,103.40	12,100.00	12,052.34	43.78	43.75	-89.42	111.70	656.50	1,227.13	1,166.71	60.42	20.310		
12,200.00	12,146.04	12,135.94	12,084.31	43.90	43.84	-89.32	95.43	658.47	1,229.58	1,169.01	60.57	20.301		
12,250.00	12,186.24	12,176.70	12,119.25	44.00	43.94	-89.22	74.60	660.99	1,232.36	1,171.64	60.72	20.295		
12,300.00	12,223.71	12,217.67	12,152.78	44.09	44.03	-89.13	51.24	663.81	1,235.47	1,174.59	60.88	20.294		
12,350.00	12,258.14	12,258.89	12,184.73	44.17	44.12	-89.04	25.39	666.94	1,238.88	1,177.84	61.03	20.299		
12,400.00	12,289.29	12,300.00	12,214.64	44.24	44.21	-88.95	-2.59	670.33	1,242.57	1,181.38	61.18	20.308		
12,450.00	12,316.92	12,342.25	12,243.20	44.30	44.29	-88.86	-33.48	674.07	1,246.53	1,185.19	61.34	20.321		
12,500.00	12,340.80	12,384.48	12,269.37	44.36	44.36	-88.78	-66.37	678.05	1,250.74	1,189.24	61.50	20.336		
12,550.00	12,360.77	12,427.14	12,293.27	44.43	44.44	-88.70	-101.45	682.29	1,255.18	1,193.51	61.67	20.353		
12,600.00	12,376.67	12,470.30	12,314.70	44.50	44.52	-88.62	-138.62	686.79	1,259.82	1,197.98	61.84	20.373		
12,650.00	12,388.38	12,514.01	12,333.47	44.59	44.60	-88.56	-177.80	691.53	1,264.65	1,202.64	62.01	20.393		
12,700.00	12,395.81	12,558.33	12,349.37	44.69	44.69	-88.50	-218.86	696.50	1,269.64	1,207.45	62.19	20.415		
12,750.00	12,398.90	12,603.34	12,362.20	44.81	44.79	-88.45	-261.68	701.68	1,274.75	1,212.38	62.37	20.438		
12,760.48	12,399.00	12,612.86	12,364.48	44.83	44.81	-88.44	-270.86	702.79	1,275.84	1,213.43	62.41	20.443		
12,800.00	12,399.00	12,650.00	12,371.89	44.94	44.91	-88.78	-306.98	707.16	1,280.00	1,217.44	62.56	20.461		
12,900.00	12,399.00	12,744.60	12,379.99	45.25	45.17	-89.15	-400.44	718.47	1,290.87	1,227.91	62.96	20.503		
13,000.00	12,399.00	12,924.83	12,380.00	45.62	45.78	-89.16	-579.92	734.60	1,298.86	1,235.22	63.64	20.409		
13,100.00	12,399.00	13,087.59	12,380.00	46.05	46.46	-89.16	-742.59	739.55	1,300.68	1,236.27	64.41	20.195		
13,200.00	12,399.00	13,187.59	12,380.00	46.53	46.94	-89.16	-842.58	740.54	1,300.67	1,235.58	65.09	19.982		
13,300.00	12,399.00	13,287.59	12,380.00	47.07	47.47	-89.16	-942.58	741.53	1,300.67	1,234.81	65.86	19.750		
13,400.00	12,399.00	13,387.59	12,380.00	47.65	48.06	-89.16	-1,042.57	742.52	1,300.66	1,233.97	66.69	19.503		
13,500.00	12,399.00	13,487.59	12,380.00	48.29	48.69	-89.16	-1,142.57	743.50	1,300.65	1,233.06	67.59	19.242		
13,600.00	12,399.00	13,587.59	12,380.00	48.97	49.37	-89.16	-1,242.56	744.49	1,300.65	1,232.08	68.57	18.969		
13,700.00	12,399.00	13,687.59	12,380.00	49.70	50.09	-89.16	-1,342.56	745.48	1,300.64	1,231.04	69.60	18.686		
13,800.00	12,399.00	13,787.59	12,380.00	50.47	50.86	-89.16	-1,442.55	746.47	1,300.63	1,229.93	70.70	18.395		
13,900.00	12,399.00	13,887.59	12,380.00	51.29	51.67	-89.16	-1,542.55	747.46	1,300.63	1,228.76	71.86	18.099		
14,000.00	12,399.00	13,987.59	12,380.00	52.14	52.51	-89.16	-1,642.54	748.44	1,300.62	1,227.54	73.08	17.798		

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 804H
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 804H	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 806H - 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	12,399.00	14,087.59	12,380.00	53.03	53.40	-89.16	-1,742.54	749.43	1,300.61	1,226.27	74.35	17.494				
14,200.00	12,399.00	14,187.59	12,380.00	53.95	54.32	-89.16	-1,842.53	750.42	1,300.61	1,224.94	75.66	17.189				
14,300.00	12,399.00	14,287.59	12,380.00	54.91	55.28	-89.16	-1,942.53	751.41	1,300.60	1,223.57	77.03	16.884				
14,400.00	12,399.00	14,387.59	12,380.00	55.90	56.26	-89.16	-2,042.52	752.39	1,300.59	1,222.15	78.44	16.580				
14,500.00	12,399.00	14,487.59	12,380.00	56.93	57.28	-89.16	-2,142.52	753.38	1,300.59	1,220.69	79.90	16.277				
14,600.00	12,399.00	14,587.59	12,380.00	57.98	58.33	-89.16	-2,242.51	754.37	1,300.58	1,219.18	81.40	15.978				
14,700.00	12,399.00	14,687.59	12,380.00	59.06	59.40	-89.16	-2,342.51	755.36	1,300.57	1,217.64	82.93	15.682				
14,800.00	12,399.00	14,787.59	12,380.00	60.16	60.50	-89.16	-2,442.50	756.35	1,300.57	1,216.06	84.51	15.390				
14,900.00	12,399.00	14,887.59	12,380.00	61.29	61.63	-89.16	-2,542.50	757.33	1,300.56	1,214.45	86.11	15.103				
15,000.00	12,399.00	14,987.59	12,380.00	62.44	62.77	-89.16	-2,642.49	758.32	1,300.56	1,212.80	87.75	14.820				
15,100.00	12,399.00	15,087.59	12,380.00	63.61	63.94	-89.16	-2,742.49	759.31	1,300.55	1,211.12	89.43	14.543				
15,200.00	12,399.00	15,187.59	12,380.00	64.81	65.14	-89.16	-2,842.48	760.30	1,300.54	1,209.42	91.13	14.272				
15,300.00	12,399.00	15,287.59	12,380.00	66.02	66.35	-89.16	-2,942.48	761.29	1,300.54	1,207.68	92.85	14.006				
15,400.00	12,399.00	15,387.59	12,380.00	67.26	67.58	-89.16	-3,042.48	762.27	1,300.53	1,205.92	94.61	13.747				
15,500.00	12,399.00	15,487.59	12,380.00	68.51	68.82	-89.16	-3,142.47	763.26	1,300.52	1,204.14	96.39	13.493				
15,600.00	12,399.00	15,587.59	12,380.00	69.77	70.09	-89.16	-3,242.47	764.25	1,300.52	1,202.33	98.19	13.245				
15,700.00	12,399.00	15,687.59	12,380.00	71.06	71.37	-89.16	-3,342.46	765.24	1,300.51	1,200.50	100.01	13.004				
15,800.00	12,399.00	15,787.59	12,380.00	72.35	72.66	-89.16	-3,442.46	766.23	1,300.50	1,198.65	101.86	12.768				
15,900.00	12,399.00	15,887.59	12,380.00	73.67	73.97	-89.16	-3,542.45	767.21	1,300.50	1,196.78	103.72	12.538				
16,000.00	12,399.00	15,987.59	12,380.00	74.99	75.29	-89.16	-3,642.45	768.20	1,300.49	1,194.89	105.60	12.315				
16,100.00	12,399.00	16,087.59	12,380.00	76.33	76.63	-89.16	-3,742.44	769.19	1,300.48	1,192.98	107.50	12.097				
16,200.00	12,399.00	16,187.59	12,380.00	77.68	77.97	-89.16	-3,842.44	770.18	1,300.48	1,191.05	109.42	11.885				
16,300.00	12,399.00	16,287.59	12,380.00	79.04	79.33	-89.16	-3,942.43	771.17	1,300.47	1,189.11	111.36	11.678				
16,400.00	12,399.00	16,387.59	12,380.00	80.41	80.70	-89.16	-4,042.43	772.15	1,300.46	1,187.16	113.31	11.477				
16,500.00	12,399.00	16,487.59	12,380.00	81.80	82.08	-89.16	-4,142.42	773.14	1,300.46	1,185.19	115.27	11.282				
16,600.00	12,399.00	16,587.59	12,380.00	83.19	83.47	-89.16	-4,242.42	774.13	1,300.45	1,183.20	117.25	11.092				
16,700.00	12,399.00	16,687.59	12,380.00	84.59	84.87	-89.16	-4,342.41	775.12	1,300.44	1,181.21	119.24	10.907				
16,800.00	12,399.00	16,787.59	12,380.00	86.00	86.28	-89.16	-4,442.41	776.10	1,300.44	1,179.20	121.24	10.726				
16,900.00	12,399.00	16,887.59	12,380.00	87.42	87.69	-89.16	-4,542.40	777.09	1,300.43	1,177.18	123.25	10.551				
17,000.00	12,399.00	16,987.59	12,380.00	88.85	89.12	-89.16	-4,642.40	778.08	1,300.42	1,175.15	125.28	10.380				
17,100.00	12,399.00	17,087.59	12,380.00	90.28	90.55	-89.16	-4,742.39	779.07	1,300.42	1,173.11	127.31	10.214				
17,200.00	12,399.00	17,187.59	12,380.00	91.72	91.99	-89.16	-4,842.39	780.06	1,300.41	1,171.05	129.36	10.053				
17,300.00	12,399.00	17,287.59	12,380.00	93.17	93.44	-89.16	-4,942.38	781.04	1,300.40	1,168.99	131.41	9.895				
17,400.00	12,399.00	17,387.59	12,380.00	94.63	94.89	-89.16	-5,042.38	782.03	1,300.40	1,166.92	133.48	9.742				
17,500.00	12,399.00	17,487.59	12,380.00	96.09	96.35	-89.16	-5,142.37	783.02	1,300.39	1,164.84	135.55	9.593				
17,600.00	12,399.00	17,587.59	12,380.00	97.56	97.82	-89.16	-5,242.37	784.01	1,300.38	1,162.75	137.63	9.448				
17,700.00	12,399.00	17,687.59	12,380.00	99.03	99.29	-89.16	-5,342.36	785.00	1,300.38	1,160.65	139.72	9.307				
17,800.00	12,399.00	17,787.59	12,380.00	100.51	100.76	-89.16	-5,442.36	785.98	1,300.37	1,158.55	141.82	9.169				
17,900.00	12,399.00	17,887.59	12,380.00	102.00	102.25	-89.16	-5,542.35	786.97	1,300.37	1,156.44	143.93	9.035				
18,000.00	12,399.00	17,987.59	12,380.00	103.48	103.73	-89.16	-5,642.35	787.96	1,300.36	1,154.32	146.04	8.904				
18,100.00	12,399.00	18,087.59	12,380.00	104.98	105.23	-89.16	-5,742.34	788.95	1,300.35	1,152.20	148.16	8.777				
18,200.00	12,399.00	18,187.59	12,380.00	106.48	106.72	-89.16	-5,842.34	789.94	1,300.35	1,150.06	150.28	8.653				
18,300.00	12,399.00	18,287.59	12,380.00	107.98	108.23	-89.16	-5,942.33	790.92	1,300.34	1,147.93	152.41	8.532				
18,400.00	12,399.00	18,387.59	12,380.00	109.49	109.73	-89.16	-6,042.33	791.91	1,300.33	1,145.78	154.55	8.414				
18,500.00	12,399.00	18,487.59	12,380.00	111.00	111.24	-89.16	-6,142.32	792.90	1,300.33	1,143.63	156.69	8.299				
18,600.00	12,399.00	18,587.59	12,380.00	112.52	112.76	-89.16	-6,242.32	793.89	1,300.32	1,141.48	158.84	8.186				
18,700.00	12,399.00	18,687.59	12,380.00	114.04	114.27	-89.16	-6,342.31	794.88	1,300.31	1,139.32	160.99	8.077				
18,800.00	12,399.00	18,787.59	12,380.00	115.56	115.80	-89.16	-6,442.31	795.86	1,300.31	1,137.15	163.15	7.970				
18,900.00	12,399.00	18,887.59	12,380.00	117.09	117.32	-89.16	-6,542.30	796.85	1,300.30	1,134.98	165.32	7.866				
19,000.00	12,399.00	18,987.59	12,380.00	118.62	118.85	-89.16	-6,642.30	797.84	1,300.29	1,132.81	167.48	7.764				
19,100.00	12,399.00	19,087.59	12,380.00	120.15	120.38	-89.16	-6,742.29	798.83	1,300.29	1,130.63	169.66	7.664				
19,200.00	12,399.00	19,187.59	12,380.00	121.69	121.91	-89.16	-6,842.29	799.81	1,300.28	1,128.45	171.83	7.567				

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 804H
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 804H	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 806H - 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	12,399.00	19,287.59	12,380.00	123.22	123.45	-89.16	-6,942.28	800.80	1,300.27	1,126.26	174.01	7.472			
19,400.00	12,399.00	19,387.59	12,380.00	124.77	124.99	-89.16	-7,042.28	801.79	1,300.27	1,124.07	176.20	7.380			
19,500.00	12,399.00	19,487.59	12,380.00	126.31	126.54	-89.16	-7,142.28	802.78	1,300.26	1,121.87	178.39	7.289			
19,600.00	12,399.00	19,587.59	12,380.00	127.86	128.08	-89.16	-7,242.27	803.77	1,300.25	1,119.68	180.58	7.200			
19,700.00	12,399.00	19,687.59	12,380.00	129.41	129.63	-89.16	-7,342.27	804.75	1,300.25	1,117.47	182.77	7.114			
19,800.00	12,399.00	19,787.59	12,380.00	130.96	131.18	-89.16	-7,442.26	805.74	1,300.24	1,115.27	184.97	7.029			
19,900.00	12,399.00	19,887.59	12,380.00	132.52	132.74	-89.16	-7,542.26	806.73	1,300.23	1,113.06	187.18	6.947			
20,000.00	12,399.00	19,987.59	12,380.00	134.07	134.29	-89.16	-7,642.25	807.72	1,300.23	1,110.85	189.38	6.866			
20,100.00	12,399.00	20,087.59	12,380.00	135.63	135.85	-89.16	-7,742.25	808.71	1,300.22	1,108.63	191.59	6.787			
20,200.00	12,399.00	20,187.59	12,380.00	137.20	137.41	-89.16	-7,842.24	809.69	1,300.21	1,106.41	193.80	6.709			
20,300.00	12,399.00	20,287.59	12,380.00	138.76	138.97	-89.16	-7,942.24	810.68	1,300.21	1,104.19	196.02	6.633			
20,400.00	12,399.00	20,387.59	12,380.00	140.32	140.54	-89.16	-8,042.23	811.67	1,300.20	1,101.97	198.23	6.559			
20,500.00	12,399.00	20,487.59	12,380.00	141.89	142.11	-89.16	-8,142.23	812.66	1,300.19	1,099.74	200.45	6.486			
20,600.00	12,399.00	20,587.59	12,380.00	143.46	143.67	-89.16	-8,242.22	813.65	1,300.19	1,097.51	202.67	6.415			
20,700.00	12,399.00	20,687.59	12,380.00	145.03	145.24	-89.16	-8,342.22	814.63	1,300.18	1,095.28	204.90	6.345			
20,800.00	12,399.00	20,787.59	12,380.00	146.61	146.82	-89.16	-8,442.21	815.62	1,300.18	1,093.05	207.13	6.277			
20,900.00	12,399.00	20,887.59	12,380.00	148.18	148.39	-89.16	-8,542.21	816.61	1,300.17	1,090.81	209.36	6.210			
21,000.00	12,399.00	20,987.59	12,380.00	149.76	149.97	-89.16	-8,642.20	817.60	1,300.16	1,088.57	211.59	6.145			
21,100.00	12,399.00	21,087.59	12,380.00	151.34	151.54	-89.16	-8,742.20	818.59	1,300.16	1,086.33	213.82	6.081			
21,200.00	12,399.00	21,187.59	12,380.00	152.92	153.12	-89.16	-8,842.19	819.57	1,300.15	1,084.09	216.06	6.018			
21,300.00	12,399.00	21,287.59	12,380.00	154.50	154.70	-89.16	-8,942.19	820.56	1,300.14	1,081.84	218.30	5.956			
21,400.00	12,399.00	21,387.59	12,380.00	156.08	156.28	-89.16	-9,042.18	821.55	1,300.14	1,079.60	220.54	5.895			
21,500.00	12,399.00	21,487.59	12,380.00	157.66	157.87	-89.16	-9,142.18	822.54	1,300.13	1,077.35	222.78	5.836			
21,600.00	12,399.00	21,587.59	12,380.00	159.25	159.45	-89.16	-9,242.17	823.52	1,300.12	1,075.10	225.02	5.778			
21,700.00	12,399.00	21,687.59	12,380.00	160.84	161.04	-89.16	-9,342.17	824.51	1,300.12	1,072.85	227.27	5.721			
21,800.00	12,399.00	21,787.59	12,380.00	162.42	162.62	-89.16	-9,442.16	825.50	1,300.11	1,070.59	229.52	5.665			
21,900.00	12,399.00	21,887.59	12,380.00	164.01	164.21	-89.16	-9,542.16	826.49	1,300.10	1,068.33	231.77	5.609			
22,000.00	12,399.00	21,987.59	12,380.00	165.60	165.80	-89.16	-9,642.15	827.48	1,300.10	1,066.08	234.02	5.556			
22,100.00	12,399.00	22,087.59	12,380.00	167.19	167.39	-89.16	-9,742.15	828.46	1,300.09	1,063.82	236.27	5.503			
22,200.00	12,399.00	22,187.59	12,380.00	168.79	168.98	-89.16	-9,842.14	829.45	1,300.08	1,061.56	238.53	5.450			
22,300.00	12,399.00	22,287.59	12,380.00	170.38	170.58	-89.16	-9,942.14	830.44	1,300.08	1,059.29	240.78	5.399			
22,400.00	12,399.00	22,387.59	12,380.00	171.98	172.17	-89.16	-10,042.13	831.43	1,300.07	1,057.03	243.04	5.349			
22,500.00	12,399.00	22,487.59	12,380.00	173.57	173.77	-89.16	-10,142.13	832.42	1,300.06	1,054.76	245.30	5.300			
22,559.67	12,399.00	22,547.26	12,380.00	174.53	174.72	-89.16	-10,201.79	833.01	1,300.06	1,053.41	246.65	5.271			
22,600.00	12,399.00	22,548.65	12,380.00	175.17	174.75	-89.16	-10,203.19	833.02	1,300.64	1,053.59	247.05	5.265			
22,700.00	12,399.00	22,548.65	12,380.00	176.77	174.75	-89.16	-10,203.19	833.02	1,307.45	1,060.57	246.89	5.296			
22,800.00	12,399.00	22,548.65	12,380.00	178.37	174.75	-89.16	-10,203.19	833.02	1,321.82	1,076.63	245.19	5.391			
22,900.00	12,399.00	22,548.65	12,380.00	179.97	174.75	-89.16	-10,203.19	833.02	1,343.49	1,101.39	242.10	5.549			
23,000.00	12,399.00	22,548.65	12,380.00	181.57	174.75	-89.16	-10,203.19	833.02	1,372.13	1,134.27	237.86	5.769			
23,100.00	12,399.00	22,548.65	12,380.00	183.17	174.75	-89.16	-10,203.19	833.02	1,407.31	1,174.61	232.70	6.048			
23,200.00	12,399.00	22,548.65	12,380.00	184.77	174.75	-89.16	-10,203.19	833.02	1,448.55	1,221.65	226.90	6.384			
23,300.00	12,399.00	22,548.65	12,380.00	186.38	174.75	-89.16	-10,203.19	833.02	1,495.35	1,274.67	220.68	6.776			
23,400.00	12,399.00	22,548.65	12,380.00	187.98	174.75	-89.16	-10,203.19	833.02	1,547.20	1,332.96	214.25	7.222			
23,500.00	12,399.00	22,548.65	12,380.00	189.58	174.75	-89.16	-10,203.19	833.02	1,603.62	1,395.84	207.78	7.718			
23,600.00	12,399.00	22,548.65	12,380.00	191.19	174.75	-89.16	-10,203.19	833.02	1,664.14	1,462.75	201.39	8.263			
23,700.00	12,399.00	22,548.65	12,380.00	192.80	174.75	-89.16	-10,203.19	833.02	1,728.34	1,533.15	195.18	8.855			
23,800.00	12,399.00	22,548.65	12,380.00	194.41	174.75	-89.16	-10,203.19	833.02	1,795.81	1,606.59	189.21	9.491			
23,874.38	12,399.00	22,548.65	12,380.00	195.60	174.75	-89.16	-10,203.19	833.02	1,847.91	1,662.96	184.95	9.991			

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 804H
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 804H	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	-2,898.50	2,935.89					
100.00	100.00	122.00	122.00	0.13	0.20	-99.15	-467.07	-2,898.50	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	-2,898.50	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	-2,898.50	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	-2,898.50	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	-2,898.50	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	-2,898.50	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	-2,898.50	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	-2,898.50	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	-2,898.50	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	-2,898.50	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	-2,898.50	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	-2,898.50	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	-2,898.50	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	-2,898.50	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	-2,898.50	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	-2,898.50	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	-2,898.50	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	-2,898.50	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	-2,898.50	2,935.89	2,926.53	9.36	313.711		
1,907.27	1,907.27	1,929.27	1,929.27	6.60	6.68	-99.15	-467.07	-2,898.50	2,935.89	2,926.49	9.40	312.482		
2,000.00	2,000.00	2,016.25	2,016.25	6.94	6.99	-99.15	-467.04	-2,898.52	2,935.91	2,926.06	9.85	298.043		
2,100.00	2,099.99	2,100.00	2,099.99	7.29	7.29	-24.54	-466.02	-2,899.27	2,935.38	2,925.07	10.31	284.708		
2,200.00	2,199.91	2,163.97	2,163.92	7.64	7.52	-24.54	-464.24	-2,900.59	2,933.32	2,922.60	10.71	273.781		
2,300.00	2,299.69	2,237.78	2,237.63	7.99	7.78	-24.53	-461.13	-2,902.90	2,929.79	2,918.64	11.14	262.918		
2,400.00	2,399.27	2,300.00	2,299.69	8.34	8.01	-24.53	-457.61	-2,905.51	2,924.80	2,913.26	11.54	253.382		
2,458.69	2,457.58	2,354.78	2,354.27	8.55	8.20	-24.52	-453.84	-2,908.30	2,921.13	2,909.31	11.83	247.015		
2,500.00	2,498.60	2,385.21	2,384.56	8.70	8.31	-24.50	-451.48	-2,910.05	2,918.47	2,906.46	12.00	243.133		
2,600.00	2,597.88	2,458.86	2,457.76	9.06	8.58	-24.43	-444.95	-2,914.89	2,912.65	2,900.22	12.44	234.228		
2,700.00	2,697.16	2,548.54	2,546.72	9.43	8.90	-24.32	-435.87	-2,921.61	2,907.57	2,894.66	12.91	225.191		
2,800.00	2,796.44	2,648.21	2,645.58	9.80	9.27	-24.20	-425.69	-2,929.19	2,902.57	2,889.16	13.42	216.322		
2,900.00	2,895.72	2,747.88	2,744.45	10.17	9.64	-24.07	-415.51	-2,936.71	2,897.59	2,883.66	13.93	208.056		
3,000.00	2,995.00	2,847.56	2,843.31	10.54	10.01	-23.95	-405.32	-2,944.26	2,892.61	2,878.17	14.44	200.338		
3,100.00	3,094.28	2,947.23	2,942.18	10.92	10.39	-23.82	-395.14	-2,951.80	2,887.65	2,872.70	14.95	193.120		
3,200.00	3,193.56	3,046.90	3,041.04	11.30	10.76	-23.69	-384.96	-2,959.35	2,882.71	2,867.24	15.47	186.358		
3,300.00	3,292.84	3,146.58	3,139.90	11.68	11.14	-23.57	-374.77	-2,966.90	2,877.78	2,861.79	15.99	180.012		
3,400.00	3,392.12	3,246.25	3,238.77	12.06	11.53	-23.44	-364.59	-2,974.45	2,872.86	2,856.36	16.51	174.049		
3,500.00	3,491.40	3,345.92	3,337.63	12.45	11.91	-23.31	-354.40	-2,981.99	2,867.96	2,850.93	17.03	168.436		
3,600.00	3,590.68	3,445.60	3,436.50	12.83	12.29	-23.18	-344.22	-2,989.54	2,863.07	2,845.52	17.55	163.145		
3,700.00	3,689.96	3,545.27	3,535.36	13.22	12.68	-23.05	-334.04	-2,997.09	2,858.20	2,840.13	18.07	158.150		
3,800.00	3,789.24	3,644.94	3,634.22	13.60	13.07	-22.92	-323.85	-3,004.63	2,853.34	2,834.74	18.60	153.428		
3,900.00	3,888.52	3,744.62	3,733.09	13.99	13.46	-22.79	-313.67	-3,012.18	2,848.49	2,829.37	19.12	148.958		
4,000.00	3,987.80	3,844.29	3,831.95	14.38	13.85	-22.66	-303.49	-3,019.73	2,843.67	2,824.02	19.65	144.722		
4,100.00	4,087.08	3,943.96	3,930.82	14.77	14.24	-22.53	-293.30	-3,027.28	2,838.85	2,818.67	20.18	140.702		
4,200.00	4,186.36	4,043.64	4,029.68	15.16	14.63	-22.40	-283.12	-3,034.82	2,834.05	2,813.35	20.70	136.883		
4,300.00	4,285.64	4,143.31	4,128.54	15.56	15.02	-22.27	-272.93	-3,042.37	2,829.27	2,808.03	21.23	133.250		
4,400.00	4,384.92	4,242.98	4,227.41	15.95	15.42	-22.14	-262.75	-3,049.92	2,824.50	2,802.73	21.76	129.791		
4,500.00	4,484.20	4,342.66	4,326.27	16.34	15.81	-22.01	-252.57	-3,057.47	2,819.74	2,797.45	22.29	126.494		
4,600.00	4,583.48	4,442.33	4,425.14	16.74	16.20	-21.87	-242.38	-3,065.01	2,815.00	2,792.18	22.82	123.348		
4,700.00	4,682.76	4,542.00	4,524.00	17.13	16.60	-21.74	-232.20	-3,072.56	2,810.28	2,786.92	23.35	120.344		
4,800.00	4,782.04	4,641.68	4,622.86	17.53	17.00	-21.61	-222.02	-3,080.11	2,805.57	2,781.68	23.88	117.471		
4,900.00	4,881.32	4,741.35	4,721.73	17.92	17.39	-21.47	-211.83	-3,087.65	2,800.87	2,776.46	24.41	114.723		

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 804H
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 804H	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							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,980.60	4,841.02	4,820.59	18.32	17.79	-21.34	-201.65	-3,095.20	2,796.19	2,771.25	24.95	112.090		
5,100.00	5,079.88	4,940.70	4,919.46	18.71	18.19	-21.20	-191.46	-3,102.75	2,791.53	2,766.05	25.48	109.567		
5,200.00	5,179.16	5,040.37	5,018.32	19.11	18.58	-21.07	-181.28	-3,110.30	2,786.88	2,760.87	26.01	107.147		
5,300.00	5,278.44	5,140.04	5,117.19	19.51	18.98	-20.93	-171.10	-3,117.84	2,782.25	2,755.71	26.54	104.824		
5,400.00	5,377.72	5,239.72	5,216.05	19.90	19.38	-20.79	-160.91	-3,125.39	2,777.64	2,750.56	27.07	102.591		
5,500.00	5,477.00	5,339.39	5,314.91	20.30	19.78	-20.66	-150.73	-3,132.94	2,773.04	2,745.43	27.61	100.445		
5,600.00	5,576.28	5,439.06	5,413.78	20.70	20.18	-20.52	-140.55	-3,140.48	2,768.45	2,740.31	28.14	98.380		
5,700.00	5,675.56	5,538.74	5,512.64	21.10	20.58	-20.38	-130.36	-3,148.03	2,763.88	2,735.21	28.67	96.392		
5,800.00	5,774.84	5,638.41	5,611.51	21.50	20.98	-20.24	-120.18	-3,155.58	2,759.33	2,730.12	29.21	94.477		
5,900.00	5,874.12	5,738.08	5,710.37	21.90	21.38	-20.11	-109.99	-3,163.13	2,754.79	2,725.06	29.74	92.630		
6,000.00	5,973.40	5,837.76	5,809.23	22.30	21.78	-19.97	-99.81	-3,170.67	2,750.28	2,720.00	30.27	90.849		
6,100.00	6,072.68	5,937.43	5,908.10	22.70	22.18	-19.83	-89.63	-3,178.22	2,745.77	2,714.97	30.81	89.130		
6,200.00	6,171.96	6,037.10	6,006.96	23.10	22.58	-19.69	-79.44	-3,185.77	2,741.28	2,709.94	31.34	87.470		
6,300.00	6,271.24	6,136.78	6,105.83	23.50	22.98	-19.55	-69.26	-3,193.32	2,736.81	2,704.94	31.87	85.866		
6,400.00	6,370.52	6,236.45	6,204.69	23.90	23.39	-19.41	-59.08	-3,200.86	2,732.36	2,699.95	32.41	84.315		
6,500.00	6,469.80	6,336.12	6,303.55	24.30	23.79	-19.26	-48.89	-3,208.41	2,727.92	2,694.98	32.94	82.815		
6,600.00	6,569.08	6,435.80	6,402.42	24.70	24.19	-19.12	-38.71	-3,215.96	2,723.50	2,690.03	33.47	81.363		
6,700.00	6,668.36	6,535.47	6,501.28	25.10	24.59	-18.98	-28.52	-3,223.50	2,719.10	2,685.09	34.01	79.957		
6,800.00	6,767.64	6,635.14	6,600.15	25.50	24.99	-18.84	-18.34	-3,231.05	2,714.71	2,680.17	34.54	78.595		
6,900.00	6,866.91	6,734.82	6,699.01	25.90	25.40	-18.69	-8.16	-3,238.60	2,710.34	2,675.27	35.07	77.275		
6,934.75	6,901.42	6,769.45	6,733.37	26.04	25.54	-18.64	-4.62	-3,241.22	2,708.83	2,673.57	35.26	76.826		
7,000.00	6,966.26	6,834.50	6,797.88	26.30	25.80	-18.54	2.03	-3,246.15	2,706.52	2,670.91	35.61	76.011		
7,100.00	7,065.85	6,934.18	6,896.76	26.68	26.20	-18.36	12.21	-3,253.69	2,705.04	2,668.91	36.14	74.856		
7,108.76	7,074.59	6,942.92	6,905.42	26.71	26.24	-18.35	13.10	-3,254.36	2,705.03	2,668.85	36.18	74.760 CC		
7,200.00	7,165.65	7,087.37	7,048.98	27.05	26.81	-18.13	25.94	-3,263.87	2,705.27	2,668.46	36.80	73.503		
7,300.00	7,265.57	7,252.64	7,213.83	27.41	27.42	-17.97	35.28	-3,270.79	2,705.63	2,668.16	37.47	72.209		
7,393.44	7,359.00	7,407.40	7,368.51	27.72	27.96	-92.50	38.83	-3,273.42	2,706.03	2,667.97	38.06	71.107		
7,400.00	7,365.56	7,418.28	7,379.39	27.74	28.00	-92.50	38.88	-3,273.46	2,706.05	2,667.96	38.10	71.033		
7,500.00	7,465.56	7,526.45	7,487.56	28.08	28.36	-92.50	38.93	-3,273.50	2,706.07	2,667.48	38.59	70.118		
7,600.00	7,565.56	7,626.45	7,587.56	28.41	28.69	-92.50	38.93	-3,273.50	2,706.07	2,667.00	39.08	69.252		
7,700.00	7,665.56	7,726.45	7,687.56	28.74	29.03	-92.50	38.93	-3,273.50	2,706.07	2,666.51	39.56	68.406		
7,800.00	7,765.56	7,826.45	7,787.56	29.07	29.36	-92.50	38.93	-3,273.50	2,706.07	2,666.03	40.04	67.579		
7,900.00	7,865.56	7,926.45	7,887.56	29.41	29.70	-92.50	38.93	-3,273.50	2,706.07	2,665.54	40.53	66.771		
8,000.00	7,965.56	8,026.45	7,987.56	29.74	30.03	-92.50	38.93	-3,273.50	2,706.07	2,665.06	41.01	65.981		
8,100.00	8,065.56	8,112.73	8,073.57	30.08	30.28	-92.62	33.10	-3,273.44	2,706.31	2,664.87	41.45	65.298 ES		
8,200.00	8,165.56	8,194.89	8,153.78	30.41	30.47	-92.99	15.63	-3,273.27	2,707.17	2,665.33	41.84	64.697		
8,300.00	8,265.56	8,270.70	8,224.87	30.75	30.61	-93.55	-10.51	-3,273.01	2,708.92	2,666.71	42.21	64.178		
8,400.00	8,365.56	8,338.55	8,285.10	31.09	30.70	-94.20	-41.69	-3,272.70	2,711.93	2,669.39	42.55	63.738		
8,500.00	8,465.56	8,400.00	8,336.11	31.42	30.76	-94.93	-75.88	-3,272.37	2,716.61	2,673.75	42.86	63.381		
8,600.00	8,565.56	8,450.00	8,374.73	31.76	30.80	-95.59	-107.61	-3,272.06	2,723.31	2,680.17	43.14	63.123		
8,700.00	8,665.56	8,500.00	8,410.44	32.10	30.82	-96.33	-142.59	-3,271.71	2,732.36	2,688.96	43.40	62.953		
8,800.00	8,765.56	8,532.22	8,431.78	32.44	30.83	-96.83	-166.72	-3,271.48	2,743.97	2,700.35	43.62	62.912		
8,900.00	8,865.56	8,565.17	8,452.17	32.78	30.83	-97.37	-192.60	-3,271.22	2,758.33	2,714.53	43.80	62.972		
9,000.00	8,965.56	8,600.00	8,472.06	33.12	30.84	-97.97	-221.18	-3,270.94	2,775.58	2,731.62	43.96	63.133		
9,100.00	9,065.56	8,618.54	8,481.93	33.45	30.83	-98.30	-236.88	-3,270.79	2,795.74	2,751.68	44.07	63.441		
9,200.00	9,165.56	8,650.00	8,497.50	33.79	30.83	-98.87	-264.21	-3,270.52	2,818.94	2,774.77	44.17	63.827		
9,300.00	9,265.56	8,650.00	8,497.50	34.14	30.83	-98.87	-264.21	-3,270.52	2,845.07	2,800.90	44.17	64.414		
9,400.00	9,365.56	8,676.31	8,509.35	34.48	30.82	-99.35	-287.70	-3,270.29	2,874.12	2,829.92	44.20	65.028		
9,500.00	9,465.56	8,700.00	8,519.09	34.82	30.82	-99.80	-309.29	-3,270.08	2,906.16	2,861.97	44.20	65.755		
9,600.00	9,565.56	8,700.00	8,519.09	35.16	30.82	-99.80	-309.29	-3,270.08	2,941.00	2,896.88	44.12	66.660		
9,700.00	9,665.56	8,700.00	8,519.09	35.50	30.82	-99.80	-309.29	-3,270.08	2,978.79	2,934.77	44.02	67.670		
9,800.00	9,765.56	8,727.85	8,529.38	35.84	30.81	-100.33	-335.15	-3,269.82	3,018.99	2,975.02	43.97	68.665		

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 804H
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 804H	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	9,865.56	8,750.00	8,536.67	36.19	30.81	-100.76	-356.07	-3,269.62	3,062.04	3,018.16	43.88	69.774		
10,000.00	9,965.56	8,750.00	8,536.67	36.53	30.81	-100.76	-356.07	-3,269.62	3,107.45	3,063.72	43.74	71.047		
10,100.00	10,065.56	8,750.00	8,536.67	36.87	30.81	-100.76	-356.07	-3,269.62	3,155.38	3,111.81	43.58	72.406		
10,200.00	10,165.56	8,750.00	8,536.67	37.21	30.81	-100.76	-356.07	-3,269.62	3,205.72	3,162.31	43.41	73.843		
10,300.00	10,265.56	8,769.49	8,542.40	37.56	30.80	-101.14	-374.70	-3,269.43	3,258.10	3,214.81	43.29	75.264		
10,400.00	10,365.56	8,775.90	8,544.15	37.90	30.80	-101.27	-380.86	-3,269.37	3,312.71	3,269.58	43.13	76.808		
10,500.00	10,465.56	8,800.00	8,550.10	38.25	30.79	-101.75	-404.22	-3,269.14	3,369.58	3,326.57	43.01	78.341		
10,600.00	10,565.56	8,800.00	8,550.10	38.59	30.79	-101.75	-404.22	-3,269.14	3,428.06	3,385.22	42.84	80.025		
10,700.00	10,665.56	8,800.00	8,550.10	38.94	30.79	-101.75	-404.22	-3,269.14	3,488.42	3,445.75	42.67	81.761		
10,800.00	10,765.56	8,800.00	8,550.10	39.28	30.79	-101.75	-404.22	-3,269.14	3,550.57	3,508.07	42.50	83.544		
10,900.00	10,865.56	8,800.00	8,550.10	39.63	30.79	-101.75	-404.22	-3,269.14	3,614.42	3,572.09	42.34	85.370		
11,000.00	10,965.56	8,800.00	8,550.10	39.97	30.79	-101.75	-404.22	-3,269.14	3,679.88	3,637.70	42.18	87.233		
11,100.00	11,065.56	8,800.00	8,550.10	40.32	30.79	-101.75	-404.22	-3,269.14	3,746.87	3,704.83	42.04	89.127		
11,200.00	11,165.56	8,800.00	8,550.10	40.66	30.79	-101.75	-404.22	-3,269.14	3,815.30	3,773.40	41.90	91.049		
11,300.00	11,265.56	8,800.00	8,550.10	41.01	30.79	-101.75	-404.22	-3,269.14	3,885.10	3,843.32	41.78	92.993		
11,400.00	11,365.56	8,800.00	8,550.10	41.36	30.79	-101.75	-404.22	-3,269.14	3,956.20	3,914.54	41.66	94.955		
11,500.00	11,465.56	8,823.30	8,554.92	41.70	30.79	-102.21	-427.01	-3,268.92	4,028.11	3,986.49	41.61	96.797		
11,600.00	11,565.56	8,826.22	8,555.46	42.05	30.79	-102.27	-429.88	-3,268.89	4,101.48	4,059.95	41.53	98.761		
11,700.00	11,665.56	8,850.00	8,559.29	42.40	30.79	-102.74	-453.35	-3,268.66	4,176.29	4,134.79	41.50	100.633		
11,800.00	11,765.56	8,850.00	8,559.29	42.74	30.79	-102.74	-453.35	-3,268.66	4,251.71	4,210.28	41.43	102.615		
11,860.48	11,826.04	8,850.00	8,559.29	42.95	30.79	-102.74	-453.35	-3,268.66	4,297.81	4,256.41	41.40	103.814		
11,900.00	11,865.53	8,850.00	8,559.29	43.08	30.79	73.32	-453.35	-3,268.66	4,327.92	4,286.54	41.38	104.601		
11,950.00	11,915.20	8,850.00	8,559.29	43.24	30.79	67.96	-453.35	-3,268.66	4,365.49	4,324.14	41.34	105.597		
12,000.00	11,964.19	8,850.00	8,559.29	43.39	30.79	63.03	-453.35	-3,268.66	4,402.21	4,360.91	41.31	106.576		
12,050.00	12,012.13	8,850.00	8,559.29	43.53	30.79	58.60	-453.35	-3,268.66	4,437.85	4,396.58	41.27	107.531		
12,100.00	12,058.65	8,850.00	8,559.29	43.66	30.79	54.66	-453.35	-3,268.66	4,472.15	4,430.91	41.24	108.452		
12,150.00	12,103.40	8,850.00	8,559.29	43.78	30.79	51.20	-453.35	-3,268.66	4,504.88	4,463.68	41.20	109.331		
12,200.00	12,146.04	8,850.00	8,559.29	43.90	30.79	48.20	-453.35	-3,268.66	4,535.85	4,494.67	41.18	110.159		
12,250.00	12,186.24	8,850.00	8,559.29	44.00	30.79	45.60	-453.35	-3,268.66	4,564.83	4,523.68	41.15	110.929		
12,300.00	12,223.71	8,850.00	8,559.29	44.09	30.79	43.37	-453.35	-3,268.66	4,591.67	4,550.54	41.13	111.630		
12,350.00	12,258.14	8,850.00	8,559.29	44.17	30.79	41.47	-453.35	-3,268.66	4,616.19	4,575.07	41.12	112.256		
12,400.00	12,289.29	8,874.25	8,562.20	44.24	30.79	39.77	-477.42	-3,268.43	4,637.76	4,596.60	41.16	112.679		
12,450.00	12,316.92	8,900.00	8,564.16	44.30	30.80	38.36	-503.09	-3,268.17	4,657.27	4,616.07	41.20	113.032		
12,500.00	12,340.80	8,900.00	8,564.16	44.36	30.80	37.30	-503.09	-3,268.17	4,673.52	4,632.30	41.22	113.380		
12,550.00	12,360.77	8,900.00	8,564.16	44.43	30.80	36.47	-503.09	-3,268.17	4,686.94	4,645.69	41.25	113.624		
12,600.00	12,376.67	8,900.00	8,564.16	44.50	30.80	35.83	-503.09	-3,268.17	4,697.46	4,656.17	41.29	113.758		
12,650.00	12,388.38	8,900.00	8,564.16	44.59	30.80	35.39	-503.09	-3,268.17	4,705.02	4,663.67	41.35	113.780		
12,700.00	12,395.81	8,900.00	8,564.16	44.69	30.80	35.12	-503.09	-3,268.17	4,709.57	4,668.14	41.43	113.686		
12,750.00	12,398.90	8,930.93	8,565.00	44.81	30.82	35.04	-534.00	-3,267.87	4,710.97	4,669.42	41.55	113.390		
12,760.48	12,399.00	8,930.93	8,565.00	44.83	30.82	35.05	-534.00	-3,267.87	4,710.83	4,669.27	41.57	113.331		
12,800.00	12,399.00	8,930.93	8,565.00	44.94	30.82	35.05	-534.00	-3,267.87	4,710.23	4,668.58	41.65	113.091		
12,852.46	12,399.00	8,931.39	8,565.00	45.09	30.82	35.05	-534.47	-3,267.87	4,709.95	4,668.17	41.78	112.739		
12,900.00	12,399.00	8,978.93	8,565.00	45.25	30.90	35.05	-582.00	-3,267.40	4,709.96	4,668.02	41.94	112.311		
13,000.00	12,399.00	9,078.93	8,565.00	45.62	31.17	35.05	-682.00	-3,266.42	4,709.96	4,667.64	42.32	111.288		
13,100.00	12,399.00	9,178.93	8,565.00	46.05	31.54	35.05	-781.99	-3,265.44	4,709.97	4,667.21	42.76	110.139		
13,200.00	12,399.00	9,278.93	8,565.00	46.53	31.99	35.05	-881.99	-3,264.45	4,709.98	4,666.72	43.26	108.872		
13,300.00	12,399.00	9,378.93	8,565.00	47.07	32.51	35.05	-981.98	-3,263.47	4,709.98	4,666.17	43.81	107.502		
13,400.00	12,399.00	9,478.93	8,565.00	47.65	33.10	35.05	-1,081.98	-3,262.49	4,709.99	4,665.57	44.42	106.041		
13,500.00	12,399.00	9,578.93	8,565.00	48.29	33.76	35.05	-1,181.97	-3,261.51	4,710.00	4,664.93	45.07	104.505		
13,600.00	12,399.00	9,678.93	8,565.00	48.97	34.48	35.05	-1,281.97	-3,260.53	4,710.01	4,664.24	45.77	102.905		
13,700.00	12,399.00	9,778.93	8,565.00	49.70	35.26	35.05	-1,381.96	-3,259.54	4,710.01	4,663.50	46.52	101.254		
13,800.00	12,399.00	9,878.93	8,565.00	50.47	36.10	35.05	-1,481.96	-3,258.56	4,710.02	4,662.71	47.31	99.564		

