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

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

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

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. **30-025-49852**

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

KZ
03/14/2022

SL

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 03/07/2022

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 wen, 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 directionany 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 wen 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 win 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 conects this information to anow 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 Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Approval Date: 03/07/2022

Additional Operator Remarks

Location of Well

0. SHL: TR D / 650 FNL / 1293 FWL / TWSP: 26S / RANGE: 35E / SECTION: 1 / LAT: 32.077787 / LONG: -103.325603 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 0 FNL / 901 FWL / TWSP: 26S / RANGE: 35E / SECTION: 12 / LAT: 32.065045 / LONG: -103.326869 (TVD: 10619 feet, MD: 15700 feet)

PPP: TR D / 623 FNL / 899 FWL / TWSP: 26S / RANGE: 35E / SECTION: 1 / LAT: 32.077861 / LONG: -103.326876 (TVD: 10619 feet, MD: 10998 feet)

BHL: TR M / 150 FSL / 900 FWL / TWSP: 26S / RANGE: 35E / SECTION: 12 / LAT: 32.05094 / LONG: -103.326862 (TVD: 10619 feet, MD: 20792 feet)

BLM Point of Contact

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

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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-49852	97088	WC-025 G-08 S253534O;BONE SPRING

[4] Property Code	[5] Property Name	[6] Well Number
332687	PF FED COM	501H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373910	FRANKLIN MOUNTAIN ENERGY LLC	3053.8'

[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
D	1	26S	35E		650	NORTH	1293	WEST	LEA

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	12	26S	35E		150	SOUTH	900	WEST	LEA

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

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

[16] ● = SURFACE HOLE LOCATION
◇ = KOP/PPP/FTP
○ = LTP/BHL
▲ = SECTION CORNER LOCATED

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°04'40.03" (32.077787°)
LONGITUDE = 103°19'32.17" (103.325603°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°04'39.58" (32.077660°)
LONGITUDE = 103°19'30.51" (103.325142°)
STATE PLANE NAD 83 (N.M. EAST)
N: 393493.99' E: 853465.06'
STATE PLANE NAD 27 (N.M. EAST)
N: 393436.07' E: 812277.36'

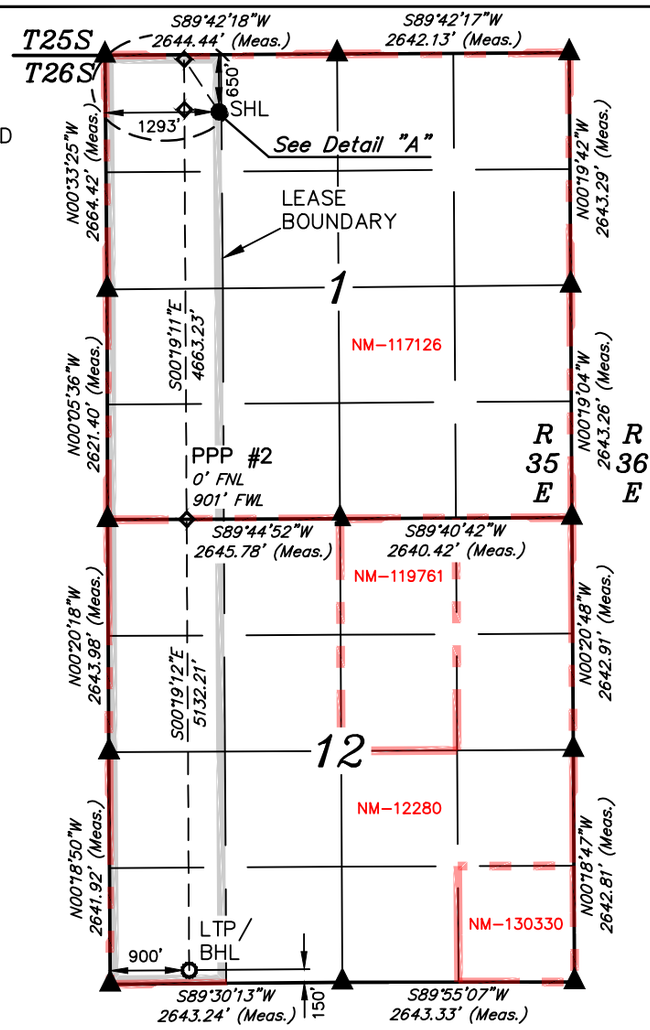
NAD 83 (KOP)
LATITUDE = 32°04'45.97" (32.079435°)
LONGITUDE = 103°19'36.75" (103.326876°)
NAD 27 (KOP)
LATITUDE = 32°04'45.51" (32.079308°)
LONGITUDE = 103°19'35.10" (103.326415°)
STATE PLANE NAD 83 (N.M. EAST)
N: 394089.95' E: 853064.93'
STATE PLANE NAD 27 (N.M. EAST)
N: 394032.02' E: 811877.26'

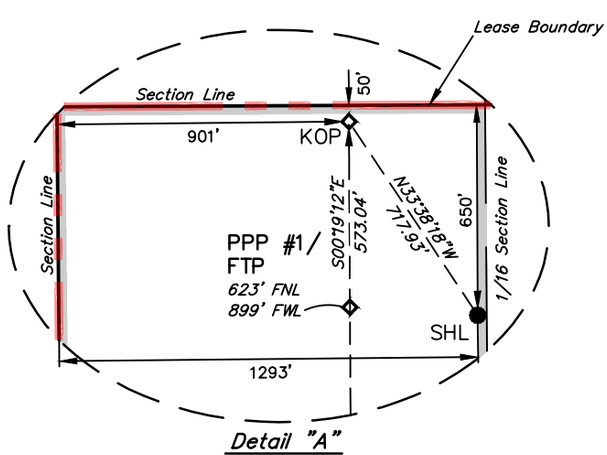
NAD 83 (PPP #1/FTP)
LATITUDE = 32°04'40.30" (32.077861°)
LONGITUDE = 103°19'36.75" (103.326876°)
NAD 27 (PPP #1/FTP)
LATITUDE = 32°04'39.84" (32.077734°)
LONGITUDE = 103°19'35.09" (103.326415°)
STATE PLANE NAD 83 (N.M. EAST)
N: 393517.02' E: 853070.52'
STATE PLANE NAD 27 (N.M. EAST)
N: 393459.11' E: 811882.83'