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 804H	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	12,399.00	9,978.93	8,565.00	51.29	37.00	35.05	-1,581.95	-3,257.58	4,710.03	4,661.89	48.14	97.846		
14,000.00	12,399.00	10,078.93	8,565.00	52.14	37.94	35.05	-1,681.95	-3,256.60	4,710.04	4,661.03	49.01	96.110		
14,100.00	12,399.00	10,178.93	8,565.00	53.03	38.93	35.05	-1,781.94	-3,255.62	4,710.04	4,660.13	49.91	94.369		
14,200.00	12,399.00	10,278.93	8,565.00	53.95	39.96	35.05	-1,881.94	-3,254.64	4,710.05	4,659.20	50.85	92.626		
14,300.00	12,399.00	10,378.93	8,565.00	54.91	41.03	35.05	-1,981.93	-3,253.65	4,710.06	4,658.23	51.82	90.888		
14,400.00	12,399.00	10,478.93	8,565.00	55.90	42.14	35.05	-2,081.93	-3,252.67	4,710.06	4,657.24	52.83	89.159		
14,500.00	12,399.00	10,578.93	8,565.00	56.93	43.29	35.05	-2,181.92	-3,251.69	4,710.07	4,656.21	53.86	87.447		
14,600.00	12,399.00	10,678.93	8,565.00	57.98	44.46	35.05	-2,281.92	-3,250.71	4,710.08	4,655.15	54.92	85.756		
14,700.00	12,399.00	10,778.93	8,565.00	59.06	45.67	35.05	-2,381.91	-3,249.73	4,710.09	4,654.07	56.01	84.089		
14,800.00	12,399.00	10,878.93	8,565.00	60.16	46.90	35.05	-2,481.91	-3,248.74	4,710.09	4,652.97	57.13	82.451		
14,900.00	12,399.00	10,978.93	8,565.00	61.29	48.16	35.05	-2,581.90	-3,247.76	4,710.10	4,651.84	58.26	80.842		
15,000.00	12,399.00	11,078.93	8,565.00	62.44	49.44	35.05	-2,681.90	-3,246.78	4,710.11	4,650.69	59.42	79.266		
15,100.00	12,399.00	11,178.93	8,565.00	63.61	50.74	35.05	-2,781.89	-3,245.80	4,710.12	4,649.52	60.60	77.726		
15,200.00	12,399.00	11,278.93	8,565.00	64.81	52.06	35.05	-2,881.89	-3,244.82	4,710.12	4,648.33	61.79	76.223		
15,300.00	12,399.00	11,378.93	8,565.00	66.02	53.40	35.05	-2,981.88	-3,243.84	4,710.13	4,647.12	63.01	74.754		
15,400.00	12,399.00	11,478.93	8,565.00	67.26	54.75	35.05	-3,081.88	-3,242.85	4,710.14	4,645.90	64.24	73.322		
15,500.00	12,399.00	11,578.93	8,565.00	68.51	56.12	35.05	-3,181.88	-3,241.87	4,710.14	4,644.66	65.49	71.925		
15,600.00	12,399.00	11,678.93	8,565.00	69.77	57.51	35.05	-3,281.87	-3,240.89	4,710.15	4,643.40	66.75	70.562		
15,700.00	12,399.00	11,778.93	8,565.00	71.06	58.91	35.05	-3,381.87	-3,239.91	4,710.16	4,642.13	68.03	69.235		
15,800.00	12,399.00	11,878.93	8,565.00	72.35	60.32	35.05	-3,481.86	-3,238.93	4,710.17	4,640.84	69.33	67.943		
15,900.00	12,399.00	11,978.93	8,565.00	73.67	61.75	35.05	-3,581.86	-3,237.94	4,710.17	4,639.54	70.63	66.686		
16,000.00	12,399.00	12,078.93	8,565.00	74.99	63.18	35.05	-3,681.85	-3,236.96	4,710.18	4,638.23	71.95	65.464		
16,100.00	12,399.00	12,178.93	8,565.00	76.33	64.63	35.05	-3,781.85	-3,235.98	4,710.19	4,636.91	73.28	64.278		
16,200.00	12,399.00	12,278.93	8,565.00	77.68	66.08	35.05	-3,881.84	-3,235.00	4,710.20	4,635.58	74.62	63.126		
16,300.00	12,399.00	12,378.93	8,565.00	79.04	67.55	35.05	-3,981.84	-3,234.02	4,710.20	4,634.24	75.96	62.005		
16,400.00	12,399.00	12,478.93	8,565.00	80.41	69.02	35.05	-4,081.83	-3,233.04	4,710.21	4,632.89	77.32	60.916		
16,500.00	12,399.00	12,578.93	8,565.00	81.80	70.50	35.05	-4,181.83	-3,232.05	4,710.22	4,631.53	78.69	59.858		
16,600.00	12,399.00	12,678.93	8,565.00	83.19	71.99	35.05	-4,281.82	-3,231.07	4,710.22	4,630.16	80.07	58.829		
16,700.00	12,399.00	12,778.93	8,565.00	84.59	73.48	35.05	-4,381.82	-3,230.09	4,710.23	4,628.78	81.45	57.828		
16,800.00	12,399.00	12,878.93	8,565.00	86.00	74.98	35.05	-4,481.81	-3,229.11	4,710.24	4,627.39	82.85	56.856		
16,900.00	12,399.00	12,978.93	8,565.00	87.42	76.49	35.05	-4,581.81	-3,228.13	4,710.25	4,626.00	84.25	55.911		
17,000.00	12,399.00	13,078.93	8,565.00	88.85	78.01	35.05	-4,681.80	-3,227.14	4,710.25	4,624.60	85.65	54.992		
17,100.00	12,399.00	13,178.93	8,565.00	90.28	79.52	35.05	-4,781.80	-3,226.16	4,710.26	4,623.20	87.06	54.101		
17,200.00	12,399.00	13,278.93	8,565.00	91.72	81.05	35.05	-4,881.79	-3,225.18	4,710.27	4,621.78	88.48	53.233		
17,300.00	12,399.00	13,378.93	8,565.00	93.17	82.58	35.05	-4,981.79	-3,224.20	4,710.28	4,620.37	89.91	52.390		
17,400.00	12,399.00	13,478.93	8,565.00	94.63	84.11	35.05	-5,081.78	-3,223.22	4,710.28	4,618.94	91.34	51.569		
17,500.00	12,399.00	13,578.93	8,565.00	96.09	85.65	35.05	-5,181.78	-3,222.24	4,710.29	4,617.51	92.78	50.770		
17,600.00	12,399.00	13,678.93	8,565.00	97.56	87.19	35.05	-5,281.77	-3,221.25	4,710.30	4,616.08	94.22	49.993		
17,700.00	12,399.00	13,778.93	8,565.00	99.03	88.74	35.05	-5,381.77	-3,220.27	4,710.30	4,614.64	95.67	49.237		
17,800.00	12,399.00	13,878.93	8,565.00	100.51	90.29	35.05	-5,481.76	-3,219.29	4,710.31	4,613.19	97.12	48.500		
17,900.00	12,399.00	13,978.93	8,565.00	102.00	91.84	35.05	-5,581.76	-3,218.31	4,710.32	4,611.74	98.57	47.785		
18,000.00	12,399.00	14,078.93	8,565.00	103.48	93.40	35.05	-5,681.75	-3,217.33	4,710.33	4,610.29	100.03	47.088		
18,100.00	12,399.00	14,178.93	8,565.00	104.98	94.96	35.05	-5,781.75	-3,216.35	4,710.33	4,608.84	101.50	46.409		
18,200.00	12,399.00	14,278.93	8,565.00	106.48	96.52	35.05	-5,881.74	-3,215.36	4,710.34	4,607.38	102.96	45.748		
18,300.00	12,399.00	14,378.93	8,565.00	107.98	98.09	35.05	-5,981.74	-3,214.38	4,710.35	4,605.91	104.43	45.103		
18,400.00	12,399.00	14,478.93	8,565.00	109.49	99.65	35.05	-6,081.74	-3,213.40	4,710.36	4,604.45	105.91	44.475		
18,500.00	12,399.00	14,578.93	8,565.00	111.00	101.23	35.05	-6,181.73	-3,212.42	4,710.36	4,602.97	107.39	43.863		
18,600.00	12,399.00	14,678.93	8,565.00	112.52	102.80	35.05	-6,281.73	-3,211.44	4,710.37	4,601.50	108.87	43.266		
18,700.00	12,399.00	14,778.93	8,565.00	114.04	104.38	35.05	-6,381.72	-3,210.45	4,710.38	4,600.02	110.36	42.683		
18,800.00	12,399.00	14,878.93	8,565.00	115.56	105.95	35.05	-6,481.72	-3,209.47	4,710.38	4,598.54	111.85	42.115		
18,900.00	12,399.00	14,978.93	8,565.00	117.09	107.53	35.05	-6,581.71	-3,208.49	4,710.39	4,597.06	113.33	41.562		
19,000.00	12,399.00	15,078.93	8,565.00	118.62	109.12	35.05	-6,681.71	-3,207.51	4,710.40	4,595.57	114.82	41.023		

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 804H
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 804H	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							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	12,399.00	15,178.93	8,565.00	120.15	110.70	35.05	-6,781.70	-3,206.53	4,710.41	4,594.09	116.32	40.496		
19,200.00	12,399.00	15,278.93	8,565.00	121.69	112.29	35.05	-6,881.70	-3,205.55	4,710.41	4,592.60	117.82	39.981		
19,300.00	12,399.00	15,378.93	8,565.00	123.22	113.88	35.05	-6,981.69	-3,204.56	4,710.42	4,591.10	119.32	39.478		
19,400.00	12,399.00	15,478.93	8,565.00	124.77	115.47	35.05	-7,081.69	-3,203.58	4,710.43	4,589.61	120.82	38.987		
19,500.00	12,399.00	15,578.93	8,565.00	126.31	117.06	35.05	-7,181.68	-3,202.60	4,710.44	4,588.11	122.33	38.506		
19,600.00	12,399.00	15,678.93	8,565.00	127.86	118.65	35.05	-7,281.68	-3,201.62	4,710.44	4,586.61	123.83	38.038		
19,700.00	12,399.00	15,778.93	8,565.00	129.41	120.25	35.05	-7,381.67	-3,200.64	4,710.45	4,585.11	125.34	37.581		
19,800.00	12,399.00	15,878.93	8,565.00	130.96	121.84	35.05	-7,481.67	-3,199.65	4,710.46	4,583.61	126.85	37.134		
19,900.00	12,399.00	15,978.93	8,565.00	132.52	123.44	35.05	-7,581.66	-3,198.67	4,710.46	4,582.10	128.36	36.697		
20,000.00	12,399.00	16,078.93	8,565.00	134.07	125.04	35.05	-7,681.66	-3,197.69	4,710.47	4,580.60	129.88	36.269		
20,100.00	12,399.00	16,178.93	8,565.00	135.63	126.64	35.06	-7,781.65	-3,196.71	4,710.48	4,579.09	131.39	35.851		
20,200.00	12,399.00	16,278.93	8,565.00	137.20	128.24	35.06	-7,881.65	-3,195.73	4,710.49	4,577.58	132.91	35.441		
20,300.00	12,399.00	16,378.93	8,565.00	138.76	129.85	35.06	-7,981.64	-3,194.75	4,710.49	4,576.06	134.43	35.041		
20,400.00	12,399.00	16,478.93	8,565.00	140.32	131.45	35.06	-8,081.64	-3,193.76	4,710.50	4,574.55	135.95	34.649		
20,500.00	12,399.00	16,578.93	8,565.00	141.89	133.06	35.06	-8,181.63	-3,192.78	4,710.51	4,573.04	137.47	34.265		
20,600.00	12,399.00	16,678.93	8,565.00	143.46	134.66	35.06	-8,281.63	-3,191.80	4,710.52	4,571.52	139.00	33.890		
20,700.00	12,399.00	16,778.93	8,565.00	145.03	136.27	35.06	-8,381.62	-3,190.82	4,710.52	4,570.00	140.52	33.523		
20,800.00	12,399.00	16,878.93	8,565.00	146.61	137.88	35.06	-8,481.62	-3,189.84	4,710.53	4,568.49	142.04	33.163		
20,900.00	12,399.00	16,978.93	8,565.00	148.18	139.49	35.06	-8,581.61	-3,188.85	4,710.54	4,566.97	143.57	32.810		
21,000.00	12,399.00	17,078.93	8,565.00	149.76	141.10	35.06	-8,681.61	-3,187.87	4,710.54	4,565.45	145.10	32.465		
21,100.00	12,399.00	17,178.93	8,565.00	151.34	142.71	35.06	-8,781.61	-3,186.89	4,710.55	4,563.92	146.63	32.126		
21,200.00	12,399.00	17,278.93	8,565.00	152.92	144.33	35.06	-8,881.60	-3,185.91	4,710.56	4,562.40	148.16	31.794		
21,300.00	12,399.00	17,378.93	8,565.00	154.50	145.94	35.06	-8,981.60	-3,184.93	4,710.57	4,560.88	149.69	31.469		
21,400.00	12,399.00	17,478.93	8,565.00	156.08	147.55	35.06	-9,081.59	-3,183.95	4,710.57	4,559.35	151.22	31.151		
21,500.00	12,399.00	17,578.93	8,565.00	157.66	149.17	35.06	-9,181.59	-3,182.96	4,710.58	4,557.83	152.75	30.838		
21,600.00	12,399.00	17,678.93	8,565.00	159.25	150.78	35.06	-9,281.58	-3,181.98	4,710.59	4,556.30	154.28	30.532		
21,700.00	12,399.00	17,778.93	8,565.00	160.84	152.40	35.06	-9,381.58	-3,181.00	4,710.60	4,554.78	155.82	30.231		
21,800.00	12,399.00	17,878.93	8,565.00	162.42	154.02	35.06	-9,481.57	-3,180.02	4,710.60	4,553.25	157.35	29.936		
21,900.00	12,399.00	17,978.93	8,565.00	164.01	155.64	35.06	-9,581.57	-3,179.04	4,710.61	4,551.72	158.89	29.647		
22,000.00	12,399.00	18,078.93	8,565.00	165.60	157.26	35.06	-9,681.56	-3,178.05	4,710.62	4,550.19	160.43	29.363		
22,100.00	12,399.00	18,178.93	8,565.00	167.19	158.88	35.06	-9,781.56	-3,177.07	4,710.62	4,548.66	161.97	29.084		
22,200.00	12,399.00	18,278.93	8,565.00	168.79	160.50	35.06	-9,881.55	-3,176.09	4,710.63	4,547.12	163.51	28.810		
22,300.00	12,399.00	18,378.93	8,565.00	170.38	162.12	35.06	-9,981.55	-3,175.11	4,710.64	4,545.59	165.05	28.541		
22,400.00	12,399.00	18,478.93	8,565.00	171.98	163.74	35.06	-10,081.54	-3,174.13	4,710.65	4,544.06	166.58	28.278		
22,500.00	12,399.00	18,578.93	8,565.00	173.57	165.36	35.06	-10,181.54	-3,173.15	4,710.65	4,542.53	168.12	28.019		
22,503.52	12,399.00	18,582.44	8,565.00	173.63	165.42	35.06	-10,185.05	-3,173.11	4,710.65	4,542.48	168.18	28.010		
22,600.00	12,399.00	18,634.72	8,565.00	175.17	166.26	35.06	-10,237.32	-3,172.60	4,710.87	4,541.44	169.43	27.805		
22,700.00	12,399.00	18,634.72	8,565.00	176.77	166.26	35.06	-10,237.32	-3,172.60	4,712.87	4,542.48	170.40	27.658		
22,800.00	12,399.00	18,634.72	8,565.00	178.37	166.26	35.06	-10,237.32	-3,172.60	4,717.00	4,545.71	171.29	27.538		
22,900.00	12,399.00	18,634.72	8,565.00	179.97	166.26	35.06	-10,237.32	-3,172.60	4,723.24	4,551.12	172.12	27.441		
23,000.00	12,399.00	18,634.72	8,565.00	181.57	166.26	35.06	-10,237.32	-3,172.60	4,731.59	4,558.70	172.89	27.368		
23,100.00	12,399.00	18,634.72	8,565.00	183.17	166.26	35.06	-10,237.32	-3,172.60	4,742.03	4,568.45	173.58	27.319		
23,200.00	12,399.00	18,634.72	8,565.00	184.77	166.26	35.06	-10,237.32	-3,172.60	4,754.55	4,580.35	174.20	27.293		
23,300.00	12,399.00	18,634.72	8,565.00	186.38	166.26	35.06	-10,237.32	-3,172.60	4,769.14	4,594.37	174.76	27.289 SF		
23,400.00	12,399.00	18,634.72	8,565.00	187.98	166.26	35.06	-10,237.32	-3,172.60	4,785.77	4,610.51	175.25	27.307		
23,500.00	12,399.00	18,634.72	8,565.00	189.58	166.26	35.06	-10,237.32	-3,172.60	4,804.42	4,628.75	175.67	27.349		
23,600.00	12,399.00	18,634.72	8,565.00	191.19	166.26	35.06	-10,237.32	-3,172.60	4,825.08	4,649.05	176.03	27.411		
23,700.00	12,399.00	18,634.72	8,565.00	192.80	166.26	35.06	-10,237.32	-3,172.60	4,847.71	4,671.39	176.32	27.493		
23,800.00	12,399.00	18,634.72	8,565.00	194.41	166.26	35.06	-10,237.32	-3,172.60	4,872.29	4,695.75	176.54	27.598		
23,874.38	12,399.00	18,634.72	8,565.00	195.60	166.26	35.06	-10,237.32	-3,172.60	4,891.82	4,715.15	176.67	27.689		

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 804H
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 804H	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	-99.38	-466.37	-2,823.54	2,861.79					
100.00	100.00	122.00	122.00	0.13	0.20	-99.38	-466.37	-2,823.54	2,861.79	2,861.55	0.24	N/A		
200.00	200.00	222.00	222.00	0.48	0.56	-99.38	-466.37	-2,823.54	2,861.79	2,861.05	0.74	3,855.551		
300.00	300.00	322.00	322.00	0.84	0.92	-99.38	-466.37	-2,823.54	2,861.79	2,860.54	1.25	2,292.449		
400.00	400.00	422.00	422.00	1.20	1.28	-99.38	-466.37	-2,823.54	2,861.79	2,860.04	1.75	1,630.696		
500.00	500.00	522.00	522.00	1.56	1.64	-99.38	-466.37	-2,823.54	2,861.79	2,859.53	2.26	1,265.324		
600.00	600.00	622.00	622.00	1.92	2.00	-99.38	-466.37	-2,823.54	2,861.79	2,859.02	2.77	1,033.684		
700.00	700.00	722.00	722.00	2.28	2.36	-99.38	-466.37	-2,823.54	2,861.79	2,858.52	3.28	873.722		
800.00	800.00	822.00	822.00	2.63	2.71	-99.38	-466.37	-2,823.54	2,861.79	2,858.01	3.78	756.628		
900.00	900.00	922.00	922.00	2.99	3.07	-99.38	-466.37	-2,823.54	2,861.79	2,857.50	4.29	667.208		
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-99.38	-466.37	-2,823.54	2,861.79	2,857.00	4.80	596.689		
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-99.38	-466.37	-2,823.54	2,861.79	2,856.49	5.30	539.651		
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-99.38	-466.37	-2,823.54	2,861.79	2,855.98	5.81	492.565		
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-99.38	-466.37	-2,823.54	2,861.79	2,855.48	6.32	453.037		
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-99.38	-466.37	-2,823.54	2,861.79	2,854.97	6.82	419.381		
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-99.38	-466.37	-2,823.54	2,861.79	2,854.46	7.33	390.380		
1,600.00	1,600.00	1,622.00	1,622.00	5.50	5.58	-99.38	-466.37	-2,823.54	2,861.79	2,853.96	7.84	365.130		
1,700.00	1,700.00	1,722.00	1,722.00	5.86	5.94	-99.38	-466.37	-2,823.54	2,861.79	2,853.45	8.34	342.949		
1,800.00	1,800.00	1,822.00	1,822.00	6.22	6.30	-99.38	-466.37	-2,823.54	2,861.79	2,852.94	8.85	323.307		
1,900.00	1,900.00	1,922.00	1,922.00	6.58	6.66	-99.38	-466.37	-2,823.54	2,861.79	2,852.43	9.36	305.794		
2,000.00	2,000.00	2,022.00	2,022.00	6.94	7.02	-99.38	-466.37	-2,823.54	2,861.79	2,851.93	9.87	290.081		
2,100.00	2,099.99	2,121.99	2,121.99	7.29	7.37	-24.80	-466.37	-2,823.54	2,860.60	2,850.24	10.37	275.914		
2,200.00	2,199.91	2,267.65	2,267.64	7.64	7.89	-24.87	-466.03	-2,823.04	2,856.87	2,845.89	10.98	260.184		
2,300.00	2,299.69	2,573.32	2,572.72	7.99	8.97	-24.96	-455.98	-2,808.56	2,845.73	2,833.76	11.97	237.783		
2,400.00	2,399.27	2,870.78	2,867.34	8.34	10.06	-24.97	-432.90	-2,775.26	2,825.19	2,812.29	12.90	218.971		
2,458.69	2,457.58	2,982.33	2,976.89	8.55	10.48	-24.99	-420.94	-2,758.02	2,809.23	2,795.93	13.30	211.169		
2,500.00	2,498.60	3,021.93	3,015.73	8.70	10.63	-24.96	-416.52	-2,751.64	2,797.53	2,784.03	13.50	207.188		
2,600.00	2,597.88	3,117.78	3,109.72	9.06	11.01	-24.89	-405.82	-2,736.20	2,769.22	2,755.23	13.98	198.019		
2,700.00	2,697.16	3,213.63	3,203.71	9.43	11.39	-24.82	-395.12	-2,720.77	2,740.90	2,726.43	14.47	189.419		
2,800.00	2,796.44	3,309.48	3,297.70	9.80	11.77	-24.75	-384.42	-2,705.33	2,712.59	2,697.64	14.96	181.343		
2,900.00	2,895.72	3,405.33	3,391.70	10.17	12.16	-24.67	-373.72	-2,689.90	2,684.29	2,668.84	15.45	173.748		
3,000.00	2,995.00	3,501.18	3,485.69	10.54	12.56	-24.59	-363.01	-2,674.46	2,655.99	2,640.05	15.94	166.596		
3,100.00	3,094.28	3,597.03	3,579.68	10.92	12.96	-24.52	-352.31	-2,659.03	2,627.69	2,611.26	16.44	159.852		
3,200.00	3,193.56	3,692.88	3,673.67	11.30	13.36	-24.44	-341.61	-2,643.59	2,599.40	2,582.47	16.94	153.484		
3,300.00	3,292.84	3,788.73	3,767.66	11.68	13.76	-24.35	-330.91	-2,628.16	2,571.12	2,553.68	17.44	147.465		
3,400.00	3,392.12	3,884.58	3,861.66	12.06	14.17	-24.27	-320.21	-2,612.73	2,542.84	2,524.90	17.94	141.768		
3,500.00	3,491.40	3,980.44	3,955.65	12.45	14.58	-24.18	-309.51	-2,597.29	2,514.56	2,496.12	18.44	136.369		
3,600.00	3,590.68	4,076.29	4,049.64	12.83	15.00	-24.10	-298.80	-2,581.86	2,486.29	2,467.35	18.94	131.246		
3,700.00	3,689.96	4,172.14	4,143.63	13.22	15.41	-24.01	-288.10	-2,566.42	2,458.02	2,438.57	19.45	126.380		
3,800.00	3,789.24	4,267.99	4,237.63	13.60	15.83	-23.92	-277.40	-2,550.99	2,429.76	2,409.81	19.96	121.754		
3,900.00	3,888.52	4,363.84	4,331.62	13.99	16.25	-23.82	-266.70	-2,535.55	2,401.51	2,381.05	20.46	117.350		
4,000.00	3,987.80	4,459.69	4,425.61	14.38	16.67	-23.73	-256.00	-2,520.12	2,373.26	2,352.29	20.97	113.153		
4,100.00	4,087.08	4,555.54	4,519.60	14.77	17.09	-23.63	-245.30	-2,504.68	2,345.02	2,323.54	21.48	109.150		
4,200.00	4,186.36	4,651.39	4,613.60	15.16	17.52	-23.53	-234.60	-2,489.25	2,316.79	2,294.79	22.00	105.328		
4,300.00	4,285.64	4,747.24	4,707.59	15.56	17.94	-23.42	-223.89	-2,473.81	2,288.56	2,266.05	22.51	101.676		
4,400.00	4,384.92	4,843.09	4,801.58	15.95	18.37	-23.32	-213.19	-2,458.38	2,260.34	2,237.32	23.02	98.183		
4,500.00	4,484.20	4,938.94	4,895.57	16.34	18.80	-23.21	-202.49	-2,442.94	2,232.12	2,208.59	23.54	94.839		
4,600.00	4,583.48	5,034.79	4,989.57	16.74	19.23	-23.10	-191.79	-2,427.51	2,203.92	2,179.87	24.05	91.635		
4,700.00	4,682.76	5,130.64	5,083.56	17.13	19.66	-22.98	-181.09	-2,412.07	2,175.72	2,151.15	24.57	88.562		
4,800.00	4,782.04	5,226.49	5,177.55	17.53	20.09	-22.87	-170.39	-2,396.64	2,147.53	2,122.44	25.08	85.614		
4,900.00	4,881.32	5,322.34	5,271.54	17.92	20.53	-22.75	-159.68	-2,381.20	2,119.35	2,093.74	25.60	82.782		
5,000.00	4,980.60	5,418.19	5,365.54	18.32	20.96	-22.62	-148.98	-2,365.77	2,091.17	2,065.05	26.12	80.061		

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 804H
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 804H	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		
5,100.00	5,079.88	5,514.04	5,459.53	18.71	21.40	-22.50	-138.28	-2,350.33	2,063.01	2,036.37	26.64	77.443		
5,200.00	5,179.16	5,609.90	5,553.52	19.11	21.83	-22.37	-127.58	-2,334.90	2,034.85	2,007.70	27.16	74.924		
5,300.00	5,278.44	5,705.75	5,647.51	19.51	22.27	-22.23	-116.88	-2,319.46	2,006.71	1,979.03	27.68	72.499		
5,400.00	5,377.72	5,801.60	5,741.51	19.90	22.71	-22.10	-106.18	-2,304.03	1,978.58	1,950.38	28.20	70.161		
5,500.00	5,477.00	5,897.45	5,835.50	20.30	23.14	-21.95	-95.48	-2,288.59	1,950.45	1,921.73	28.72	67.907		
5,600.00	5,576.28	5,993.30	5,929.49	20.70	23.58	-21.81	-84.77	-2,273.16	1,922.34	1,893.10	29.25	65.732		
5,700.00	5,675.56	6,089.15	6,023.48	21.10	24.02	-21.66	-74.07	-2,257.72	1,894.24	1,864.47	29.77	63.633		
5,800.00	5,774.84	6,185.00	6,117.48	21.50	24.46	-21.50	-63.37	-2,242.29	1,866.15	1,835.86	30.29	61.606		
5,900.00	5,874.12	6,280.85	6,211.47	21.90	24.90	-21.34	-52.67	-2,226.85	1,838.08	1,807.26	30.82	59.647		
6,000.00	5,973.40	6,376.70	6,305.46	22.30	25.34	-21.18	-41.97	-2,211.42	1,810.02	1,778.68	31.34	57.752		
6,100.00	6,072.68	6,472.55	6,399.45	22.70	25.78	-21.01	-31.27	-2,195.98	1,781.97	1,750.10	31.87	55.919		
6,200.00	6,171.96	6,568.40	6,493.44	23.10	26.22	-20.84	-20.56	-2,180.55	1,753.94	1,721.55	32.39	54.145		
6,300.00	6,271.24	6,664.25	6,587.44	23.50	26.67	-20.66	-9.86	-2,165.11	1,725.92	1,693.00	32.92	52.427		
6,400.00	6,370.52	6,760.10	6,681.43	23.90	27.11	-20.47	0.84	-2,149.68	1,697.92	1,664.47	33.45	50.762		
6,500.00	6,469.80	6,855.04	6,774.53	24.30	27.55	-20.28	11.44	-2,134.39	1,669.94	1,635.96	33.98	49.149		
6,600.00	6,569.08	6,925.57	6,843.81	24.70	27.87	-20.14	18.95	-2,123.56	1,642.75	1,608.26	34.49	47.632		
6,700.00	6,668.36	7,000.00	6,917.18	25.10	28.20	-20.03	26.08	-2,113.27	1,617.11	1,582.11	35.00	46.207		
6,800.00	6,767.64	7,067.28	6,983.70	25.50	28.48	-19.94	31.83	-2,104.98	1,593.01	1,557.52	35.49	44.883		
6,900.00	6,866.91	7,139.05	7,054.84	25.90	28.78	-19.87	37.22	-2,097.20	1,570.50	1,534.52	35.98	43.645		
6,934.75	6,901.42	7,164.12	7,079.73	26.04	28.88	-19.85	38.93	-2,094.74	1,563.05	1,526.90	36.15	43.235		
7,000.00	6,966.26	7,200.00	7,115.39	26.30	29.02	-19.76	41.20	-2,091.46	1,550.15	1,513.70	36.45	42.529		
7,100.00	7,065.85	7,284.62	7,199.62	26.68	29.34	-19.62	45.82	-2,084.81	1,533.58	1,496.64	36.94	41.516		
7,200.00	7,165.65	7,358.43	7,273.22	27.05	29.61	-19.51	48.97	-2,080.26	1,521.14	1,483.74	37.40	40.671		
7,300.00	7,265.57	7,432.70	7,347.37	27.41	29.88	-19.42	51.33	-2,076.86	1,512.82	1,474.97	37.85	39.967		
7,393.44	7,359.00	7,500.00	7,414.63	27.72	30.11	-93.96	52.75	-2,074.80	1,508.78	1,470.53	38.25	39.441		
7,400.00	7,365.56	7,500.00	7,414.63	27.74	30.11	-93.96	52.75	-2,074.80	1,508.65	1,470.38	38.27	39.422		
7,500.00	7,465.56	7,581.92	7,496.53	28.08	30.37	-93.93	53.58	-2,073.61	1,507.19	1,468.48	38.71	38.939		
7,551.63	7,517.19	7,624.58	7,539.19	28.25	30.51	-93.93	53.63	-2,073.54	1,507.09	1,468.16	38.93	38.712		
7,600.00	7,565.56	7,672.95	7,587.56	28.41	30.66	-93.93	53.63	-2,073.54	1,507.09	1,467.92	39.16	38.483		
7,700.00	7,665.56	7,772.95	7,687.56	28.74	30.97	-93.93	53.63	-2,073.54	1,507.09	1,467.44	39.64	38.018		
7,800.00	7,765.56	7,872.95	7,787.56	29.07	31.28	-93.93	53.63	-2,073.54	1,507.09	1,466.97	40.12	37.564		
7,900.00	7,865.56	7,972.95	7,887.56	29.41	31.59	-93.93	53.63	-2,073.54	1,507.09	1,466.48	40.60	37.119		
8,000.00	7,965.56	8,072.95	7,987.56	29.74	31.91	-93.93	53.63	-2,073.54	1,507.09	1,466.00	41.08	36.685		
8,009.59	7,975.16	8,082.54	7,997.16	29.77	31.94	-93.93	53.63	-2,073.54	1,507.09	1,465.96	41.13	36.644 CC		
8,100.00	8,065.56	8,170.60	8,085.21	30.08	32.21	-93.94	53.43	-2,073.53	1,507.10	1,465.55	41.55	36.268 ES		
8,200.00	8,165.56	8,256.15	8,170.25	30.41	32.44	-94.27	44.80	-2,073.45	1,507.73	1,465.78	41.95	35.938		
8,300.00	8,265.56	8,337.43	8,249.00	30.75	32.60	-95.02	24.97	-2,073.26	1,509.54	1,467.24	42.29	35.691		
8,400.00	8,365.56	8,411.81	8,317.95	31.09	32.72	-96.07	-2.78	-2,072.98	1,513.06	1,470.48	42.58	35.535		
8,500.00	8,465.56	8,477.98	8,375.82	31.42	32.79	-97.27	-34.79	-2,072.67	1,518.98	1,476.17	42.80	35.487		
8,600.00	8,565.56	8,535.76	8,423.05	31.76	32.83	-98.52	-68.03	-2,072.35	1,527.99	1,485.03	42.96	35.568		
8,700.00	8,665.56	8,585.69	8,460.99	32.10	32.85	-99.73	-100.47	-2,072.03	1,540.69	1,497.65	43.04	35.799		
8,800.00	8,765.56	8,628.65	8,491.27	32.44	32.85	-100.85	-130.92	-2,071.73	1,557.52	1,514.49	43.03	36.195		
8,900.00	8,865.56	8,665.60	8,515.42	32.78	32.85	-101.88	-158.88	-2,071.46	1,578.81	1,535.87	42.94	36.771		
9,000.00	8,965.56	8,700.00	8,536.25	33.12	32.84	-102.88	-186.25	-2,071.19	1,604.70	1,561.94	42.77	37.522		
9,100.00	9,065.56	8,725.11	8,550.39	33.45	32.83	-103.63	-206.99	-2,070.98	1,635.24	1,592.75	42.49	38.485		
9,200.00	9,165.56	8,750.00	8,563.50	33.79	32.81	-104.39	-228.15	-2,070.78	1,670.37	1,628.21	42.16	39.622		
9,300.00	9,265.56	8,770.23	8,573.47	34.14	32.80	-105.02	-245.75	-2,070.60	1,709.96	1,668.20	41.76	40.948		
9,400.00	9,365.56	8,800.00	8,587.00	34.48	32.78	-105.97	-272.26	-2,070.34	1,753.91	1,712.53	41.38	42.389		
9,500.00	9,465.56	8,800.00	8,587.00	34.82	32.78	-105.97	-272.26	-2,070.34	1,801.75	1,760.94	40.81	44.145		
9,600.00	9,565.56	8,819.87	8,595.25	35.16	32.76	-106.60	-290.33	-2,070.17	1,853.45	1,813.10	40.35	45.933		
9,700.00	9,665.56	8,832.97	8,600.35	35.50	32.75	-107.03	-302.40	-2,070.05	1,908.72	1,868.87	39.85	47.896		
9,800.00	9,765.56	8,850.00	8,606.56	35.84	32.74	-107.58	-318.26	-2,069.89	1,967.31	1,927.93	39.38	49.955		