NAD 83 (PPP #2)
LATITUDE = 32°03'54.16" (32.065045°)
LONGITUDE = 103°19'36.73" (103.326869°)
NAD 27 (PPP #2)
LATITUDE = 32°03'53.70" (32.064918°)
LONGITUDE = 103°19'35.07" (103.326409°)
STATE PLANE NAD 83 (N.M. EAST)
N: 388854.69' E: 853115.99'
STATE PLANE NAD 27 (N.M. EAST)
N: 388796.91' E: 811928.12'

NAD 83 (LTP/BHL)
LATITUDE = 32°03'03.38" (32.050940°)
LONGITUDE = 103°19'36.70" (103.326862°)
NAD 27 (LTP/BHL)
LATITUDE = 32°03'02.93" (32.050813°)
LONGITUDE = 103°19'35.05" (103.326403°)
STATE PLANE NAD 83 (N.M. EAST)
N: 383723.47' E: 853166.05'
STATE PLANE NAD 27 (N.M. EAST)
N: 383665.83' E: 811977.97'

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)





2000' 1000' 0' 2000'
SCALE

DRAWN BY: R.J. 05-06-21
REV: 1 07-28-21 R.J. (ADD KOP & PPP)

[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.

8/3/2021
Signature Date

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:

PAUL BUCHELE
NEW MEXICO
23782
07-28-21
PROFESSIONAL SURVEYOR

Certificate Number:

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: ___Franklin Mountain Energy, LLC_____ **OGRID:** ____373910_____ **Date:** __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: ___Tatanka North CTB: (f#) TBD_____ [See 19.15.27.9(D)(1) NMAC]

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

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

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

Section 4 - Notices

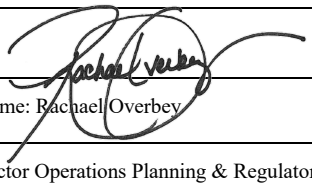
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

Signature: 
Printed Name: Rachael Overbey
Title: Director Operations Planning & Regulatory
E-mail Address: roverbey@fmellc.com
Date: 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
Tatanka Fed Com 101H	TBD	C-2-26S-35E	20 FNL 1347 FWL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 102H	TBD	C-2-26S-35E	20 FNL 1372 FWL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 103H	TBD	B-2-26S-35E	20 FNL 1875 FEL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 104H	TBD	B-2-26S-35E	20 FNL 1850 FEL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 501H	TBD	C-2-26S-35E	20 FNL 1397 FWL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 502H	TBD	C-2-26S-35E	20 FNL 1422 FWL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 503H	TBD	B-2-26S-35E	20 FNL 1925 FEL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 504H	TBD	B-2-26S-35E	20 FNL 1900 FEL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 601H	TBD	D-2-26S-35E	10 FNL 545 FWL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 602H	TBD	N-35-25S-35E	998 FSL 1807 FWL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 603H	TBD	N-35-25S-35E	998 FSL 1907 FWL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 604H	TBD	A-2-26S-35E	20 FNL 885 FEL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 701H	TBD	D-2-26S-35E	10 FNL 620 FWL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 702H	TBD	N-35-25S-35E	998 FSL 1782 FWL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 703H	TBD	N-35-25S-35E	998 FSL 1857 FWL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 704H	TBD	A-2-26S-35E	20 FNL 935 FEL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 705H	TBD	A-2-26S-35E	20 FNL 860 FEL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 801H	TBD	D-2-26S-35E	10 FNL 570 FWL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 802H	TBD	D-2-26S-35E	10 FNL 595 FWL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 803H	TBD	N-35-25S-35E	998 FSL 1832 FWL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 804H	TBD	N-35-25S-35E	998 FSL 1882 FWL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 805H	TBD	A-2-26S-35E	20 FNL 910 FEL	800 +/-	700 +/-	600 +/-
Tatanka Fed Com 806H	TBD	A-2-26S-35E	20 FNL 835 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
Tatanka Fed Com 101H	TBD	TBD	TBD	TBD	TBD	TBD
Tatanka Fed Com 102H	TBD	TBD	TBD	TBD	TBD	TBD
Tatanka Fed Com 103H	TBD	TBD	TBD	TBD	TBD	TBD
Tatanka Fed Com 104H	TBD	TBD	TBD	TBD	TBD	TBD
Tatanka Fed Com 501H	TBD	TBD	TBD	TBD	TBD	TBD
Tatanka Fed Com 502H	TBD	TBD	TBD	TBD	TBD	TBD
Tatanka Fed Com 503H	TBD	TBD	TBD	TBD	TBD	TBD
Tatanka Fed Com 504H	TBD	TBD	TBD	TBD	TBD	TBD
Tatanka Fed Com 601H	TBD	7/15/2022	12/15/2022	2/28/2023	3/28/2023	4/2/2023
Tatanka Fed Com 602H	TBD	6/15/2022	12/15/2022	1/30/2023	3/10/2023	3/13/2023
Tatanka Fed Com 603H	TBD	6/15/2022	12/15/2022	1/30/2023	3/10/2023	3/13/2023
Tatanka Fed Com 604H	TBD	7/1/2022	12/15/2022	1/30/2023	3/1/2023	3/4/2023
Tatanka Fed Com 701H	TBD	7/15/2022	12/15/2022	2/28/2023	3/28/2023	4/2/2023
Tatanka Fed Com 702H	TBD	6/15/2022	12/15/2022	1/30/2023	3/10/2023	3/13/2023
Tatanka Fed Com 703H	TBD	6/15/2022	12/15/2022	1/30/2023	3/10/2023	3/13/2023
Tatanka Fed Com 704H	TBD	7/1/2022	12/15/2022	1/30/2023	3/1/2023	3/4/2023
Tatanka Fed Com 705H	TBD	7/1/2022	12/15/2022	1/30/2023	3/1/2023	3/4/2023
Tatanka Fed Com 801H	TBD	7/15/2022	12/15/2022	2/28/2023	3/28/2023	4/2/2023
Tatanka Fed Com 802H	TBD	7/15/2022	12/15/2022	2/28/2023	3/28/2023	4/2/2023
Tatanka Fed Com 803H	TBD	6/15/2022	12/15/2022	1/30/2023	3/10/2023	3/13/2023
Tatanka Fed Com 804H	TBD	6/15/2022	12/15/2022	1/30/2023	3/10/2023	3/13/2023
Tatanka Fed Com 805H	TBD	7/1/2022	12/15/2022	1/30/2023	3/1/2023	3/4/2023
Tatanka Fed Com 806H	TBD	7/1/2022	12/15/2022	1/30/2023	3/1/2023	3/4/2023