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 804H
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 804H	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	9,865.56	8,850.00	8,606.56	36.19	32.74	-107.58	-318.26	-2,069.89	2,028.92	1,990.08	38.84	52.240		
10,000.00	9,965.56	8,850.00	8,606.56	36.53	32.74	-107.58	-318.26	-2,069.89	2,093.49	2,055.17	38.32	54.632		
10,100.00	10,065.56	8,873.87	8,614.47	36.87	32.72	-108.36	-340.78	-2,069.67	2,160.28	2,122.33	37.95	56.921		
10,200.00	10,165.56	8,900.00	8,622.05	37.21	32.70	-109.22	-365.78	-2,069.43	2,229.90	2,192.28	37.62	59.275		
10,300.00	10,265.56	8,900.00	8,622.05	37.56	32.70	-109.22	-365.78	-2,069.43	2,301.20	2,264.01	37.19	61.873		
10,400.00	10,365.56	8,900.00	8,622.05	37.90	32.70	-109.22	-365.78	-2,069.43	2,374.58	2,337.78	36.80	64.525		
10,500.00	10,465.56	8,900.00	8,622.05	38.25	32.70	-109.22	-365.78	-2,069.43	2,449.85	2,413.40	36.45	67.219		
10,600.00	10,565.56	8,900.00	8,622.05	38.59	32.70	-109.22	-365.78	-2,069.43	2,526.83	2,490.70	36.13	69.943		
10,700.00	10,665.56	8,900.00	8,622.05	38.94	32.70	-109.22	-365.78	-2,069.43	2,605.37	2,569.53	35.84	72.687		
10,800.00	10,765.56	8,900.00	8,622.05	39.28	32.70	-109.22	-365.78	-2,069.43	2,685.34	2,649.75	35.59	75.442		
10,900.00	10,865.56	8,923.28	8,627.83	39.63	32.68	-109.99	-388.33	-2,069.21	2,766.12	2,730.65	35.47	77.983		
11,000.00	10,965.56	8,927.66	8,628.81	39.97	32.67	-110.13	-392.60	-2,069.17	2,848.38	2,813.08	35.30	80.687		
11,100.00	11,065.56	8,950.00	8,633.33	40.32	32.66	-110.87	-414.47	-2,068.95	2,932.02	2,896.79	35.23	83.231		
11,200.00	11,165.56	8,950.00	8,633.33	40.66	32.66	-110.87	-414.47	-2,068.95	3,016.22	2,981.12	35.10	85.933		
11,300.00	11,265.56	8,950.00	8,633.33	41.01	32.66	-110.87	-414.47	-2,068.95	3,101.36	3,066.36	35.00	88.608		
11,400.00	11,365.56	8,950.00	8,633.33	41.36	32.66	-110.87	-414.47	-2,068.95	3,187.36	3,152.43	34.93	91.251		
11,500.00	11,465.56	8,950.00	8,633.33	41.70	32.66	-110.87	-414.47	-2,068.95	3,274.16	3,239.27	34.88	93.859		
11,600.00	11,565.56	8,950.00	8,633.33	42.05	32.66	-110.87	-414.47	-2,068.95	3,361.69	3,326.83	34.86	96.434		
11,700.00	11,665.56	8,950.00	8,633.33	42.40	32.66	-110.87	-414.47	-2,068.95	3,449.90	3,415.04	34.86	98.965		
11,800.00	11,765.56	8,950.00	8,633.33	42.74	32.66	-110.87	-414.47	-2,068.95	3,538.74	3,503.85	34.88	101.451		
11,860.48	11,826.04	8,950.00	8,633.33	42.95	32.66	-110.87	-414.47	-2,068.95	3,592.75	3,557.84	34.90	102.931		
11,900.00	11,865.53	8,950.00	8,633.33	43.08	32.66	62.65	-414.47	-2,068.95	3,627.92	3,593.00	34.92	103.895		
11,950.00	11,915.20	8,950.00	8,633.33	43.24	32.66	54.91	-414.47	-2,068.95	3,671.69	3,636.76	34.93	105.108		
12,000.00	11,964.19	8,950.00	8,633.33	43.39	32.66	48.48	-414.47	-2,068.95	3,714.38	3,679.43	34.94	106.298		
12,050.00	12,012.13	8,950.00	8,633.33	43.53	32.66	43.21	-414.47	-2,068.95	3,755.70	3,720.75	34.95	107.456		
12,100.00	12,058.65	8,950.00	8,633.33	43.66	32.66	38.92	-414.47	-2,068.95	3,795.39	3,760.43	34.96	108.572		
12,150.00	12,103.40	8,972.65	8,637.03	43.78	32.64	35.20	-436.82	-2,068.73	3,832.72	3,797.71	35.01	109.461		
12,200.00	12,146.04	8,977.08	8,637.65	43.90	32.63	32.36	-441.20	-2,068.69	3,868.22	3,833.20	35.03	110.437		
12,250.00	12,186.24	9,000.00	8,640.32	44.00	32.62	29.91	-463.96	-2,068.47	3,901.65	3,866.58	35.08	111.235		
12,300.00	12,223.71	9,000.00	8,640.32	44.09	32.62	28.06	-463.96	-2,068.47	3,932.06	3,896.98	35.08	112.097		
12,350.00	12,258.14	9,000.00	8,640.32	44.17	32.62	26.53	-463.96	-2,068.47	3,959.75	3,924.67	35.08	112.871		
12,400.00	12,289.29	9,000.00	8,640.32	44.24	32.62	25.28	-463.96	-2,068.47	3,984.58	3,949.48	35.09	113.547		
12,450.00	12,316.92	9,000.00	8,640.32	44.30	32.62	24.26	-463.96	-2,068.47	4,006.41	3,971.30	35.11	114.117		
12,500.00	12,340.80	9,000.00	8,640.32	44.36	32.62	23.44	-463.96	-2,068.47	4,025.13	3,989.99	35.13	114.570		
12,550.00	12,360.77	9,000.00	8,640.32	44.43	32.62	22.80	-463.96	-2,068.47	4,040.63	4,005.47	35.17	114.900		
12,600.00	12,376.67	9,022.77	8,642.07	44.50	32.60	22.30	-486.66	-2,068.25	4,052.37	4,017.13	35.23	115.011		
12,650.00	12,388.38	9,050.00	8,642.97	44.59	32.59	21.94	-513.87	-2,067.98	4,061.31	4,026.00	35.31	115.018		
12,700.00	12,395.81	9,050.00	8,642.97	44.69	32.59	21.76	-513.87	-2,067.98	4,066.16	4,030.79	35.37	114.951		
12,750.00	12,398.90	9,050.00	8,642.97	44.81	32.59	21.71	-513.87	-2,067.98	4,067.58	4,032.13	35.45	114.741		
12,760.48	12,399.00	9,050.00	8,642.97	44.83	32.59	21.71	-513.87	-2,067.98	4,067.45	4,031.98	35.47	114.679		
12,800.00	12,399.00	9,050.00	8,642.97	44.94	32.59	21.71	-513.87	-2,067.98	4,066.83	4,031.29	35.54	114.421		
12,848.89	12,399.00	9,055.43	8,643.00	45.08	32.59	21.71	-519.30	-2,067.93	4,066.58	4,030.92	35.65	114.061		
12,900.00	12,399.00	9,106.31	8,643.00	45.25	32.59	21.71	-570.18	-2,067.43	4,066.58	4,030.80	35.78	113.653		
13,000.00	12,399.00	9,206.31	8,643.00	45.62	32.66	21.72	-670.18	-2,066.45	4,066.58	4,030.51	36.07	112.734		
13,100.00	12,399.00	9,306.31	8,643.00	46.05	32.86	21.72	-770.17	-2,065.47	4,066.59	4,030.18	36.41	111.685		
13,200.00	12,399.00	9,406.31	8,643.00	46.53	33.21	21.72	-870.17	-2,064.49	4,066.60	4,029.80	36.80	110.518		
13,300.00	12,399.00	9,506.31	8,643.00	47.07	33.68	21.72	-970.16	-2,063.51	4,066.60	4,029.38	37.22	109.245		
13,400.00	12,399.00	9,606.31	8,643.00	47.65	34.23	21.72	-1,070.16	-2,062.53	4,066.61	4,028.91	37.70	107.879		
13,500.00	12,399.00	9,706.31	8,643.00	48.29	34.86	21.72	-1,170.15	-2,061.55	4,066.61	4,028.40	38.21	106.431		
13,600.00	12,399.00	9,806.31	8,643.00	48.97	35.56	21.72	-1,270.15	-2,060.57	4,066.62	4,027.86	38.76	104.914		
13,700.00	12,399.00	9,906.31	8,643.00	49.70	36.32	21.72	-1,370.14	-2,059.59	4,066.62	4,027.27	39.35	103.340		
13,800.00	12,399.00	10,006.31	8,643.00	50.47	37.13	21.72	-1,470.14	-2,058.61	4,066.63	4,026.65	39.98	101.721		

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



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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 804H	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	12,399.00	10,106.31	8,643.00	51.29	38.00	21.72	-1,570.13	-2,057.63	4,066.63	4,025.99	40.64	100.066		
14,000.00	12,399.00	10,206.31	8,643.00	52.14	38.92	21.72	-1,670.13	-2,056.65	4,066.64	4,025.31	41.33	98.386		
14,100.00	12,399.00	10,306.31	8,643.00	53.03	39.89	21.72	-1,770.12	-2,055.68	4,066.65	4,024.59	42.06	96.689		
14,200.00	12,399.00	10,406.31	8,643.00	53.95	40.90	21.72	-1,870.12	-2,054.70	4,066.65	4,023.84	42.81	94.984		
14,300.00	12,399.00	10,506.31	8,643.00	54.91	41.94	21.72	-1,970.11	-2,053.72	4,066.66	4,023.06	43.60	93.278		
14,400.00	12,399.00	10,606.31	8,643.00	55.90	43.03	21.72	-2,070.11	-2,052.74	4,066.66	4,022.26	44.41	91.579		
14,500.00	12,399.00	10,706.31	8,643.00	56.93	44.15	21.72	-2,170.10	-2,051.76	4,066.67	4,021.43	45.24	89.893		
14,600.00	12,399.00	10,806.31	8,643.00	57.98	45.30	21.72	-2,270.10	-2,050.78	4,066.67	4,020.58	46.10	88.223		
14,700.00	12,399.00	10,906.31	8,643.00	59.06	46.48	21.72	-2,370.09	-2,049.80	4,066.68	4,019.71	46.97	86.573		
14,800.00	12,399.00	11,006.31	8,643.00	60.16	47.69	21.72	-2,470.09	-2,048.82	4,066.68	4,018.81	47.87	84.945		
14,900.00	12,399.00	11,106.31	8,643.00	61.29	48.92	21.72	-2,570.09	-2,047.84	4,066.69	4,017.90	48.80	83.342		
15,000.00	12,399.00	11,206.31	8,643.00	62.44	50.18	21.72	-2,670.08	-2,046.86	4,066.70	4,016.96	49.74	81.766		
15,100.00	12,399.00	11,306.31	8,643.00	63.61	51.45	21.72	-2,770.08	-2,045.88	4,066.70	4,016.01	50.69	80.221		
15,200.00	12,399.00	11,406.31	8,643.00	64.81	52.75	21.72	-2,870.07	-2,044.90	4,066.71	4,015.04	51.67	78.708		
15,300.00	12,399.00	11,506.31	8,643.00	66.02	54.07	21.72	-2,970.07	-2,043.92	4,066.71	4,014.05	52.66	77.227		
15,400.00	12,399.00	11,606.31	8,643.00	67.26	55.41	21.72	-3,070.06	-2,042.94	4,066.72	4,013.05	53.67	75.779		
15,500.00	12,399.00	11,706.31	8,643.00	68.51	56.76	21.72	-3,170.06	-2,041.96	4,066.72	4,012.04	54.68	74.368		
15,600.00	12,399.00	11,806.31	8,643.00	69.77	58.13	21.72	-3,270.05	-2,040.99	4,066.73	4,011.02	55.71	72.992		
15,700.00	12,399.00	11,906.31	8,643.00	71.06	59.51	21.72	-3,370.05	-2,040.01	4,066.74	4,009.98	56.76	71.650		
15,800.00	12,399.00	12,006.31	8,643.00	72.35	60.90	21.72	-3,470.04	-2,039.03	4,066.74	4,008.93	57.81	70.341		
15,900.00	12,399.00	12,106.31	8,643.00	73.67	62.31	21.72	-3,570.04	-2,038.05	4,066.75	4,007.86	58.88	69.065		
16,000.00	12,399.00	12,206.31	8,643.00	74.99	63.73	21.72	-3,670.03	-2,037.07	4,066.75	4,006.79	59.96	67.821		
16,100.00	12,399.00	12,306.31	8,643.00	76.33	65.16	21.72	-3,770.03	-2,036.09	4,066.76	4,005.71	61.05	66.611		
16,200.00	12,399.00	12,406.31	8,643.00	77.68	66.60	21.72	-3,870.02	-2,035.11	4,066.76	4,004.61	62.15	65.436		
16,300.00	12,399.00	12,506.31	8,643.00	79.04	68.05	21.72	-3,970.02	-2,034.13	4,066.77	4,003.51	63.25	64.292		
16,400.00	12,399.00	12,606.31	8,643.00	80.41	69.51	21.72	-4,070.01	-2,033.15	4,066.77	4,002.41	64.37	63.179		
16,500.00	12,399.00	12,706.31	8,643.00	81.80	70.97	21.72	-4,170.01	-2,032.17	4,066.78	4,001.29	65.49	62.097		
16,600.00	12,399.00	12,806.31	8,643.00	83.19	72.45	21.72	-4,270.00	-2,031.19	4,066.79	4,000.16	66.62	61.043		
16,700.00	12,399.00	12,906.31	8,643.00	84.59	73.93	21.72	-4,370.00	-2,030.21	4,066.79	3,999.03	67.76	60.018		
16,800.00	12,399.00	13,006.31	8,643.00	86.00	75.42	21.72	-4,469.99	-2,029.23	4,066.80	3,997.89	68.90	59.021		
16,900.00	12,399.00	13,106.31	8,643.00	87.42	76.91	21.72	-4,569.99	-2,028.25	4,066.80	3,996.75	70.06	58.050		
17,000.00	12,399.00	13,206.31	8,643.00	88.85	78.42	21.72	-4,669.98	-2,027.27	4,066.81	3,995.59	71.22	57.106		
17,100.00	12,399.00	13,306.31	8,643.00	90.28	79.92	21.72	-4,769.98	-2,026.30	4,066.81	3,994.44	72.38	56.188		
17,200.00	12,399.00	13,406.31	8,643.00	91.72	81.44	21.72	-4,869.97	-2,025.32	4,066.82	3,993.27	73.55	55.296		
17,300.00	12,399.00	13,506.31	8,643.00	93.17	82.95	21.72	-4,969.97	-2,024.34	4,066.82	3,992.11	74.72	54.428		
17,400.00	12,399.00	13,606.31	8,643.00	94.63	84.48	21.72	-5,069.97	-2,023.36	4,066.83	3,990.93	75.90	53.583		
17,500.00	12,399.00	13,706.31	8,643.00	96.09	86.01	21.72	-5,169.96	-2,022.38	4,066.84	3,989.76	77.08	52.761		
17,600.00	12,399.00	13,806.31	8,643.00	97.56	87.54	21.72	-5,269.96	-2,021.40	4,066.84	3,988.57	78.27	51.960		
17,700.00	12,399.00	13,906.31	8,643.00	99.03	89.07	21.72	-5,369.95	-2,020.42	4,066.85	3,987.39	79.46	51.180		
17,800.00	12,399.00	14,006.31	8,643.00	100.51	90.62	21.72	-5,469.95	-2,019.44	4,066.85	3,986.19	80.66	50.421		
17,900.00	12,399.00	14,106.31	8,643.00	102.00	92.16	21.72	-5,569.94	-2,018.46	4,066.86	3,985.00	81.86	49.681		
18,000.00	12,399.00	14,206.31	8,643.00	103.48	93.71	21.72	-5,669.94	-2,017.48	4,066.86	3,983.80	83.06	48.960		
18,100.00	12,399.00	14,306.31	8,643.00	104.98	95.26	21.73	-5,769.93	-2,016.50	4,066.87	3,982.60	84.27	48.258		
18,200.00	12,399.00	14,406.31	8,643.00	106.48	96.81	21.73	-5,869.93	-2,015.52	4,066.88	3,981.39	85.49	47.574		
18,300.00	12,399.00	14,506.31	8,643.00	107.98	98.37	21.73	-5,969.92	-2,014.54	4,066.88	3,980.18	86.70	46.908		
18,400.00	12,399.00	14,606.31	8,643.00	109.49	99.93	21.73	-6,069.92	-2,013.56	4,066.89	3,978.97	87.91	46.259		
18,500.00	12,399.00	14,706.31	8,643.00	111.00	101.50	21.73	-6,169.91	-2,012.58	4,066.89	3,977.76	89.13	45.626		
18,600.00	12,399.00	14,806.31	8,643.00	112.52	103.06	21.73	-6,269.91	-2,011.61	4,066.90	3,976.54	90.36	45.009		
18,700.00	12,399.00	14,906.31	8,643.00	114.04	104.63	21.73	-6,369.90	-2,010.63	4,066.90	3,975.32	91.58	44.406		
18,800.00	12,399.00	15,006.31	8,643.00	115.56	106.20	21.73	-6,469.90	-2,009.65	4,066.91	3,974.09	92.81	43.818		
18,900.00	12,399.00	15,106.31	8,643.00	117.09	107.78	21.73	-6,569.89	-2,008.67	4,066.91	3,972.87	94.05	43.244		
19,000.00	12,399.00	15,206.31	8,643.00	118.62	109.35	21.73	-6,669.89	-2,007.69	4,066.92	3,971.64	95.28	42.684		

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 804H
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 804H	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	12,399.00	15,306.31	8,643.00	120.15	110.93	21.73	-6,769.88	-2,006.71	4,066.93	3,970.41	96.52	42.137		
19,200.00	12,399.00	15,406.31	8,643.00	121.69	112.51	21.73	-6,869.88	-2,005.73	4,066.93	3,969.18	97.75	41.604		
19,300.00	12,399.00	15,506.31	8,643.00	123.22	114.10	21.73	-6,969.87	-2,004.75	4,066.94	3,967.94	98.99	41.083		
19,400.00	12,399.00	15,606.31	8,643.00	124.77	115.68	21.73	-7,069.87	-2,003.77	4,066.94	3,966.71	100.23	40.575		
19,500.00	12,399.00	15,706.31	8,643.00	126.31	117.27	21.73	-7,169.86	-2,002.79	4,066.95	3,965.47	101.48	40.077		
19,600.00	12,399.00	15,806.31	8,643.00	127.86	118.85	21.73	-7,269.86	-2,001.81	4,066.95	3,964.23	102.73	39.590		
19,700.00	12,399.00	15,906.31	8,643.00	129.41	120.44	21.73	-7,369.85	-2,000.83	4,066.96	3,962.98	103.97	39.115		
19,800.00	12,399.00	16,006.31	8,643.00	130.96	122.04	21.73	-7,469.85	-1,999.85	4,066.97	3,961.74	105.22	38.650		
19,900.00	12,399.00	16,106.31	8,643.00	132.52	123.63	21.73	-7,569.85	-1,998.87	4,066.97	3,960.50	106.47	38.197		
20,000.00	12,399.00	16,206.31	8,643.00	134.07	125.22	21.73	-7,669.84	-1,997.89	4,066.98	3,959.25	107.73	37.753		
20,100.00	12,399.00	16,306.31	8,643.00	135.63	126.82	21.73	-7,769.84	-1,996.92	4,066.98	3,958.00	108.98	37.319		
20,200.00	12,399.00	16,406.31	8,643.00	137.20	128.42	21.73	-7,869.83	-1,995.94	4,066.99	3,956.75	110.23	36.894		
20,300.00	12,399.00	16,506.31	8,643.00	138.76	130.01	21.73	-7,969.83	-1,994.96	4,066.99	3,955.50	111.49	36.478		
20,400.00	12,399.00	16,606.31	8,643.00	140.32	131.61	21.73	-8,069.82	-1,993.98	4,067.00	3,954.25	112.75	36.071		
20,500.00	12,399.00	16,706.31	8,643.00	141.89	133.22	21.73	-8,169.82	-1,993.00	4,067.00	3,952.99	114.01	35.672		
20,600.00	12,399.00	16,806.31	8,643.00	143.46	134.82	21.73	-8,269.81	-1,992.02	4,067.01	3,951.74	115.27	35.282		
20,700.00	12,399.00	16,906.31	8,643.00	145.03	136.42	21.73	-8,369.81	-1,991.04	4,067.02	3,950.48	116.53	34.900		
20,800.00	12,399.00	17,006.31	8,643.00	146.61	138.03	21.73	-8,469.80	-1,990.06	4,067.02	3,949.23	117.80	34.526		
20,900.00	12,399.00	17,106.31	8,643.00	148.18	139.63	21.73	-8,569.80	-1,989.08	4,067.03	3,947.97	119.06	34.160		
21,000.00	12,399.00	17,206.31	8,643.00	149.76	141.24	21.73	-8,669.79	-1,988.10	4,067.03	3,946.71	120.32	33.801		
21,100.00	12,399.00	17,306.31	8,643.00	151.34	142.85	21.73	-8,769.79	-1,987.12	4,067.04	3,945.45	121.59	33.449		
21,200.00	12,399.00	17,406.31	8,643.00	152.92	144.45	21.73	-8,869.78	-1,986.14	4,067.04	3,944.19	122.86	33.104		
21,300.00	12,399.00	17,506.31	8,643.00	154.50	146.06	21.73	-8,969.78	-1,985.16	4,067.05	3,942.93	124.12	32.766		
21,400.00	12,399.00	17,606.31	8,643.00	156.08	147.68	21.73	-9,069.77	-1,984.18	4,067.05	3,941.66	125.39	32.435		
21,500.00	12,399.00	17,706.31	8,643.00	157.66	149.29	21.73	-9,169.77	-1,983.21	4,067.06	3,940.40	126.66	32.109		
21,600.00	12,399.00	17,806.31	8,643.00	159.25	150.90	21.73	-9,269.76	-1,982.23	4,067.07	3,939.13	127.93	31.790		
21,700.00	12,399.00	17,906.31	8,643.00	160.84	152.51	21.73	-9,369.76	-1,981.25	4,067.07	3,937.87	129.21	31.477		
21,800.00	12,399.00	18,006.31	8,643.00	162.42	154.13	21.73	-9,469.75	-1,980.27	4,067.08	3,936.60	130.48	31.171		
21,900.00	12,399.00	18,106.31	8,643.00	164.01	155.74	21.73	-9,569.75	-1,979.29	4,067.08	3,935.33	131.75	30.870		
22,000.00	12,399.00	18,206.31	8,643.00	165.60	157.36	21.73	-9,669.74	-1,978.31	4,067.09	3,934.07	133.02	30.575		
22,100.00	12,399.00	18,306.31	8,643.00	167.19	158.97	21.73	-9,769.74	-1,977.33	4,067.09	3,932.80	134.29	30.285		
22,200.00	12,399.00	18,406.31	8,643.00	168.79	160.59	21.73	-9,869.74	-1,976.35	4,067.10	3,931.53	135.57	30.000		
22,300.00	12,399.00	18,506.31	8,643.00	170.38	162.21	21.73	-9,969.73	-1,975.37	4,067.11	3,930.26	136.85	29.720		
22,400.00	12,399.00	18,606.31	8,643.00	171.98	163.83	21.73	-10,069.73	-1,974.39	4,067.11	3,928.99	138.12	29.446		
22,500.00	12,399.00	18,706.31	8,643.00	173.57	165.44	21.73	-10,169.72	-1,973.41	4,067.12	3,927.72	139.40	29.176		
22,600.00	12,399.00	18,806.31	8,643.00	175.17	167.06	21.73	-10,269.72	-1,972.43	4,067.12	3,926.44	140.68	28.911		
22,700.00	12,399.00	18,906.31	8,643.00	176.77	168.68	21.73	-10,369.71	-1,971.45	4,067.13	3,925.17	141.95	28.651		
22,800.00	12,399.00	19,006.31	8,643.00	178.37	170.31	21.73	-10,469.71	-1,970.47	4,067.13	3,923.90	143.23	28.396		
22,900.00	12,399.00	19,106.31	8,643.00	179.97	171.93	21.73	-10,569.70	-1,969.49	4,067.14	3,922.63	144.51	28.145		
23,000.00	12,399.00	19,206.31	8,643.00	181.57	173.55	21.73	-10,669.70	-1,968.52	4,067.14	3,921.36	145.79	27.898		
23,100.00	12,399.00	19,306.31	8,643.00	183.17	175.17	21.74	-10,769.69	-1,967.54	4,067.15	3,920.08	147.07	27.655		
23,200.00	12,399.00	19,406.31	8,643.00	184.77	176.79	21.74	-10,869.69	-1,966.56	4,067.16	3,918.81	148.35	27.416		
23,300.00	12,399.00	19,506.31	8,643.00	186.38	178.42	21.74	-10,969.68	-1,965.58	4,067.16	3,917.53	149.63	27.181		
23,400.00	12,399.00	19,606.31	8,643.00	187.98	180.04	21.74	-11,069.68	-1,964.60	4,067.17	3,916.26	150.91	26.951		
23,500.00	12,399.00	19,706.31	8,643.00	189.58	181.67	21.74	-11,169.67	-1,963.62	4,067.17	3,914.98	152.19	26.724		
23,600.00	12,399.00	19,806.31	8,643.00	191.19	183.29	21.74	-11,269.67	-1,962.64	4,067.18	3,913.71	153.47	26.501		
23,700.00	12,399.00	19,906.31	8,643.00	192.80	184.92	21.74	-11,369.66	-1,961.66	4,067.18	3,912.43	154.75	26.282		
23,800.00	12,399.00	20,006.31	8,643.00	194.41	186.54	21.74	-11,469.66	-1,960.68	4,067.19	3,911.16	156.03	26.066		
23,803.49	12,399.00	20,009.80	8,643.00	194.46	186.60	21.74	-11,473.15	-1,960.65	4,067.19	3,911.11	156.08	26.059		
23,874.38	12,399.00	20,078.25	8,643.00	195.60	187.71	21.74	-11,541.60	-1,959.98	4,067.19	3,910.22	156.98	25.910 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 804H
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 804H	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	-2,873.72	2,911.39					
100.00	100.00	122.00	122.00	0.13	0.20	-99.23	-466.84	-2,873.72	2,911.39	2,911.15	0.24	N/A		
200.00	200.00	222.00	222.00	0.48	0.56	-99.23	-466.84	-2,873.72	2,911.39	2,910.65	0.74	3,922.367		
300.00	300.00	322.00	322.00	0.84	0.92	-99.23	-466.84	-2,873.72	2,911.39	2,910.14	1.25	2,332.177		
400.00	400.00	422.00	422.00	1.20	1.28	-99.23	-466.84	-2,873.72	2,911.39	2,909.63	1.75	1,658.956		
500.00	500.00	522.00	522.00	1.56	1.64	-99.23	-466.84	-2,873.72	2,911.39	2,909.13	2.26	1,287.252		
600.00	600.00	622.00	622.00	1.92	2.00	-99.23	-466.84	-2,873.72	2,911.39	2,908.62	2.77	1,051.598		
700.00	700.00	722.00	722.00	2.28	2.36	-99.23	-466.84	-2,873.72	2,911.39	2,908.11	3.28	888.863		
800.00	800.00	822.00	822.00	2.63	2.71	-99.23	-466.84	-2,873.72	2,911.39	2,907.61	3.78	769.741		
900.00	900.00	922.00	922.00	2.99	3.07	-99.23	-466.84	-2,873.72	2,911.39	2,907.10	4.29	678.771		
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-99.23	-466.84	-2,873.72	2,911.39	2,906.59	4.80	607.030		
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-99.23	-466.84	-2,873.72	2,911.39	2,906.09	5.30	549.003		
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-99.23	-466.84	-2,873.72	2,911.39	2,905.58	5.81	501.102		
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-99.23	-466.84	-2,873.72	2,911.39	2,905.07	6.32	460.888		
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-99.23	-466.84	-2,873.72	2,911.39	2,904.56	6.82	426.649		
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-99.23	-466.84	-2,873.72	2,911.39	2,904.06	7.33	397.145		
1,600.00	1,600.00	1,622.00	1,622.00	5.50	5.58	-99.23	-466.84	-2,873.72	2,911.39	2,903.55	7.84	371.458		
1,700.00	1,700.00	1,722.00	1,722.00	5.86	5.94	-99.23	-466.84	-2,873.72	2,911.39	2,903.04	8.34	348.892		
1,800.00	1,800.00	1,822.00	1,822.00	6.22	6.30	-99.23	-466.84	-2,873.72	2,911.39	2,902.54	8.85	328.910		
1,900.00	1,900.00	1,922.00	1,922.00	6.58	6.66	-99.23	-466.84	-2,873.72	2,911.39	2,902.03	9.36	311.094		
2,000.00	2,000.00	2,022.00	2,022.00	6.94	7.02	-99.23	-466.84	-2,873.72	2,911.39	2,901.52	9.87	295.108		
2,100.00	2,099.99	2,116.69	2,116.69	7.29	7.35	-24.64	-466.81	-2,873.74	2,910.22	2,899.86	10.35	281.072		
2,200.00	2,199.91	2,200.00	2,199.99	7.64	7.65	-24.67	-465.75	-2,874.45	2,907.26	2,896.45	10.81	268.977		
2,300.00	2,299.69	2,268.42	2,268.37	7.99	7.90	-24.69	-463.76	-2,875.78	2,902.72	2,891.50	11.22	258.602		
2,400.00	2,399.27	2,344.23	2,344.07	8.34	8.17	-24.71	-460.36	-2,878.07	2,896.65	2,884.99	11.66	248.426		
2,458.69	2,457.58	2,400.00	2,399.69	8.55	8.36	-24.72	-457.06	-2,880.28	2,892.40	2,880.45	11.94	242.143		
2,500.00	2,498.60	2,419.99	2,419.62	8.70	8.44	-24.71	-455.72	-2,881.18	2,889.23	2,877.14	12.10	238.858		
2,600.00	2,597.88	2,500.00	2,499.27	9.06	8.72	-24.65	-449.46	-2,885.38	2,882.24	2,869.70	12.54	229.774		
2,700.00	2,697.16	2,571.47	2,570.27	9.43	8.98	-24.58	-442.71	-2,889.91	2,876.08	2,863.11	12.97	221.725		
2,800.00	2,796.44	2,647.09	2,645.22	9.80	9.26	-24.47	-434.36	-2,895.51	2,870.76	2,857.35	13.41	214.049		
2,900.00	2,895.72	2,737.39	2,734.51	10.17	9.59	-24.31	-423.19	-2,903.01	2,866.14	2,852.24	13.89	206.281		
3,000.00	2,995.00	2,836.90	2,832.90	10.54	9.96	-24.14	-410.77	-2,911.34	2,861.61	2,847.20	14.41	198.648		
3,100.00	3,094.28	2,936.42	2,931.28	10.92	10.34	-23.97	-398.36	-2,919.68	2,857.10	2,842.18	14.92	191.497		
3,200.00	3,193.56	3,035.94	3,029.67	11.30	10.72	-23.79	-385.94	-2,928.01	2,852.62	2,837.18	15.44	184.791		
3,300.00	3,292.84	3,135.45	3,128.06	11.68	11.10	-23.62	-373.52	-2,936.34	2,848.17	2,832.21	15.96	178.492		
3,400.00	3,392.12	3,234.97	3,226.44	12.06	11.48	-23.44	-361.11	-2,944.68	2,843.74	2,827.26	16.48	172.568		
3,500.00	3,491.40	3,334.49	3,324.83	12.45	11.87	-23.26	-348.69	-2,953.01	2,839.34	2,822.34	17.00	166.990		
3,600.00	3,590.68	3,434.00	3,423.22	12.83	12.26	-23.09	-336.28	-2,961.34	2,834.97	2,817.44	17.53	161.729		
3,700.00	3,689.96	3,533.52	3,521.60	13.22	12.66	-22.91	-323.86	-2,969.68	2,830.63	2,812.57	18.06	156.763		
3,800.00	3,789.24	3,633.04	3,619.99	13.60	13.05	-22.73	-311.44	-2,978.01	2,826.31	2,807.72	18.59	152.068		
3,900.00	3,888.52	3,732.55	3,718.38	13.99	13.45	-22.55	-299.03	-2,986.34	2,822.02	2,802.90	19.12	147.623		
4,000.00	3,987.80	3,832.07	3,816.76	14.38	13.85	-22.37	-286.61	-2,994.67	2,817.76	2,798.11	19.65	143.412		
4,100.00	4,087.08	3,931.59	3,915.15	14.77	14.25	-22.19	-274.19	-3,003.01	2,813.53	2,793.34	20.18	139.416		
4,200.00	4,186.36	4,031.10	4,013.54	15.16	14.65	-22.01	-261.78	-3,011.34	2,809.32	2,788.60	20.71	135.621		
4,300.00	4,285.64	4,130.62	4,111.92	15.56	15.05	-21.83	-249.36	-3,019.67	2,805.14	2,783.89	21.25	132.012		
4,400.00	4,384.92	4,230.14	4,210.31	15.95	15.46	-21.65	-236.95	-3,028.01	2,800.99	2,779.21	21.78	128.577		
4,500.00	4,484.20	4,329.65	4,308.70	16.34	15.86	-21.47	-224.53	-3,036.34	2,796.87	2,774.55	22.32	125.305		
4,600.00	4,583.48	4,429.17	4,407.09	16.74	16.27	-21.29	-212.11	-3,044.67	2,792.78	2,769.92	22.86	122.183		
4,700.00	4,682.76	4,528.69	4,505.47	17.13	16.68	-21.10	-199.70	-3,053.01	2,788.71	2,765.32	23.39	119.203		
4,800.00	4,782.04	4,628.20	4,603.86	17.53	17.09	-20.92	-187.28	-3,061.34	2,784.68	2,760.75	23.93	116.356		
4,900.00	4,881.32	4,727.72	4,702.25	17.92	17.50	-20.74	-174.87	-3,069.67	2,780.67	2,756.20	24.47	113.633		
5,000.00	4,980.60	4,827.24	4,800.63	18.32	17.91	-20.55	-162.45	-3,078.00	2,776.69	2,751.68	25.01	111.027		

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 804H
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 804H	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	5,079.88	4,926.75	4,899.02	18.71	18.32	-20.37	-150.03	-3,086.34	2,772.74	2,747.20	25.55	108.530		
5,200.00	5,179.16	5,026.27	4,997.41	19.11	18.73	-20.18	-137.62	-3,094.67	2,768.82	2,742.74	26.09	106.136		
5,300.00	5,278.44	5,125.79	5,095.79	19.51	19.14	-19.99	-125.20	-3,103.00	2,764.93	2,738.31	26.63	103.839		
5,400.00	5,377.72	5,225.30	5,194.18	19.90	19.55	-19.81	-112.78	-3,111.34	2,761.07	2,733.91	27.17	101.634		
5,500.00	5,477.00	5,324.82	5,292.57	20.30	19.97	-19.62	-100.37	-3,119.67	2,757.24	2,729.54	27.71	99.515		
5,600.00	5,576.28	5,424.34	5,390.95	20.70	20.38	-19.43	-87.95	-3,128.00	2,753.44	2,725.19	28.25	97.477		
5,700.00	5,675.56	5,523.85	5,489.34	21.10	20.79	-19.25	-75.54	-3,136.33	2,749.67	2,720.88	28.79	95.517		
5,800.00	5,774.84	5,623.37	5,587.73	21.50	21.21	-19.06	-63.12	-3,144.67	2,745.93	2,716.60	29.33	93.629		
5,900.00	5,874.12	5,722.89	5,686.11	21.90	21.62	-18.87	-50.70	-3,153.00	2,742.22	2,712.35	29.87	91.810		
6,000.00	5,973.40	5,822.40	5,784.50	22.30	22.04	-18.68	-38.29	-3,161.33	2,738.53	2,708.13	30.41	90.057		
6,100.00	6,072.68	5,921.92	5,882.89	22.70	22.45	-18.49	-25.87	-3,169.67	2,734.88	2,703.93	30.95	88.366		
6,200.00	6,171.96	6,021.44	5,981.28	23.10	22.87	-18.30	-13.46	-3,178.00	2,731.26	2,699.77	31.49	86.734		
6,300.00	6,271.24	6,120.95	6,079.66	23.50	23.29	-18.11	-1.04	-3,186.33	2,727.67	2,695.64	32.03	85.158		
6,400.00	6,370.52	6,220.47	6,178.05	23.90	23.70	-17.91	11.38	-3,194.67	2,724.11	2,691.54	32.57	83.635		
6,500.00	6,469.80	6,319.99	6,276.44	24.30	24.12	-17.72	23.79	-3,203.00	2,720.58	2,687.47	33.11	82.163		
6,600.00	6,569.08	6,419.50	6,374.82	24.70	24.54	-17.53	36.21	-3,211.33	2,717.09	2,683.43	33.65	80.739		
6,700.00	6,668.36	6,519.02	6,473.21	25.10	24.96	-17.34	48.62	-3,219.66	2,713.62	2,679.43	34.19	79.361		
6,800.00	6,767.64	6,618.54	6,571.60	25.50	25.37	-17.14	61.04	-3,228.00	2,710.18	2,675.45	34.73	78.028		
6,900.00	6,866.91	6,718.05	6,669.98	25.90	25.79	-16.95	73.46	-3,236.33	2,706.78	2,671.50	35.27	76.736		
6,934.75	6,901.42	6,752.64	6,704.17	26.04	25.94	-16.88	77.77	-3,239.23	2,705.60	2,670.14	35.46	76.296		
7,000.00	6,966.26	6,817.57	6,768.37	26.30	26.21	-16.74	85.87	-3,244.66	2,703.94	2,668.13	35.81	75.500		
7,100.00	7,065.85	6,942.83	6,892.29	26.68	26.73	-16.48	101.02	-3,254.83	2,703.29	2,666.87	36.43	74.215		
7,154.59	7,120.30	7,031.38	6,980.19	26.88	27.09	-16.33	109.95	-3,260.82	2,703.26	2,666.45	36.81	73.442 CC		
7,200.00	7,165.65	7,105.24	7,053.67	27.05	27.38	-16.22	116.10	-3,264.95	2,703.28	2,666.16	37.12	72.825		
7,300.00	7,265.57	7,268.29	7,216.32	27.41	27.98	-16.06	125.49	-3,271.25	2,703.47	2,665.70	37.78	71.567		
7,393.44	7,359.00	7,420.98	7,368.94	27.72	28.51	-90.59	129.06	-3,273.65	2,703.82	2,665.47	38.35	70.501		
7,400.00	7,365.56	7,431.71	7,379.67	27.74	28.54	-90.59	129.12	-3,273.69	2,703.84	2,665.45	38.39	70.430		
7,500.00	7,465.56	7,539.61	7,487.56	28.08	28.90	-90.59	129.16	-3,273.72	2,703.86	2,664.98	38.88	69.538		
7,600.00	7,565.56	7,639.61	7,587.56	28.41	29.22	-90.59	129.16	-3,273.72	2,703.86	2,664.50	39.36	68.691		
7,700.00	7,665.56	7,739.61	7,687.56	28.74	29.55	-90.59	129.16	-3,273.72	2,703.86	2,664.02	39.84	67.864		
7,800.00	7,765.56	7,839.61	7,787.56	29.07	29.88	-90.59	129.16	-3,273.72	2,703.86	2,663.54	40.32	67.055		
7,900.00	7,865.56	7,939.61	7,887.56	29.41	30.21	-90.59	129.16	-3,273.72	2,703.86	2,663.05	40.80	66.264		
8,000.00	7,965.56	8,039.61	7,987.56	29.74	30.54	-90.59	129.16	-3,273.72	2,703.86	2,662.57	41.29	65.491		
8,100.00	8,065.56	8,139.61	8,087.56	30.08	30.87	-90.59	129.16	-3,273.72	2,703.86	2,662.09	41.77	64.735		
8,200.00	8,165.56	8,239.61	8,187.56	30.41	31.20	-90.59	129.16	-3,273.72	2,703.86	2,661.61	42.25	63.995		
8,300.00	8,265.56	8,339.61	8,287.56	30.75	31.54	-90.59	129.16	-3,273.72	2,703.86	2,661.12	42.73	63.271		
8,400.00	8,365.56	8,439.61	8,387.56	31.09	31.87	-90.59	129.16	-3,273.72	2,703.86	2,660.64	43.22	62.562		
8,500.00	8,465.56	8,539.61	8,487.56	31.42	32.20	-90.59	129.16	-3,273.72	2,703.86	2,660.16	43.70	61.868		
8,600.00	8,565.56	8,639.61	8,587.56	31.76	32.54	-90.59	129.16	-3,273.72	2,703.86	2,659.67	44.19	61.189		
8,700.00	8,665.56	8,739.61	8,687.56	32.10	32.87	-90.59	129.16	-3,273.72	2,703.86	2,659.18	44.67	60.524		
8,800.00	8,765.56	8,839.61	8,787.56	32.44	33.21	-90.59	129.16	-3,273.72	2,703.86	2,658.70	45.16	59.873		
8,900.00	8,865.56	8,939.61	8,887.56	32.78	33.54	-90.59	129.16	-3,273.72	2,703.86	2,658.21	45.65	59.235		
9,000.00	8,965.56	9,039.61	8,987.56	33.12	33.88	-90.59	129.16	-3,273.72	2,703.86	2,657.73	46.13	58.609		
9,100.00	9,065.56	9,139.61	9,087.56	33.45	34.21	-90.59	129.16	-3,273.72	2,703.86	2,657.24	46.62	57.997		
9,200.00	9,165.56	9,239.61	9,187.56	33.79	34.55	-90.59	129.16	-3,273.72	2,703.86	2,656.75	47.11	57.396		
9,300.00	9,265.56	9,339.61	9,287.56	34.14	34.89	-90.59	129.16	-3,273.72	2,703.86	2,656.26	47.60	56.807		
9,400.00	9,365.56	9,439.61	9,387.56	34.48	35.22	-90.59	129.16	-3,273.72	2,703.86	2,655.77	48.09	56.230		
9,500.00	9,465.56	9,539.61	9,487.56	34.82	35.56	-90.59	129.16	-3,273.72	2,703.86	2,655.28	48.57	55.664		
9,600.00	9,565.56	9,639.61	9,587.56	35.16	35.90	-90.59	129.16	-3,273.72	2,703.86	2,654.80	49.06	55.109		
9,700.00	9,665.56	9,739.61	9,687.56	35.50	36.24	-90.59	129.16	-3,273.72	2,703.86	2,654.31	49.55	54.565		
9,800.00	9,765.56	9,839.61	9,787.56	35.84	36.58	-90.59	129.16	-3,273.72	2,703.86	2,653.82	50.04	54.030		
9,900.00	9,865.56	9,939.61	9,887.56	36.19	36.92	-90.59	129.16	-3,273.72	2,703.86	2,653.33	50.53	53.506		

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 804H
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 804H	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	9,965.56	10,039.61	9,987.56	36.53	37.26	-90.59	129.16	-3,273.72	2,703.86	2,652.83	51.02	52.992		
10,001.64	9,967.21	10,041.25	9,989.21	36.53	37.26	-90.59	129.16	-3,273.72	2,703.86	2,652.83	51.03	52.983		
10,100.00	10,065.56	10,139.43	10,087.35	36.87	37.58	-90.62	127.67	-3,273.70	2,703.86	2,652.36	51.50	52.500		
10,200.00	10,165.56	10,236.49	10,183.10	37.21	37.83	-90.94	112.53	-3,273.55	2,703.92	2,651.99	51.94	52.062 ES		
10,300.00	10,265.56	10,326.13	10,268.12	37.56	38.01	-91.54	84.38	-3,273.28	2,704.32	2,651.99	52.33	51.676		
10,400.00	10,365.56	10,405.42	10,338.85	37.90	38.12	-92.29	48.69	-3,272.93	2,705.54	2,652.84	52.69	51.344		
10,500.00	10,465.56	10,473.56	10,395.21	38.25	38.19	-93.10	10.48	-3,272.56	2,708.10	2,655.08	53.03	51.072		
10,600.00	10,565.56	10,531.20	10,439.07	38.59	38.23	-93.89	-26.88	-3,272.19	2,712.51	2,659.18	53.33	50.867		
10,700.00	10,665.56	10,579.67	10,472.89	38.94	38.25	-94.63	-61.58	-3,271.86	2,719.17	2,665.58	53.59	50.737		
10,800.00	10,765.56	10,620.45	10,498.99	39.28	38.26	-95.29	-92.91	-3,271.55	2,728.39	2,674.56	53.82	50.690		
10,900.00	10,865.56	10,650.00	10,516.48	39.63	38.26	-95.79	-116.72	-3,271.32	2,740.39	2,686.38	54.01	50.739		
11,000.00	10,965.56	10,684.21	10,535.15	39.97	38.26	-96.39	-145.37	-3,271.04	2,755.31	2,701.14	54.17	50.867		
11,100.00	11,065.56	10,700.00	10,543.19	40.32	38.26	-96.67	-158.96	-3,270.91	2,773.28	2,719.01	54.26	51.109		
11,200.00	11,165.56	10,730.97	10,557.85	40.66	38.25	-97.24	-186.23	-3,270.64	2,794.24	2,739.90	54.34	51.418		
11,300.00	11,265.56	10,750.00	10,566.12	41.01	38.25	-97.60	-203.38	-3,270.47	2,818.31	2,763.94	54.37	51.835		
11,400.00	11,365.56	10,766.29	10,572.74	41.36	38.24	-97.91	-218.25	-3,270.33	2,845.44	2,791.08	54.36	52.344		
11,500.00	11,465.56	10,780.82	10,578.30	41.70	38.24	-98.19	-231.68	-3,270.20	2,875.57	2,821.25	54.32	52.941		
11,600.00	11,565.56	10,800.00	10,585.10	42.05	38.23	-98.56	-249.62	-3,270.02	2,908.67	2,854.42	54.25	53.612		
11,700.00	11,665.56	10,800.00	10,585.10	42.40	38.23	-98.56	-249.62	-3,270.02	2,944.64	2,890.51	54.13	54.399		
11,800.00	11,765.56	10,800.00	10,585.10	42.74	38.23	-98.56	-249.62	-3,270.02	2,983.52	2,929.53	53.98	55.266		
11,860.48	11,826.04	10,821.28	10,591.93	42.95	38.22	-98.98	-269.76	-3,269.82	3,008.15	2,954.22	53.93	55.776		
11,900.00	11,865.53	10,825.23	10,593.12	43.08	38.22	79.72	-273.53	-3,269.79	3,024.67	2,970.80	53.87	56.148		
11,950.00	11,915.20	10,831.07	10,594.83	43.24	38.22	77.36	-279.11	-3,269.73	3,045.50	2,991.72	53.78	56.628		
12,000.00	11,964.19	10,850.00	10,599.97	43.39	38.21	74.84	-297.33	-3,269.56	3,066.18	3,012.47	53.71	57.085		
12,050.00	12,012.13	10,850.00	10,599.97	43.53	38.21	72.73	-297.33	-3,269.56	3,086.30	3,032.70	53.60	57.577		
12,100.00	12,058.65	10,850.00	10,599.97	43.66	38.21	70.70	-297.33	-3,269.56	3,105.91	3,052.42	53.49	58.063		
12,150.00	12,103.40	10,850.00	10,599.97	43.78	38.21	68.78	-297.33	-3,269.56	3,124.88	3,071.50	53.38	58.537		
12,200.00	12,146.04	10,871.46	10,605.06	43.90	38.20	66.71	-318.18	-3,269.35	3,142.79	3,089.47	53.32	58.944		
12,250.00	12,186.24	10,881.27	10,607.13	44.00	38.20	64.95	-327.77	-3,269.26	3,159.77	3,106.53	53.24	59.352		
12,300.00	12,223.71	10,900.00	10,610.62	44.09	38.19	63.26	-346.17	-3,269.08	3,175.62	3,122.44	53.18	59.714		
12,350.00	12,258.14	10,900.00	10,610.62	44.17	38.19	61.92	-346.17	-3,269.08	3,190.11	3,137.01	53.11	60.072		
12,400.00	12,289.29	10,900.00	10,610.62	44.24	38.19	60.71	-346.17	-3,269.08	3,203.35	3,150.31	53.05	60.389		
12,450.00	12,316.92	10,924.29	10,614.25	44.30	38.18	59.50	-370.18	-3,268.84	3,214.89	3,161.85	53.04	60.615		
12,500.00	12,340.80	10,950.00	10,616.98	44.36	38.17	58.48	-395.74	-3,268.60	3,225.08	3,172.03	53.05	60.798		
12,550.00	12,360.77	10,950.00	10,616.98	44.43	38.17	57.77	-395.74	-3,268.60	3,233.36	3,180.31	53.05	60.954		
12,600.00	12,376.67	10,950.00	10,616.98	44.50	38.17	57.19	-395.74	-3,268.60	3,240.09	3,187.02	53.07	61.053		
12,650.00	12,388.38	10,971.14	10,618.36	44.59	38.16	56.72	-416.84	-3,268.39	3,244.96	3,191.82	53.14	61.068		
12,700.00	12,395.81	10,998.09	10,619.00	44.69	38.16	56.42	-443.77	-3,268.13	3,248.22	3,194.99	53.23	61.026		
12,750.00	12,398.90	10,998.09	10,619.00	44.81	38.16	56.32	-443.77	-3,268.13	3,249.37	3,196.05	53.33	60.934		
12,760.48	12,399.00	10,998.09	10,619.00	44.83	38.16	56.32	-443.77	-3,268.13	3,249.41	3,196.06	53.35	60.908		
12,762.05	12,399.00	10,998.19	10,619.00	44.84	38.16	56.32	-443.88	-3,268.13	3,249.41	3,196.05	53.35	60.903		
12,800.00	12,399.00	11,036.14	10,619.00	44.94	38.16	56.32	-481.82	-3,267.76	3,249.41	3,195.94	53.47	60.772		
12,900.00	12,399.00	11,136.14	10,619.00	45.25	38.24	56.32	-581.82	-3,266.78	3,249.43	3,195.61	53.81	60.382		
13,000.00	12,399.00	11,236.14	10,619.00	45.62	38.46	56.32	-681.82	-3,265.81	3,249.45	3,195.21	54.24	59.914		
13,100.00	12,399.00	11,336.14	10,619.00	46.05	38.76	56.32	-781.81	-3,264.83	3,249.46	3,194.73	54.73	59.375		
13,200.00	12,399.00	11,436.14	10,619.00	46.53	39.14	56.32	-881.81	-3,263.85	3,249.48	3,194.19	55.29	58.770		
13,300.00	12,399.00	11,536.14	10,619.00	47.07	39.58	56.32	-981.80	-3,262.88	3,249.49	3,193.57	55.92	58.107		
13,400.00	12,399.00	11,636.14	10,619.00	47.65	40.08	56.32	-1,081.80	-3,261.90	3,249.51	3,192.89	56.62	57.392		
13,500.00	12,399.00	11,736.14	10,619.00	48.29	40.65	56.32	-1,181.79	-3,260.93	3,249.52	3,192.15	57.38	56.632		
13,600.00	12,399.00	11,836.14	10,619.00	48.97	41.26	56.32	-1,281.79	-3,259.95	3,249.54	3,191.34	58.20	55.834		
13,700.00	12,399.00	11,936.14	10,619.00	49.70	41.93	56.32	-1,381.78	-3,258.98	3,249.56	3,190.48	59.08	55.003		
13,800.00	12,399.00	12,036.14	10,619.00	50.47	42.66	56.32	-1,481.78	-3,258.00	3,249.57	3,189.56	60.02	54.145		

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 804H
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 804H	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 +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
13,900.00	12,399.00	12,136.14	10,619.00	51.29	43.43	56.32	-1,581.77	-3,257.03	3,249.59	3,188.58	61.01	53.267					
14,000.00	12,399.00	12,236.14	10,619.00	52.14	44.25	56.32	-1,681.77	-3,256.05	3,249.60	3,187.56	62.05	52.374					
14,100.00	12,399.00	12,336.14	10,619.00	53.03	45.11	56.32	-1,781.76	-3,255.08	3,249.62	3,186.49	63.13	51.471					
14,200.00	12,399.00	12,436.14	10,619.00	53.95	46.02	56.32	-1,881.76	-3,254.10	3,249.64	3,185.37	64.27	50.563					
14,300.00	12,399.00	12,536.14	10,619.00	54.91	46.97	56.32	-1,981.75	-3,253.13	3,249.65	3,184.21	65.45	49.654					
14,400.00	12,399.00	12,636.14	10,619.00	55.90	47.95	56.32	-2,081.75	-3,252.15	3,249.67	3,183.00	66.66	48.747					
14,500.00	12,399.00	12,736.14	10,619.00	56.93	48.97	56.32	-2,181.74	-3,251.17	3,249.68	3,181.76	67.92	47.845					
14,600.00	12,399.00	12,836.14	10,619.00	57.98	50.02	56.32	-2,281.74	-3,250.20	3,249.70	3,180.48	69.22	46.950					
14,700.00	12,399.00	12,936.14	10,619.00	59.06	51.11	56.32	-2,381.73	-3,249.22	3,249.72	3,179.17	70.54	46.067					
14,800.00	12,399.00	13,036.14	10,619.00	60.16	52.22	56.32	-2,481.73	-3,248.25	3,249.73	3,177.83	71.90	45.195					
14,900.00	12,399.00	13,136.14	10,619.00	61.29	53.37	56.32	-2,581.73	-3,247.27	3,249.75	3,176.45	73.30	44.338					
15,000.00	12,399.00	13,236.14	10,619.00	62.44	54.53	56.32	-2,681.72	-3,246.30	3,249.76	3,175.05	74.72	43.495					
15,100.00	12,399.00	13,336.14	10,619.00	63.61	55.72	56.32	-2,781.72	-3,245.32	3,249.78	3,173.61	76.16	42.668					
15,200.00	12,399.00	13,436.14	10,619.00	64.81	56.94	56.32	-2,881.71	-3,244.35	3,249.79	3,172.16	77.64	41.858					
15,300.00	12,399.00	13,536.14	10,619.00	66.02	58.18	56.32	-2,981.71	-3,243.37	3,249.81	3,170.67	79.14	41.064					
15,400.00	12,399.00	13,636.14	10,619.00	67.26	59.43	56.32	-3,081.70	-3,242.40	3,249.83	3,169.16	80.66	40.289					
15,500.00	12,399.00	13,736.14	10,619.00	68.51	60.71	56.32	-3,181.70	-3,241.42	3,249.84	3,167.64	82.21	39.533					
15,600.00	12,399.00	13,836.14	10,619.00	69.77	62.00	56.32	-3,281.69	-3,240.45	3,249.86	3,166.09	83.77	38.796					
15,700.00	12,399.00	13,936.14	10,619.00	71.06	63.31	56.32	-3,381.69	-3,239.47	3,249.87	3,164.52	85.35	38.076					
15,800.00	12,399.00	14,036.14	10,619.00	72.35	64.63	56.33	-3,481.68	-3,238.49	3,249.89	3,162.94	86.95	37.375					
15,900.00	12,399.00	14,136.14	10,619.00	73.67	65.97	56.33	-3,581.68	-3,237.52	3,249.91	3,161.33	88.57	36.692					
16,000.00	12,399.00	14,236.14	10,619.00	74.99	67.33	56.33	-3,681.67	-3,236.54	3,249.92	3,159.71	90.21	36.027					
16,100.00	12,399.00	14,336.14	10,619.00	76.33	68.69	56.33	-3,781.67	-3,235.57	3,249.94	3,158.08	91.86	35.379					
16,200.00	12,399.00	14,436.14	10,619.00	77.68	70.07	56.33	-3,881.66	-3,234.59	3,249.95	3,156.43	93.53	34.749					
16,300.00	12,399.00	14,536.14	10,619.00	79.04	71.46	56.33	-3,981.66	-3,233.62	3,249.97	3,154.76	95.21	34.136					
16,400.00	12,399.00	14,636.14	10,619.00	80.41	72.86	56.33	-4,081.65	-3,232.64	3,249.99	3,153.09	96.90	33.540					
16,500.00	12,399.00	14,736.14	10,619.00	81.80	74.27	56.33	-4,181.65	-3,231.67	3,250.00	3,151.40	98.61	32.960					
16,600.00	12,399.00	14,836.14	10,619.00	83.19	75.70	56.33	-4,281.64	-3,230.69	3,250.02	3,149.69	100.32	32.395					
16,700.00	12,399.00	14,936.14	10,619.00	84.59	77.13	56.33	-4,381.64	-3,229.72	3,250.03	3,147.98	102.05	31.847					
16,800.00	12,399.00	15,036.14	10,619.00	86.00	78.56	56.33	-4,481.63	-3,228.74	3,250.05	3,146.26	103.79	31.314					
16,900.00	12,399.00	15,136.14	10,619.00	87.42	80.01	56.33	-4,581.63	-3,227.77	3,250.06	3,144.53	105.54	30.795					
17,000.00	12,399.00	15,236.14	10,619.00	88.85	81.47	56.33	-4,681.63	-3,226.79	3,250.08	3,142.78	107.30	30.290					
17,100.00	12,399.00	15,336.14	10,619.00	90.28	82.93	56.33	-4,781.62	-3,225.81	3,250.10	3,141.03	109.06	29.800					
17,200.00	12,399.00	15,436.14	10,619.00	91.72	84.40	56.33	-4,881.62	-3,224.84	3,250.11	3,139.27	110.84	29.323					
17,300.00	12,399.00	15,536.14	10,619.00	93.17	85.87	56.33	-4,981.61	-3,223.86	3,250.13	3,137.51	112.62	28.859					
17,400.00	12,399.00	15,636.14	10,619.00	94.63	87.35	56.33	-5,081.61	-3,222.89	3,250.14	3,135.73	114.41	28.407					
17,500.00	12,399.00	15,736.14	10,619.00	96.09	88.84	56.33	-5,181.60	-3,221.91	3,250.16	3,133.95	116.21	27.968					
17,600.00	12,399.00	15,836.14	10,619.00	97.56	90.34	56.33	-5,281.60	-3,220.94	3,250.18	3,132.16	118.02	27.540					
17,700.00	12,399.00	15,936.14	10,619.00	99.03	91.83	56.33	-5,381.59	-3,219.96	3,250.19	3,130.36	119.83	27.123					
17,800.00	12,399.00	16,036.14	10,619.00	100.51	93.34	56.33	-5,481.59	-3,218.99	3,250.21	3,128.56	121.65	26.718					
17,900.00	12,399.00	16,136.14	10,619.00	102.00	94.85	56.33	-5,581.58	-3,218.01	3,250.22	3,126.75	123.48	26.322					
18,000.00	12,399.00	16,236.14	10,619.00	103.48	96.36	56.33	-5,681.58	-3,217.04	3,250.24	3,124.93	125.31	25.938					
18,100.00	12,399.00	16,336.14	10,619.00	104.98	97.88	56.33	-5,781.57	-3,216.06	3,250.26	3,123.11	127.15	25.563					
18,200.00	12,399.00	16,436.14	10,619.00	106.48	99.40	56.33	-5,881.57	-3,215.09	3,250.27	3,121.28	128.99	25.198					
18,300.00	12,399.00	16,536.14	10,619.00	107.98	100.93	56.33	-5,981.56	-3,214.11	3,250.29	3,119.45	130.84	24.842					
18,400.00	12,399.00	16,636.14	10,619.00	109.49	102.46	56.33	-6,081.56	-3,213.13	3,250.30	3,117.61	132.69	24.495					
18,500.00	12,399.00	16,736.14	10,619.00	111.00	103.99	56.33	-6,181.55	-3,212.16	3,250.32	3,115.77	134.55	24.158					
18,600.00	12,399.00	16,836.14	10,619.00	112.52	105.53	56.33	-6,281.55	-3,211.18	3,250.33	3,113.93	136.41	23.828					
18,700.00	12,399.00	16,936.14	10,619.00	114.04	107.07	56.33	-6,381.54	-3,210.21	3,250.35	3,112.08	138.27	23.507					
18,800.00	12,399.00	17,036.14	10,619.00	115.56	108.62	56.33	-6,481.54	-3,209.23	3,250.37	3,110.23	140.14	23.194					
18,900.00	12,399.00	17,136.14	10,619.00	117.09	110.16	56.33	-6,581.53	-3,208.26	3,250.38	3,108.37	142.01	22.888					
19,000.00	12,399.00	17,236.14	10,619.00	118.62	111.71	56.33	-6,681.53	-3,207.28	3,250.40	3,106.51	143.89	22.590					

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 804H
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 804H	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 +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,100.00	12,399.00	17,336.14	10,619.00	120.15	113.27	56.33	-6,781.53	-3,206.31	3,250.41	3,104.64	145.77	22.298		
19,200.00	12,399.00	17,436.14	10,619.00	121.69	114.82	56.33	-6,881.52	-3,205.33	3,250.43	3,102.78	147.65	22.014		
19,300.00	12,399.00	17,536.14	10,619.00	123.22	116.38	56.33	-6,981.52	-3,204.36	3,250.45	3,100.90	149.54	21.736		
19,400.00	12,399.00	17,636.14	10,619.00	124.77	117.94	56.33	-7,081.51	-3,203.38	3,250.46	3,099.03	151.43	21.465		
19,500.00	12,399.00	17,736.14	10,619.00	126.31	119.50	56.33	-7,181.51	-3,202.41	3,250.48	3,097.15	153.33	21.200		
19,600.00	12,399.00	17,836.14	10,619.00	127.86	121.07	56.33	-7,281.50	-3,201.43	3,250.49	3,095.27	155.22	20.941		
19,700.00	12,399.00	17,936.14	10,619.00	129.41	122.64	56.33	-7,381.50	-3,200.45	3,250.51	3,093.38	157.13	20.687		
19,800.00	12,399.00	18,036.14	10,619.00	130.96	124.21	56.33	-7,481.49	-3,199.48	3,250.53	3,091.50	159.03	20.440		
19,900.00	12,399.00	18,136.14	10,619.00	132.52	125.78	56.33	-7,581.49	-3,198.50	3,250.54	3,089.61	160.93	20.198		
20,000.00	12,399.00	18,236.14	10,619.00	134.07	127.35	56.33	-7,681.48	-3,197.53	3,250.56	3,087.72	162.84	19.962		
20,100.00	12,399.00	18,336.14	10,619.00	135.63	128.93	56.33	-7,781.48	-3,196.55	3,250.57	3,085.83	164.74	19.731		
20,200.00	12,399.00	18,436.14	10,619.00	137.20	130.51	56.33	-7,881.47	-3,195.58	3,250.59	3,083.93	166.65	19.505		
20,300.00	12,399.00	18,536.14	10,619.00	138.76	132.09	56.33	-7,981.47	-3,194.60	3,250.60	3,082.04	168.57	19.284		
20,400.00	12,399.00	18,636.14	10,619.00	140.32	133.67	56.33	-8,081.46	-3,193.63	3,250.62	3,080.14	170.48	19.067		
20,500.00	12,399.00	18,736.14	10,619.00	141.89	135.25	56.33	-8,181.46	-3,192.65	3,250.64	3,078.24	172.40	18.855		
20,600.00	12,399.00	18,836.14	10,619.00	143.46	136.84	56.33	-8,281.45	-3,191.68	3,250.65	3,076.33	174.32	18.648		
20,700.00	12,399.00	18,936.14	10,619.00	145.03	138.42	56.33	-8,381.45	-3,190.70	3,250.67	3,074.43	176.24	18.444		
20,800.00	12,399.00	19,036.14	10,619.00	146.61	140.01	56.33	-8,481.44	-3,189.73	3,250.68	3,072.52	178.17	18.245		
20,900.00	12,399.00	19,136.14	10,619.00	148.18	141.60	56.33	-8,581.44	-3,188.75	3,250.70	3,070.61	180.09	18.050		
21,000.00	12,399.00	19,236.14	10,619.00	149.76	143.19	56.33	-8,681.43	-3,187.77	3,250.72	3,068.70	182.02	17.859		
21,100.00	12,399.00	19,336.14	10,619.00	151.34	144.78	56.33	-8,781.43	-3,186.80	3,250.73	3,066.78	183.95	17.672		
21,200.00	12,399.00	19,436.14	10,619.00	152.92	146.38	56.34	-8,881.43	-3,185.82	3,250.75	3,064.87	185.88	17.488		
21,300.00	12,399.00	19,536.14	10,619.00	154.50	147.97	56.34	-8,981.42	-3,184.85	3,250.76	3,062.95	187.81	17.309		
21,400.00	12,399.00	19,636.14	10,619.00	156.08	149.57	56.34	-9,081.42	-3,183.87	3,250.78	3,061.04	189.74	17.133		
21,500.00	12,399.00	19,736.14	10,619.00	157.66	151.17	56.34	-9,181.41	-3,182.90	3,250.80	3,059.12	191.68	16.960		
21,600.00	12,399.00	19,836.14	10,619.00	159.25	152.76	56.34	-9,281.41	-3,181.92	3,250.81	3,057.20	193.61	16.791		
21,700.00	12,399.00	19,936.14	10,619.00	160.84	154.36	56.34	-9,381.40	-3,180.95	3,250.83	3,055.28	195.55	16.624		
21,800.00	12,399.00	20,036.14	10,619.00	162.42	155.96	56.34	-9,481.40	-3,179.97	3,250.84	3,053.36	197.48	16.461		
21,900.00	12,399.00	20,136.14	10,619.00	164.01	157.56	56.34	-9,581.39	-3,179.00	3,250.86	3,051.44	199.42	16.301		
22,000.00	12,399.00	20,236.14	10,619.00	165.60	159.17	56.34	-9,681.39	-3,178.02	3,250.87	3,049.51	201.36	16.144		
22,100.00	12,399.00	20,336.14	10,619.00	167.19	160.77	56.34	-9,781.38	-3,177.05	3,250.89	3,047.59	203.30	15.990		
22,200.00	12,399.00	20,436.14	10,619.00	168.79	162.38	56.34	-9,881.38	-3,176.07	3,250.91	3,045.66	205.25	15.839		
22,300.00	12,399.00	20,536.14	10,619.00	170.38	163.98	56.34	-9,981.37	-3,175.09	3,250.92	3,043.73	207.19	15.691		
22,400.00	12,399.00	20,636.14	10,619.00	171.98	165.59	56.34	-10,081.37	-3,174.12	3,250.94	3,041.80	209.14	15.545		
22,500.00	12,399.00	20,736.14	10,619.00	173.57	167.13	56.34	-10,181.36	-3,173.14	3,250.95	3,039.93	211.03	15.405		
22,503.08	12,399.00	20,739.22	10,619.00	173.62	167.17	56.34	-10,184.44	-3,173.11	3,250.95	3,039.87	211.08	15.401		
22,600.00	12,399.00	20,792.10	10,619.00	175.17	167.92	56.34	-10,237.32	-3,172.60	3,251.27	3,038.67	212.60	15.293		
22,700.00	12,399.00	20,792.10	10,619.00	176.77	167.92	56.34	-10,237.32	-3,172.60	3,254.18	3,040.44	213.74	15.225		
22,800.00	12,399.00	20,792.10	10,619.00	178.37	167.92	56.34	-10,237.32	-3,172.60	3,260.15	3,045.45	214.70	15.185		
22,900.00	12,399.00	20,792.10	10,619.00	179.97	167.92	56.34	-10,237.32	-3,172.60	3,269.17	3,053.71	215.46	15.173 SF		
23,000.00	12,399.00	20,792.10	10,619.00	181.57	167.92	56.34	-10,237.32	-3,172.60	3,281.22	3,065.17	216.04	15.188		
23,100.00	12,399.00	20,792.10	10,619.00	183.17	167.92	56.34	-10,237.32	-3,172.60	3,296.26	3,079.82	216.43	15.230		
23,200.00	12,399.00	20,792.10	10,619.00	184.77	167.92	56.34	-10,237.32	-3,172.60	3,314.24	3,097.60	216.64	15.298		
23,300.00	12,399.00	20,792.10	10,619.00	186.38	167.92	56.34	-10,237.32	-3,172.60	3,335.13	3,118.46	216.67	15.392		
23,400.00	12,399.00	20,792.10	10,619.00	187.98	167.92	56.34	-10,237.32	-3,172.60	3,358.87	3,142.34	216.53	15.512		
23,500.00	12,399.00	20,792.10	10,619.00	189.58	167.92	56.34	-10,237.32	-3,172.60	3,385.40	3,169.17	216.23	15.657		
23,600.00	12,399.00	20,792.10	10,619.00	191.19	167.92	56.34	-10,237.32	-3,172.60	3,414.65	3,198.89	215.77	15.826		
23,700.00	12,399.00	20,792.10	10,619.00	192.80	167.92	56.34	-10,237.32	-3,172.60	3,446.56	3,231.39	215.17	16.018		
23,800.00	12,399.00	20,792.10	10,619.00	194.41	167.92	56.34	-10,237.32	-3,172.60	3,481.05	3,266.61	214.43	16.234		
23,874.38	12,399.00	20,792.10	10,619.00	195.60	167.92	56.34	-10,237.32	-3,172.60	3,508.33	3,294.53	213.80	16.409		

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 804H
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 804H	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	-99.30	-466.60	-2,848.63	2,886.59					
100.00	100.00	122.00	122.00	0.13	0.20	-99.30	-466.60	-2,848.63	2,886.59	2,886.35	0.24	N/A		
200.00	200.00	222.00	222.00	0.48	0.56	-99.30	-466.60	-2,848.63	2,886.59	2,885.85	0.74	3,888.955		
300.00	300.00	322.00	322.00	0.84	0.92	-99.30	-466.60	-2,848.63	2,886.59	2,885.34	1.25	2,312.311		
400.00	400.00	422.00	422.00	1.20	1.28	-99.30	-466.60	-2,848.63	2,886.59	2,884.83	1.75	1,644.825		
500.00	500.00	522.00	522.00	1.56	1.64	-99.30	-466.60	-2,848.63	2,886.59	2,884.33	2.26	1,276.287		
600.00	600.00	622.00	622.00	1.92	2.00	-99.30	-466.60	-2,848.63	2,886.59	2,883.82	2.77	1,042.640		
700.00	700.00	722.00	722.00	2.28	2.36	-99.30	-466.60	-2,848.63	2,886.59	2,883.31	3.28	881.292		
800.00	800.00	822.00	822.00	2.63	2.71	-99.30	-466.60	-2,848.63	2,886.59	2,882.81	3.78	763.184		
900.00	900.00	922.00	922.00	2.99	3.07	-99.30	-466.60	-2,848.63	2,886.59	2,882.30	4.29	672.989		
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-99.30	-466.60	-2,848.63	2,886.59	2,881.79	4.80	601.859		
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-99.30	-466.60	-2,848.63	2,886.59	2,881.29	5.30	544.326		
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-99.30	-466.60	-2,848.63	2,886.59	2,880.78	5.81	496.833		
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-99.30	-466.60	-2,848.63	2,886.59	2,880.27	6.32	456.962		
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-99.30	-466.60	-2,848.63	2,886.59	2,879.76	6.82	423.015		
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-99.30	-466.60	-2,848.63	2,886.59	2,879.26	7.33	393.762		
1,600.00	1,600.00	1,622.00	1,622.00	5.50	5.58	-99.30	-466.60	-2,848.63	2,886.59	2,878.75	7.84	368.294		
1,700.00	1,700.00	1,722.00	1,722.00	5.86	5.94	-99.30	-466.60	-2,848.63	2,886.59	2,878.24	8.34	345.920		
1,800.00	1,800.00	1,822.00	1,822.00	6.22	6.30	-99.30	-466.60	-2,848.63	2,886.59	2,877.74	8.85	326.109		
1,900.00	1,900.00	1,922.00	1,922.00	6.58	6.66	-99.30	-466.60	-2,848.63	2,886.59	2,877.23	9.36	308.444		
2,000.00	2,000.00	2,022.00	2,022.00	6.94	7.02	-99.30	-466.60	-2,848.63	2,886.59	2,876.72	9.87	292.594		
2,100.00	2,099.99	2,121.99	2,121.99	7.29	7.37	-24.72	-466.60	-2,848.63	2,885.40	2,875.03	10.37	278.305		
2,200.00	2,199.91	2,221.91	2,221.91	7.64	7.73	-24.78	-466.60	-2,848.63	2,881.83	2,870.97	10.87	265.218		
2,300.00	2,299.69	2,362.61	2,362.61	7.99	8.23	-24.89	-466.28	-2,848.23	2,875.74	2,864.27	11.47	250.788		
2,400.00	2,399.27	2,647.71	2,647.23	8.34	9.24	-25.04	-456.62	-2,836.36	2,862.79	2,850.39	12.41	230.732		
2,458.69	2,457.58	2,811.78	2,810.25	8.55	9.83	-25.09	-444.98	-2,822.08	2,851.15	2,838.22	12.94	220.372		
2,500.00	2,498.60	2,876.73	2,874.51	8.70	10.07	-25.06	-439.01	-2,814.75	2,841.35	2,828.16	13.19	215.355		
2,600.00	2,597.88	3,156.47	3,149.32	9.06	11.13	-24.81	-406.25	-2,774.53	2,813.76	2,799.69	14.07	200.002		
2,700.00	2,697.16	3,251.87	3,242.46	9.43	11.50	-24.69	-393.18	-2,758.48	2,784.34	2,769.79	14.55	191.324		
2,800.00	2,796.44	3,347.28	3,335.59	9.80	11.89	-24.57	-380.11	-2,742.43	2,754.94	2,739.90	15.04	183.163		
2,900.00	2,895.72	3,442.69	3,428.73	10.17	12.28	-24.44	-367.04	-2,726.38	2,725.55	2,710.01	15.53	175.477		
3,000.00	2,995.00	3,538.10	3,521.86	10.54	12.68	-24.31	-353.96	-2,710.33	2,696.17	2,680.14	16.03	168.232		
3,100.00	3,094.28	3,633.50	3,615.00	10.92	13.08	-24.18	-340.89	-2,694.28	2,666.80	2,650.28	16.52	161.392		
3,200.00	3,193.56	3,728.91	3,708.13	11.30	13.48	-24.04	-327.82	-2,678.23	2,637.45	2,620.43	17.02	154.929		
3,300.00	3,292.84	3,824.32	3,801.27	11.68	13.89	-23.91	-314.74	-2,662.18	2,608.11	2,590.58	17.53	148.815		
3,400.00	3,392.12	3,919.73	3,894.40	12.06	14.31	-23.76	-301.67	-2,646.13	2,578.79	2,560.75	18.03	143.024		
3,500.00	3,491.40	4,015.14	3,987.54	12.45	14.73	-23.62	-288.60	-2,630.08	2,549.48	2,530.94	18.54	137.533		
3,600.00	3,590.68	4,110.54	4,080.67	12.83	15.15	-23.47	-275.52	-2,614.03	2,520.18	2,501.13	19.05	132.322		
3,700.00	3,689.96	4,205.95	4,173.81	13.22	15.57	-23.32	-262.45	-2,597.98	2,490.90	2,471.34	19.56	127.370		
3,800.00	3,789.24	4,301.36	4,266.94	13.60	16.00	-23.17	-249.38	-2,581.93	2,461.64	2,441.57	20.07	122.660		
3,900.00	3,888.52	4,396.77	4,360.08	13.99	16.43	-23.01	-236.30	-2,565.88	2,432.39	2,411.81	20.58	118.175		
4,000.00	3,987.80	4,492.18	4,453.21	14.38	16.86	-22.85	-223.23	-2,549.83	2,403.16	2,382.06	21.10	113.901		
4,100.00	4,087.08	4,587.58	4,546.35	14.77	17.30	-22.68	-210.16	-2,533.78	2,373.95	2,352.34	21.62	109.824		
4,200.00	4,186.36	4,682.99	4,639.48	15.16	17.73	-22.51	-197.08	-2,517.73	2,344.76	2,322.63	22.13	105.932		
4,300.00	4,285.64	4,778.40	4,732.62	15.56	18.17	-22.34	-184.01	-2,501.68	2,315.59	2,292.93	22.65	102.212		
4,400.00	4,384.92	4,873.81	4,825.75	15.95	18.61	-22.16	-170.94	-2,485.63	2,286.44	2,263.26	23.18	98.654		
4,500.00	4,484.20	4,969.21	4,918.89	16.34	19.05	-21.97	-157.87	-2,469.58	2,257.31	2,233.61	23.70	95.248		
4,600.00	4,583.48	5,064.62	5,012.02	16.74	19.50	-21.78	-144.79	-2,453.53	2,228.20	2,203.97	24.22	91.986		
4,700.00	4,682.76	5,160.03	5,105.16	17.13	19.94	-21.59	-131.72	-2,437.48	2,199.11	2,174.36	24.75	88.857		
4,800.00	4,782.04	5,255.44	5,198.29	17.53	20.39	-21.39	-118.65	-2,421.43	2,170.05	2,144.77	25.28	85.856		
4,900.00	4,881.32	5,350.85	5,291.43	17.92	20.83	-21.19	-105.57	-2,405.38	2,141.01	2,115.21	25.80	82.974		
5,000.00	4,980.60	5,446.25	5,384.56	18.32	21.28	-20.98	-92.50	-2,389.33	2,112.00	2,085.67	26.33	80.205		

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 804H
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 804H	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	5,079.88	5,541.66	5,477.70	18.71	21.73	-20.76	-79.43	-2,373.28	2,083.01	2,056.15	26.86	77.543		
5,200.00	5,179.16	5,637.07	5,570.83	19.11	22.18	-20.54	-66.35	-2,357.23	2,054.06	2,026.66	27.39	74.981		
5,300.00	5,278.44	5,732.48	5,663.97	19.51	22.63	-20.32	-53.28	-2,341.18	2,025.13	1,997.20	27.93	72.515		
5,400.00	5,377.72	5,827.88	5,757.10	19.90	23.08	-20.08	-40.21	-2,325.13	1,996.23	1,967.77	28.46	70.139		
5,500.00	5,477.00	5,923.29	5,850.24	20.30	23.54	-19.84	-27.13	-2,309.08	1,967.36	1,938.37	29.00	67.850		
5,600.00	5,576.28	6,018.70	5,943.37	20.70	23.99	-19.59	-14.06	-2,293.03	1,938.53	1,909.00	29.53	65.643		
5,700.00	5,675.56	6,114.11	6,036.51	21.10	24.45	-19.34	-0.99	-2,276.98	1,909.73	1,879.66	30.07	63.512		
5,800.00	5,774.84	6,209.52	6,129.64	21.50	24.90	-19.07	12.08	-2,260.93	1,880.97	1,850.36	30.61	61.455		
5,900.00	5,874.12	6,304.92	6,222.78	21.90	25.36	-18.80	25.16	-2,244.88	1,852.24	1,821.09	31.15	59.468		
6,000.00	5,973.40	6,400.33	6,315.91	22.30	25.81	-18.52	38.23	-2,228.83	1,823.56	1,791.87	31.69	57.547		
6,100.00	6,072.68	6,495.74	6,409.05	22.70	26.27	-18.23	51.30	-2,212.78	1,794.91	1,762.68	32.23	55.689		
6,200.00	6,171.96	6,591.15	6,502.18	23.10	26.73	-17.94	64.38	-2,196.73	1,766.31	1,733.54	32.78	53.892		
6,300.00	6,271.24	6,686.56	6,595.32	23.50	27.19	-17.63	77.45	-2,180.68	1,737.76	1,704.44	33.32	52.153		
6,400.00	6,370.52	6,785.46	6,672.40	23.90	27.56	-17.37	88.09	-2,167.62	1,709.55	1,675.70	33.85	50.501		
6,500.00	6,469.80	6,836.37	6,741.93	24.30	27.89	-17.16	96.87	-2,156.84	1,682.72	1,648.35	34.37	48.959		
6,600.00	6,569.08	6,900.00	6,804.54	24.70	28.18	-17.00	104.05	-2,148.02	1,657.38	1,622.50	34.87	47.524		
6,700.00	6,668.36	6,980.25	6,883.75	25.10	28.53	-16.81	112.17	-2,138.05	1,633.45	1,598.06	35.39	46.158		
6,800.00	6,767.64	7,053.14	6,955.92	25.50	28.83	-16.68	118.63	-2,130.12	1,611.03	1,575.14	35.89	44.894		
6,900.00	6,866.91	7,126.60	7,028.83	25.90	29.13	-16.57	124.26	-2,123.20	1,590.09	1,553.72	36.37	43.716		
6,934.75	6,901.42	7,152.25	7,054.34	26.04	29.23	-16.53	126.02	-2,121.05	1,583.17	1,546.63	36.54	43.326		
7,000.00	6,966.26	7,200.00	7,101.85	26.30	29.41	-16.43	129.00	-2,117.38	1,571.18	1,534.32	36.85	42.635		
7,100.00	7,065.85	7,275.44	7,177.03	26.68	29.69	-16.29	132.95	-2,112.54	1,556.10	1,518.78	37.32	41.696		
7,200.00	7,165.65	7,350.81	7,252.24	27.05	29.96	-16.19	135.96	-2,108.84	1,545.04	1,507.27	37.78	40.900		
7,300.00	7,265.57	7,426.59	7,327.95	27.41	30.22	-16.11	138.04	-2,106.29	1,538.04	1,499.82	38.22	40.242		
7,393.44	7,359.00	7,500.00	7,401.34	27.72	30.46	-90.67	139.15	-2,104.93	1,535.17	1,496.54	38.63	39.743		
7,400.00	7,365.56	7,500.00	7,401.34	27.74	30.46	-90.67	139.15	-2,104.93	1,535.10	1,496.45	38.64	39.726		
7,500.00	7,465.56	7,586.22	7,487.56	28.08	30.72	-90.66	139.40	-2,104.63	1,534.73	1,495.65	39.08	39.270		
7,600.00	7,565.56	7,686.22	7,587.56	28.41	31.03	-90.66	139.40	-2,104.63	1,534.73	1,495.17	39.56	38.799		
7,700.00	7,665.56	7,786.22	7,687.56	28.74	31.34	-90.66	139.40	-2,104.63	1,534.73	1,494.70	40.03	38.339		
7,800.00	7,765.56	7,886.22	7,787.56	29.07	31.65	-90.66	139.40	-2,104.63	1,534.73	1,494.22	40.51	37.889		
7,900.00	7,865.56	7,986.22	7,887.56	29.41	31.96	-90.66	139.40	-2,104.63	1,534.73	1,493.75	40.98	37.449		
8,000.00	7,965.56	8,086.22	7,987.56	29.74	32.27	-90.66	139.40	-2,104.63	1,534.73	1,493.27	41.46	37.018		
8,100.00	8,065.56	8,186.22	8,087.56	30.08	32.58	-90.66	139.40	-2,104.63	1,534.73	1,492.79	41.94	36.596		
8,200.00	8,165.56	8,286.22	8,187.56	30.41	32.90	-90.66	139.40	-2,104.63	1,534.73	1,492.31	42.42	36.184		
8,300.00	8,265.56	8,386.22	8,287.56	30.75	33.21	-90.66	139.40	-2,104.63	1,534.73	1,491.83	42.89	35.780		
8,400.00	8,365.56	8,486.22	8,387.56	31.09	33.53	-90.66	139.40	-2,104.63	1,534.73	1,491.35	43.37	35.384		
8,500.00	8,465.56	8,586.22	8,487.56	31.42	33.84	-90.66	139.40	-2,104.63	1,534.73	1,490.87	43.85	34.996		
8,600.00	8,565.56	8,686.22	8,587.56	31.76	34.16	-90.66	139.40	-2,104.63	1,534.73	1,490.39	44.33	34.617		
8,700.00	8,665.56	8,786.22	8,687.56	32.10	34.48	-90.66	139.40	-2,104.63	1,534.73	1,489.91	44.82	34.245		
8,800.00	8,765.56	8,886.22	8,787.56	32.44	34.80	-90.66	139.40	-2,104.63	1,534.73	1,489.43	45.30	33.881		
8,900.00	8,865.56	8,986.22	8,887.56	32.78	35.12	-90.66	139.40	-2,104.63	1,534.73	1,488.95	45.78	33.524		
9,000.00	8,965.56	9,086.22	8,987.56	33.12	35.44	-90.66	139.40	-2,104.63	1,534.73	1,488.46	46.26	33.173		
9,100.00	9,065.56	9,186.22	9,087.56	33.45	35.76	-90.66	139.40	-2,104.63	1,534.73	1,487.98	46.75	32.830		
9,200.00	9,165.56	9,286.22	9,187.56	33.79	36.08	-90.66	139.40	-2,104.63	1,534.73	1,487.50	47.23	32.494		
9,300.00	9,265.56	9,386.22	9,287.56	34.14	36.40	-90.66	139.40	-2,104.63	1,534.73	1,487.01	47.72	32.164		
9,400.00	9,365.56	9,486.22	9,387.56	34.48	36.72	-90.66	139.40	-2,104.63	1,534.73	1,486.53	48.20	31.840		
9,500.00	9,465.56	9,586.22	9,487.56	34.82	37.05	-90.66	139.40	-2,104.63	1,534.73	1,486.04	48.69	31.523		
9,600.00	9,565.56	9,686.22	9,587.56	35.16	37.37	-90.66	139.40	-2,104.63	1,534.73	1,485.56	49.17	31.211		
9,700.00	9,665.56	9,786.22	9,687.56	35.50	37.70	-90.66	139.40	-2,104.63	1,534.73	1,485.07	49.66	30.906		
9,800.00	9,765.56	9,886.22	9,787.56	35.84	38.02	-90.66	139.40	-2,104.63	1,534.73	1,484.58	50.14	30.606		
9,900.00	9,865.56	9,986.22	9,887.56	36.19	38.35	-90.66	139.40	-2,104.63	1,534.73	1,484.10	50.63	30.311		
10,000.00	9,965.56	10,093.02	9,994.27	36.53	38.67	-90.76	136.63	-2,104.47	1,534.62	1,483.50	51.12	30.021		