FRANKLIN MOUNTAIN ENERGY

Natural Gas Management Plan

Items VI-VIII

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

- Data from surrounding wells is used to generate type curves which provides the basis for expected gas rates during initial production, peak production and then the natural decline.
- Separation equipment will be sized to provide adequate separation for peak production.
- Facility design includes multiple stages of separation to minimize gas waste. Wells flow through a 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.

FRANKLIN MOUNTAIN ENERGY

PF Fed Com 103H

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	2,311'	750'			Carbonates
Salado	1,813'	1,248'			Salt, Carbonate & Clastics
Base Salt	-453'	3,514'			Shaley Carbonate & Shale
Lamar	-1,896'	4,957'			Carbonate & Clastics
Bell Canyon	-1,998'	5,059'			Sandstone - oil/gas/water
Cherry Canyon	-2,846'	5,907'			Sandstone - oil/gas/water
Brushy Canyon	-4,300'	7,361'			Sand/carb/shales - oil/gas/water
Cutoff	-5,287'	8,348'			Sand/carb/shales - oil/gas/water
HZ Target at Landing	-5,419'	8,480'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,501'	8,562'			Shale/Carbonates - oil/gas
Avalon	-5,528'	8,589'			Shale/Carbonates - oil/gas

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

Upper Permian Sands	0- 400’	Fresh Water
Delaware Sands	5,059’	Oil
Leonard	8,348’	Oil
Avalon	8,589’	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
						BTC					
Surface 13 3/8"	54.5	J-55	2730	1130	853	909	1300	1.18	1.67	4.99	5.32
						BTC					
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	1042	5000	1.81	1.81	3.05	3.47
						Stinger					
Intermediate 7 5/8"	29.7	HCP-110	8280	7150	827	564	8866	1.50	1.72	2.28	1.55
						Eagle					
Long string 5 1/2"	23	P-110	14520	14520	729	606	19899	1.32	1.56	1.31	1.09
						TVD	8480				2.05

7 5/8”casing will be set at 8,866’MD/8,480’ TVD at 90°Inc. Stress calculations on 5 ½” casing performed assuming 18,899’ depth. Actual max vertical depth is 8,480’.

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	Casing Setting Depth	Sacks	Lead Type of cmt	Lead Yield ft3/sk	Lead Water gal/sk	Lead TOC ft	Tail Sacks	Tail Type of cmt	Tail Yield ft3/sk	Tail Water gal/sk	Tail TOC	Excess
Surf	17.5	13.375	1300	795	Extenda Cem, 12.8 ppg Class C, 3lb/sk Kol-Seal 0.125pps Poly-E-Flake	1.747	9.06	0	334	Tail, 14.8 ppg, Class C, 1% CaCl2, 0.125pps Celo-Flake	1.349	6.51	1000	100%
Int1	12.25	9.625	5000	1453	Lead, 12.8 ppg, Class C 5% Salt, 0.125 pps Poly-E-Flake, 3lb/sk Kol-Seal	1.79	9.74	0	154	Tail, 14.8 ppg, Class C, 0.1% HR 800 .125 pps Poly-E-Flake	1.33	6.37	4700	100%
Int2	8.75	7.625	8866	206	Lite Fill, 9.5 ppg, Class C 3lb/sk Bridgemaker Gel, 5% Salt, 5pps LCM, 0.25pps Cello-Flake	2.13	5.97	4000	94	NeoCem 14.8 ppg, Class C 0.25 pps Cello-Flake, 2% CalCl2	1.33	6.29	7866	50%
Prod	6.75	5.5	19899	898	Tail, 14.5 ppg, Gas Migration Control	1.34	6.22	7866						20%

5. Minimum Specifications for Pressure Control:

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated, and the ram-type will be equipped with blind rams on bottom and 4 ½" x 7" variable pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.
Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5,000/250 psig and the annular preventer to 5,000/250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

Before drilling out of the second intermediate casing, the ram-type BOP and accessory equipment will be tested to 10,000/250 psig and the annular preventer to 5,000/250 psig. The second intermediate casing will be tested to 2000 psi for 30 minutes prior to drillout.
Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

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

FRANKLIN MOUNTAIN ENERGY

6. Types and characteristics of the proposed mud system:

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

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,300'	Fresh - Gel	8.6-8.8	28-34	N/c
1,300' – 8,866'	Brine	8.8-10.2	28-34	N/c
8,866' – 19,899' Lateral	Oil Base	10.0-12.0	58-68	3 - 6