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 804H
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 804H	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	10,065.56	10,202.50	10,101.54	36.87	38.93	-91.55	115.61	-2,103.25	1,533.88	1,482.34	51.53	29.764		
10,200.00	10,165.56	10,300.91	10,192.99	37.21	39.10	-92.89	79.65	-2,101.18	1,533.14	1,481.27	51.87	29.555		
10,226.31	10,191.87	10,324.48	10,213.87	37.31	39.13	-93.30	68.75	-2,100.55	1,533.09	1,481.14	51.95	29.510 CC, ES		
10,300.00	10,265.56	10,385.08	10,265.34	37.56	39.19	-94.49	36.88	-2,098.71	1,533.59	1,481.43	52.15	29.405		
10,400.00	10,365.56	10,455.02	10,320.18	37.90	39.24	-96.11	-6.41	-2,096.22	1,536.42	1,484.04	52.38	29.334		
10,500.00	10,465.56	10,512.47	10,360.99	38.25	39.25	-97.61	-46.73	-2,093.89	1,542.65	1,490.13	52.53	29.370		
10,600.00	10,565.56	10,559.60	10,391.32	38.59	39.24	-98.95	-82.73	-2,091.82	1,553.03	1,500.46	52.58	29.537		
10,700.00	10,665.56	10,600.00	10,414.88	38.94	39.23	-100.16	-115.49	-2,089.93	1,568.05	1,515.52	52.53	29.849		
10,800.00	10,765.56	10,630.81	10,431.26	39.28	39.22	-101.12	-141.53	-2,088.43	1,587.98	1,535.61	52.37	30.321		
10,900.00	10,865.56	10,650.00	10,440.75	39.63	39.21	-101.73	-158.18	-2,087.47	1,612.98	1,560.89	52.08	30.969		
11,000.00	10,965.56	10,680.99	10,454.88	39.97	39.19	-102.74	-185.72	-2,085.88	1,642.89	1,591.14	51.76	31.742		
11,100.00	11,065.56	10,700.00	10,462.80	40.32	39.18	-103.37	-202.97	-2,084.89	1,677.73	1,626.41	51.32	32.689		
11,200.00	11,165.56	10,717.75	10,469.67	40.66	39.16	-103.96	-219.30	-2,083.94	1,717.27	1,666.43	50.83	33.784		
11,300.00	11,265.56	10,732.59	10,475.02	41.01	39.15	-104.46	-233.12	-2,083.15	1,761.26	1,710.97	50.29	35.020		
11,400.00	11,365.56	10,750.00	10,480.85	41.36	39.13	-105.05	-249.50	-2,082.20	1,809.46	1,759.71	49.74	36.375		
11,500.00	11,465.56	10,750.00	10,480.85	41.70	39.13	-105.05	-249.50	-2,082.20	1,861.58	1,812.46	49.12	37.900		
11,600.00	11,565.56	10,767.37	10,486.16	42.05	39.12	-105.64	-266.02	-2,081.25	1,917.27	1,868.70	48.57	39.474		
11,700.00	11,665.56	10,776.54	10,488.76	42.40	39.11	-105.95	-274.79	-2,080.74	1,976.34	1,928.34	48.01	41.169		
11,800.00	11,765.56	10,800.00	10,494.77	42.74	39.09	-106.75	-297.43	-2,079.44	2,038.68	1,991.16	47.52	42.902		
11,860.48	11,826.04	10,800.00	10,494.77	42.95	39.09	-106.75	-297.43	-2,079.44	2,077.56	2,030.38	47.18	44.031		
11,900.00	11,865.53	10,800.00	10,494.77	43.08	39.09	70.60	-297.43	-2,079.44	2,103.21	2,056.25	46.97	44.781		
11,950.00	11,915.20	10,800.00	10,494.77	43.24	39.09	66.71	-297.43	-2,079.44	2,135.28	2,088.60	46.69	45.736		
12,000.00	11,964.19	10,800.00	10,494.77	43.39	39.09	63.05	-297.43	-2,079.44	2,166.72	2,120.31	46.41	46.684		
12,050.00	12,012.13	10,800.00	10,494.77	43.53	39.09	59.66	-297.43	-2,079.44	2,197.32	2,151.17	46.14	47.618		
12,100.00	12,058.65	10,800.00	10,494.77	43.66	39.09	56.55	-297.43	-2,079.44	2,226.88	2,180.99	45.89	48.529		
12,150.00	12,103.40	10,825.32	10,500.21	43.78	39.06	53.24	-322.11	-2,078.02	2,254.68	2,208.96	45.72	49.313		
12,200.00	12,146.04	10,850.00	10,504.45	43.90	39.04	50.34	-346.38	-2,076.62	2,281.43	2,235.88	45.56	50.078		
12,250.00	12,186.24	10,850.00	10,504.45	44.00	39.04	48.19	-346.38	-2,076.62	2,306.08	2,260.74	45.34	50.862		
12,300.00	12,223.71	10,850.00	10,504.45	44.09	39.04	46.30	-346.38	-2,076.62	2,329.01	2,283.86	45.15	51.588		
12,350.00	12,258.14	10,850.00	10,504.45	44.17	39.04	44.64	-346.38	-2,076.62	2,350.09	2,305.11	44.98	52.250		
12,400.00	12,289.29	10,872.59	10,507.41	44.24	39.02	42.99	-368.74	-2,075.33	2,368.78	2,323.90	44.88	52.784		
12,450.00	12,316.92	10,900.00	10,509.82	44.30	39.00	41.57	-396.00	-2,073.76	2,385.60	2,340.80	44.80	53.252		
12,500.00	12,340.80	10,900.00	10,509.82	44.36	39.00	40.61	-396.00	-2,073.76	2,399.60	2,354.89	44.71	53.668		
12,550.00	12,360.77	10,900.00	10,509.82	44.43	39.00	39.83	-396.00	-2,073.76	2,411.38	2,366.71	44.66	53.989		
12,600.00	12,376.67	10,916.20	10,510.63	44.50	38.99	39.15	-412.15	-2,072.82	2,420.64	2,375.98	44.66	54.203		
12,650.00	12,388.38	10,936.70	10,511.00	44.59	38.97	38.64	-432.61	-2,071.64	2,427.43	2,382.75	44.68	54.328		
12,700.00	12,395.81	10,936.70	10,511.00	44.69	38.97	38.39	-432.61	-2,071.64	2,431.49	2,386.75	44.74	54.343		
12,750.00	12,398.90	10,975.79	10,511.00	44.81	38.95	38.24	-471.65	-2,069.66	2,432.67	2,387.85	44.82	54.273		
12,760.48	12,399.00	10,982.65	10,511.00	44.83	38.94	38.25	-478.51	-2,069.37	2,432.54	2,387.69	44.84	54.244		
12,800.00	12,399.00	11,000.00	10,511.00	44.94	38.94	38.24	-495.84	-2,068.70	2,431.90	2,386.96	44.93	54.121		
12,899.17	12,399.00	11,073.75	10,511.00	45.24	38.93	38.22	-569.57	-2,067.03	2,431.19	2,385.99	45.20	53.789		
12,900.00	12,399.00	11,074.30	10,511.00	45.25	38.93	38.22	-570.12	-2,067.03	2,431.19	2,385.99	45.20	53.787		
13,000.00	12,399.00	11,174.30	10,511.00	45.62	38.99	38.22	-670.12	-2,066.05	2,431.20	2,385.67	45.53	53.403		
13,100.00	12,399.00	11,274.30	10,511.00	46.05	39.18	38.22	-770.11	-2,065.07	2,431.21	2,385.30	45.91	52.960		
13,200.00	12,399.00	11,374.30	10,511.00	46.53	39.50	38.22	-870.11	-2,064.10	2,431.22	2,384.88	46.35	52.459		
13,300.00	12,399.00	11,474.30	10,511.00	47.07	39.91	38.22	-970.10	-2,063.12	2,431.23	2,384.39	46.84	51.905		
13,400.00	12,399.00	11,574.30	10,511.00	47.65	40.40	38.22	-1,070.10	-2,062.15	2,431.24	2,383.86	47.39	51.305		
13,500.00	12,399.00	11,674.30	10,511.00	48.29	40.95	38.22	-1,170.09	-2,061.17	2,431.26	2,383.27	47.99	50.662		
13,600.00	12,399.00	11,774.30	10,511.00	48.97	41.57	38.22	-1,270.09	-2,060.20	2,431.27	2,382.63	48.64	49.984		
13,700.00	12,399.00	11,874.30	10,511.00	49.70	42.24	38.22	-1,370.08	-2,059.22	2,431.28	2,381.94	49.34	49.276		
13,800.00	12,399.00	11,974.30	10,511.00	50.47	42.95	38.22	-1,470.08	-2,058.24	2,431.29	2,381.20	50.09	48.542		
13,900.00	12,399.00	12,074.30	10,511.00	51.29	43.72	38.22	-1,570.07	-2,057.27	2,431.30	2,380.43	50.88	47.788		

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 804H
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 804H	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	12,399.00	12,174.30	10,511.00	52.14	44.54	38.23	-1,670.07	-2,056.29	2,431.31	2,379.60	51.71	47.019		
14,100.00	12,399.00	12,274.30	10,511.00	53.03	45.40	38.23	-1,770.06	-2,055.32	2,431.33	2,378.74	52.58	46.238		
14,200.00	12,399.00	12,374.30	10,511.00	53.95	46.30	38.23	-1,870.06	-2,054.34	2,431.34	2,377.84	53.49	45.452		
14,300.00	12,399.00	12,474.30	10,511.00	54.91	47.24	38.23	-1,970.05	-2,053.37	2,431.35	2,376.91	54.44	44.663		
14,400.00	12,399.00	12,574.30	10,511.00	55.90	48.22	38.23	-2,070.05	-2,052.39	2,431.36	2,375.94	55.42	43.873		
14,500.00	12,399.00	12,674.30	10,511.00	56.93	49.23	38.23	-2,170.05	-2,051.41	2,431.37	2,374.94	56.43	43.086		
14,600.00	12,399.00	12,774.30	10,511.00	57.98	50.28	38.23	-2,270.04	-2,050.44	2,431.38	2,373.91	57.47	42.304		
14,700.00	12,399.00	12,874.30	10,511.00	59.06	51.35	38.23	-2,370.04	-2,049.46	2,431.40	2,372.85	58.55	41.529		
14,800.00	12,399.00	12,974.30	10,511.00	60.16	52.46	38.23	-2,470.03	-2,048.49	2,431.41	2,371.76	59.65	40.763		
14,900.00	12,399.00	13,074.30	10,511.00	61.29	53.59	38.23	-2,570.03	-2,047.51	2,431.42	2,370.64	60.77	40.008		
15,000.00	12,399.00	13,174.30	10,511.00	62.44	54.75	38.23	-2,670.02	-2,046.54	2,431.43	2,369.51	61.92	39.266		
15,100.00	12,399.00	13,274.30	10,511.00	63.61	55.94	38.23	-2,770.02	-2,045.56	2,431.44	2,368.35	63.10	38.536		
15,200.00	12,399.00	13,374.30	10,511.00	64.81	57.15	38.23	-2,870.01	-2,044.58	2,431.45	2,367.16	64.29	37.820		
15,300.00	12,399.00	13,474.30	10,511.00	66.02	58.37	38.23	-2,970.01	-2,043.61	2,431.47	2,365.96	65.51	37.118		
15,400.00	12,399.00	13,574.30	10,511.00	67.26	59.62	38.23	-3,070.00	-2,042.63	2,431.48	2,364.74	66.74	36.432		
15,500.00	12,399.00	13,674.30	10,511.00	68.51	60.89	38.23	-3,170.00	-2,041.66	2,431.49	2,363.50	67.99	35.761		
15,600.00	12,399.00	13,774.30	10,511.00	69.77	62.17	38.23	-3,269.99	-2,040.68	2,431.50	2,362.24	69.26	35.107		
15,700.00	12,399.00	13,874.30	10,511.00	71.06	63.48	38.23	-3,369.99	-2,039.71	2,431.51	2,360.97	70.55	34.467		
15,800.00	12,399.00	13,974.30	10,511.00	72.35	64.79	38.23	-3,469.98	-2,038.73	2,431.52	2,359.67	71.85	33.842		
15,900.00	12,399.00	14,074.30	10,511.00	73.67	66.13	38.23	-3,569.98	-2,037.76	2,431.53	2,358.37	73.17	33.233		
16,000.00	12,399.00	14,174.30	10,511.00	74.99	67.47	38.23	-3,669.97	-2,036.78	2,431.55	2,357.05	74.49	32.640		
16,100.00	12,399.00	14,274.30	10,511.00	76.33	68.83	38.23	-3,769.97	-2,035.80	2,431.56	2,355.72	75.84	32.063		
16,200.00	12,399.00	14,374.30	10,511.00	77.68	70.21	38.23	-3,869.96	-2,034.83	2,431.57	2,354.38	77.19	31.501		
16,300.00	12,399.00	14,474.30	10,511.00	79.04	71.59	38.23	-3,969.96	-2,033.85	2,431.58	2,353.02	78.56	30.953		
16,400.00	12,399.00	14,574.30	10,511.00	80.41	72.98	38.23	-4,069.95	-2,032.88	2,431.59	2,351.66	79.93	30.420		
16,500.00	12,399.00	14,674.30	10,511.00	81.80	74.39	38.23	-4,169.95	-2,031.90	2,431.60	2,350.28	81.32	29.901		
16,600.00	12,399.00	14,774.30	10,511.00	83.19	75.80	38.23	-4,269.95	-2,030.93	2,431.62	2,348.90	82.72	29.397		
16,700.00	12,399.00	14,874.30	10,511.00	84.59	77.23	38.23	-4,369.94	-2,029.95	2,431.63	2,347.50	84.12	28.906		
16,800.00	12,399.00	14,974.30	10,511.00	86.00	78.66	38.24	-4,469.94	-2,028.97	2,431.64	2,346.10	85.54	28.427		
16,900.00	12,399.00	15,074.30	10,511.00	87.42	80.10	38.24	-4,569.93	-2,028.00	2,431.65	2,344.69	86.96	27.962		
17,000.00	12,399.00	15,174.30	10,511.00	88.85	81.55	38.24	-4,669.93	-2,027.02	2,431.66	2,343.27	88.39	27.510		
17,100.00	12,399.00	15,274.30	10,511.00	90.28	83.01	38.24	-4,769.92	-2,026.05	2,431.67	2,341.84	89.83	27.070		
17,200.00	12,399.00	15,374.30	10,511.00	91.72	84.47	38.24	-4,869.92	-2,025.07	2,431.69	2,340.41	91.28	26.641		
17,300.00	12,399.00	15,474.30	10,511.00	93.17	85.94	38.24	-4,969.91	-2,024.10	2,431.70	2,338.97	92.73	26.224		
17,400.00	12,399.00	15,574.30	10,511.00	94.63	87.42	38.24	-5,069.91	-2,023.12	2,431.71	2,337.52	94.19	25.818		
17,500.00	12,399.00	15,674.30	10,511.00	96.09	88.90	38.24	-5,169.90	-2,022.14	2,431.72	2,336.07	95.65	25.423		
17,600.00	12,399.00	15,774.30	10,511.00	97.56	90.39	38.24	-5,269.90	-2,021.17	2,431.73	2,334.61	97.12	25.039		
17,700.00	12,399.00	15,874.30	10,511.00	99.03	91.89	38.24	-5,369.89	-2,020.19	2,431.74	2,333.15	98.59	24.664		
17,800.00	12,399.00	15,974.30	10,511.00	100.51	93.39	38.24	-5,469.89	-2,019.22	2,431.76	2,331.68	100.08	24.299		
17,900.00	12,399.00	16,074.30	10,511.00	102.00	94.89	38.24	-5,569.88	-2,018.24	2,431.77	2,330.20	101.56	23.943		
18,000.00	12,399.00	16,174.30	10,511.00	103.48	96.40	38.24	-5,669.88	-2,017.27	2,431.78	2,328.73	103.05	23.597		
18,100.00	12,399.00	16,274.30	10,511.00	104.98	97.92	38.24	-5,769.87	-2,016.29	2,431.79	2,327.24	104.55	23.260		
18,200.00	12,399.00	16,374.30	10,511.00	106.48	99.44	38.24	-5,869.87	-2,015.32	2,431.80	2,325.76	106.05	22.931		
18,300.00	12,399.00	16,474.30	10,511.00	107.98	100.96	38.24	-5,969.86	-2,014.34	2,431.81	2,324.26	107.55	22.611		
18,400.00	12,399.00	16,574.30	10,511.00	109.49	102.48	38.24	-6,069.86	-2,013.36	2,431.83	2,322.77	109.06	22.299		
18,500.00	12,399.00	16,674.30	10,511.00	111.00	104.01	38.24	-6,169.85	-2,012.39	2,431.84	2,321.27	110.57	21.994		
18,600.00	12,399.00	16,774.30	10,511.00	112.52	105.55	38.24	-6,269.85	-2,011.41	2,431.85	2,319.77	112.08	21.697		
18,700.00	12,399.00	16,874.30	10,511.00	114.04	107.09	38.24	-6,369.85	-2,010.44	2,431.86	2,318.26	113.60	21.408		
18,800.00	12,399.00	16,974.30	10,511.00	115.56	108.63	38.24	-6,469.84	-2,009.46	2,431.87	2,316.75	115.12	21.125		
18,900.00	12,399.00	17,074.30	10,511.00	117.09	110.17	38.24	-6,569.84	-2,008.49	2,431.88	2,315.24	116.64	20.849		
19,000.00	12,399.00	17,174.30	10,511.00	118.62	111.72	38.24	-6,669.83	-2,007.51	2,431.90	2,313.73	118.17	20.580		
19,100.00	12,399.00	17,274.30	10,511.00	120.15	113.27	38.24	-6,769.83	-2,006.53	2,431.91	2,312.21	119.70	20.317		

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 804H
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 804H	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							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	12,399.00	17,374.30	10,511.00	121.69	114.82	38.24	-6,869.82	-2,005.56	2,431.92	2,310.69	121.23	20.061			
19,300.00	12,399.00	17,474.30	10,511.00	123.22	116.38	38.24	-6,969.82	-2,004.58	2,431.93	2,309.17	122.76	19.810			
19,400.00	12,399.00	17,574.30	10,511.00	124.77	117.93	38.24	-7,069.81	-2,003.61	2,431.94	2,307.64	124.30	19.565			
19,500.00	12,399.00	17,674.30	10,511.00	126.31	119.50	38.24	-7,169.81	-2,002.63	2,431.95	2,306.12	125.84	19.326			
19,600.00	12,399.00	17,774.30	10,511.00	127.86	121.06	38.24	-7,269.80	-2,001.66	2,431.97	2,304.59	127.38	19.093			
19,700.00	12,399.00	17,874.30	10,511.00	129.41	122.62	38.25	-7,369.80	-2,000.68	2,431.98	2,303.06	128.92	18.864			
19,800.00	12,399.00	17,974.30	10,511.00	130.96	124.19	38.25	-7,469.79	-1,999.70	2,431.99	2,301.52	130.46	18.641			
19,900.00	12,399.00	18,074.30	10,511.00	132.52	125.76	38.25	-7,569.79	-1,998.73	2,432.00	2,299.99	132.01	18.423			
20,000.00	12,399.00	18,174.30	10,511.00	134.07	127.33	38.25	-7,669.78	-1,997.75	2,432.01	2,298.45	133.56	18.209			
20,100.00	12,399.00	18,274.30	10,511.00	135.63	128.91	38.25	-7,769.78	-1,996.78	2,432.02	2,296.91	135.11	18.000			
20,200.00	12,399.00	18,374.30	10,511.00	137.20	130.48	38.25	-7,869.77	-1,995.80	2,432.04	2,295.37	136.66	17.796			
20,300.00	12,399.00	18,474.30	10,511.00	138.76	132.06	38.25	-7,969.77	-1,994.83	2,432.05	2,293.83	138.21	17.596			
20,400.00	12,399.00	18,574.30	10,511.00	140.32	133.64	38.25	-8,069.76	-1,993.85	2,432.06	2,292.29	139.77	17.401			
20,500.00	12,399.00	18,674.30	10,511.00	141.89	135.22	38.25	-8,169.76	-1,992.88	2,432.07	2,290.74	141.33	17.209			
20,600.00	12,399.00	18,774.30	10,511.00	143.46	136.80	38.25	-8,269.76	-1,991.90	2,432.08	2,289.20	142.88	17.021			
20,700.00	12,399.00	18,874.30	10,511.00	145.03	138.39	38.25	-8,369.75	-1,990.92	2,432.09	2,287.65	144.44	16.838			
20,800.00	12,399.00	18,974.30	10,511.00	146.61	139.97	38.25	-8,469.75	-1,989.95	2,432.11	2,286.10	146.00	16.658			
20,900.00	12,399.00	19,074.30	10,511.00	148.18	141.56	38.25	-8,569.74	-1,988.97	2,432.12	2,284.55	147.56	16.482			
21,000.00	12,399.00	19,174.30	10,511.00	149.76	143.15	38.25	-8,669.74	-1,988.00	2,432.13	2,283.00	149.13	16.309			
21,100.00	12,399.00	19,274.30	10,511.00	151.34	144.74	38.25	-8,769.73	-1,987.02	2,432.14	2,281.45	150.69	16.140			
21,200.00	12,399.00	19,374.30	10,511.00	152.92	146.33	38.25	-8,869.73	-1,986.05	2,432.15	2,279.90	152.25	15.975			
21,300.00	12,399.00	19,474.30	10,511.00	154.50	147.92	38.25	-8,969.72	-1,985.07	2,432.16	2,278.35	153.81	15.812			
21,400.00	12,399.00	19,574.30	10,511.00	156.08	149.52	38.25	-9,069.72	-1,984.09	2,432.18	2,276.79	155.38	15.653			
21,500.00	12,399.00	19,674.30	10,511.00	157.66	151.11	38.25	-9,169.71	-1,983.12	2,432.19	2,275.24	156.95	15.497			
21,600.00	12,399.00	19,774.30	10,511.00	159.25	152.71	38.25	-9,269.71	-1,982.14	2,432.20	2,273.68	158.52	15.344			
21,700.00	12,399.00	19,874.30	10,511.00	160.84	154.31	38.25	-9,369.70	-1,981.17	2,432.21	2,272.13	160.08	15.193			
21,800.00	12,399.00	19,974.30	10,511.00	162.42	155.90	38.25	-9,469.70	-1,980.19	2,432.22	2,270.57	161.65	15.046			
21,900.00	12,399.00	20,074.30	10,511.00	164.01	157.50	38.25	-9,569.69	-1,979.22	2,432.23	2,269.01	163.22	14.901			
22,000.00	12,399.00	20,174.30	10,511.00	165.60	159.11	38.25	-9,669.69	-1,978.24	2,432.25	2,267.45	164.79	14.759			
22,100.00	12,399.00	20,274.30	10,511.00	167.19	160.71	38.25	-9,769.68	-1,977.26	2,432.26	2,265.89	166.36	14.620			
22,200.00	12,399.00	20,374.30	10,511.00	168.79	162.31	38.25	-9,869.68	-1,976.29	2,432.27	2,264.33	167.94	14.483			
22,300.00	12,399.00	20,474.30	10,511.00	170.38	163.91	38.25	-9,969.67	-1,975.31	2,432.28	2,262.77	169.51	14.349			
22,400.00	12,399.00	20,574.30	10,511.00	171.98	165.52	38.25	-10,069.67	-1,974.34	2,432.29	2,261.21	171.08	14.217			
22,500.00	12,399.00	20,674.30	10,511.00	173.57	167.12	38.25	-10,169.66	-1,973.36	2,432.30	2,259.65	172.65	14.088			
22,600.00	12,399.00	20,774.30	10,511.00	175.17	168.73	38.26	-10,269.66	-1,972.39	2,432.32	2,258.09	174.23	13.961			
22,700.00	12,399.00	20,874.30	10,511.00	176.77	170.34	38.26	-10,369.66	-1,971.41	2,432.33	2,256.53	175.80	13.836			
22,800.00	12,399.00	20,974.30	10,511.00	178.37	171.95	38.26	-10,469.65	-1,970.44	2,432.34	2,254.96	177.38	13.713			
22,900.00	12,399.00	21,074.30	10,511.00	179.97	173.56	38.26	-10,569.65	-1,969.46	2,432.35	2,253.40	178.95	13.592			
23,000.00	12,399.00	21,174.30	10,511.00	181.57	175.17	38.26	-10,669.64	-1,968.48	2,432.36	2,251.84	180.52	13.474			
23,100.00	12,399.00	21,274.30	10,511.00	183.17	176.78	38.26	-10,769.64	-1,967.51	2,432.37	2,250.27	182.10	13.357			
23,200.00	12,399.00	21,374.30	10,511.00	184.77	178.39	38.26	-10,869.63	-1,966.53	2,432.39	2,248.71	183.68	13.243			
23,300.00	12,399.00	21,474.30	10,511.00	186.38	180.00	38.26	-10,969.63	-1,965.56	2,432.40	2,247.15	185.25	13.130			
23,400.00	12,399.00	21,574.30	10,511.00	187.98	181.61	38.26	-11,069.62	-1,964.58	2,432.41	2,245.58	186.83	13.020			
23,500.00	12,399.00	21,674.30	10,511.00	189.58	183.23	38.26	-11,169.62	-1,963.61	2,432.42	2,244.02	188.40	12.911			
23,600.00	12,399.00	21,774.30	10,511.00	191.19	184.84	38.26	-11,269.61	-1,962.63	2,432.43	2,242.45	189.98	12.804			
23,700.00	12,399.00	21,874.30	10,511.00	192.80	186.45	38.26	-11,369.61	-1,961.65	2,432.44	2,240.89	191.56	12.698			
23,800.00	12,399.00	21,974.30	10,511.00	194.41	188.07	38.26	-11,469.60	-1,960.68	2,432.45	2,239.32	193.13	12.595			
23,802.29	12,399.00	21,976.59	10,511.00	194.44	188.11	38.26	-11,471.90	-1,960.66	2,432.46	2,239.29	193.17	12.592			
23,874.38	12,399.00	22,046.30	10,511.00	195.60	189.23	38.26	-11,541.60	-1,959.98	2,432.46	2,238.17	194.29	12.520 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 804H
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 804H	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	-392.01	-2,886.81	2,913.30					
100.00	100.00	122.00	122.00	0.13	0.20	-97.73	-392.01	-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	-392.01	-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	-392.01	-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	-392.01	-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	-392.01	-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	-392.01	-2,886.81	2,913.30	2,910.53	2.77	1,052.288		
700.00	700.00	722.00	722.00	2.28	2.36	-97.73	-392.01	-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	-392.01	-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	-392.01	-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	-392.01	-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	-392.01	-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	-392.01	-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	-392.01	-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	-392.01	-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	-392.01	-2,886.81	2,913.30	2,905.97	7.33	397.406		
1,600.00	1,600.00	1,622.00	1,622.00	5.50	5.58	-97.73	-392.01	-2,886.81	2,913.30	2,905.46	7.84	371.702		
1,700.00	1,700.00	1,722.00	1,722.00	5.86	5.94	-97.73	-392.01	-2,886.81	2,913.30	2,904.96	8.34	349.121		
1,800.00	1,800.00	1,822.00	1,822.00	6.22	6.30	-97.73	-392.01	-2,886.81	2,913.30	2,904.45	8.85	329.126		
1,900.00	1,900.00	1,922.00	1,922.00	6.58	6.66	-97.73	-392.01	-2,886.81	2,913.30	2,903.94	9.36	311.298		
1,907.26	1,907.26	1,929.26	1,929.26	6.60	6.68	-97.73	-392.01	-2,886.81	2,913.30	2,903.91	9.40	310.078		
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	-97.73	-392.01	-2,886.81	2,913.38	2,903.57	9.81	297.000		
2,100.00	2,099.99	2,084.62	2,084.61	7.29	7.24	-23.13	-391.33	-2,887.45	2,912.88	2,902.61	10.27	283.614		
2,200.00	2,199.91	2,153.96	2,153.92	7.64	7.48	-23.12	-389.75	-2,888.93	2,911.08	2,900.39	10.69	272.378		
2,300.00	2,299.69	2,223.29	2,223.16	7.99	7.73	-23.12	-387.25	-2,891.27	2,907.92	2,896.82	11.10	261.867		
2,400.00	2,399.27	2,300.00	2,299.69	8.34	8.00	-23.12	-383.42	-2,894.85	2,903.42	2,891.88	11.54	251.577		
2,458.69	2,457.58	2,333.23	2,332.80	8.55	8.12	-23.12	-381.41	-2,896.73	2,900.13	2,888.37	11.77	246.463		
2,500.00	2,498.60	2,361.84	2,361.30	8.70	8.22	-23.11	-379.51	-2,898.51	2,897.75	2,885.81	11.94	242.702		
2,600.00	2,597.88	2,431.10	2,430.19	9.06	8.47	-23.06	-374.28	-2,903.42	2,892.74	2,880.38	12.36	234.080		
2,700.00	2,697.16	2,500.00	2,498.57	9.43	8.72	-22.99	-368.16	-2,909.14	2,888.78	2,876.01	12.78	226.101		
2,800.00	2,796.44	2,573.74	2,571.58	9.80	8.99	-22.89	-360.64	-2,916.19	2,885.89	2,872.68	13.21	218.465		
2,900.00	2,895.72	2,673.44	2,670.22	10.17	9.36	-22.75	-350.01	-2,926.14	2,883.40	2,869.68	13.72	210.209		
3,000.00	2,995.00	2,773.15	2,768.86	10.54	9.74	-22.60	-339.38	-2,936.10	2,880.93	2,866.70	14.23	202.500		
3,100.00	3,094.28	2,872.86	2,867.50	10.92	10.11	-22.46	-328.75	-2,946.05	2,878.48	2,863.74	14.74	195.289		
3,200.00	3,193.56	2,972.56	2,966.14	11.30	10.50	-22.31	-318.12	-2,956.01	2,876.04	2,860.79	15.25	188.534		
3,300.00	3,292.84	3,072.27	3,064.77	11.68	10.88	-22.17	-307.49	-2,965.97	2,873.63	2,857.86	15.77	182.196		
3,400.00	3,392.12	3,171.98	3,163.41	12.06	11.27	-22.03	-296.86	-2,975.92	2,871.23	2,854.94	16.29	176.240		
3,500.00	3,491.40	3,271.69	3,262.05	12.45	11.66	-21.88	-286.23	-2,985.88	2,868.85	2,852.04	16.81	170.636		
3,600.00	3,590.68	3,371.39	3,360.69	12.83	12.05	-21.74	-275.60	-2,995.83	2,866.49	2,849.16	17.34	165.355		
3,700.00	3,689.96	3,471.10	3,459.33	13.22	12.45	-21.59	-264.97	-3,005.79	2,864.15	2,846.29	17.86	160.372		
3,800.00	3,789.24	3,570.81	3,557.96	13.60	12.84	-21.45	-254.34	-3,015.74	2,861.83	2,843.44	18.38	155.663		
3,900.00	3,888.52	3,670.52	3,656.60	13.99	13.24	-21.30	-243.71	-3,025.70	2,859.53	2,840.61	18.91	151.208		
4,000.00	3,987.80	3,770.22	3,755.24	14.38	13.64	-21.15	-233.08	-3,035.66	2,857.24	2,837.80	19.44	146.987		
4,100.00	4,087.08	3,869.93	3,853.88	14.77	14.04	-21.01	-222.45	-3,045.61	2,854.97	2,835.01	19.97	142.984		
4,200.00	4,186.36	3,969.64	3,952.51	15.16	14.44	-20.86	-211.82	-3,055.57	2,852.72	2,832.23	20.50	139.182		
4,300.00	4,285.64	4,069.35	4,051.15	15.56	14.85	-20.71	-201.19	-3,065.52	2,850.49	2,829.47	21.03	135.568		
4,400.00	4,384.92	4,169.05	4,149.79	15.95	15.25	-20.57	-190.55	-3,075.48	2,848.28	2,826.73	21.56	132.128		
4,500.00	4,484.20	4,268.76	4,248.43	16.34	15.66	-20.42	-179.92	-3,085.43	2,846.09	2,824.00	22.09	128.852		
4,600.00	4,583.48	4,368.47	4,347.07	16.74	16.06	-20.27	-169.29	-3,095.39	2,843.92	2,821.30	22.62	125.726		
4,700.00	4,682.76	4,468.18	4,445.70	17.13	16.47	-20.13	-158.66	-3,105.35	2,841.76	2,818.61	23.15	122.743		
4,800.00	4,782.04	4,567.88	4,544.34	17.53	16.88	-19.98	-148.03	-3,115.30	2,839.63	2,815.94	23.68	119.892		
4,900.00	4,881.32	4,667.59	4,642.98	17.92	17.29	-19.83	-137.40	-3,125.26	2,837.51	2,813.29	24.22	117.166		

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 804H
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 804H	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		
5,000.00	4,980.60	4,767.30	4,741.62	18.32	17.70	-19.68	-126.77	-3,135.21	2,835.41	2,810.66	24.75	114.556		
5,100.00	5,079.88	4,867.00	4,840.26	18.71	18.11	-19.53	-116.14	-3,145.17	2,833.34	2,808.05	25.28	112.056		
5,200.00	5,179.16	4,966.71	4,938.89	19.11	18.52	-19.39	-105.51	-3,155.12	2,831.28	2,805.46	25.82	109.659		
5,300.00	5,278.44	5,066.42	5,037.53	19.51	18.93	-19.24	-94.88	-3,165.08	2,829.24	2,802.88	26.35	107.359		
5,400.00	5,377.72	5,166.13	5,136.17	19.90	19.34	-19.09	-84.25	-3,175.04	2,827.21	2,800.33	26.89	105.150		
5,500.00	5,477.00	5,265.83	5,234.81	20.30	19.75	-18.94	-73.62	-3,184.99	2,825.21	2,797.79	27.42	103.027		
5,600.00	5,576.28	5,365.54	5,333.45	20.70	20.17	-18.79	-62.99	-3,194.95	2,823.23	2,795.27	27.96	100.985		
5,700.00	5,675.56	5,465.25	5,432.08	21.10	20.58	-18.64	-52.36	-3,204.90	2,821.27	2,792.78	28.49	99.021		
5,800.00	5,774.84	5,564.96	5,530.72	21.50	20.99	-18.49	-41.73	-3,214.86	2,819.32	2,790.30	29.03	97.129		
5,900.00	5,874.12	5,664.66	5,629.36	21.90	21.41	-18.34	-31.10	-3,224.81	2,817.40	2,787.84	29.56	95.306		
6,000.00	5,973.40	5,764.37	5,728.00	22.30	21.82	-18.19	-20.47	-3,234.77	2,815.49	2,785.40	30.10	93.548		
6,100.00	6,072.68	5,864.08	5,826.64	22.70	22.24	-18.04	-9.84	-3,244.73	2,813.61	2,782.98	30.63	91.852		
6,200.00	6,171.96	5,963.79	5,925.27	23.10	22.65	-17.89	0.79	-3,254.68	2,811.74	2,780.58	31.17	90.215		
6,300.00	6,271.24	6,063.49	6,023.91	23.50	23.07	-17.74	11.42	-3,264.64	2,809.90	2,778.20	31.70	88.634		
6,400.00	6,370.52	6,163.20	6,122.55	23.90	23.48	-17.59	22.05	-3,274.59	2,808.07	2,775.83	32.24	87.106		
6,500.00	6,469.80	6,262.91	6,221.19	24.30	23.90	-17.44	32.68	-3,284.55	2,806.26	2,773.49	32.77	85.628		
6,600.00	6,569.08	6,362.62	6,319.82	24.70	24.32	-17.28	43.31	-3,294.50	2,804.48	2,771.17	33.31	84.198		
6,700.00	6,668.36	6,462.32	6,418.46	25.10	24.73	-17.13	53.94	-3,304.46	2,802.71	2,768.87	33.84	82.815		
6,800.00	6,767.64	6,562.03	6,517.10	25.50	25.15	-16.98	64.57	-3,314.42	2,800.96	2,766.58	34.38	81.475		
6,900.00	6,866.91	6,661.74	6,615.74	25.90	25.57	-16.83	75.20	-3,324.37	2,799.23	2,764.32	34.91	80.177		
6,934.75	6,901.42	6,696.39	6,650.02	26.04	25.71	-16.78	78.90	-3,327.83	2,798.64	2,763.54	35.10	79.735		
7,000.00	6,966.26	6,761.44	6,714.37	26.30	25.98	-16.67	85.83	-3,334.33	2,798.06	2,762.61	35.45	78.935		
7,002.44	6,968.68	6,763.87	6,716.77	26.31	25.99	-16.67	86.09	-3,334.57	2,798.06	2,762.60	35.46	78.906 CC		
7,100.00	7,065.85	6,861.08	6,812.95	26.68	26.40	-16.51	96.46	-3,344.28	2,799.26	2,763.28	35.98	77.803		
7,200.00	7,165.65	7,043.11	6,993.50	27.05	27.14	-16.23	113.23	-3,359.98	2,801.76	2,765.02	36.74	76.263		
7,300.00	7,265.57	7,241.00	7,190.78	27.41	27.88	-16.05	124.34	-3,370.39	2,803.35	2,765.87	37.48	74.786		
7,393.44	7,359.00	7,426.38	7,376.08	27.72	28.52	-90.59	127.98	-3,373.80	2,803.95	2,765.83	38.12	73.548		
7,400.00	7,365.56	7,439.41	7,389.10	27.74	28.56	-90.59	127.99	-3,373.80	2,803.96	2,765.79	38.17	73.465		
7,402.22	7,367.78	7,443.81	7,393.51	27.75	28.58	-90.59	127.98	-3,373.80	2,803.95	2,765.77	38.18	73.438		
7,500.00	7,465.56	7,537.87	7,487.56	28.08	28.88	-90.59	127.99	-3,373.81	2,803.96	2,765.31	38.65	72.557		
7,600.00	7,565.56	7,637.87	7,587.56	28.41	29.21	-90.59	127.99	-3,373.81	2,803.96	2,764.83	39.13	71.664		
7,700.00	7,665.56	7,737.87	7,687.56	28.74	29.54	-90.59	127.99	-3,373.81	2,803.96	2,764.35	39.61	70.792		
7,800.00	7,765.56	7,837.87	7,787.56	29.07	29.87	-90.59	127.99	-3,373.81	2,803.96	2,763.86	40.09	69.940		
7,900.00	7,865.56	7,937.87	7,887.56	29.41	30.20	-90.59	127.99	-3,373.81	2,803.96	2,763.38	40.57	69.107		
8,000.00	7,965.56	8,037.87	7,987.56	29.74	30.53	-90.59	127.99	-3,373.81	2,803.96	2,762.90	41.06	68.293		
8,100.00	8,065.56	8,137.87	8,087.56	30.08	30.86	-90.59	127.99	-3,373.81	2,803.96	2,762.41	41.54	67.497		
8,200.00	8,165.56	8,237.87	8,187.56	30.41	31.19	-90.59	127.99	-3,373.81	2,803.96	2,761.93	42.03	66.718		
8,300.00	8,265.56	8,337.87	8,287.56	30.75	31.52	-90.59	127.99	-3,373.81	2,803.96	2,761.44	42.51	65.957		
8,400.00	8,365.56	8,437.87	8,387.56	31.09	31.85	-90.59	127.99	-3,373.81	2,803.96	2,760.96	43.00	65.211		
8,500.00	8,465.56	8,537.87	8,487.56	31.42	32.19	-90.59	127.99	-3,373.81	2,803.96	2,760.47	43.48	64.482		
8,600.00	8,565.56	8,637.87	8,587.56	31.76	32.52	-90.59	127.99	-3,373.81	2,803.96	2,759.98	43.97	63.768		
8,700.00	8,665.56	8,737.87	8,687.56	32.10	32.86	-90.59	127.99	-3,373.81	2,803.96	2,759.50	44.46	63.069		
8,800.00	8,765.56	8,837.87	8,787.56	32.44	33.19	-90.59	127.99	-3,373.81	2,803.96	2,759.01	44.95	62.385		
8,900.00	8,865.56	8,937.87	8,887.56	32.78	33.53	-90.59	127.99	-3,373.81	2,803.96	2,758.52	45.43	61.715		
9,000.00	8,965.56	9,037.87	8,987.56	33.12	33.86	-90.59	127.99	-3,373.81	2,803.96	2,758.03	45.92	61.058		
9,100.00	9,065.56	9,137.87	9,087.56	33.45	34.20	-90.59	127.99	-3,373.81	2,803.96	2,757.54	46.41	60.415		
9,200.00	9,165.56	9,237.87	9,187.56	33.79	34.53	-90.59	127.99	-3,373.81	2,803.96	2,757.06	46.90	59.785		
9,300.00	9,265.56	9,337.87	9,287.56	34.14	34.87	-90.59	127.99	-3,373.81	2,803.96	2,756.57	47.39	59.167		
9,400.00	9,365.56	9,437.87	9,387.56	34.48	35.21	-90.59	127.99	-3,373.81	2,803.96	2,756.08	47.88	58.562		
9,500.00	9,465.56	9,537.87	9,487.56	34.82	35.55	-90.59	127.99	-3,373.81	2,803.96	2,755.59	48.37	57.968		
9,600.00	9,565.56	9,637.87	9,587.56	35.16	35.88	-90.59	127.99	-3,373.81	2,803.96	2,755.09	48.86	57.386		
9,700.00	9,665.56	9,737.87	9,687.56	35.50	36.22	-90.59	127.99	-3,373.81	2,803.96	2,754.60	49.35	56.815		