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

7. Auxiliary well control and monitoring equipment:

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

8. Logging, testing and coring program:

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

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

The estimated bottom-hole temperature at 8,480' TVD (deepest point of the well) is 160F with an estimated maximum bottom-hole pressure (BHP) at the same point of 5,291 psig (based on 12 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/Escape packs – 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity

3. Emergency Escape Packs – 4 packs shall be stored in the doghouse for emergency evacuation.

ii. Auxiliary Rescue Equipment
1. Stretcher
2. Two OSHA full body harnesses
3. 100 feet of 5/8 inches OSHA approved rope
4. 1-20# class ABC fire extinguisher

c. H2S Detection and Monitoring Equipment
i. A stationary detector with three sensors will be placed in the doghouse if equipped, set to visually alarm at 10 ppm and audible at 14 ppm. The detector will be calibrated a minimum of every 30 days or as needed. The sensors will be placed in the following places:
1. Rig Floor
2. Below Rig Floor / Near BOPs
3. End of flow line or where well bore fluid is being discharged (near shakers)
ii. If H2S is encountered, measured values and formations will be provided to the BLM.

d. Visual Warning Systems
i. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
ii. A colored condition flag will be on display, reflecting the current condition at the site at the time.
iii. Two windsocks will be placed in strategic locations, visible from all angles.

e. Mud Program
i. The Mud program will be designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

f. Metallurgy
i. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service at the anticipated operating pressures to prevent sour sulfide stress cracking.

g. Communication
i. Communication will be via cell phones and walkie talkies on location.

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.

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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 ½" casing due to the tight clearance with 6 3/4" hole and 5 ½" casing due to tight clearances.

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: PF Fed Com
Well: Paul Foster Fed Com 103H
Wellbore: OH
Design: Plan #1

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

Magnetic Field
Strength: 47427.3nT
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

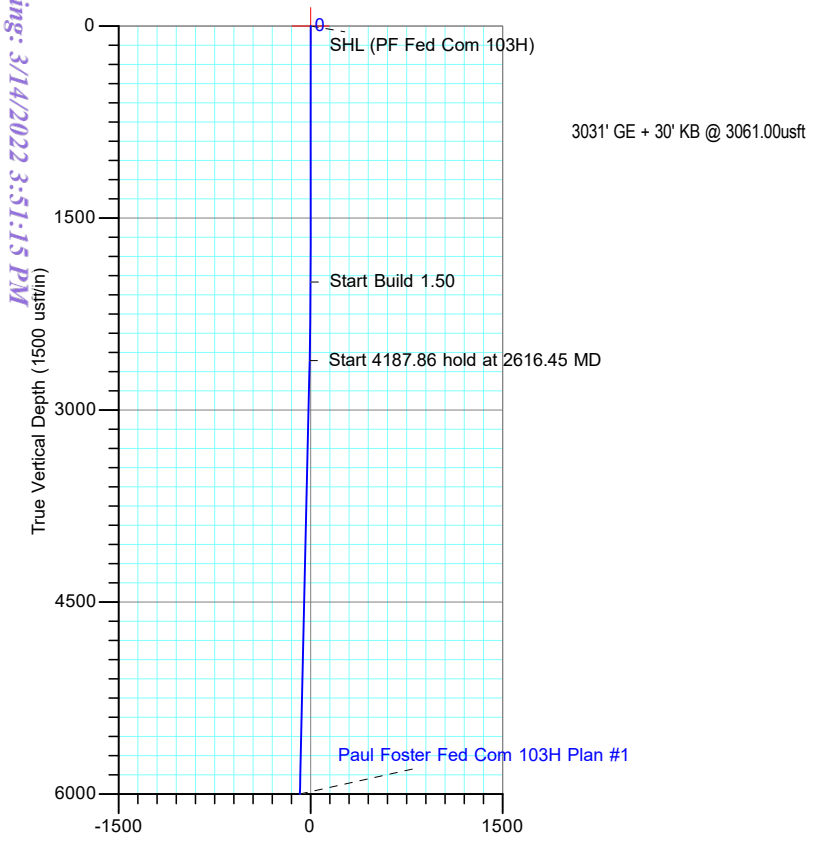
FRANKLIN MOUNTAIN ENERGY

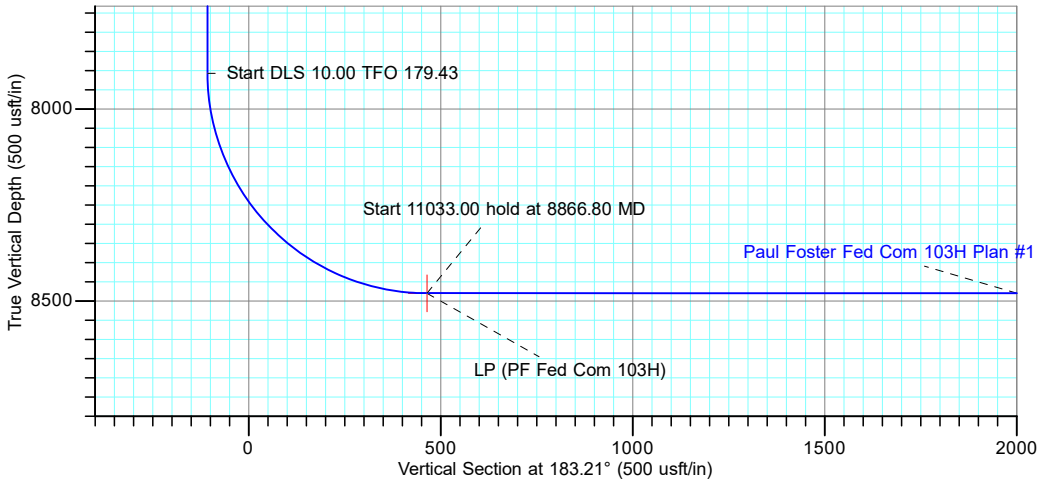
SECTION DETAILS

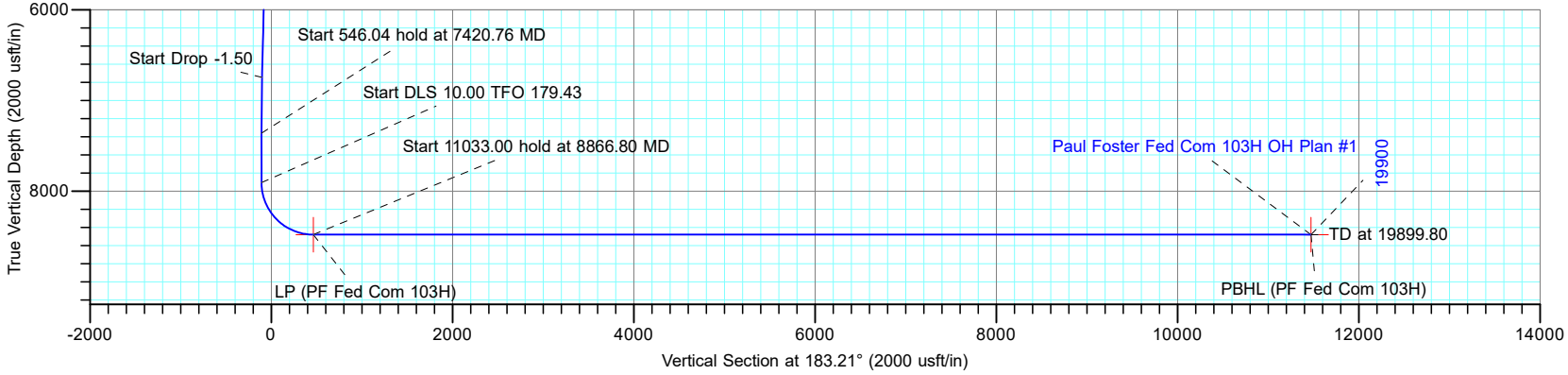
MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
2616.45	9.25	281.20	2613.78	9.64	-48.69	1.50	281.20	-6.90	Start 4187.86 hold at 2616.45 MD
6804.31	9.25	281.20	6747.22	140.36	-708.81	0.00	0.00	-100.46	Start Drop -1.50
7420.76	0.00	0.00	7361.00	150.00	-757.50	1.50	180.00	-107.36	Start 546.04 hold at 7420.76 MD
7966.80	0.00	0.00	7907.04	150.00	-757.50	0.00	0.00	-107.36	Start DLS 10.00 TFO 179.43
8866.80	90.00	179.43	8480.00	-422.93	-751.81	10.00	179.43	464.35	Start 11033.00 hold at 8866.80 MD
19899.80	90.00	179.43	8480.00	-11455.38	-642.26	0.00	0.00	11473.37	TD at 19899.80

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
LP (PF Fed Com 103H)	8480.00	-422.93	-751.81	32.077647	-103.318792
PBHL (PF Fed Com 103H)	8480.00	-11455.38	-642.26	32.047321	-103.318773
SHL (PF Fed Com 103H)	0.00	0.00	0.00	32.078790	-103.316352







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

Plan: Plan #1 (Paul Foster Fed Com 103H/OH)
PF Fed Com
Created By: Dustin Ault Date: 23:58, July 16 2021
Date: _____
Approved: _____ Date: _____

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: PF Fed Com
Well: Paul Foster Fed Com 103H
Wellbore: OH
Design: Plan #1

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

Magnetic Field
Strength: 47427.3nT
Dip Angle: 59.80°
Date: 7/16/2021
Model: IGRF2020

FRANKLIN MOUNTAIN ENERGY

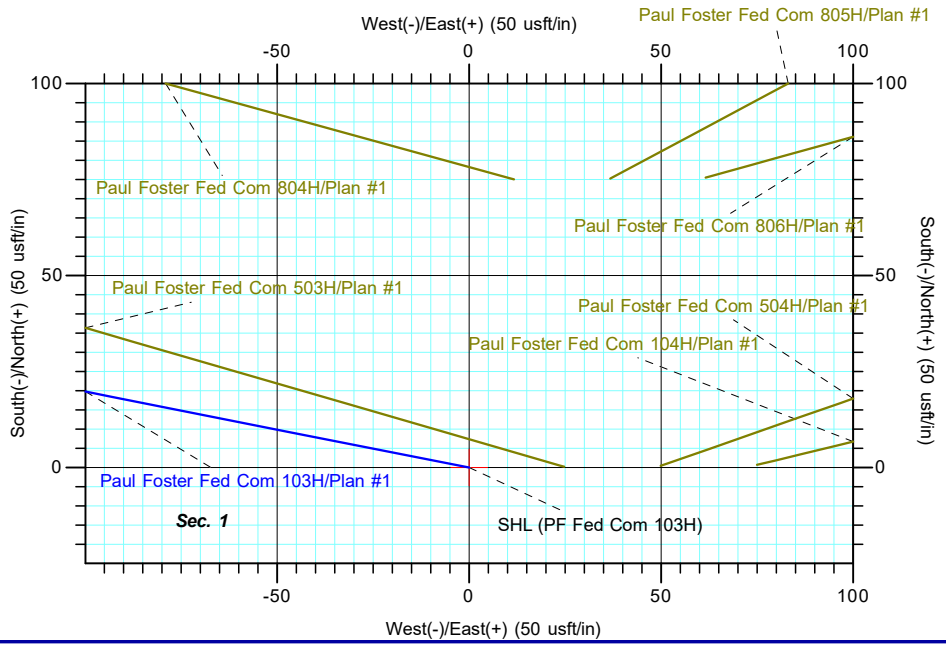
PROJECT DETAILS: Lea County, NM (NAD83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