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 804H
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 804H	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		
9,800.00	9,765.56	9,837.87	9,787.56	35.84	36.56	-90.59	127.99	-3,373.81	2,803.96	2,754.11	49.84	56.255		
9,900.00	9,865.56	9,937.87	9,887.56	36.19	36.90	-90.59	127.99	-3,373.81	2,803.96	2,753.62	50.34	55.705		
10,000.00	9,965.56	10,037.87	9,987.56	36.53	37.24	-90.59	127.99	-3,373.81	2,803.96	2,753.13	50.83	55.166		
10,100.00	10,065.56	10,137.87	10,087.56	36.87	37.58	-90.59	127.99	-3,373.81	2,803.96	2,752.64	51.32	54.637		
10,200.00	10,165.56	10,237.87	10,187.56	37.21	37.92	-90.59	127.99	-3,373.81	2,803.96	2,752.14	51.81	54.118		
10,300.00	10,265.56	10,337.87	10,287.56	37.56	38.26	-90.59	127.99	-3,373.81	2,803.96	2,751.65	52.30	53.608		
10,400.00	10,365.56	10,437.87	10,387.56	37.90	38.60	-90.59	127.99	-3,373.81	2,803.96	2,751.16	52.80	53.107		
10,500.00	10,465.56	10,537.87	10,487.56	38.25	38.95	-90.59	127.99	-3,373.81	2,803.96	2,750.66	53.29	52.616		
10,600.00	10,565.56	10,637.87	10,587.56	38.59	39.29	-90.59	127.99	-3,373.81	2,803.96	2,750.17	53.78	52.133		
10,700.00	10,665.56	10,737.87	10,687.56	38.94	39.63	-90.59	127.99	-3,373.81	2,803.96	2,749.68	54.28	51.658		
10,800.00	10,765.56	10,837.87	10,787.56	39.28	39.97	-90.59	127.99	-3,373.81	2,803.96	2,749.18	54.77	51.193		
10,900.00	10,865.56	10,937.87	10,887.56	39.63	40.31	-90.59	127.99	-3,373.81	2,803.96	2,748.69	55.27	50.735		
11,000.00	10,965.56	11,037.87	10,987.56	39.97	40.66	-90.59	127.99	-3,373.81	2,803.96	2,748.19	55.76	50.285		
11,100.00	11,065.56	11,137.87	11,087.56	40.32	41.00	-90.59	127.99	-3,373.81	2,803.96	2,747.70	56.26	49.842		
11,200.00	11,165.56	11,237.87	11,187.56	40.66	41.34	-90.59	127.99	-3,373.81	2,803.96	2,747.20	56.75	49.408		
11,300.00	11,265.56	11,337.87	11,287.56	41.01	41.69	-90.59	127.99	-3,373.81	2,803.96	2,746.71	57.25	48.980		
11,400.00	11,365.56	11,437.87	11,387.56	41.36	42.03	-90.59	127.99	-3,373.81	2,803.96	2,746.21	57.74	48.560		
11,500.00	11,465.56	11,537.87	11,487.56	41.70	42.38	-90.59	127.99	-3,373.81	2,803.96	2,745.72	58.24	48.147		
11,600.00	11,565.56	11,637.87	11,587.56	42.05	42.72	-90.59	127.99	-3,373.81	2,803.96	2,745.22	58.73	47.741		
11,700.00	11,665.56	11,737.87	11,687.56	42.40	43.07	-90.59	127.99	-3,373.81	2,803.96	2,744.73	59.23	47.341		
11,800.00	11,765.56	11,837.87	11,787.56	42.74	43.41	-90.59	127.99	-3,373.81	2,803.96	2,744.23	59.73	46.947		
11,860.48	11,826.04	11,898.34	11,848.04	42.95	43.62	-90.59	127.99	-3,373.81	2,803.96	2,743.93	60.03	46.713		
11,896.26	11,861.80	11,934.10	11,883.80	43.07	43.74	90.00	127.99	-3,373.81	2,803.96	2,743.76	60.20	46.579		
11,900.00	11,865.53	11,937.84	11,887.53	43.08	43.76	90.00	127.99	-3,373.81	2,803.96	2,743.74	60.22	46.565		
11,950.00	11,915.20	11,987.50	11,937.20	43.24	43.93	90.12	127.99	-3,373.81	2,803.96	2,743.51	60.45	46.386		
12,000.00	11,964.19	12,036.90	11,986.60	43.39	44.09	90.31	127.78	-3,373.80	2,804.00	2,743.33	60.67	46.217		
12,050.00	12,012.13	12,087.55	12,037.09	43.53	44.25	90.52	124.17	-3,373.77	2,804.08	2,743.20	60.88	46.063		
12,100.00	12,058.65	12,139.21	12,088.08	43.66	44.39	90.74	115.91	-3,373.69	2,804.20	2,743.13	61.07	45.920		
12,150.00	12,103.40	12,191.94	12,139.13	43.78	44.51	90.95	102.78	-3,373.56	2,804.36	2,743.11	61.25	45.788		
12,200.00	12,146.04	12,245.78	12,189.78	43.90	44.63	91.15	84.59	-3,373.38	2,804.55	2,743.14	61.41	45.667		
12,250.00	12,186.24	12,300.75	12,239.50	44.00	44.73	91.35	61.20	-3,373.15	2,804.77	2,743.20	61.57	45.556		
12,300.00	12,223.71	12,356.87	12,287.72	44.09	44.82	91.54	32.52	-3,372.87	2,805.02	2,743.30	61.71	45.454		
12,350.00	12,258.14	12,414.15	12,333.79	44.17	44.89	91.71	-1.46	-3,372.54	2,805.27	2,743.43	61.85	45.359		
12,400.00	12,289.29	12,472.55	12,377.04	44.24	44.94	91.88	-40.67	-3,372.16	2,805.53	2,743.56	61.97	45.271		
12,450.00	12,316.92	12,532.04	12,416.75	44.30	44.98	92.03	-84.92	-3,371.73	2,805.79	2,743.70	62.09	45.187		
12,500.00	12,340.80	12,592.54	12,452.21	44.36	45.00	92.16	-133.90	-3,371.25	2,806.04	2,743.83	62.21	45.106		
12,550.00	12,360.77	12,653.95	12,482.73	44.43	45.00	92.28	-187.16	-3,370.73	2,806.26	2,743.93	62.33	45.026		
12,600.00	12,376.67	12,716.15	12,507.65	44.50	44.99	92.37	-244.12	-3,370.18	2,806.45	2,744.01	62.44	44.945		
12,650.00	12,388.38	12,779.00	12,526.41	44.59	44.97	92.44	-304.06	-3,369.59	2,806.60	2,744.04	62.56	44.862		
12,700.00	12,395.81	12,842.31	12,538.56	44.69	44.94	92.49	-366.16	-3,368.98	2,806.70	2,744.02	62.68	44.776		
12,750.00	12,398.90	12,905.89	12,543.79	44.81	44.90	92.51	-429.49	-3,368.37	2,806.76	2,743.94	62.81	44.686		
12,760.48	12,399.00	12,919.23	12,543.99	44.83	44.89	92.51	-442.83	-3,368.24	2,806.76	2,743.92	62.84	44.667		
12,800.00	12,399.00	12,959.21	12,544.00	44.94	44.86	92.51	-482.80	-3,367.85	2,806.77	2,743.82	62.94	44.591		
12,900.00	12,399.00	13,059.21	12,544.00	45.25	44.94	92.51	-582.80	-3,366.87	2,806.79	2,743.52	63.27	44.362		
13,000.00	12,399.00	13,159.21	12,544.00	45.62	45.19	92.51	-682.80	-3,365.90	2,806.81	2,743.13	63.68	44.079		
13,100.00	12,399.00	13,259.21	12,544.00	46.05	45.50	92.51	-782.79	-3,364.92	2,806.82	2,742.66	64.17	43.743		
13,200.00	12,399.00	13,359.21	12,544.00	46.53	45.86	92.51	-882.79	-3,363.94	2,806.84	2,742.11	64.74	43.359		
13,300.00	12,399.00	13,459.21	12,544.00	47.07	46.27	92.51	-982.78	-3,362.97	2,806.86	2,741.48	65.38	42.929		
13,400.00	12,399.00	13,559.21	12,544.00	47.65	46.73	92.51	-1,082.78	-3,361.99	2,806.88	2,740.77	66.11	42.459		
13,500.00	12,399.00	13,659.21	12,544.00	48.29	47.24	92.51	-1,182.77	-3,361.02	2,806.90	2,739.99	66.91	41.953		
13,600.00	12,399.00	13,759.21	12,544.00	48.97	47.80	92.51	-1,282.77	-3,360.04	2,806.92	2,739.15	67.77	41.416		
13,700.00	12,399.00	13,859.21	12,544.00	49.70	48.41	92.51	-1,382.76	-3,359.07	2,806.94	2,738.23	68.71	40.852		

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 804H
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 804H	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		
13,800.00	12,399.00	13,959.21	12,544.00	50.47	49.06	92.51	-1,482.76	-3,358.09	2,806.96	2,737.25	69.71	40.265		
13,900.00	12,399.00	14,059.21	12,544.00	51.29	49.76	92.51	-1,582.75	-3,357.12	2,806.98	2,736.20	70.78	39.660		
14,000.00	12,399.00	14,159.21	12,544.00	52.14	50.50	92.51	-1,682.75	-3,356.14	2,806.99	2,735.09	71.90	39.040		
14,100.00	12,399.00	14,259.21	12,544.00	53.03	51.28	92.51	-1,782.74	-3,355.17	2,807.01	2,733.93	73.08	38.408		
14,200.00	12,399.00	14,359.21	12,544.00	53.95	52.11	92.51	-1,882.74	-3,354.19	2,807.03	2,732.71	74.32	37.769		
14,300.00	12,399.00	14,459.21	12,544.00	54.91	52.97	92.51	-1,982.73	-3,353.21	2,807.05	2,731.44	75.61	37.126		
14,400.00	12,399.00	14,559.21	12,544.00	55.90	53.86	92.51	-2,082.73	-3,352.24	2,807.07	2,730.12	76.95	36.480		
14,500.00	12,399.00	14,659.21	12,544.00	56.93	54.80	92.51	-2,182.72	-3,351.26	2,807.09	2,728.76	78.33	35.836		
14,600.00	12,399.00	14,759.21	12,544.00	57.98	55.76	92.51	-2,282.72	-3,350.29	2,807.11	2,727.35	79.76	35.194		
14,700.00	12,399.00	14,859.21	12,544.00	59.06	56.76	92.51	-2,382.71	-3,349.31	2,807.13	2,725.90	81.23	34.557		
14,800.00	12,399.00	14,959.21	12,544.00	60.16	57.78	92.51	-2,482.71	-3,348.34	2,807.15	2,724.40	82.74	33.927		
14,900.00	12,399.00	15,059.21	12,544.00	61.29	58.84	92.51	-2,582.70	-3,347.36	2,807.17	2,722.88	84.29	33.304		
15,000.00	12,399.00	15,159.21	12,544.00	62.44	59.92	92.51	-2,682.70	-3,346.39	2,807.18	2,721.31	85.87	32.690		
15,100.00	12,399.00	15,259.21	12,544.00	63.61	61.03	92.51	-2,782.70	-3,345.41	2,807.20	2,719.71	87.49	32.086		
15,200.00	12,399.00	15,359.21	12,544.00	64.81	62.16	92.51	-2,882.69	-3,344.43	2,807.22	2,718.08	89.14	31.493		
15,300.00	12,399.00	15,459.21	12,544.00	66.02	63.31	92.51	-2,982.69	-3,343.46	2,807.24	2,716.42	90.82	30.911		
15,400.00	12,399.00	15,559.21	12,544.00	67.26	64.48	92.51	-3,082.68	-3,342.48	2,807.26	2,714.74	92.52	30.341		
15,500.00	12,399.00	15,659.21	12,544.00	68.51	65.68	92.51	-3,182.68	-3,341.51	2,807.28	2,713.02	94.26	29.783		
15,600.00	12,399.00	15,759.21	12,544.00	69.77	66.89	92.51	-3,282.67	-3,340.53	2,807.30	2,711.28	96.02	29.238		
15,700.00	12,399.00	15,859.21	12,544.00	71.06	68.13	92.51	-3,382.67	-3,339.56	2,807.32	2,709.52	97.80	28.705		
15,800.00	12,399.00	15,959.21	12,544.00	72.35	69.38	92.51	-3,482.66	-3,338.58	2,807.34	2,707.73	99.61	28.185		
15,900.00	12,399.00	16,059.21	12,544.00	73.67	70.64	92.51	-3,582.66	-3,337.61	2,807.35	2,705.92	101.43	27.677		
16,000.00	12,399.00	16,159.21	12,544.00	74.99	71.92	92.51	-3,682.65	-3,336.63	2,807.37	2,704.09	103.28	27.182		
16,100.00	12,399.00	16,259.21	12,544.00	76.33	73.22	92.51	-3,782.65	-3,335.65	2,807.39	2,702.24	105.15	26.699		
16,200.00	12,399.00	16,359.21	12,544.00	77.68	74.53	92.51	-3,882.64	-3,334.68	2,807.41	2,700.38	107.03	26.229		
16,300.00	12,399.00	16,459.21	12,544.00	79.04	75.86	92.51	-3,982.64	-3,333.70	2,807.43	2,698.49	108.94	25.771		
16,400.00	12,399.00	16,559.21	12,544.00	80.41	77.19	92.51	-4,082.63	-3,332.73	2,807.45	2,696.59	110.86	25.325		
16,500.00	12,399.00	16,659.21	12,544.00	81.80	78.54	92.51	-4,182.63	-3,331.75	2,807.47	2,694.68	112.79	24.891		
16,600.00	12,399.00	16,759.21	12,544.00	83.19	79.90	92.51	-4,282.62	-3,330.78	2,807.49	2,692.75	114.74	24.468		
16,700.00	12,399.00	16,859.21	12,544.00	84.59	81.27	92.51	-4,382.62	-3,329.80	2,807.51	2,690.80	116.71	24.056		
16,800.00	12,399.00	16,959.21	12,544.00	86.00	82.65	92.51	-4,482.61	-3,328.83	2,807.52	2,688.84	118.68	23.656		
16,900.00	12,399.00	17,059.21	12,544.00	87.42	84.04	92.51	-4,582.61	-3,327.85	2,807.54	2,686.87	120.67	23.266		
17,000.00	12,399.00	17,159.21	12,544.00	88.85	85.44	92.51	-4,682.60	-3,326.87	2,807.56	2,684.89	122.68	22.886		
17,100.00	12,399.00	17,259.21	12,544.00	90.28	86.85	92.51	-4,782.60	-3,325.90	2,807.58	2,682.89	124.69	22.517		
17,200.00	12,399.00	17,359.21	12,544.00	91.72	88.27	92.51	-4,882.60	-3,324.92	2,807.60	2,680.89	126.71	22.157		
17,300.00	12,399.00	17,459.21	12,544.00	93.17	89.69	92.51	-4,982.59	-3,323.95	2,807.62	2,678.87	128.75	21.807		
17,400.00	12,399.00	17,559.21	12,544.00	94.63	91.13	92.51	-5,082.59	-3,322.97	2,807.64	2,676.84	130.79	21.466		
17,500.00	12,399.00	17,659.21	12,544.00	96.09	92.57	92.51	-5,182.58	-3,322.00	2,807.66	2,674.81	132.85	21.134		
17,600.00	12,399.00	17,759.21	12,544.00	97.56	94.01	92.51	-5,282.58	-3,321.02	2,807.68	2,672.76	134.91	20.811		
17,700.00	12,399.00	17,859.21	12,544.00	99.03	95.47	92.51	-5,382.57	-3,320.05	2,807.70	2,670.71	136.98	20.496		
17,800.00	12,399.00	17,959.21	12,544.00	100.51	96.93	92.51	-5,482.57	-3,319.07	2,807.71	2,668.65	139.07	20.190		
17,900.00	12,399.00	18,059.21	12,544.00	102.00	98.39	92.51	-5,582.56	-3,318.10	2,807.73	2,666.58	141.15	19.891		
18,000.00	12,399.00	18,159.21	12,544.00	103.48	99.86	92.51	-5,682.56	-3,317.12	2,807.75	2,664.50	143.25	19.600		
18,100.00	12,399.00	18,259.21	12,544.00	104.98	101.34	92.51	-5,782.55	-3,316.14	2,807.77	2,662.42	145.35	19.317		
18,200.00	12,399.00	18,359.21	12,544.00	106.48	102.82	92.51	-5,882.55	-3,315.17	2,807.79	2,660.33	147.46	19.041		
18,300.00	12,399.00	18,459.21	12,544.00	107.98	104.31	92.51	-5,982.54	-3,314.19	2,807.81	2,658.23	149.58	18.771		
18,400.00	12,399.00	18,559.21	12,544.00	109.49	105.80	92.51	-6,082.54	-3,313.22	2,807.83	2,656.12	151.70	18.509		
18,500.00	12,399.00	18,659.21	12,544.00	111.00	107.30	92.51	-6,182.53	-3,312.24	2,807.85	2,654.01	153.83	18.252		
18,600.00	12,399.00	18,759.21	12,544.00	112.52	108.80	92.51	-6,282.53	-3,311.27	2,807.87	2,651.90	155.97	18.003		
18,700.00	12,399.00	18,859.21	12,544.00	114.04	110.31	92.51	-6,382.52	-3,310.29	2,807.88	2,649.77	158.11	17.759		
18,800.00	12,399.00	18,959.21	12,544.00	115.56	111.82	92.51	-6,482.52	-3,309.32	2,807.90	2,647.65	160.26	17.521		
18,900.00	12,399.00	19,059.21	12,544.00	117.09	113.33	92.51	-6,582.51	-3,308.34	2,807.92	2,645.51	162.41	17.289		

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 804H
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 804H	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		
19,000.00	12,399.00	19,159.21	12,544.00	118.62	114.85	92.51	-6,682.51	-3,307.36	2,807.94	2,643.38	164.56	17.063		
19,100.00	12,399.00	19,259.21	12,544.00	120.15	116.37	92.51	-6,782.50	-3,306.39	2,807.96	2,641.24	166.73	16.842		
19,200.00	12,399.00	19,359.21	12,544.00	121.69	117.89	92.51	-6,882.50	-3,305.41	2,807.98	2,639.09	168.89	16.626		
19,300.00	12,399.00	19,459.21	12,544.00	123.22	119.42	92.51	-6,982.50	-3,304.44	2,808.00	2,636.94	171.06	16.415		
19,400.00	12,399.00	19,559.21	12,544.00	124.77	120.95	92.51	-7,082.49	-3,303.46	2,808.02	2,634.78	173.24	16.209		
19,500.00	12,399.00	19,659.21	12,544.00	126.31	122.49	92.51	-7,182.49	-3,302.49	2,808.04	2,632.62	175.41	16.008		
19,600.00	12,399.00	19,759.21	12,544.00	127.86	124.03	92.51	-7,282.48	-3,301.51	2,808.05	2,630.46	177.60	15.811		
19,700.00	12,399.00	19,859.21	12,544.00	129.41	125.57	92.51	-7,382.48	-3,300.54	2,808.07	2,628.29	179.78	15.619		
19,800.00	12,399.00	19,959.21	12,544.00	130.96	127.11	92.51	-7,482.47	-3,299.56	2,808.09	2,626.12	181.97	15.431		
19,900.00	12,399.00	20,059.21	12,544.00	132.52	128.66	92.51	-7,582.47	-3,298.58	2,808.11	2,623.95	184.17	15.248		
20,000.00	12,399.00	20,159.21	12,544.00	134.07	130.20	92.51	-7,682.46	-3,297.61	2,808.13	2,621.77	186.36	15.068		
20,100.00	12,399.00	20,259.21	12,544.00	135.63	131.75	92.51	-7,782.46	-3,296.63	2,808.15	2,619.59	188.56	14.892		
20,200.00	12,399.00	20,359.21	12,544.00	137.20	133.31	92.51	-7,882.45	-3,295.66	2,808.17	2,617.40	190.77	14.720		
20,300.00	12,399.00	20,459.21	12,544.00	138.76	134.86	92.51	-7,982.45	-3,294.68	2,808.19	2,615.21	192.97	14.552		
20,400.00	12,399.00	20,559.21	12,544.00	140.32	136.42	92.51	-8,082.44	-3,293.71	2,808.21	2,613.02	195.18	14.388		
20,500.00	12,399.00	20,659.21	12,544.00	141.89	137.98	92.51	-8,182.44	-3,292.73	2,808.23	2,610.83	197.39	14.226		
20,600.00	12,399.00	20,759.21	12,544.00	143.46	139.54	92.51	-8,282.43	-3,291.76	2,808.24	2,608.63	199.61	14.069		
20,700.00	12,399.00	20,859.21	12,544.00	145.03	141.11	92.51	-8,382.43	-3,290.78	2,808.26	2,606.44	201.83	13.914		
20,800.00	12,399.00	20,959.21	12,544.00	146.61	142.67	92.51	-8,482.42	-3,289.81	2,808.28	2,604.23	204.05	13.763		
20,900.00	12,399.00	21,059.21	12,544.00	148.18	144.24	92.51	-8,582.42	-3,288.83	2,808.30	2,602.03	206.27	13.615		
21,000.00	12,399.00	21,159.21	12,544.00	149.76	145.81	92.51	-8,682.41	-3,287.85	2,808.32	2,599.82	208.49	13.469		
21,100.00	12,399.00	21,259.21	12,544.00	151.34	147.38	92.51	-8,782.41	-3,286.88	2,808.34	2,597.62	210.72	13.327		
21,200.00	12,399.00	21,359.21	12,544.00	152.92	148.96	92.51	-8,882.41	-3,285.90	2,808.36	2,595.41	212.95	13.188		
21,300.00	12,399.00	21,459.21	12,544.00	154.50	150.53	92.51	-8,982.40	-3,284.93	2,808.38	2,593.19	215.18	13.051		
21,400.00	12,399.00	21,559.21	12,544.00	156.08	152.11	92.51	-9,082.40	-3,283.95	2,808.40	2,590.98	217.42	12.917		
21,500.00	12,399.00	21,659.21	12,544.00	157.66	153.69	92.51	-9,182.39	-3,282.98	2,808.41	2,588.76	219.65	12.786		
21,600.00	12,399.00	21,759.21	12,544.00	159.25	155.27	92.51	-9,282.39	-3,282.00	2,808.43	2,586.54	221.89	12.657		
21,700.00	12,399.00	21,859.21	12,544.00	160.84	156.85	92.51	-9,382.38	-3,281.03	2,808.45	2,584.32	224.13	12.530		
21,800.00	12,399.00	21,959.21	12,544.00	162.42	158.43	92.51	-9,482.38	-3,280.05	2,808.47	2,582.10	226.37	12.406		
21,900.00	12,399.00	22,059.21	12,544.00	164.01	160.01	92.51	-9,582.37	-3,279.07	2,808.49	2,579.87	228.62	12.285		
22,000.00	12,399.00	22,159.21	12,544.00	165.60	161.60	92.51	-9,682.37	-3,278.10	2,808.51	2,577.64	230.86	12.165		
22,100.00	12,399.00	22,259.21	12,544.00	167.19	163.19	92.51	-9,782.36	-3,277.12	2,808.53	2,575.42	233.11	12.048		
22,200.00	12,399.00	22,359.21	12,544.00	168.79	164.77	92.51	-9,882.36	-3,276.15	2,808.55	2,573.19	235.36	11.933		
22,300.00	12,399.00	22,459.21	12,544.00	170.38	166.36	92.51	-9,982.35	-3,275.17	2,808.57	2,570.95	237.61	11.820		
22,400.00	12,399.00	22,559.21	12,544.00	171.98	167.95	92.51	-10,082.35	-3,274.20	2,808.58	2,568.72	239.86	11.709		
22,500.00	12,399.00	22,659.21	12,544.00	173.57	169.55	92.51	-10,182.34	-3,273.22	2,808.60	2,566.49	242.12	11.600		
22,503.37	12,399.00	22,662.58	12,544.00	173.63	169.60	92.51	-10,185.71	-3,273.19	2,808.60	2,566.41	242.19	11.597		
22,600.00	12,399.00	22,715.49	12,544.00	175.17	170.44	92.51	-10,238.62	-3,272.67	2,808.96	2,564.96	244.00	11.512 ES		
22,700.00	12,399.00	22,715.49	12,544.00	176.77	170.44	92.51	-10,238.62	-3,272.67	2,812.32	2,567.13	245.19	11.470		
22,800.00	12,399.00	22,715.49	12,544.00	178.37	170.44	92.51	-10,238.62	-3,272.67	2,819.22	2,573.14	246.08	11.457 SF		
22,900.00	12,399.00	22,715.49	12,544.00	179.97	170.44	92.51	-10,238.62	-3,272.67	2,829.63	2,582.98	246.66	11.472		
23,000.00	12,399.00	22,715.49	12,544.00	181.57	170.44	92.51	-10,238.62	-3,272.67	2,843.53	2,596.60	246.93	11.515		
23,100.00	12,399.00	22,715.49	12,544.00	183.17	170.44	92.51	-10,238.62	-3,272.67	2,860.86	2,613.94	246.92	11.586		
23,200.00	12,399.00	22,715.49	12,544.00	184.77	170.44	92.51	-10,238.62	-3,272.67	2,881.56	2,634.94	246.62	11.684		
23,300.00	12,399.00	22,715.49	12,544.00	186.38	170.44	92.51	-10,238.62	-3,272.67	2,905.55	2,659.49	246.06	11.808		
23,400.00	12,399.00	22,715.49	12,544.00	187.98	170.44	92.51	-10,238.62	-3,272.67	2,932.76	2,687.52	245.24	11.959		
23,500.00	12,399.00	22,715.49	12,544.00	189.58	170.44	92.51	-10,238.62	-3,272.67	2,963.09	2,718.91	244.18	12.135		
23,600.00	12,399.00	22,715.49	12,544.00	191.19	170.44	92.51	-10,238.62	-3,272.67	2,996.46	2,753.54	242.92	12.335		
23,700.00	12,399.00	22,715.49	12,544.00	192.80	170.44	92.51	-10,238.62	-3,272.67	3,032.76	2,791.30	241.46	12.560		
23,800.00	12,399.00	22,715.49	12,544.00	194.41	170.44	92.51	-10,238.62	-3,272.67	3,071.89	2,832.06	239.83	12.809		
23,874.38	12,399.00	22,715.49	12,544.00	195.60	170.44	92.51	-10,238.62	-3,272.67	3,102.76	2,864.24	238.51	13.009		

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 804H
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 804H	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	-97.80	-391.78	-2,861.72	2,888.41					
100.00	100.00	122.00	122.00	0.13	0.20	-97.80	-391.78	-2,861.72	2,888.41	2,888.17	0.24	N/A		
200.00	200.00	222.00	222.00	0.48	0.56	-97.80	-391.78	-2,861.72	2,888.41	2,887.67	0.74	3,891.409		
300.00	300.00	322.00	322.00	0.84	0.92	-97.80	-391.78	-2,861.72	2,888.41	2,887.16	1.25	2,313.770		
400.00	400.00	422.00	422.00	1.20	1.28	-97.80	-391.78	-2,861.72	2,888.41	2,886.65	1.75	1,645.863		
500.00	500.00	522.00	522.00	1.56	1.64	-97.80	-391.78	-2,861.72	2,888.41	2,886.15	2.26	1,277.092		
600.00	600.00	622.00	622.00	1.92	2.00	-97.80	-391.78	-2,861.72	2,888.41	2,885.64	2.77	1,043.298		
700.00	700.00	722.00	722.00	2.28	2.36	-97.80	-391.78	-2,861.72	2,888.41	2,885.13	3.28	881.848		
800.00	800.00	822.00	822.00	2.63	2.71	-97.80	-391.78	-2,861.72	2,888.41	2,884.63	3.78	763.665		
900.00	900.00	922.00	922.00	2.99	3.07	-97.80	-391.78	-2,861.72	2,888.41	2,884.12	4.29	673.414		
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-97.80	-391.78	-2,861.72	2,888.41	2,883.61	4.80	602.239		
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-97.80	-391.78	-2,861.72	2,888.41	2,883.11	5.30	544.670		
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-97.80	-391.78	-2,861.72	2,888.41	2,882.60	5.81	497.147		
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-97.80	-391.78	-2,861.72	2,888.41	2,882.09	6.32	457.250		
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-97.80	-391.78	-2,861.72	2,888.41	2,881.59	6.82	423.282		
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-97.80	-391.78	-2,861.72	2,888.41	2,881.08	7.33	394.011		
1,600.00	1,600.00	1,622.00	1,622.00	5.50	5.58	-97.80	-391.78	-2,861.72	2,888.41	2,880.57	7.84	368.526		
1,700.00	1,700.00	1,722.00	1,722.00	5.86	5.94	-97.80	-391.78	-2,861.72	2,888.41	2,880.06	8.34	346.138		
1,800.00	1,800.00	1,822.00	1,822.00	6.22	6.30	-97.80	-391.78	-2,861.72	2,888.41	2,879.56	8.85	326.314		
1,900.00	1,900.00	1,922.00	1,922.00	6.58	6.66	-97.80	-391.78	-2,861.72	2,888.41	2,879.05	9.36	308.638		
2,000.00	2,000.00	2,022.00	2,022.00	6.94	7.02	-97.80	-391.78	-2,861.72	2,888.41	2,878.54	9.87	292.779		
2,100.00	2,099.99	2,121.99	2,121.99	7.29	7.37	-23.21	-391.78	-2,861.72	2,887.21	2,876.84	10.37	278.480		
2,200.00	2,199.91	2,240.26	2,240.26	7.64	7.80	-23.27	-391.59	-2,861.61	2,883.53	2,872.62	10.91	264.247		
2,300.00	2,299.69	2,423.23	2,423.10	7.99	8.45	-23.31	-386.09	-2,858.52	2,875.44	2,863.82	11.62	247.526		
2,400.00	2,399.27	2,604.40	2,603.65	8.34	9.10	-23.28	-373.13	-2,851.25	2,862.10	2,849.79	12.31	232.480		
2,458.69	2,457.58	2,698.82	2,697.40	8.55	9.44	-23.25	-363.44	-2,845.80	2,851.89	2,839.20	12.69	224.752		
2,500.00	2,498.60	2,739.35	2,737.61	8.70	9.58	-23.20	-358.95	-2,843.29	2,844.21	2,831.32	12.89	220.597		
2,600.00	2,597.88	2,837.46	2,834.93	9.06	9.94	-23.09	-348.10	-2,837.20	2,825.63	2,812.24	13.39	211.058		
2,700.00	2,697.16	2,935.58	2,932.25	9.43	10.30	-22.98	-337.25	-2,831.10	2,807.07	2,793.18	13.89	202.159		
2,800.00	2,796.44	3,033.69	3,029.57	9.80	10.67	-22.87	-326.40	-2,825.01	2,788.51	2,774.12	14.39	193.841		
2,900.00	2,895.72	3,131.80	3,126.89	10.17	11.04	-22.75	-315.55	-2,818.92	2,769.96	2,755.07	14.89	186.054		
3,000.00	2,995.00	3,229.91	3,224.21	10.54	11.40	-22.64	-304.70	-2,812.83	2,751.43	2,736.03	15.39	178.751		
3,100.00	3,094.28	3,328.03	3,321.53	10.92	11.78	-22.52	-293.85	-2,806.74	2,732.90	2,717.00	15.90	171.892		
3,200.00	3,193.56	3,426.14	3,418.85	11.30	12.15	-22.40	-283.00	-2,800.64	2,714.39	2,697.98	16.41	165.439		
3,300.00	3,292.84	3,524.25	3,516.17	11.68	12.52	-22.28	-272.15	-2,794.55	2,695.89	2,678.97	16.92	159.360		
3,400.00	3,392.12	3,622.37	3,613.49	12.06	12.90	-22.16	-261.30	-2,788.46	2,677.40	2,659.97	17.43	153.624		
3,500.00	3,491.40	3,720.48	3,710.81	12.45	13.28	-22.03	-250.45	-2,782.37	2,658.92	2,640.98	17.94	148.205		
3,600.00	3,590.68	3,818.59	3,808.13	12.83	13.66	-21.91	-239.60	-2,776.28	2,640.46	2,622.00	18.45	143.078		
3,700.00	3,689.96	3,916.70	3,905.45	13.22	14.04	-21.78	-228.74	-2,770.18	2,622.01	2,603.04	18.97	138.221		
3,800.00	3,789.24	4,014.82	4,002.77	13.60	14.42	-21.65	-217.89	-2,764.09	2,603.57	2,584.08	19.49	133.614		
3,900.00	3,888.52	4,112.93	4,100.09	13.99	14.80	-21.52	-207.04	-2,758.00	2,585.14	2,565.14	20.00	129.239		
4,000.00	3,987.80	4,211.04	4,197.42	14.38	15.18	-21.38	-196.19	-2,751.91	2,566.73	2,546.21	20.52	125.080		
4,100.00	4,087.08	4,309.15	4,294.74	14.77	15.56	-21.25	-185.34	-2,745.81	2,548.33	2,527.29	21.04	121.121		
4,200.00	4,186.36	4,407.27	4,392.06	15.16	15.95	-21.11	-174.49	-2,739.72	2,529.94	2,508.38	21.56	117.349		
4,300.00	4,285.64	4,505.38	4,489.38	15.56	16.33	-20.97	-163.64	-2,733.63	2,511.57	2,489.49	22.08	113.751		
4,400.00	4,384.92	4,603.49	4,586.70	15.95	16.72	-20.83	-152.79	-2,727.54	2,493.21	2,470.61	22.60	110.316		
4,500.00	4,484.20	4,701.61	4,684.02	16.34	17.11	-20.69	-141.94	-2,721.45	2,474.87	2,451.75	23.12	107.033		
4,600.00	4,583.48	4,799.72	4,781.34	16.74	17.49	-20.54	-131.09	-2,715.35	2,456.55	2,432.90	23.64	103.894		
4,700.00	4,682.76	4,897.83	4,878.66	17.13	17.88	-20.40	-120.24	-2,709.26	2,438.24	2,414.07	24.17	100.887		
4,800.00	4,782.04	4,995.94	4,975.98	17.53	18.27	-20.25	-109.39	-2,703.17	2,419.94	2,395.25	24.69	98.007		
4,900.00	4,881.32	5,094.06	5,073.30	17.92	18.66	-20.09	-98.53	-2,697.08	2,401.66	2,376.45	25.22	95.245		
5,000.00	4,980.60	5,192.17	5,170.62	18.32	19.05	-19.94	-87.68	-2,690.99	2,383.40	2,357.66	25.74	92.594		

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 804H
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 804H	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	5,079.88	5,290.28	5,267.94	18.71	19.44	-19.78	-76.83	-2,684.89	2,365.16	2,338.89	26.27	90.048		
5,200.00	5,179.16	5,388.39	5,365.26	19.11	19.83	-19.62	-65.98	-2,678.80	2,346.93	2,320.14	26.79	87.601		
5,300.00	5,278.44	5,486.51	5,462.58	19.51	20.22	-19.46	-55.13	-2,672.71	2,328.72	2,301.40	27.32	85.248		
5,400.00	5,377.72	5,584.62	5,559.90	19.90	20.61	-19.30	-44.28	-2,666.62	2,310.53	2,282.68	27.84	82.982		
5,500.00	5,477.00	5,682.73	5,657.22	20.30	21.00	-19.13	-33.43	-2,660.53	2,292.36	2,263.98	28.37	80.800		
5,600.00	5,576.28	5,780.85	5,754.54	20.70	21.39	-18.96	-22.58	-2,654.43	2,274.20	2,245.30	28.90	78.697		
5,700.00	5,675.56	5,878.96	5,851.86	21.10	21.78	-18.79	-11.73	-2,648.34	2,256.07	2,226.64	29.43	76.670		
5,800.00	5,774.84	5,977.07	5,949.18	21.50	22.18	-18.61	-0.88	-2,642.25	2,237.96	2,208.00	29.95	74.713		
5,900.00	5,874.12	6,075.18	6,046.50	21.90	22.57	-18.44	9.97	-2,636.16	2,219.86	2,189.38	30.48	72.824		
6,000.00	5,973.40	6,173.30	6,143.82	22.30	22.96	-18.25	20.82	-2,630.07	2,201.79	2,170.78	31.01	70.999		
6,100.00	6,072.68	6,271.41	6,241.14	22.70	23.35	-18.07	31.68	-2,623.97	2,183.74	2,152.20	31.54	69.236		
6,200.00	6,171.96	6,369.52	6,338.46	23.10	23.75	-17.88	42.53	-2,617.88	2,165.71	2,133.64	32.07	67.530		
6,300.00	6,271.24	6,467.64	6,435.78	23.50	24.14	-17.69	53.38	-2,611.79	2,147.71	2,115.11	32.60	65.880		
6,400.00	6,370.52	6,565.75	6,533.10	23.90	24.53	-17.50	64.23	-2,605.70	2,129.73	2,096.60	33.13	64.283		
6,500.00	6,469.80	6,663.86	6,630.43	24.30	24.93	-17.30	75.08	-2,599.61	2,111.77	2,078.11	33.66	62.736		
6,600.00	6,569.08	6,761.97	6,727.75	24.70	25.32	-17.10	85.93	-2,593.51	2,093.84	2,059.64	34.19	61.237		
6,700.00	6,668.36	6,860.09	6,825.07	25.10	25.71	-16.90	96.78	-2,587.42	2,075.93	2,041.20	34.72	59.784		
6,800.00	6,767.64	6,958.20	6,922.39	25.50	26.11	-16.69	107.63	-2,581.33	2,058.05	2,022.79	35.26	58.375		
6,900.00	6,866.91	7,040.62	7,004.20	25.90	26.44	-16.53	116.36	-2,576.43	2,040.47	2,004.72	35.76	57.066		
6,934.75	6,901.42	7,067.56	7,030.97	26.04	26.54	-16.48	118.91	-2,575.00	2,034.60	1,998.67	35.93	56.632		
7,000.00	6,966.26	7,118.32	7,081.49	26.30	26.74	-16.36	123.25	-2,572.56	2,024.43	1,988.18	36.24	55.856		
7,100.00	7,065.85	7,200.00	7,162.90	26.68	27.05	-16.20	129.01	-2,569.33	2,011.74	1,975.02	36.73	54.771		
7,200.00	7,165.65	7,275.42	7,238.18	27.05	27.32	-16.09	132.98	-2,567.10	2,002.59	1,965.39	37.19	53.843		
7,300.00	7,265.57	7,354.54	7,317.24	27.41	27.61	-16.01	135.74	-2,565.55	1,996.98	1,959.32	37.65	53.035		
7,393.44	7,359.00	7,428.64	7,391.33	27.72	27.86	-90.57	137.04	-2,564.82	1,994.94	1,956.87	38.07	52.396		
7,400.00	7,365.56	7,433.85	7,396.53	27.74	27.88	-90.57	137.09	-2,564.79	1,994.91	1,956.81	38.10	52.355		
7,458.93	7,424.49	7,483.81	7,446.49	27.94	28.05	-90.57	137.22	-2,564.72	1,994.81	1,956.44	38.37	51.989		
7,500.00	7,465.56	7,524.88	7,487.56	28.08	28.19	-90.57	137.22	-2,564.72	1,994.81	1,956.25	38.57	51.721		
7,600.00	7,565.56	7,624.88	7,587.56	28.41	28.52	-90.57	137.22	-2,564.72	1,994.81	1,955.76	39.05	51.081		
7,700.00	7,665.56	7,724.88	7,687.56	28.74	28.86	-90.57	137.22	-2,564.72	1,994.81	1,955.28	39.54	50.455		
7,800.00	7,765.56	7,824.88	7,787.56	29.07	29.20	-90.57	137.22	-2,564.72	1,994.81	1,954.79	40.02	49.844		
7,900.00	7,865.56	7,924.88	7,887.56	29.41	29.53	-90.57	137.22	-2,564.72	1,994.81	1,954.31	40.51	49.247		
8,000.00	7,965.56	8,024.88	7,987.56	29.74	29.87	-90.57	137.22	-2,564.72	1,994.81	1,953.82	40.99	48.664		
8,100.00	8,065.56	8,124.88	8,087.56	30.08	30.21	-90.57	137.22	-2,564.72	1,994.81	1,953.34	41.48	48.093		
8,200.00	8,165.56	8,224.88	8,187.56	30.41	30.55	-90.57	137.22	-2,564.72	1,994.81	1,952.85	41.96	47.535		
8,300.00	8,265.56	8,324.88	8,287.56	30.75	30.89	-90.57	137.22	-2,564.72	1,994.81	1,952.36	42.45	46.990		
8,400.00	8,365.56	8,424.88	8,387.56	31.09	31.23	-90.57	137.22	-2,564.72	1,994.81	1,951.87	42.94	46.456		
8,500.00	8,465.56	8,524.88	8,487.56	31.42	31.57	-90.57	137.22	-2,564.72	1,994.81	1,951.39	43.43	45.934		
8,600.00	8,565.56	8,624.88	8,587.56	31.76	31.91	-90.57	137.22	-2,564.72	1,994.81	1,950.90	43.92	45.423		
8,700.00	8,665.56	8,724.88	8,687.56	32.10	32.25	-90.57	137.22	-2,564.72	1,994.81	1,950.41	44.41	44.923		
8,800.00	8,765.56	8,824.88	8,787.56	32.44	32.59	-90.57	137.22	-2,564.72	1,994.81	1,949.92	44.89	44.433		
8,900.00	8,865.56	8,924.88	8,887.56	32.78	32.93	-90.57	137.22	-2,564.72	1,994.81	1,949.43	45.38	43.953		
9,000.00	8,965.56	9,024.88	8,987.56	33.12	33.27	-90.57	137.22	-2,564.72	1,994.81	1,948.94	45.87	43.484		
9,100.00	9,065.56	9,124.88	9,087.56	33.45	33.62	-90.57	137.22	-2,564.72	1,994.81	1,948.45	46.37	43.024		
9,200.00	9,165.56	9,224.88	9,187.56	33.79	33.96	-90.57	137.22	-2,564.72	1,994.81	1,947.96	46.86	42.573		
9,300.00	9,265.56	9,324.88	9,287.56	34.14	34.30	-90.57	137.22	-2,564.72	1,994.81	1,947.47	47.35	42.131		
9,400.00	9,365.56	9,424.88	9,387.56	34.48	34.64	-90.57	137.22	-2,564.72	1,994.81	1,946.98	47.84	41.698		
9,500.00	9,465.56	9,524.88	9,487.56	34.82	34.99	-90.57	137.22	-2,564.72	1,994.81	1,946.48	48.33	41.274		
9,600.00	9,565.56	9,624.88	9,587.56	35.16	35.33	-90.57	137.22	-2,564.72	1,994.81	1,945.99	48.82	40.858		
9,700.00	9,665.56	9,724.88	9,687.56	35.50	35.68	-90.57	137.22	-2,564.72	1,994.81	1,945.50	49.32	40.450		
9,800.00	9,765.56	9,824.88	9,787.56	35.84	36.02	-90.57	137.22	-2,564.72	1,994.81	1,945.01	49.81	40.050		
9,900.00	9,865.56	9,924.88	9,887.56	36.19	36.36	-90.57	137.22	-2,564.72	1,994.81	1,944.51	50.30	39.657		

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 804H
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 804H	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	9,965.56	10,024.88	9,987.56	36.53	36.71	-90.57	137.22	-2,564.72	1,994.81	1,944.02	50.79	39.272		
10,100.00	10,065.56	10,124.88	10,087.56	36.87	37.05	-90.57	137.22	-2,564.72	1,994.81	1,943.53	51.29	38.894		
10,200.00	10,165.56	10,224.88	10,187.56	37.21	37.40	-90.57	137.22	-2,564.72	1,994.81	1,943.03	51.78	38.523		
10,300.00	10,265.56	10,324.88	10,287.56	37.56	37.75	-90.57	137.22	-2,564.72	1,994.81	1,942.54	52.28	38.159		
10,400.00	10,365.56	10,424.88	10,387.56	37.90	38.09	-90.57	137.22	-2,564.72	1,994.81	1,942.04	52.77	37.802		
10,500.00	10,465.56	10,524.88	10,487.56	38.25	38.44	-90.57	137.22	-2,564.72	1,994.81	1,941.55	53.26	37.451		
10,600.00	10,565.56	10,624.88	10,587.56	38.59	38.78	-90.57	137.22	-2,564.72	1,994.81	1,941.05	53.76	37.106		
10,700.00	10,665.56	10,724.88	10,687.56	38.94	39.13	-90.57	137.22	-2,564.72	1,994.81	1,940.56	54.25	36.768		
10,800.00	10,765.56	10,824.88	10,787.56	39.28	39.48	-90.57	137.22	-2,564.72	1,994.81	1,940.06	54.75	36.435		
10,900.00	10,865.56	10,924.88	10,887.56	39.63	39.82	-90.57	137.22	-2,564.72	1,994.81	1,939.57	55.25	36.108		
11,000.00	10,965.56	11,024.88	10,987.56	39.97	40.17	-90.57	137.22	-2,564.72	1,994.81	1,939.07	55.74	35.787		
11,100.00	11,065.56	11,124.88	11,087.56	40.32	40.52	-90.57	137.22	-2,564.72	1,994.81	1,938.58	56.24	35.472		
11,200.00	11,165.56	11,224.88	11,187.56	40.66	40.87	-90.57	137.22	-2,564.72	1,994.81	1,938.08	56.73	35.161		
11,300.00	11,265.56	11,324.88	11,287.56	41.01	41.22	-90.57	137.22	-2,564.72	1,994.81	1,937.59	57.23	34.857		
11,400.00	11,365.56	11,424.88	11,387.56	41.36	41.56	-90.57	137.22	-2,564.72	1,994.81	1,937.09	57.73	34.557		
11,500.00	11,465.56	11,524.88	11,487.56	41.70	41.91	-90.57	137.22	-2,564.72	1,994.81	1,936.59	58.22	34.262		
11,600.00	11,565.56	11,624.88	11,587.56	42.05	42.26	-90.57	137.22	-2,564.72	1,994.81	1,936.10	58.72	33.972		
11,700.00	11,665.56	11,724.88	11,687.56	42.40	42.61	-90.57	137.22	-2,564.72	1,994.81	1,935.60	59.22	33.687		
11,800.00	11,765.56	11,824.88	11,787.56	42.74	42.96	-90.57	137.22	-2,564.72	1,994.81	1,935.10	59.71	33.407		
11,860.48	11,826.04	11,885.36	11,848.04	42.95	43.17	-90.57	137.22	-2,564.72	1,994.81	1,934.80	60.01	33.239		
11,900.00	11,865.53	11,939.02	11,901.69	43.08	43.35	90.05	136.51	-2,564.61	1,994.76	1,934.53	60.23	33.118		
11,950.00	11,915.20	12,037.71	11,999.35	43.24	43.63	90.08	123.29	-2,562.58	1,993.80	1,933.29	60.51	32.949		
12,000.00	11,964.19	12,134.70	12,091.69	43.39	43.86	90.01	94.36	-2,558.16	1,991.65	1,930.91	60.73	32.793		
12,050.00	12,012.13	12,228.13	12,174.77	43.53	44.03	89.85	52.33	-2,551.73	1,988.38	1,927.47	60.91	32.645		
12,100.00	12,058.65	12,316.68	12,246.15	43.66	44.15	89.63	0.67	-2,543.82	1,984.12	1,923.06	61.06	32.495		
12,150.00	12,103.40	12,399.68	12,305.01	43.78	44.22	89.40	-57.07	-2,534.99	1,979.02	1,917.82	61.20	32.337		
12,200.00	12,146.04	12,476.95	12,351.70	43.90	44.26	89.17	-117.86	-2,525.68	1,973.23	1,911.88	61.34	32.167		
12,250.00	12,186.24	12,548.72	12,387.29	44.00	44.29	88.97	-179.41	-2,516.27	1,966.88	1,905.39	61.49	31.986		
12,300.00	12,223.71	12,615.42	12,413.15	44.09	44.29	88.81	-240.14	-2,506.97	1,960.13	1,898.48	61.65	31.797		
12,350.00	12,258.14	12,677.59	12,430.68	44.17	44.30	88.69	-299.08	-2,497.95	1,953.07	1,891.27	61.80	31.602		
12,400.00	12,289.29	12,735.79	12,441.15	44.24	44.33	88.61	-355.64	-2,489.30	1,945.82	1,883.86	61.96	31.404		
12,450.00	12,316.92	12,790.54	12,445.66	44.30	44.39	88.57	-409.56	-2,481.05	1,938.46	1,876.35	62.11	31.210		
12,500.00	12,340.80	12,810.36	12,446.00	44.36	44.42	89.01	-429.14	-2,478.05	1,931.30	1,869.07	62.23	31.037		
12,550.00	12,360.77	12,853.86	12,446.00	44.43	44.50	89.15	-472.19	-2,471.80	1,924.42	1,862.06	62.36	30.858		
12,600.00	12,376.67	12,882.02	12,446.00	44.50	44.55	89.51	-500.11	-2,468.10	1,918.21	1,855.72	62.48	30.700		
12,650.00	12,388.38	12,900.00	12,446.00	44.59	44.59	89.94	-517.95	-2,465.88	1,912.58	1,850.00	62.59	30.558		
12,700.00	12,395.81	12,940.47	12,446.00	44.69	44.68	90.26	-558.16	-2,461.30	1,907.39	1,844.66	62.73	30.405		
12,750.00	12,398.90	12,970.31	12,446.00	44.81	44.76	90.67	-587.85	-2,458.28	1,902.80	1,839.94	62.86	30.270		
12,760.48	12,399.00	12,976.58	12,446.00	44.83	44.77	90.76	-594.09	-2,457.69	1,901.91	1,839.02	62.89	30.242		
12,800.00	12,399.00	13,000.00	12,446.00	44.94	44.83	90.76	-617.42	-2,455.59	1,898.76	1,835.77	62.99	30.142		
12,900.00	12,399.00	13,060.32	12,446.00	45.25	45.00	90.76	-677.57	-2,451.06	1,892.26	1,828.93	63.32	29.883		
13,000.00	12,399.00	13,120.52	12,446.00	45.62	45.19	90.76	-737.67	-2,447.81	1,887.84	1,824.14	63.71	29.634		
13,100.00	12,399.00	13,200.00	12,446.00	46.05	45.46	90.76	-817.12	-2,445.45	1,885.70	1,821.51	64.18	29.380		
13,160.11	12,399.00	13,217.18	12,446.00	46.34	45.52	90.76	-834.29	-2,445.23	1,885.16	1,820.71	64.44	29.253 CC		
13,200.00	12,399.00	13,256.86	12,446.00	46.53	45.67	90.76	-873.97	-2,444.84	1,885.16	1,820.48	64.68	29.145		
13,300.00	12,399.00	13,356.86	12,446.00	47.07	46.08	90.76	-973.97	-2,443.85	1,885.17	1,819.83	65.34	28.851		
13,400.00	12,399.00	13,456.86	12,446.00	47.65	46.54	90.76	-1,073.96	-2,442.87	1,885.18	1,819.11	66.08	28.531		
13,500.00	12,399.00	13,556.86	12,446.00	48.29	47.06	90.76	-1,173.96	-2,441.88	1,885.19	1,818.31	66.88	28.186		
13,600.00	12,399.00	13,656.86	12,446.00	48.97	47.62	90.76	-1,273.95	-2,440.90	1,885.20	1,817.44	67.76	27.821		
13,700.00	12,399.00	13,756.86	12,446.00	49.70	48.23	90.76	-1,373.95	-2,439.92	1,885.22	1,816.51	68.71	27.438		
13,800.00	12,399.00	13,856.86	12,446.00	50.47	48.88	90.76	-1,473.95	-2,438.93	1,885.23	1,815.51	69.72	27.040		
13,900.00	12,399.00	13,956.86	12,446.00	51.29	49.59	90.76	-1,573.94	-2,437.95	1,885.24	1,814.44	70.79	26.630		

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 804H
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 804H	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							
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	12,399.00	14,056.86	12,446.00	52.14	50.33	90.76	-1,673.94	-2,436.97	1,885.25	1,813.32	71.93	26.210		
14,100.00	12,399.00	14,156.86	12,446.00	53.03	51.12	90.76	-1,773.93	-2,435.98	1,885.26	1,812.14	73.12	25.784		
14,200.00	12,399.00	14,256.86	12,446.00	53.95	51.95	90.76	-1,873.93	-2,435.00	1,885.27	1,810.90	74.36	25.352		
14,300.00	12,399.00	14,356.86	12,446.00	54.91	52.81	90.76	-1,973.92	-2,434.01	1,885.28	1,809.62	75.66	24.917		
14,400.00	12,399.00	14,456.86	12,446.00	55.90	53.72	90.76	-2,073.92	-2,433.03	1,885.29	1,808.28	77.01	24.482		
14,500.00	12,399.00	14,556.86	12,446.00	56.93	54.65	90.76	-2,173.91	-2,432.05	1,885.30	1,806.90	78.40	24.047		
14,600.00	12,399.00	14,656.86	12,446.00	57.98	55.62	90.76	-2,273.91	-2,431.06	1,885.31	1,805.48	79.84	23.615		
14,700.00	12,399.00	14,756.86	12,446.00	59.06	56.62	90.76	-2,373.90	-2,430.08	1,885.32	1,804.01	81.31	23.186		
14,800.00	12,399.00	14,856.86	12,446.00	60.16	57.66	90.76	-2,473.90	-2,429.10	1,885.33	1,802.50	82.83	22.761		
14,900.00	12,399.00	14,956.86	12,446.00	61.29	58.72	90.76	-2,573.89	-2,428.11	1,885.34	1,800.96	84.39	22.342		
15,000.00	12,399.00	15,056.86	12,446.00	62.44	59.80	90.76	-2,673.89	-2,427.13	1,885.35	1,799.38	85.98	21.929		
15,100.00	12,399.00	15,156.86	12,446.00	63.61	60.91	90.76	-2,773.88	-2,426.14	1,885.37	1,797.76	87.60	21.522		
15,200.00	12,399.00	15,256.86	12,446.00	64.81	62.05	90.76	-2,873.88	-2,425.16	1,885.38	1,796.12	89.26	21.123		
15,300.00	12,399.00	15,356.86	12,446.00	66.02	63.21	90.76	-2,973.87	-2,424.18	1,885.39	1,794.45	90.94	20.732		
15,400.00	12,399.00	15,456.86	12,446.00	67.26	64.39	90.76	-3,073.87	-2,423.19	1,885.40	1,792.74	92.65	20.349		
15,500.00	12,399.00	15,556.86	12,446.00	68.51	65.59	90.76	-3,173.86	-2,422.21	1,885.41	1,791.01	94.39	19.974		
15,600.00	12,399.00	15,656.86	12,446.00	69.77	66.81	90.76	-3,273.86	-2,421.23	1,885.42	1,789.26	96.16	19.607		
15,700.00	12,399.00	15,756.86	12,446.00	71.06	68.04	90.76	-3,373.85	-2,420.24	1,885.43	1,787.48	97.95	19.249		
15,800.00	12,399.00	15,856.86	12,446.00	72.35	69.30	90.76	-3,473.85	-2,419.26	1,885.44	1,785.68	99.76	18.900		
15,900.00	12,399.00	15,956.86	12,446.00	73.67	70.57	90.76	-3,573.84	-2,418.27	1,885.45	1,783.86	101.59	18.559		
16,000.00	12,399.00	16,056.86	12,446.00	74.99	71.85	90.76	-3,673.84	-2,417.29	1,885.46	1,782.01	103.45	18.226		
16,100.00	12,399.00	16,156.86	12,446.00	76.33	73.16	90.76	-3,773.83	-2,416.31	1,885.47	1,780.15	105.32	17.902		
16,200.00	12,399.00	16,256.86	12,446.00	77.68	74.47	90.76	-3,873.83	-2,415.32	1,885.48	1,778.27	107.21	17.587		
16,300.00	12,399.00	16,356.86	12,446.00	79.04	75.80	90.76	-3,973.82	-2,414.34	1,885.49	1,776.37	109.12	17.279		
16,400.00	12,399.00	16,456.86	12,446.00	80.41	77.14	90.76	-4,073.82	-2,413.36	1,885.50	1,774.46	111.04	16.980		
16,500.00	12,399.00	16,556.86	12,446.00	81.80	78.49	90.76	-4,173.81	-2,412.37	1,885.52	1,772.53	112.98	16.688		
16,600.00	12,399.00	16,656.86	12,446.00	83.19	79.86	90.76	-4,273.81	-2,411.39	1,885.53	1,770.59	114.94	16.405		
16,700.00	12,399.00	16,756.86	12,446.00	84.59	81.23	90.76	-4,373.81	-2,410.40	1,885.54	1,768.63	116.91	16.129		
16,800.00	12,399.00	16,856.86	12,446.00	86.00	82.61	90.76	-4,473.80	-2,409.42	1,885.55	1,766.66	118.89	15.860		
16,900.00	12,399.00	16,956.86	12,446.00	87.42	84.01	90.76	-4,573.80	-2,408.44	1,885.56	1,764.68	120.88	15.598		
17,000.00	12,399.00	17,056.86	12,446.00	88.85	85.41	90.76	-4,673.79	-2,407.45	1,885.57	1,762.68	122.89	15.344		
17,100.00	12,399.00	17,156.86	12,446.00	90.28	86.82	90.76	-4,773.79	-2,406.47	1,885.58	1,760.67	124.91	15.096		
17,200.00	12,399.00	17,256.86	12,446.00	91.72	88.24	90.76	-4,873.78	-2,405.49	1,885.59	1,758.66	126.94	14.855		
17,300.00	12,399.00	17,356.86	12,446.00	93.17	89.67	90.76	-4,973.78	-2,404.50	1,885.60	1,756.63	128.97	14.620		
17,400.00	12,399.00	17,456.86	12,446.00	94.63	91.11	90.76	-5,073.77	-2,403.52	1,885.61	1,754.59	131.02	14.391		
17,500.00	12,399.00	17,556.86	12,446.00	96.09	92.55	90.76	-5,173.77	-2,402.53	1,885.62	1,752.54	133.08	14.169		
17,600.00	12,399.00	17,656.86	12,446.00	97.56	94.00	90.76	-5,273.76	-2,401.55	1,885.63	1,750.48	135.15	13.952		
17,700.00	12,399.00	17,756.86	12,446.00	99.03	95.46	90.76	-5,373.76	-2,400.57	1,885.64	1,748.42	137.23	13.741		
17,800.00	12,399.00	17,856.86	12,446.00	100.51	96.92	90.76	-5,473.75	-2,399.58	1,885.65	1,746.35	139.31	13.536		
17,900.00	12,399.00	17,956.86	12,446.00	102.00	98.39	90.76	-5,573.75	-2,398.60	1,885.67	1,744.26	141.40	13.336		
18,000.00	12,399.00	18,056.86	12,446.00	103.48	99.86	90.76	-5,673.74	-2,397.62	1,885.68	1,742.17	143.50	13.141		
18,100.00	12,399.00	18,156.86	12,446.00	104.98	101.34	90.76	-5,773.74	-2,396.63	1,885.69	1,740.08	145.61	12.950		
18,200.00	12,399.00	18,256.86	12,446.00	106.48	102.83	90.76	-5,873.73	-2,395.65	1,885.70	1,737.98	147.72	12.765		
18,300.00	12,399.00	18,356.86	12,446.00	107.98	104.32	90.76	-5,973.73	-2,394.66	1,885.71	1,735.87	149.84	12.585		
18,400.00	12,399.00	18,456.86	12,446.00	109.49	105.81	90.76	-6,073.72	-2,393.68	1,885.72	1,733.75	151.97	12.409		
18,500.00	12,399.00	18,556.86	12,446.00	111.00	107.31	90.76	-6,173.72	-2,392.70	1,885.73	1,731.63	154.10	12.237		
18,600.00	12,399.00	18,656.86	12,446.00	112.52	108.81	90.76	-6,273.71	-2,391.71	1,885.74	1,729.50	156.24	12.070		
18,700.00	12,399.00	18,756.86	12,446.00	114.04	110.32	90.76	-6,373.71	-2,390.73	1,885.75	1,727.37	158.38	11.906		
18,800.00	12,399.00	18,856.86	12,446.00	115.56	111.83	90.76	-6,473.70	-2,389.75	1,885.76	1,725.23	160.53	11.747		
18,900.00	12,399.00	18,956.86	12,446.00	117.09	113.35	90.76	-6,573.70	-2,388.76	1,885.77	1,723.09	162.69	11.591		
19,000.00	12,399.00	19,056.86	12,446.00	118.62	114.87	90.76	-6,673.69	-2,387.78	1,885.78	1,720.94	164.85	11.440		
19,100.00	12,399.00	19,156.86	12,446.00	120.15	116.39	90.76	-6,773.69	-2,386.79	1,885.79	1,718.78	167.01	11.291		

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 804H
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 804H	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				
19,200.00	12,399.00	19,256.86	12,446.00	121.69	117.92	90.76	-6,873.68	-2,385.81	1,885.80	1,716.63	169.18	11.147				
19,300.00	12,399.00	19,356.86	12,446.00	123.22	119.45	90.76	-6,973.68	-2,384.83	1,885.82	1,714.46	171.35	11.005				
19,400.00	12,399.00	19,456.86	12,446.00	124.77	120.98	90.76	-7,073.67	-2,383.84	1,885.83	1,712.30	173.53	10.867				
19,500.00	12,399.00	19,556.86	12,446.00	126.31	122.52	90.76	-7,173.67	-2,382.86	1,885.84	1,710.13	175.71	10.733				
19,600.00	12,399.00	19,656.86	12,446.00	127.86	124.06	90.76	-7,273.66	-2,381.88	1,885.85	1,707.95	177.90	10.601				
19,700.00	12,399.00	19,756.86	12,446.00	129.41	125.60	90.76	-7,373.66	-2,380.89	1,885.86	1,705.77	180.08	10.472				
19,800.00	12,399.00	19,856.86	12,446.00	130.96	127.14	90.76	-7,473.66	-2,379.91	1,885.87	1,703.59	182.28	10.346				
19,900.00	12,399.00	19,956.86	12,446.00	132.52	128.69	90.76	-7,573.65	-2,378.92	1,885.88	1,701.41	184.47	10.223				
20,000.00	12,399.00	20,056.86	12,446.00	134.07	130.24	90.76	-7,673.65	-2,377.94	1,885.89	1,699.22	186.67	10.103				
20,100.00	12,399.00	20,156.86	12,446.00	135.63	131.79	90.76	-7,773.64	-2,376.96	1,885.90	1,697.03	188.88	9.985				
20,200.00	12,399.00	20,256.86	12,446.00	137.20	133.35	90.76	-7,873.64	-2,375.97	1,885.91	1,694.83	191.08	9.870				
20,300.00	12,399.00	20,356.86	12,446.00	138.76	134.91	90.76	-7,973.63	-2,374.99	1,885.92	1,692.63	193.29	9.757				
20,400.00	12,399.00	20,456.86	12,446.00	140.32	136.47	90.76	-8,073.63	-2,374.01	1,885.93	1,690.43	195.50	9.647				
20,500.00	12,399.00	20,556.86	12,446.00	141.89	138.03	90.76	-8,173.62	-2,373.02	1,885.94	1,688.23	197.72	9.539				
20,600.00	12,399.00	20,656.86	12,446.00	143.46	139.59	90.76	-8,273.62	-2,372.04	1,885.95	1,686.02	199.93	9.433				
20,700.00	12,399.00	20,756.86	12,446.00	145.03	141.16	90.76	-8,373.61	-2,371.05	1,885.97	1,683.81	202.15	9.329				
20,800.00	12,399.00	20,856.86	12,446.00	146.61	142.72	90.76	-8,473.61	-2,370.07	1,885.98	1,681.60	204.38	9.228				
20,900.00	12,399.00	20,956.86	12,446.00	148.18	144.29	90.76	-8,573.60	-2,369.09	1,885.99	1,679.38	206.60	9.129				
21,000.00	12,399.00	21,056.86	12,446.00	149.76	145.86	90.76	-8,673.60	-2,368.10	1,886.00	1,677.17	208.83	9.031				
21,100.00	12,399.00	21,156.86	12,446.00	151.34	147.44	90.76	-8,773.59	-2,367.12	1,886.01	1,674.95	211.06	8.936				
21,200.00	12,399.00	21,256.86	12,446.00	152.92	149.01	90.76	-8,873.59	-2,366.14	1,886.02	1,672.73	213.29	8.842				
21,300.00	12,399.00	21,356.86	12,446.00	154.50	150.59	90.76	-8,973.58	-2,365.15	1,886.03	1,670.50	215.53	8.751				
21,400.00	12,399.00	21,456.86	12,446.00	156.08	152.17	90.76	-9,073.58	-2,364.17	1,886.04	1,668.28	217.76	8.661				
21,500.00	12,399.00	21,556.86	12,446.00	157.66	153.75	90.76	-9,173.57	-2,363.18	1,886.05	1,666.05	220.00	8.573				
21,600.00	12,399.00	21,656.86	12,446.00	159.25	155.33	90.76	-9,273.57	-2,362.20	1,886.06	1,663.82	222.24	8.487				
21,700.00	12,399.00	21,756.86	12,446.00	160.84	156.91	90.76	-9,373.56	-2,361.22	1,886.07	1,661.59	224.48	8.402				
21,800.00	12,399.00	21,856.86	12,446.00	162.42	158.49	90.76	-9,473.56	-2,360.23	1,886.08	1,659.35	226.73	8.319				
21,900.00	12,399.00	21,956.86	12,446.00	164.01	160.08	90.76	-9,573.55	-2,359.25	1,886.09	1,657.12	228.98	8.237				
22,000.00	12,399.00	22,056.86	12,446.00	165.60	161.66	90.76	-9,673.55	-2,358.27	1,886.10	1,654.88	231.22	8.157				
22,100.00	12,399.00	22,156.86	12,446.00	167.19	163.25	90.76	-9,773.54	-2,357.28	1,886.12	1,652.64	233.47	8.079				
22,200.00	12,399.00	22,256.86	12,446.00	168.79	164.84	90.76	-9,873.54	-2,356.30	1,886.13	1,650.40	235.72	8.001				
22,300.00	12,399.00	22,356.86	12,446.00	170.38	166.43	90.76	-9,973.53	-2,355.31	1,886.14	1,648.16	237.98	7.926				
22,400.00	12,399.00	22,456.86	12,446.00	171.98	168.02	90.76	-10,073.53	-2,354.33	1,886.15	1,645.92	240.23	7.851				
22,500.00	12,399.00	22,556.86	12,446.00	173.57	169.62	90.76	-10,173.52	-2,353.35	1,886.16	1,643.67	242.49	7.778				
22,600.00	12,399.00	22,656.86	12,446.00	175.17	171.21	90.76	-10,273.52	-2,352.36	1,886.17	1,641.42	244.74	7.707				
22,700.00	12,399.00	22,756.86	12,446.00	176.77	172.80	90.76	-10,373.51	-2,351.38	1,886.18	1,639.18	247.00	7.636				
22,800.00	12,399.00	22,856.86	12,446.00	178.37	174.40	90.76	-10,473.51	-2,350.40	1,886.19	1,636.93	249.26	7.567				
22,900.00	12,399.00	22,956.86	12,446.00	179.97	176.00	90.76	-10,573.51	-2,349.41	1,886.20	1,634.68	251.53	7.499				
23,000.00	12,399.00	23,056.86	12,446.00	181.57	177.59	90.76	-10,673.50	-2,348.43	1,886.21	1,632.42	253.79	7.432				
23,100.00	12,399.00	23,156.86	12,446.00	183.17	179.19	90.76	-10,773.50	-2,347.44	1,886.22	1,630.17	256.05	7.367				
23,200.00	12,399.00	23,256.86	12,446.00	184.77	180.79	90.76	-10,873.49	-2,346.46	1,886.23	1,627.91	258.32	7.302				
23,300.00	12,399.00	23,356.86	12,446.00	186.38	182.39	90.76	-10,973.49	-2,345.48	1,886.24	1,625.66	260.59	7.238				
23,400.00	12,399.00	23,456.86	12,446.00	187.98	183.99	90.76	-11,073.48	-2,344.49	1,886.25	1,623.40	262.85	7.176				
23,500.00	12,399.00	23,556.86	12,446.00	189.58	185.60	90.76	-11,173.48	-2,343.51	1,886.27	1,621.14	265.12	7.115				
23,600.00	12,399.00	23,656.86	12,446.00	191.19	187.20	90.76	-11,273.47	-2,342.53	1,886.28	1,618.88	267.39	7.054				
23,700.00	12,399.00	23,756.86	12,446.00	192.80	188.80	90.76	-11,373.47	-2,341.54	1,886.29	1,616.62	269.66	6.995				
23,800.00	12,399.00	23,856.86	12,446.00	194.41	190.41	90.76	-11,473.46	-2,340.56	1,886.30	1,614.36	271.94	6.937				
23,802.30	12,399.00	23,859.16	12,446.00	194.44	190.45	90.76	-11,475.76	-2,340.54	1,886.30	1,614.31	271.99	6.935				
23,874.38	12,399.00	23,929.64	12,446.00	195.60	191.58	90.76	-11,546.24	-2,339.84	1,886.31	1,612.69	273.61	6.894 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 804H
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 804H	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	-97.86	-391.55	-2,836.94	2,863.83					
100.00	100.00	122.00	122.00	0.13	0.20	-97.86	-391.55	-2,836.94	2,863.83	2,863.59	0.24	N/A		
200.00	200.00	222.00	222.00	0.48	0.56	-97.86	-391.55	-2,836.94	2,863.83	2,863.09	0.74	3,858.293		
300.00	300.00	322.00	322.00	0.84	0.92	-97.86	-391.55	-2,836.94	2,863.83	2,862.58	1.25	2,294.080		
400.00	400.00	422.00	422.00	1.20	1.28	-97.86	-391.55	-2,836.94	2,863.83	2,862.07	1.75	1,631.856		
500.00	500.00	522.00	522.00	1.56	1.64	-97.86	-391.55	-2,836.94	2,863.83	2,861.57	2.26	1,266.224		
600.00	600.00	622.00	622.00	1.92	2.00	-97.86	-391.55	-2,836.94	2,863.83	2,861.06	2.77	1,034.419		
700.00	700.00	722.00	722.00	2.28	2.36	-97.86	-391.55	-2,836.94	2,863.83	2,860.55	3.28	874.343		
800.00	800.00	822.00	822.00	2.63	2.71	-97.86	-391.55	-2,836.94	2,863.83	2,860.05	3.78	757.166		
900.00	900.00	922.00	922.00	2.99	3.07	-97.86	-391.55	-2,836.94	2,863.83	2,859.54	4.29	667.683		
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-97.86	-391.55	-2,836.94	2,863.83	2,859.03	4.80	597.114		
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-97.86	-391.55	-2,836.94	2,863.83	2,858.53	5.30	540.035		
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-97.86	-391.55	-2,836.94	2,863.83	2,858.02	5.81	492.916		
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-97.86	-391.55	-2,836.94	2,863.83	2,857.51	6.32	453.359		
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-97.86	-391.55	-2,836.94	2,863.83	2,857.01	6.82	419.680		
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-97.86	-391.55	-2,836.94	2,863.83	2,856.50	7.33	390.658		
1,600.00	1,600.00	2,199.14	2,194.78	5.50	7.67	-97.52	-366.91	-2,779.58	2,861.60	2,852.35	9.25	309.334		
1,700.00	1,700.00	2,447.79	2,435.86	5.86	8.70	-97.18	-342.94	-2,723.79	2,836.58	2,826.49	10.10	280.903		
1,800.00	1,800.00	2,544.32	2,529.03	6.22	9.12	-97.03	-332.98	-2,700.62	2,811.43	2,800.84	10.59	265.528		
1,900.00	1,900.00	2,640.84	2,622.21	6.58	9.56	-96.88	-323.03	-2,677.45	2,786.29	2,775.20	11.08	251.424		
2,000.00	2,000.00	2,737.37	2,715.39	6.94	10.01	-96.73	-313.08	-2,654.28	2,761.17	2,749.59	11.58	238.454		
2,100.00	2,099.99	2,833.62	2,808.30	7.29	10.46	-22.14	-303.16	-2,631.18	2,734.89	2,722.81	12.08	226.471		
2,200.00	2,199.91	2,929.27	2,900.63	7.64	10.92	-22.18	-293.29	-2,608.23	2,706.30	2,693.73	12.57	215.291		
2,300.00	2,299.69	3,024.26	2,992.31	7.99	11.39	-22.26	-283.50	-2,585.43	2,675.40	2,662.34	13.06	204.790		
2,400.00	2,399.27	3,118.51	3,083.29	8.34	11.85	-22.37	-273.78	-2,562.81	2,642.22	2,628.66	13.56	194.901		
2,458.69	2,457.58	3,173.46	3,136.33	8.55	12.12	-22.45	-268.12	-2,549.62	2,621.68	2,607.84	13.85	189.350		
2,500.00	2,498.60	3,212.04	3,173.58	8.70	12.31	-22.43	-264.14	-2,540.36	2,606.96	2,592.91	14.05	185.571		
2,600.00	2,597.88	3,305.43	3,263.72	9.06	12.78	-22.36	-254.51	-2,517.95	2,571.31	2,556.77	14.54	176.863		
2,700.00	2,697.16	3,398.82	3,353.87	9.43	13.26	-22.29	-244.88	-2,495.54	2,535.66	2,520.63	15.03	168.696		
2,800.00	2,796.44	3,492.21	3,444.02	9.80	13.73	-22.23	-235.25	-2,473.12	2,500.02	2,484.49	15.53	161.023		
2,900.00	2,895.72	3,585.60	3,534.16	10.17	14.21	-22.15	-225.62	-2,450.71	2,464.38	2,448.36	16.02	153.804		
3,000.00	2,995.00	3,678.99	3,624.31	10.54	14.69	-22.08	-215.99	-2,428.30	2,428.74	2,412.22	16.52	147.003		
3,100.00	3,094.28	3,772.38	3,714.46	10.92	15.18	-22.01	-206.37	-2,405.88	2,393.11	2,376.09	17.02	140.587		
3,200.00	3,193.56	3,865.76	3,804.60	11.30	15.67	-21.93	-196.74	-2,383.47	2,357.48	2,339.96	17.52	134.524		
3,300.00	3,292.84	3,959.15	3,894.75	11.68	16.15	-21.85	-187.11	-2,361.05	2,321.86	2,303.83	18.03	128.789		
3,400.00	3,392.12	4,052.54	3,984.90	12.06	16.65	-21.76	-177.48	-2,338.64	2,286.24	2,267.71	18.53	123.356		
3,500.00	3,491.40	4,145.93	4,075.04	12.45	17.14	-21.68	-167.85	-2,316.23	2,250.62	2,231.58	19.04	118.203		
3,600.00	3,590.68	4,239.32	4,165.19	12.83	17.63	-21.59	-158.22	-2,293.81	2,215.01	2,195.46	19.55	113.311		
3,700.00	3,689.96	4,332.71	4,255.34	13.22	18.13	-21.50	-148.59	-2,271.40	2,179.40	2,159.35	20.06	108.659		
3,800.00	3,789.24	4,426.10	4,345.48	13.60	18.62	-21.41	-138.96	-2,248.99	2,143.80	2,123.24	20.57	104.233		
3,900.00	3,888.52	4,519.49	4,435.63	13.99	19.12	-21.31	-129.33	-2,226.57	2,108.21	2,087.13	21.08	100.015		
4,000.00	3,987.80	4,612.88	4,525.78	14.38	19.62	-21.21	-119.71	-2,204.16	2,072.61	2,051.02	21.59	95.993		
4,100.00	4,087.08	4,706.27	4,615.93	14.77	20.12	-21.11	-110.08	-2,181.75	2,037.03	2,014.92	22.10	92.153		
4,200.00	4,186.36	4,799.66	4,706.07	15.16	20.62	-21.00	-100.45	-2,159.33	2,001.45	1,978.83	22.62	88.484		
4,300.00	4,285.64	4,893.05	4,796.22	15.56	21.12	-20.89	-90.82	-2,136.92	1,965.88	1,942.74	23.13	84.975		
4,400.00	4,384.92	4,986.43	4,886.37	15.95	21.63	-20.77	-81.19	-2,114.51	1,930.31	1,906.66	23.65	81.618		
4,500.00	4,484.20	5,079.82	4,976.51	16.34	22.13	-20.65	-71.56	-2,092.09	1,894.75	1,870.58	24.17	78.401		
4,600.00	4,583.48	5,173.21	5,066.66	16.74	22.64	-20.53	-61.93	-2,069.68	1,859.20	1,834.52	24.69	75.316		
4,700.00	4,682.76	5,266.60	5,156.81	17.13	23.14	-20.40	-52.30	-2,047.26	1,823.66	1,798.45	25.20	72.356		
4,800.00	4,782.04	5,359.99	5,246.95	17.53	23.65	-20.26	-42.67	-2,024.85	1,788.12	1,762.40	25.72	69.513		
4,900.00	4,881.32	5,453.38	5,337.10	17.92	24.15	-20.12	-33.05	-2,002.44	1,752.60	1,726.35	26.24	66.779		
5,000.00	4,980.60	5,546.77	5,427.25	18.32	24.66	-19.98	-23.42	-1,980.02	1,717.08	1,690.31	26.77	64.150		

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 804H
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 804H	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	5,079.88	5,640.16	5,517.39	18.71	25.17	-19.82	-13.79	-1,957.61	1,681.57	1,654.28	27.29	61.620		
5,200.00	5,179.16	5,733.55	5,607.54	19.11	25.67	-19.67	-4.16	-1,935.20	1,646.08	1,618.26	27.81	59.183		
5,300.00	5,278.44	5,826.94	5,697.69	19.51	26.18	-19.50	5.47	-1,912.78	1,610.59	1,582.26	28.34	56.835		
5,400.00	5,377.72	5,920.33	5,787.83	19.90	26.69	-19.33	15.10	-1,890.37	1,575.12	1,546.26	28.86	54.570		
5,500.00	5,477.00	6,013.71	5,877.98	20.30	27.20	-19.15	24.73	-1,867.96	1,539.66	1,510.27	29.39	52.385		
5,600.00	5,576.28	6,107.10	5,968.13	20.70	27.71	-18.96	34.36	-1,845.54	1,504.22	1,474.30	29.92	50.276		
5,700.00	5,675.56	6,200.49	6,058.27	21.10	28.22	-18.76	43.99	-1,823.13	1,468.79	1,438.34	30.45	48.239		
5,800.00	5,774.84	6,293.88	6,148.42	21.50	28.73	-18.55	53.61	-1,800.72	1,433.38	1,402.40	30.98	46.270		
5,900.00	5,874.12	6,387.27	6,238.57	21.90	29.24	-18.33	63.24	-1,778.30	1,397.98	1,366.47	31.51	44.366		
6,000.00	5,973.40	6,480.66	6,328.71	22.30	29.75	-18.10	72.87	-1,755.89	1,362.60	1,330.56	32.04	42.523		
6,100.00	6,072.68	6,574.05	6,418.86	22.70	30.26	-17.86	82.50	-1,733.47	1,327.25	1,294.67	32.58	40.740		
6,200.00	6,171.96	6,667.44	6,509.01	23.10	30.78	-17.60	92.13	-1,711.06	1,291.91	1,258.80	33.11	39.014		
6,300.00	6,271.24	6,760.83	6,599.15	23.50	31.29	-17.34	101.76	-1,688.65	1,256.60	1,222.95	33.65	37.341		
6,400.00	6,370.52	6,839.91	6,675.55	23.90	31.71	-17.10	109.83	-1,669.87	1,221.61	1,187.41	34.20	35.722		
6,500.00	6,469.80	6,900.00	6,733.90	24.30	32.03	-16.93	115.49	-1,656.68	1,188.51	1,153.76	34.75	34.204		
6,600.00	6,569.08	6,976.46	6,808.56	24.70	32.41	-16.75	122.00	-1,641.53	1,157.46	1,122.18	35.28	32.807		
6,700.00	6,668.36	7,046.31	6,877.13	25.10	32.74	-16.61	127.26	-1,629.29	1,128.59	1,092.79	35.80	31.523		
6,800.00	6,767.64	7,117.13	6,946.95	25.50	33.05	-16.50	131.91	-1,618.46	1,101.91	1,065.61	36.31	30.348		
6,900.00	6,866.91	7,200.00	7,029.01	25.90	33.40	-16.41	136.49	-1,607.80	1,077.55	1,040.74	36.81	29.272		
6,934.75	6,901.42	7,213.97	7,042.87	26.04	33.45	-16.40	137.17	-1,606.22	1,069.50	1,032.54	36.97	28.933		
7,000.00	6,966.26	7,261.47	7,090.07	26.30	33.63	-16.31	139.28	-1,601.31	1,055.82	1,018.54	37.27	28.328		
7,100.00	7,065.85	7,335.13	7,163.41	26.68	33.90	-16.20	141.94	-1,595.11	1,038.79	1,001.07	37.72	27.536		
7,200.00	7,165.65	7,400.00	7,228.14	27.05	34.12	-16.12	143.67	-1,591.09	1,026.68	988.55	38.13	26.927		
7,300.00	7,265.57	7,484.59	7,312.65	27.41	34.38	-16.07	145.05	-1,587.87	1,019.35	980.78	38.56	26.432		
7,393.44	7,359.00	7,560.95	7,389.00	27.72	34.59	-90.65	145.45	-1,586.94	1,017.03	978.09	38.94	26.115		
7,400.00	7,365.56	7,560.95	7,389.00	27.74	34.59	-90.65	145.45	-1,586.94	1,017.00	978.05	38.95	26.111		
7,433.82	7,399.38	7,593.33	7,421.38	27.86	34.68	-90.65	145.45	-1,586.94	1,017.00	977.90	39.10	26.010		
7,500.00	7,465.56	7,659.51	7,487.56	28.08	34.86	-90.65	145.45	-1,586.94	1,017.00	977.59	39.41	25.807		
7,600.00	7,565.56	7,759.51	7,587.56	28.41	35.13	-90.65	145.45	-1,586.94	1,017.00	977.13	39.87	25.506		
7,700.00	7,665.56	7,859.51	7,687.56	28.74	35.40	-90.65	145.45	-1,586.94	1,017.00	976.66	40.34	25.211		
7,800.00	7,765.56	7,959.51	7,787.56	29.07	35.68	-90.65	145.45	-1,586.94	1,017.00	976.20	40.81	24.922		
7,900.00	7,865.56	8,059.51	7,887.56	29.41	35.95	-90.65	145.45	-1,586.94	1,017.00	975.73	41.28	24.640		
8,000.00	7,965.56	8,159.51	7,987.56	29.74	36.23	-90.65	145.45	-1,586.94	1,017.00	975.26	41.74	24.363		
8,100.00	8,065.56	8,259.51	8,087.56	30.08	36.51	-90.65	145.45	-1,586.94	1,017.00	974.79	42.21	24.091		
8,200.00	8,165.56	8,359.51	8,187.56	30.41	36.79	-90.65	145.45	-1,586.94	1,017.00	974.32	42.69	23.826		
8,300.00	8,265.56	8,459.51	8,287.56	30.75	37.07	-90.65	145.45	-1,586.94	1,017.00	973.84	43.16	23.565		
8,400.00	8,365.56	8,559.51	8,387.56	31.09	37.35	-90.65	145.45	-1,586.94	1,017.00	973.37	43.63	23.310		
8,500.00	8,465.56	8,659.51	8,487.56	31.42	37.63	-90.65	145.45	-1,586.94	1,017.00	972.90	44.10	23.060		
8,600.00	8,565.56	8,759.51	8,587.56	31.76	37.92	-90.65	145.45	-1,586.94	1,017.00	972.43	44.58	22.815		
8,700.00	8,665.56	8,859.51	8,687.56	32.10	38.20	-90.65	145.45	-1,586.94	1,017.00	971.95	45.05	22.574		
8,800.00	8,765.56	8,959.51	8,787.56	32.44	38.49	-90.65	145.45	-1,586.94	1,017.00	971.47	45.53	22.338		
8,900.00	8,865.56	9,059.51	8,887.56	32.78	38.78	-90.65	145.45	-1,586.94	1,017.00	971.00	46.00	22.107		
9,000.00	8,965.56	9,159.51	8,987.56	33.12	39.07	-90.65	145.45	-1,586.94	1,017.00	970.52	46.48	21.880		
9,100.00	9,065.56	9,259.51	9,087.56	33.45	39.36	-90.65	145.45	-1,586.94	1,017.00	970.04	46.96	21.658		
9,200.00	9,165.56	9,359.51	9,187.56	33.79	39.65	-90.65	145.45	-1,586.94	1,017.00	969.57	47.44	21.440		
9,300.00	9,265.56	9,459.51	9,287.56	34.14	39.94	-90.65	145.45	-1,586.94	1,017.00	969.09	47.91	21.226		
9,400.00	9,365.56	9,559.51	9,387.56	34.48	40.24	-90.65	145.45	-1,586.94	1,017.00	968.61	48.39	21.015		
9,500.00	9,465.56	9,659.51	9,487.56	34.82	40.53	-90.65	145.45	-1,586.94	1,017.00	968.13	48.87	20.809		
9,600.00	9,565.56	9,759.51	9,587.56	35.16	40.83	-90.65	145.45	-1,586.94	1,017.00	967.65	49.35	20.607		
9,700.00	9,665.56	9,859.51	9,687.56	35.50	41.12	-90.65	145.45	-1,586.94	1,017.00	967.17	49.83	20.408		
9,800.00	9,765.56	9,959.51	9,787.56	35.84	41.42	-90.65	145.45	-1,586.94	1,017.00	966.69	50.32	20.213		
9,900.00	9,865.56	10,059.51	9,887.56	36.19	41.72	-90.65	145.45	-1,586.94	1,017.00	966.20	50.80	20.021		