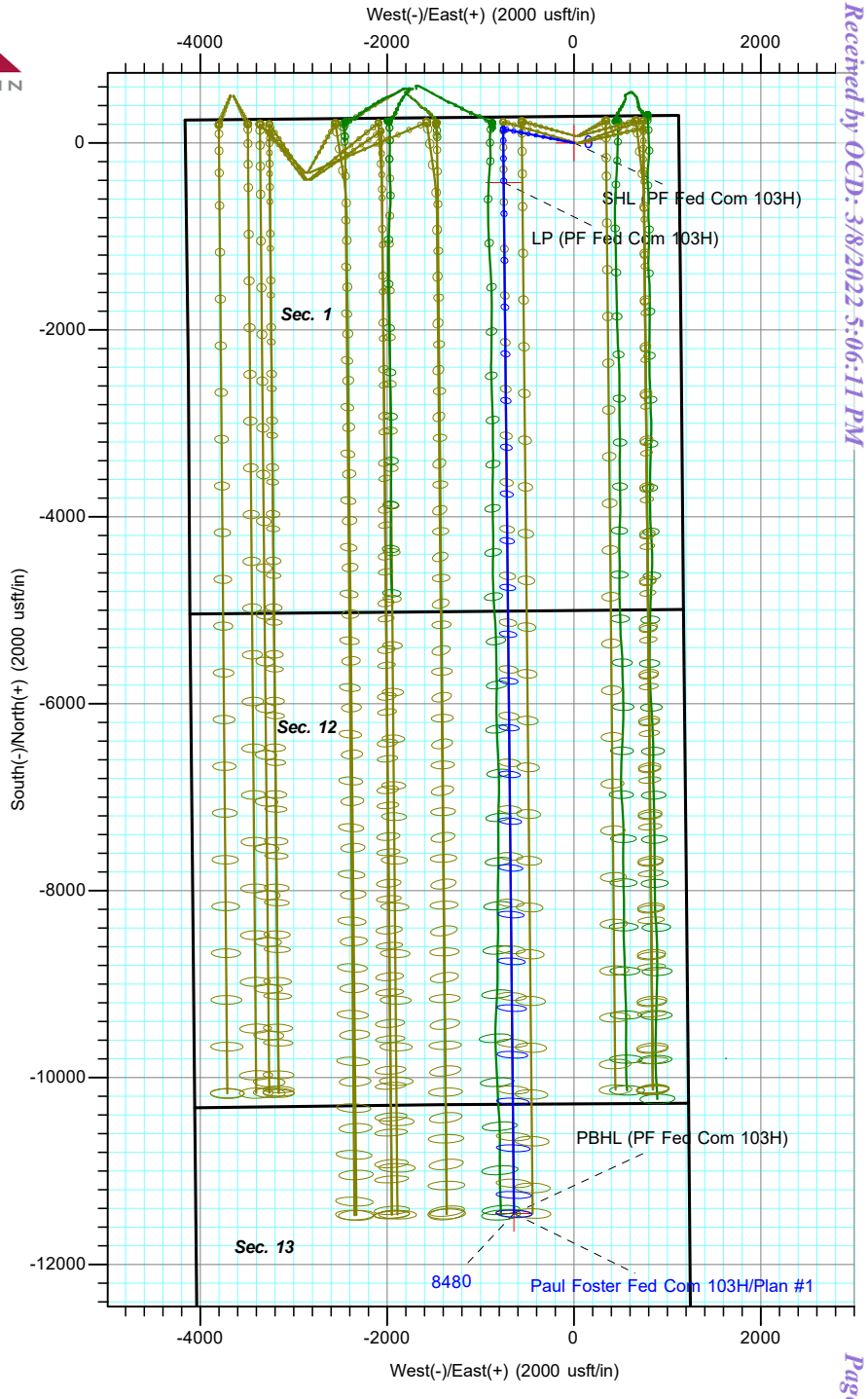
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP (PF Fed Com 103H)	8480.00	-422.93	-751.81	393462.80	855575.15	32.077647	-103.318792
PBHL (PF Fed Com 103H)	8480.00	-11455.38	-642.26	382430.35	855684.70	32.047321	-103.318773
SHL (PF Fed Com 103H)	0.00	0.00	0.00	393885.73	856326.96	32.078790	-103.316352

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
2616.45	9.25	281.20	2613.78	9.64	-48.69	1.50	281.20	-6.90	Start 4187.86 hold at 2616.45 MD
6804.31	9.25	281.20	6747.22	140.36	-708.81	0.00	0.00	-100.46	Start Drop -1.50
7420.76	0.00	0.00	7361.00	150.00	-757.50	1.50	180.00	-107.36	Start 546.04 hold at 7420.76 MD
7966.80	0.00	0.00	7907.04	150.00	-757.50	0.00	0.00	-107.36	Start DLS 10.00 TFO 179.43
8866.80	90.00	179.43	8480.00	-422.93	-751.81	10.00	179.43	464.35	Start 11033.00 hold at 8866.80 MD
19899.80	90.00	179.43	8480.00	-11455.38	-642.26	0.00	0.00	11473.37	TD at 19899.80





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

Plan: Plan #1 (Paul Foster Fed Com 103H/OH)
PF Fed Com
Created By: Dustin Ault Date: 0:00, July 17 2021
Date: _____
Approved: _____ Date: _____

Franklin Mountain Energy

Lea County, NM (NAD83)
PF Fed Com
Paul Foster Fed Com 103H

OH

Plan: Plan #1

Standard Planning Report

16 July, 2021

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Planning Report

total

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 103H

Well Position	**+N/-S**	392.01 usft	**Northing:**	393,885.73 usft	**Latitude:**	32.078790
	+E/-W	2,886.81 usft	**Easting:**	856,326.96 usft	**Longitude:**	-103.316352
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	47,427.27702433

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	183.21

Plan Survey Tool Program **Date** 7/16/2021

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	19,899.80	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	
2,616.45	9.25	281.20	2,613.78	9.64	-48.69	1.50	1.50	0.00	281.20	
6,804.31	9.25	281.20	6,747.22	140.36	-708.81	0.00	0.00	0.00	0.00	
7,420.77	0.00	0.00	7,361.00	150.00	-757.50	1.50	-1.50	0.00	180.00	
7,966.81	0.00	0.00	7,907.04	150.00	-757.50	0.00	0.00	0.00	0.00	
8,866.81	90.00	179.43	8,480.00	-422.93	-751.81	10.00	10.00	19.94	179.43	
19,899.80	90.00	179.43	8,480.00	-11,455.38	-642.26	0.00	0.00	0.00	0.00	PBHL (PF Fed Com 1

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Planning Report

total

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 103H)									
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	281.20	2,099.99	0.25	-1.28	-0.18	1.50	1.50	0.00
2,200.00	3.00	281.20	2,199.91	1.02	-5.14	-0.73	1.50	1.50	0.00
2,300.00	4.50	281.20	2,299.69	2.29	-11.55	-1.64	1.50	1.50	0.00
2,400.00	6.00	281.20	2,399.27	4.06	-20.53	-2.91	1.50	1.50	0.00
2,500.00	7.50	281.20	2,498.57	6.35	-32.06	-4.54	1.50	1.50	0.00
2,600.00	9.00	281.20	2,597.54	9.13	-46.13	-6.54	1.50	1.50	0.00
2,616.45	9.25	281.20	2,613.78	9.64	-48.69	-6.90	1.50	1.50	0.00
Start 4187.86 hold at 2616.45 MD									
2,700.00	9.25	281.20	2,696.24	12.25	-61.86	-8.77	0.00	0.00	0.00
2,800.00	9.25	281.20	2,794.94	15.37	-77.62	-11.00	0.00	0.00	0.00
2,900.00	9.25	281.20	2,893.64	18.49	-93.39	-13.24	0.00	0.00	0.00
3,000.00	9.25	281.20	2,992.34	21.61	-109.15	-15.47	0.00	0.00	0.00
3,100.00	9.25	281.20	3,091.04	24.73	-124.91	-17.70	0.00	0.00	0.00
3,200.00	9.25	281.20	3,189.74	27.86	-140.67	-19.94	0.00	0.00	0.00
3,300.00	9.25	281.20	3,288.45	30.98	-156.44	-22.17	0.00	0.00	0.00
3,400.00	9.25	281.20	3,387.15	34.10	-172.20	-24.41	0.00	0.00	0.00
3,500.00	9.25	281.20	3,485.85	37.22	-187.96	-26.64	0.00	0.00	0.00
3,600.00	9.25	281.20	3,584.55	40.34	-203.72	-28.87	0.00	0.00	0.00
3,700.00	9.25	281.20	3,683.25	43.46	-219.49	-31.11	0.00	0.00	0.00
3,800.00	9.25	281.20	3,781.95	46.58	-235.25	-33.34	0.00	0.00	0.00
3,900.00	9.25	281.20	3,880.65	49.71	-251.01	-35.58	0.00	0.00	0.00
4,000.00	9.25	281.20	3,979.35	52.83	-266.77	-37.81	0.00	0.00	0.00
4,100.00	9.25	281.20	4,078.05	55.95	-282.54	-40.04	0.00	0.00	0.00
4,200.00	9.25	281.20	4,176.75	59.07	-298.30	-42.28	0.00	0.00	0.00
4,300.00	9.25	281.20	4,275.45	62.19	-314.06	-44.51	0.00	0.00	0.00
4,400.00	9.25	281.20	4,374.15	65.31	-329.83	-46.75	0.00	0.00	0.00
4,500.00	9.25	281.20	4,472.85	68.43	-345.59	-48.98	0.00	0.00	0.00
4,600.00	9.25	281.20	4,571.55	71.55	-361.35	-51.21	0.00	0.00	0.00
4,700.00	9.25	281.20	4,670.25	74.68	-377.11	-53.45	0.00	0.00	0.00
4,800.00	9.25	281.20	4,768.95	77.80	-392.88	-55.68	0.00	0.00	0.00