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 804H
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 804H	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	9,965.56	10,159.51	9,987.56	36.53	42.02	-90.65	145.45	-1,586.94	1,017.00	965.72	51.28	19.833		
10,100.00	10,065.56	10,259.51	10,087.56	36.87	42.32	-90.65	145.45	-1,586.94	1,017.00	965.24	51.76	19.648		
10,200.00	10,165.56	10,359.51	10,187.56	37.21	42.62	-90.65	145.45	-1,586.94	1,017.00	964.76	52.25	19.466		
10,300.00	10,265.56	10,459.51	10,287.56	37.56	42.92	-90.65	145.45	-1,586.94	1,017.00	964.27	52.73	19.287		
10,400.00	10,365.56	10,559.51	10,387.56	37.90	43.23	-90.65	145.45	-1,586.94	1,017.00	963.79	53.21	19.112		
10,500.00	10,465.56	10,659.51	10,487.56	38.25	43.53	-90.65	145.45	-1,586.94	1,017.00	963.30	53.70	18.939		
10,600.00	10,565.56	10,759.51	10,587.56	38.59	43.84	-90.65	145.45	-1,586.94	1,017.00	962.82	54.18	18.770		
10,700.00	10,665.56	10,859.51	10,687.56	38.94	44.14	-90.65	145.45	-1,586.94	1,017.00	962.33	54.67	18.603		
10,800.00	10,765.56	10,959.51	10,787.56	39.28	44.45	-90.65	145.45	-1,586.94	1,017.00	961.85	55.15	18.439		
10,900.00	10,865.56	11,059.51	10,887.56	39.63	44.76	-90.65	145.45	-1,586.94	1,017.00	961.36	55.64	18.278		
11,000.00	10,965.56	11,159.51	10,987.56	39.97	45.06	-90.65	145.45	-1,586.94	1,017.00	960.88	56.13	18.120		
11,100.00	11,065.56	11,259.51	11,087.56	40.32	45.37	-90.65	145.45	-1,586.94	1,017.00	960.39	56.61	17.964		
11,200.00	11,165.56	11,359.51	11,187.56	40.66	45.68	-90.65	145.45	-1,586.94	1,017.00	959.90	57.10	17.811		
11,300.00	11,265.56	11,459.51	11,287.56	41.01	45.99	-90.65	145.45	-1,586.94	1,017.00	959.41	57.59	17.660		
11,400.00	11,365.56	11,559.51	11,387.56	41.36	46.30	-90.65	145.45	-1,586.94	1,017.00	958.93	58.08	17.512		
11,500.00	11,465.56	11,659.51	11,487.56	41.70	46.62	-90.65	145.45	-1,586.94	1,017.00	958.44	58.56	17.366		
11,600.00	11,565.56	11,759.51	11,587.56	42.05	46.93	-90.65	145.45	-1,586.94	1,017.00	957.95	59.05	17.222		
11,700.00	11,665.56	11,859.51	11,687.56	42.40	47.24	-90.65	145.45	-1,586.94	1,017.00	957.46	59.54	17.081		
11,800.00	11,765.56	11,959.51	11,787.56	42.74	47.55	-90.65	145.45	-1,586.94	1,017.00	956.97	60.03	16.941		
11,860.48	11,826.04	12,019.99	11,848.04	42.95	47.74	-90.65	145.45	-1,586.94	1,017.00	956.68	60.33	16.858		
11,900.00	11,865.53	12,059.48	11,887.53	43.08	47.87	90.00	145.45	-1,586.94	1,017.00	956.48	60.52	16.805		
11,901.01	11,866.54	12,060.49	11,888.54	43.09	47.87	90.00	145.45	-1,586.94	1,017.00	956.48	60.52	16.804		
11,950.00	11,915.20	12,109.15	11,937.20	43.24	48.02	90.31	145.45	-1,586.94	1,017.02	956.26	60.76	16.738		
12,000.00	11,964.19	12,172.48	12,000.44	43.39	48.21	90.89	142.70	-1,586.55	1,016.82	955.78	61.04	16.658		
12,050.00	12,012.13	12,239.31	12,066.41	43.53	48.38	91.47	132.36	-1,585.10	1,015.94	954.65	61.29	16.575		
12,100.00	12,058.65	12,307.24	12,131.76	43.66	48.54	92.03	114.14	-1,582.54	1,014.34	952.83	61.50	16.492		
12,150.00	12,103.40	12,375.98	12,195.20	43.78	48.68	92.55	88.04	-1,578.87	1,011.99	950.32	61.67	16.409		
12,200.00	12,146.04	12,445.18	12,255.42	43.90	48.80	93.02	54.35	-1,574.13	1,008.91	947.10	61.81	16.323		
12,250.00	12,186.24	12,514.49	12,311.18	44.00	48.89	93.44	13.67	-1,568.41	1,005.09	943.18	61.92	16.233		
12,300.00	12,223.71	12,583.53	12,361.40	44.09	48.96	93.80	-33.20	-1,561.83	1,000.58	938.57	62.01	16.136		
12,350.00	12,258.14	12,651.97	12,405.20	44.17	49.00	94.11	-85.22	-1,554.52	995.41	933.31	62.10	16.029		
12,400.00	12,289.29	12,719.50	12,441.98	44.24	49.03	94.36	-141.25	-1,546.64	989.65	927.45	62.20	15.911		
12,450.00	12,316.92	12,785.84	12,471.39	44.30	49.05	94.55	-200.10	-1,538.37	983.36	921.04	62.32	15.780		
12,500.00	12,340.80	12,850.79	12,493.35	44.36	49.07	94.70	-260.60	-1,529.87	976.63	914.17	62.45	15.637		
12,550.00	12,360.77	12,914.21	12,507.98	44.43	49.09	94.80	-321.67	-1,521.29	969.55	906.93	62.61	15.484		
12,600.00	12,376.67	12,976.01	12,515.60	44.50	49.12	94.85	-382.37	-1,512.76	962.20	899.41	62.79	15.324		
12,650.00	12,388.38	13,028.32	12,517.00	44.59	49.15	94.97	-434.14	-1,505.51	954.76	891.79	62.96	15.163		
12,700.00	12,395.81	13,065.22	12,517.00	44.69	49.18	95.33	-470.73	-1,500.76	948.12	885.03	63.09	15.028		
12,750.00	12,398.90	13,100.00	12,517.00	44.81	49.21	95.78	-505.28	-1,496.73	942.56	879.34	63.22	14.909		
12,760.48	12,399.00	13,100.00	12,517.00	44.83	49.21	95.87	-505.28	-1,496.73	941.60	878.37	63.23	14.891		
12,800.00	12,399.00	13,140.10	12,517.00	44.94	49.25	95.90	-545.16	-1,492.59	937.93	874.57	63.36	14.802		
12,900.00	12,399.00	13,215.40	12,517.00	45.25	49.34	95.93	-620.21	-1,486.34	930.65	866.97	63.68	14.614		
13,000.00	12,399.00	13,300.00	12,517.00	45.62	49.47	95.96	-704.67	-1,481.66	926.05	861.97	64.08	14.451		
13,100.00	12,399.00	13,366.63	12,517.00	46.05	49.57	95.96	-771.27	-1,479.74	923.95	859.45	64.50	14.325		
13,129.53	12,399.00	13,389.36	12,517.00	46.19	49.62	95.96	-794.00	-1,479.44	923.85	859.21	64.64	14.292 CC		
13,200.00	12,399.00	13,459.83	12,517.00	46.53	49.76	95.96	-864.47	-1,478.75	923.86	858.81	65.05	14.202		
13,300.00	12,399.00	13,559.83	12,517.00	47.07	50.02	95.96	-964.47	-1,477.76	923.87	858.17	65.70	14.062		
13,400.00	12,399.00	13,659.83	12,517.00	47.65	50.33	95.96	-1,064.46	-1,476.78	923.88	857.46	66.42	13.909		
13,500.00	12,399.00	13,759.83	12,517.00	48.29	50.71	95.96	-1,164.46	-1,475.79	923.89	856.68	67.22	13.745		
13,600.00	12,399.00	13,859.83	12,517.00	48.97	51.15	95.96	-1,264.45	-1,474.81	923.90	855.82	68.08	13.571		
13,700.00	12,399.00	13,959.83	12,517.00	49.70	51.65	95.96	-1,364.45	-1,473.83	923.91	854.90	69.01	13.387		
13,800.00	12,399.00	14,059.83	12,517.00	50.47	52.20	95.96	-1,464.44	-1,472.84	923.92	853.91	70.01	13.197		

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 804H
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 804H	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			
13,900.00	12,399.00	14,159.83	12,517.00	51.29	52.81	95.96	-1,564.44	-1,471.86	923.93	852.86	71.07	13.001			
14,000.00	12,399.00	14,259.83	12,517.00	52.14	53.46	95.96	-1,664.43	-1,470.87	923.94	851.76	72.19	12.799			
14,100.00	12,399.00	14,359.83	12,517.00	53.03	54.17	95.96	-1,764.43	-1,469.89	923.95	850.59	73.36	12.594			
14,200.00	12,399.00	14,459.83	12,517.00	53.95	54.92	95.96	-1,864.42	-1,468.91	923.97	849.37	74.59	12.387			
14,300.00	12,399.00	14,559.83	12,517.00	54.91	55.71	95.96	-1,964.42	-1,467.92	923.98	848.10	75.87	12.178			
14,400.00	12,399.00	14,659.83	12,517.00	55.90	56.54	95.96	-2,064.41	-1,466.94	923.99	846.79	77.20	11.969			
14,500.00	12,399.00	14,759.83	12,517.00	56.93	57.41	95.96	-2,164.41	-1,465.95	924.00	845.42	78.58	11.759			
14,600.00	12,399.00	14,859.83	12,517.00	57.98	58.32	95.96	-2,264.40	-1,464.97	924.01	844.01	80.00	11.551			
14,700.00	12,399.00	14,959.83	12,517.00	59.06	59.26	95.96	-2,364.40	-1,463.99	924.02	842.56	81.46	11.344			
14,800.00	12,399.00	15,059.83	12,517.00	60.16	60.23	95.96	-2,464.39	-1,463.00	924.03	841.07	82.96	11.139			
14,900.00	12,399.00	15,159.83	12,517.00	61.29	61.23	95.96	-2,564.39	-1,462.02	924.04	839.54	84.50	10.936			
15,000.00	12,399.00	15,259.83	12,517.00	62.44	62.26	95.96	-2,664.38	-1,461.04	924.05	837.98	86.07	10.736			
15,100.00	12,399.00	15,359.83	12,517.00	63.61	63.32	95.96	-2,764.38	-1,460.05	924.06	836.39	87.67	10.540			
15,200.00	12,399.00	15,459.83	12,517.00	64.81	64.40	95.96	-2,864.37	-1,459.07	924.07	834.76	89.31	10.347			
15,300.00	12,399.00	15,559.83	12,517.00	66.02	65.51	95.96	-2,964.37	-1,458.08	924.08	833.10	90.98	10.157			
15,400.00	12,399.00	15,659.83	12,517.00	67.26	66.64	95.96	-3,064.37	-1,457.10	924.09	831.42	92.68	9.971			
15,500.00	12,399.00	15,759.83	12,517.00	68.51	67.79	95.96	-3,164.36	-1,456.12	924.10	829.70	94.40	9.789			
15,600.00	12,399.00	15,859.83	12,517.00	69.77	68.96	95.96	-3,264.36	-1,455.13	924.11	827.96	96.15	9.611			
15,700.00	12,399.00	15,959.83	12,517.00	71.06	70.15	95.96	-3,364.35	-1,454.15	924.12	826.20	97.92	9.438			
15,800.00	12,399.00	16,059.83	12,517.00	72.35	71.36	95.96	-3,464.35	-1,453.16	924.13	824.42	99.71	9.268			
15,900.00	12,399.00	16,159.83	12,517.00	73.67	72.59	95.96	-3,564.34	-1,452.18	924.14	822.61	101.53	9.102			
16,000.00	12,399.00	16,259.83	12,517.00	74.99	73.84	95.96	-3,664.34	-1,451.20	924.15	820.79	103.37	8.941			
16,100.00	12,399.00	16,359.83	12,517.00	76.33	75.09	95.96	-3,764.33	-1,450.21	924.16	818.94	105.22	8.783			
16,200.00	12,399.00	16,459.83	12,517.00	77.68	76.37	95.96	-3,864.33	-1,449.23	924.17	817.08	107.10	8.629			
16,300.00	12,399.00	16,559.83	12,517.00	79.04	77.66	95.96	-3,964.32	-1,448.24	924.19	815.20	108.99	8.480			
16,400.00	12,399.00	16,659.83	12,517.00	80.41	78.96	95.96	-4,064.32	-1,447.26	924.20	813.30	110.90	8.334			
16,500.00	12,399.00	16,759.83	12,517.00	81.80	80.28	95.96	-4,164.31	-1,446.28	924.21	811.39	112.82	8.192			
16,600.00	12,399.00	16,859.83	12,517.00	83.19	81.60	95.96	-4,264.31	-1,445.29	924.22	809.46	114.76	8.054			
16,700.00	12,399.00	16,959.83	12,517.00	84.59	82.94	95.96	-4,364.30	-1,444.31	924.23	807.52	116.71	7.919			
16,800.00	12,399.00	17,059.83	12,517.00	86.00	84.29	95.96	-4,464.30	-1,443.32	924.24	805.56	118.68	7.788			
16,900.00	12,399.00	17,159.83	12,517.00	87.42	85.65	95.96	-4,564.29	-1,442.34	924.25	803.59	120.65	7.660			
17,000.00	12,399.00	17,259.83	12,517.00	88.85	87.02	95.96	-4,664.29	-1,441.36	924.26	801.61	122.65	7.536			
17,100.00	12,399.00	17,359.83	12,517.00	90.28	88.40	95.96	-4,764.28	-1,440.37	924.27	799.62	124.65	7.415			
17,200.00	12,399.00	17,459.83	12,517.00	91.72	89.79	95.96	-4,864.28	-1,439.39	924.28	797.62	126.66	7.297			
17,300.00	12,399.00	17,559.83	12,517.00	93.17	91.19	95.96	-4,964.27	-1,438.40	924.29	795.61	128.68	7.183			
17,400.00	12,399.00	17,659.83	12,517.00	94.63	92.60	95.96	-5,064.27	-1,437.42	924.30	793.58	130.72	7.071			
17,500.00	12,399.00	17,759.83	12,517.00	96.09	94.01	95.96	-5,164.26	-1,436.44	924.31	791.55	132.76	6.962			
17,600.00	12,399.00	17,859.83	12,517.00	97.56	95.43	95.96	-5,264.26	-1,435.45	924.32	789.51	134.81	6.856			
17,700.00	12,399.00	17,959.83	12,517.00	99.03	96.86	95.96	-5,364.25	-1,434.47	924.33	787.46	136.87	6.753			
17,800.00	12,399.00	18,059.83	12,517.00	100.51	98.30	95.96	-5,464.25	-1,433.49	924.34	785.40	138.94	6.653			
17,900.00	12,399.00	18,159.83	12,517.00	102.00	99.74	95.96	-5,564.24	-1,432.50	924.35	783.33	141.02	6.555			
18,000.00	12,399.00	18,259.83	12,517.00	103.48	101.19	95.96	-5,664.24	-1,431.52	924.36	781.26	143.10	6.459			
18,100.00	12,399.00	18,359.83	12,517.00	104.98	102.65	95.96	-5,764.23	-1,430.53	924.37	779.18	145.20	6.366			
18,200.00	12,399.00	18,459.83	12,517.00	106.48	104.11	95.96	-5,864.23	-1,429.55	924.38	777.09	147.29	6.276			
18,300.00	12,399.00	18,559.83	12,517.00	107.98	105.58	95.96	-5,964.22	-1,428.57	924.39	775.00	149.40	6.187			
18,400.00	12,399.00	18,659.83	12,517.00	109.49	107.05	95.96	-6,064.22	-1,427.58	924.41	772.90	151.51	6.101			
18,500.00	12,399.00	18,759.83	12,517.00	111.00	108.53	95.96	-6,164.22	-1,426.60	924.42	770.79	153.63	6.017			
18,600.00	12,399.00	18,859.83	12,517.00	112.52	110.01	95.96	-6,264.21	-1,425.61	924.43	768.68	155.75	5.935			
18,700.00	12,399.00	18,959.83	12,517.00	114.04	111.49	95.96	-6,364.21	-1,424.63	924.44	766.56	157.88	5.855			
18,800.00	12,399.00	19,059.83	12,517.00	115.56	112.99	95.96	-6,464.20	-1,423.65	924.45	764.43	160.01	5.777			
18,900.00	12,399.00	19,159.83	12,517.00	117.09	114.48	95.96	-6,564.20	-1,422.66	924.46	762.30	162.15	5.701			
19,000.00	12,399.00	19,259.83	12,517.00	118.62	115.98	95.96	-6,664.19	-1,421.68	924.47	760.17	164.30	5.627			

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 804H
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 804H	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			
19,100.00	12,399.00	19,359.83	12,517.00	120.15	117.49	95.96	-6,764.19	-1,420.69	924.48	758.03	166.45	5.554			
19,200.00	12,399.00	19,459.83	12,517.00	121.69	118.99	95.96	-6,864.18	-1,419.71	924.49	755.89	168.60	5.483			
19,300.00	12,399.00	19,559.83	12,517.00	123.22	120.51	95.96	-6,964.18	-1,418.73	924.50	753.74	170.76	5.414			
19,400.00	12,399.00	19,659.83	12,517.00	124.77	122.02	95.96	-7,064.17	-1,417.74	924.51	751.59	172.92	5.346			
19,500.00	12,399.00	19,759.83	12,517.00	126.31	123.54	95.96	-7,164.17	-1,416.76	924.52	749.43	175.09	5.280			
19,600.00	12,399.00	19,859.83	12,517.00	127.86	125.06	95.96	-7,264.16	-1,415.77	924.53	747.27	177.26	5.216			
19,700.00	12,399.00	19,959.83	12,517.00	129.41	126.59	95.96	-7,364.16	-1,414.79	924.54	745.11	179.43	5.153			
19,800.00	12,399.00	20,059.83	12,517.00	130.96	128.12	95.96	-7,464.15	-1,413.81	924.55	742.94	181.61	5.091			
19,900.00	12,399.00	20,159.83	12,517.00	132.52	129.65	95.96	-7,564.15	-1,412.82	924.56	740.77	183.79	5.030			
20,000.00	12,399.00	20,259.83	12,517.00	134.07	131.18	95.96	-7,664.14	-1,411.84	924.57	738.60	185.98	4.971			
20,100.00	12,399.00	20,359.83	12,517.00	135.63	132.72	95.96	-7,764.14	-1,410.85	924.58	736.42	188.16	4.914			
20,200.00	12,399.00	20,459.83	12,517.00	137.20	134.26	95.96	-7,864.13	-1,409.87	924.59	734.24	190.36	4.857			
20,300.00	12,399.00	20,559.83	12,517.00	138.76	135.80	95.96	-7,964.13	-1,408.89	924.60	732.05	192.55	4.802			
20,400.00	12,399.00	20,659.83	12,517.00	140.32	137.35	95.96	-8,064.12	-1,407.90	924.61	729.87	194.75	4.748			
20,500.00	12,399.00	20,759.83	12,517.00	141.89	138.90	95.96	-8,164.12	-1,406.92	924.63	727.68	196.95	4.695			
20,600.00	12,399.00	20,859.83	12,517.00	143.46	140.45	95.96	-8,264.11	-1,405.93	924.64	725.49	199.15	4.643			
20,700.00	12,399.00	20,959.83	12,517.00	145.03	142.00	95.96	-8,364.11	-1,404.95	924.65	723.29	201.35	4.592			
20,800.00	12,399.00	21,059.83	12,517.00	146.61	143.55	95.96	-8,464.10	-1,403.97	924.66	721.10	203.56	4.542			
20,900.00	12,399.00	21,159.83	12,517.00	148.18	145.11	95.96	-8,564.10	-1,402.98	924.67	718.90	205.77	4.494			
21,000.00	12,399.00	21,259.83	12,517.00	149.76	146.67	95.96	-8,664.09	-1,402.00	924.68	716.69	207.98	4.446			
21,100.00	12,399.00	21,359.83	12,517.00	151.34	148.23	95.96	-8,764.09	-1,401.02	924.69	714.49	210.20	4.399			
21,200.00	12,399.00	21,459.83	12,517.00	152.92	149.79	95.96	-8,864.08	-1,400.03	924.70	712.28	212.42	4.353			
21,300.00	12,399.00	21,559.83	12,517.00	154.50	151.35	95.96	-8,964.08	-1,399.05	924.71	710.07	214.64	4.308			
21,400.00	12,399.00	21,659.83	12,517.00	156.08	152.92	95.96	-9,064.07	-1,398.06	924.72	707.86	216.86	4.264			
21,500.00	12,399.00	21,759.83	12,517.00	157.66	154.49	95.96	-9,164.07	-1,397.08	924.73	705.65	219.08	4.221			
21,600.00	12,399.00	21,859.83	12,517.00	159.25	156.06	95.96	-9,264.07	-1,396.10	924.74	703.44	221.31	4.179			
21,700.00	12,399.00	21,959.83	12,517.00	160.84	157.63	95.96	-9,364.06	-1,395.11	924.75	701.22	223.53	4.137			
21,800.00	12,399.00	22,059.83	12,517.00	162.42	159.20	95.96	-9,464.06	-1,394.13	924.76	699.00	225.76	4.096			
21,900.00	12,399.00	22,159.83	12,517.00	164.01	160.78	95.96	-9,564.05	-1,393.14	924.77	696.78	227.99	4.056			
22,000.00	12,399.00	22,259.83	12,517.00	165.60	162.35	95.96	-9,664.05	-1,392.16	924.78	694.56	230.23	4.017			
22,100.00	12,399.00	22,359.83	12,517.00	167.19	163.93	95.96	-9,764.04	-1,391.18	924.79	692.33	232.46	3.978			
22,200.00	12,399.00	22,459.83	12,517.00	168.79	165.51	95.96	-9,864.04	-1,390.19	924.80	690.11	234.70	3.940			
22,300.00	12,399.00	22,559.83	12,517.00	170.38	167.09	95.96	-9,964.03	-1,389.21	924.81	687.88	236.93	3.903			
22,400.00	12,399.00	22,659.83	12,517.00	171.98	168.67	95.96	-10,064.03	-1,388.22	924.82	685.65	239.17	3.867			
22,500.00	12,399.00	22,759.83	12,517.00	173.57	170.26	95.96	-10,164.02	-1,387.24	924.84	683.42	241.41	3.831			
22,600.00	12,399.00	22,859.83	12,517.00	175.17	171.84	95.96	-10,264.02	-1,386.26	924.85	681.19	243.65	3.796			
22,700.00	12,399.00	22,959.83	12,517.00	176.77	173.43	95.96	-10,364.01	-1,385.27	924.86	678.96	245.90	3.761			
22,800.00	12,399.00	23,059.83	12,517.00	178.37	175.01	95.96	-10,464.01	-1,384.29	924.87	676.72	248.14	3.727			
22,900.00	12,399.00	23,159.83	12,517.00	179.97	176.60	95.96	-10,564.00	-1,383.30	924.88	674.49	250.39	3.694			
23,000.00	12,399.00	23,259.83	12,517.00	181.57	178.19	95.96	-10,664.00	-1,382.32	924.89	672.25	252.64	3.661			
23,100.00	12,399.00	23,359.83	12,517.00	183.17	179.78	95.96	-10,763.99	-1,381.34	924.90	670.01	254.88	3.629			
23,200.00	12,399.00	23,459.83	12,517.00	184.77	181.37	95.96	-10,863.99	-1,380.35	924.91	667.77	257.13	3.597			
23,300.00	12,399.00	23,559.83	12,517.00	186.38	182.96	95.96	-10,963.98	-1,379.37	924.92	665.53	259.38	3.566			
23,400.00	12,399.00	23,659.83	12,517.00	187.98	184.56	95.96	-11,063.98	-1,378.38	924.93	663.29	261.64	3.535			
23,500.00	12,399.00	23,759.83	12,517.00	189.58	186.15	95.96	-11,163.97	-1,377.40	924.94	661.05	263.89	3.505			
23,600.00	12,399.00	23,859.83	12,517.00	191.19	187.75	95.96	-11,263.97	-1,376.42	924.95	658.81	266.14	3.475			
23,700.00	12,399.00	23,959.83	12,517.00	192.80	189.34	95.96	-11,363.96	-1,375.43	924.96	656.56	268.40	3.446			
23,800.00	12,399.00	24,059.83	12,517.00	194.41	190.94	95.96	-11,463.96	-1,374.45	924.97	654.31	270.66	3.418			
23,805.89	12,399.00	24,065.72	12,517.00	194.50	191.04	95.96	-11,469.85	-1,374.39	924.97	654.18	270.79	3.416			
23,874.38	12,399.00	24,130.17	12,517.00	195.60	192.05	95.96	-11,534.29	-1,373.76	924.99	652.79	272.20	3.398 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 804H
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 804H	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

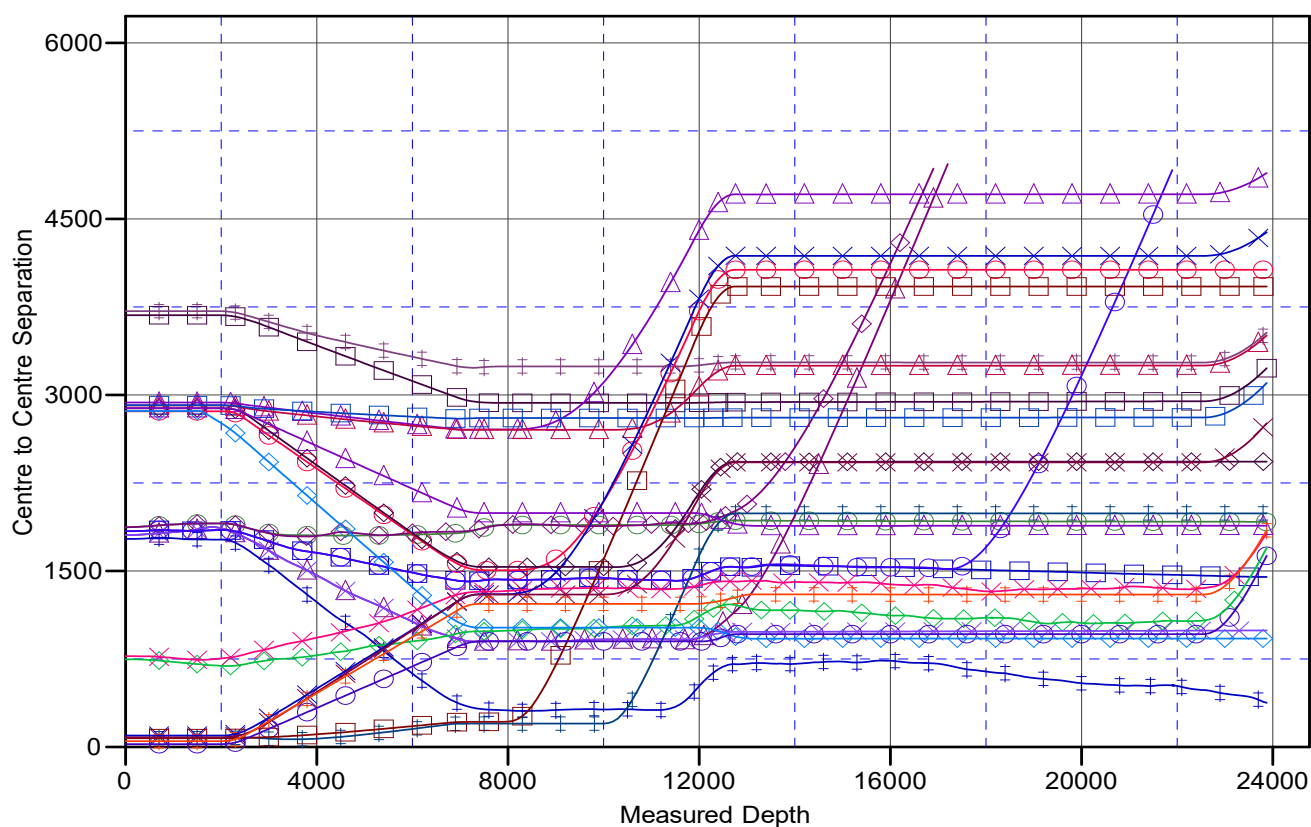
Central Meridian is -104.333334

Coordinates are relative to: Paul Foster Fed Com 804H

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

Grid Convergence at Surface is: 0.54°

Ladder Plot



LEGEND

Judge Baylor Fed Com 701H, OH, Plan #5 V0	Bus Driver Fed Com 602H, OH, OH V0	PF Fed Com 803H, 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 104H, OH, Plan #1 V0
Bus Driver Fed Com 702H, OH, Plan #5 V0	LHS Wildcat Fed Com 705H, OH, OH V0	Paul Foster Fed Com 103H, OH, Plan #1 V0
Bus Driver Fed Com 702H, OH, OH V0	PF Fed Com 101H, OH, Plan #1 V0	PF Fed Com 502H, OH, Plan #1 V0
Kastoni Fed Com 703H, OH, OH V0	PF Fed Com 501H, OH, Plan #1 V0	PF Fed Com 802H, OH, Plan #1 V0
Kastoni Fed Com 703H, OH, Plan #9 V0	Paul Foster Fed Com 503H, OH, Plan #1 V0	Paul Foster Fed Com 504H, OH, Plan #1 V0
Kastoni Fed Com 603H, OH, OH V0	PF Fed Com 801H, OH, Plan #1 V0	Paul Foster Fed Com 805H, OH, Plan #1 V0
Bus Driver Fed Com 602H, OH, Plan #6 V0	PF Fed Com 102H, OH, Plan #1 V0	Paul Foster Fed Com 806H, OH, Plan #1 V0

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



Total Directional Services

Anticollision Report

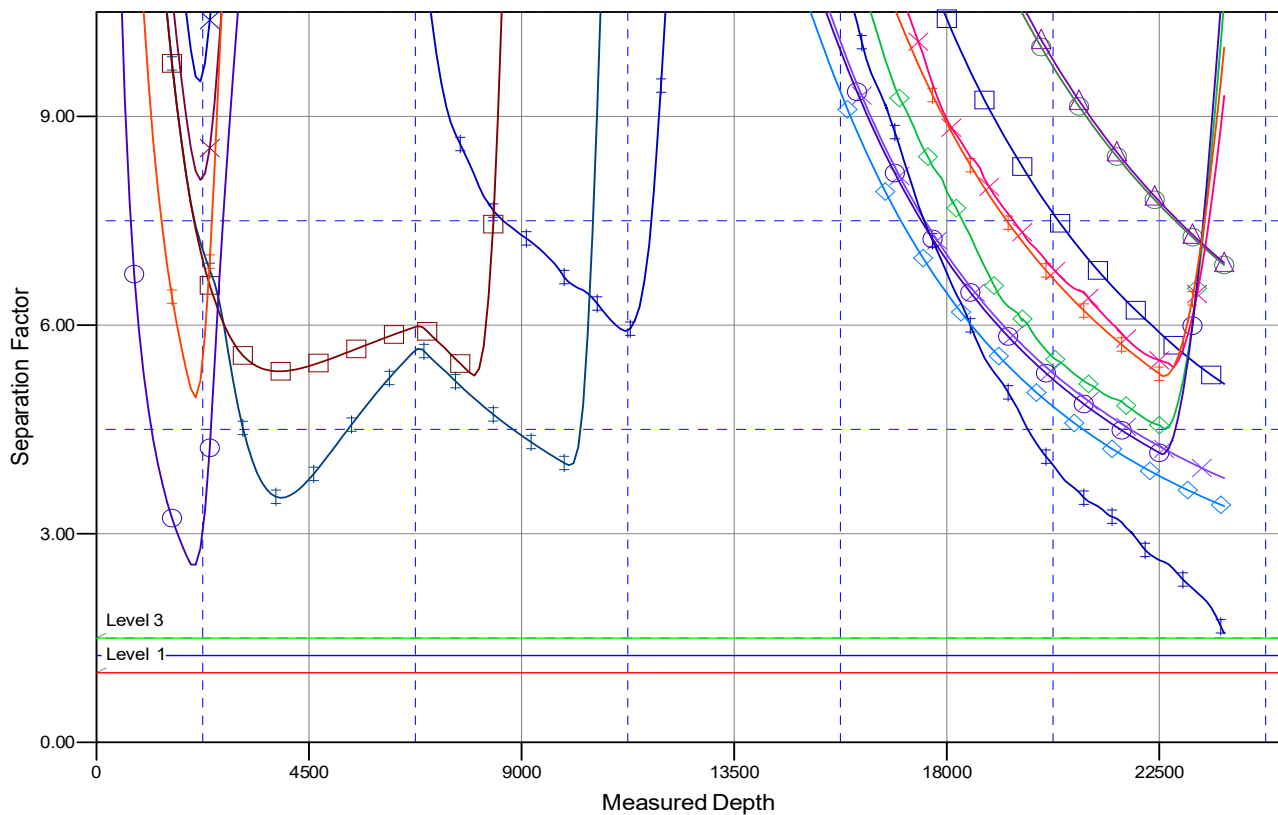


Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Paul Foster Fed Com 804H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031' GE + 30' KB @ 3061.00usft
Reference Site:	PF Fed Com	MD Reference:	3031' GE + 30' KB @ 3061.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Paul Foster Fed Com 804H	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 804H
 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 803H, 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 104H, OH, Plan #1 V0
Bus Driver Fed Com 702H, OH, Plan #5 V0	LHS Wildcat Fed Com 705H, OH, OH V0	Paul Foster Fed Com 103H, OH, Plan #1 V0
Bus Driver Fed Com 702H, OH, OH V0	PF Fed Com 101H, OH, Plan #1 V0	PF Fed Com 502H, OH, Plan #1 V0
Kastori Fed Com 703H, OH, OH V0	PF Fed Com 501H, OH, Plan #1 V0	PF Fed Com 802H, OH, Plan #1 V0
Kastori Fed Com 703H, OH, Plan #9 V0	Paul Foster Fed Com 503H, OH, Plan #1 V0	Paul Foster Fed Com 504H, OH, Plan #1 V0
Kastori Fed Com 603H, OH, OH V0	PF Fed Com 801H, OH, Plan #1 V0	Paul Foster Fed Com 805H, OH, Plan #1 V0
Bus Driver Fed Com 602H, OH, Plan #6 V0	PF Fed Com 102H, OH, Plan #1 V0	Paul Foster Fed Com 806H, 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

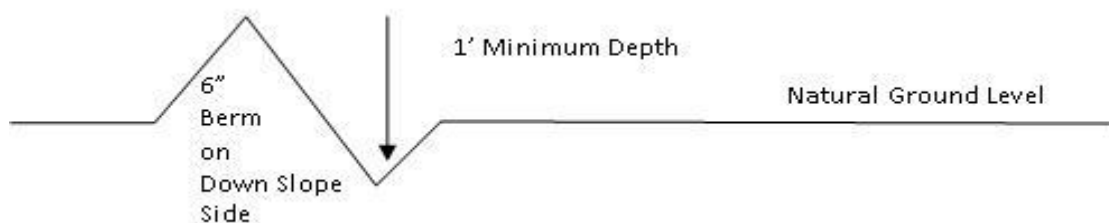
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, 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

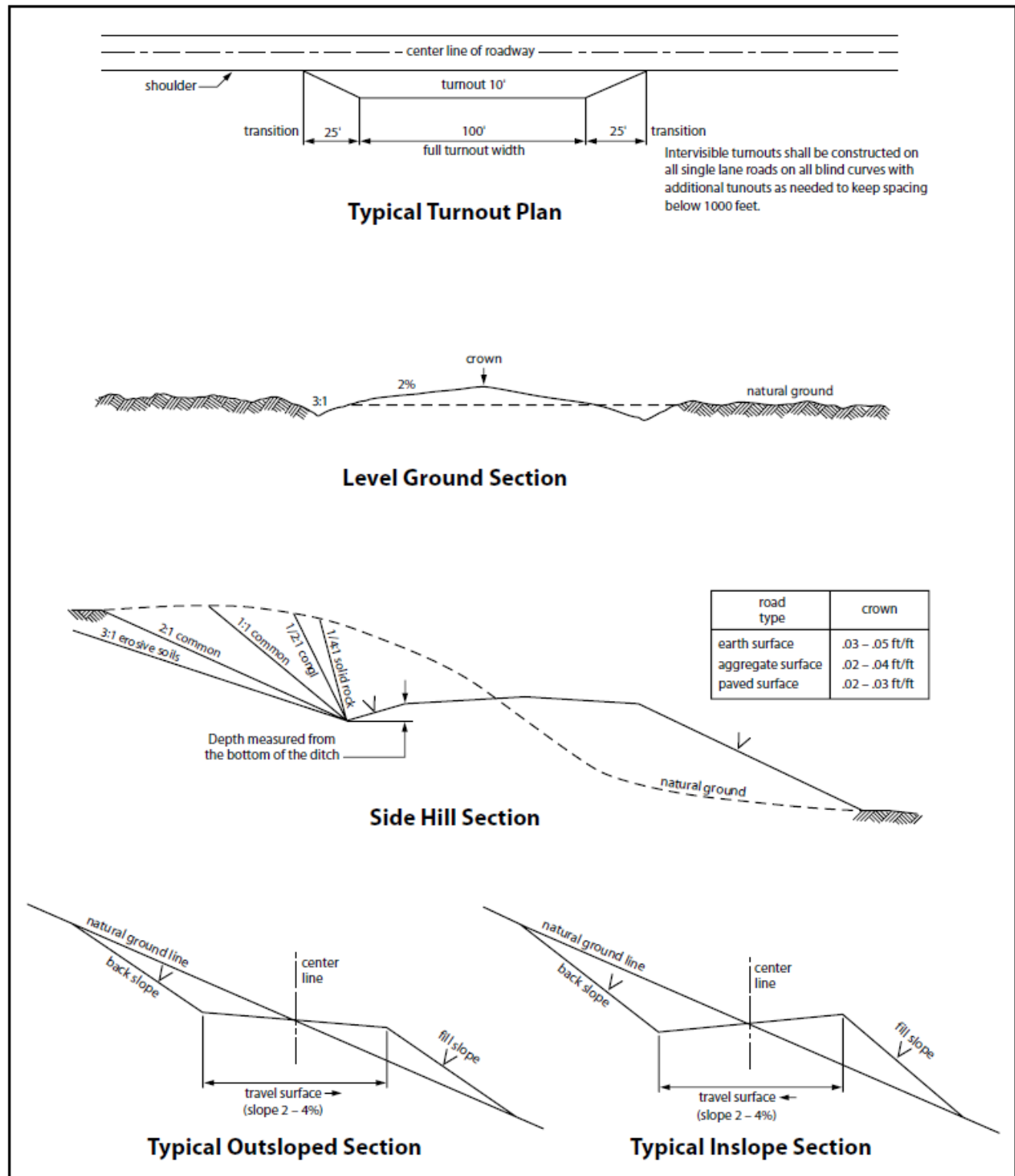


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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 88438

CONDITIONS

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 88438
	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