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Planning Report

total

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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	9.25	281.20	4,867.65	80.92	-408.64	-57.92	0.00	0.00	0.00
5,000.00	9.25	281.20	4,966.35	84.04	-424.40	-60.15	0.00	0.00	0.00
5,100.00	9.25	281.20	5,065.05	87.16	-440.16	-62.38	0.00	0.00	0.00
5,200.00	9.25	281.20	5,163.76	90.28	-455.93	-64.62	0.00	0.00	0.00
5,300.00	9.25	281.20	5,262.46	93.40	-471.69	-66.85	0.00	0.00	0.00
5,400.00	9.25	281.20	5,361.16	96.53	-487.45	-69.09	0.00	0.00	0.00
5,500.00	9.25	281.20	5,459.86	99.65	-503.21	-71.32	0.00	0.00	0.00
5,600.00	9.25	281.20	5,558.56	102.77	-518.98	-73.56	0.00	0.00	0.00
5,700.00	9.25	281.20	5,657.26	105.89	-534.74	-75.79	0.00	0.00	0.00
5,800.00	9.25	281.20	5,755.96	109.01	-550.50	-78.02	0.00	0.00	0.00
5,900.00	9.25	281.20	5,854.66	112.13	-566.27	-80.26	0.00	0.00	0.00
6,000.00	9.25	281.20	5,953.36	115.25	-582.03	-82.49	0.00	0.00	0.00
6,100.00	9.25	281.20	6,052.06	118.37	-597.79	-84.73	0.00	0.00	0.00
6,200.00	9.25	281.20	6,150.76	121.50	-613.55	-86.96	0.00	0.00	0.00
6,300.00	9.25	281.20	6,249.46	124.62	-629.32	-89.19	0.00	0.00	0.00
6,400.00	9.25	281.20	6,348.16	127.74	-645.08	-91.43	0.00	0.00	0.00
6,500.00	9.25	281.20	6,446.86	130.86	-660.84	-93.66	0.00	0.00	0.00
6,600.00	9.25	281.20	6,545.56	133.98	-676.60	-95.90	0.00	0.00	0.00
6,700.00	9.25	281.20	6,644.26	137.10	-692.37	-98.13	0.00	0.00	0.00
6,804.31	9.25	281.20	6,747.22	140.36	-708.81	-100.46	0.00	0.00	0.00
Start Drop -1.50									
6,900.00	7.81	281.20	6,841.85	143.11	-722.73	-102.43	1.50	-1.50	0.00
7,000.00	6.31	281.20	6,941.09	145.50	-734.79	-104.14	1.50	-1.50	0.00
7,100.00	4.81	281.20	7,040.61	147.39	-744.30	-105.49	1.50	-1.50	0.00
7,200.00	3.31	281.20	7,140.36	148.76	-751.24	-106.47	1.50	-1.50	0.00
7,300.00	1.81	281.20	7,240.26	149.63	-755.63	-107.10	1.50	-1.50	0.00
7,400.00	0.31	281.20	7,340.24	149.99	-757.44	-107.35	1.50	-1.50	0.00
7,420.77	0.00	0.00	7,361.00	150.00	-757.50	-107.36	1.50	-1.50	0.00
Start 546.04 hold at 7420.76 MD									
7,500.00	0.00	0.00	7,440.24	150.00	-757.50	-107.36	0.00	0.00	0.00
7,600.00	0.00	0.00	7,540.24	150.00	-757.50	-107.36	0.00	0.00	0.00
7,700.00	0.00	0.00	7,640.24	150.00	-757.50	-107.36	0.00	0.00	0.00
7,800.00	0.00	0.00	7,740.24	150.00	-757.50	-107.36	0.00	0.00	0.00
7,900.00	0.00	0.00	7,840.24	150.00	-757.50	-107.36	0.00	0.00	0.00
7,966.81	0.00	0.00	7,907.04	150.00	-757.50	-107.36	0.00	0.00	0.00
Start DLS 10.00 TFO 179.43									
8,000.00	3.32	179.43	7,940.22	149.04	-757.49	-106.40	10.00	10.00	0.00
8,050.00	8.32	179.43	7,989.94	143.97	-757.44	-101.34	10.00	10.00	0.00
8,100.00	13.32	179.43	8,039.04	134.59	-757.35	-91.98	10.00	10.00	0.00
8,150.00	18.32	179.43	8,087.13	120.96	-757.21	-78.39	10.00	10.00	0.00
8,200.00	23.32	179.43	8,133.85	103.20	-757.04	-60.66	10.00	10.00	0.00
8,250.00	28.32	179.43	8,178.84	81.43	-756.82	-38.94	10.00	10.00	0.00
8,300.00	33.32	179.43	8,221.77	55.82	-756.56	-13.38	10.00	10.00	0.00
8,350.00	38.32	179.43	8,262.30	26.57	-756.27	15.81	10.00	10.00	0.00
8,400.00	43.32	179.43	8,300.13	-6.10	-755.95	48.41	10.00	10.00	0.00
8,450.00	48.32	179.43	8,334.96	-41.95	-755.59	84.18	10.00	10.00	0.00
8,500.00	53.32	179.43	8,366.54	-80.69	-755.21	122.84	10.00	10.00	0.00
8,550.00	58.32	179.43	8,394.62	-122.04	-754.80	164.10	10.00	10.00	0.00
8,600.00	63.32	179.43	8,418.99	-165.68	-754.37	207.64	10.00	10.00	0.00
8,650.00	68.32	179.43	8,439.47	-211.27	-753.91	253.14	10.00	10.00	0.00
8,700.00	73.32	179.43	8,455.89	-258.48	-753.44	300.25	10.00	10.00	0.00
8,750.00	78.32	179.43	8,468.13	-306.94	-752.96	348.61	10.00	10.00	0.00
8,800.00	83.32	179.43	8,476.11	-356.28	-752.47	397.84	10.00	10.00	0.00

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

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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 103H	**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)
8,850.00	88.32	179.43	8,479.75	-406.13	-751.98	447.59	10.00	10.00	0.00
8,866.81	90.00	179.43	8,480.00	-422.93	-751.81	464.35	10.00	10.00	0.00
Start 11033.00 hold at 8866.80 MD - LP (PF Fed Com 103H)									
8,900.00	90.00	179.43	8,480.00	-456.12	-751.48	497.47	0.00	0.00	0.00
9,000.00	90.00	179.43	8,480.00	-556.12	-750.49	597.26	0.00	0.00	0.00
9,100.00	90.00	179.43	8,480.00	-656.11	-749.50	697.04	0.00	0.00	0.00
9,200.00	90.00	179.43	8,480.00	-756.11	-748.50	796.82	0.00	0.00	0.00
9,300.00	90.00	179.43	8,480.00	-856.10	-747.51	896.61	0.00	0.00	0.00
9,400.00	90.00	179.43	8,480.00	-956.10	-746.52	996.39	0.00	0.00	0.00
9,500.00	90.00	179.43	8,480.00	-1,056.09	-745.52	1,096.17	0.00	0.00	0.00
9,600.00	90.00	179.43	8,480.00	-1,156.09	-744.53	1,195.95	0.00	0.00	0.00
9,700.00	90.00	179.43	8,480.00	-1,256.08	-743.54	1,295.74	0.00	0.00	0.00
9,800.00	90.00	179.43	8,480.00	-1,356.08	-742.55	1,395.52	0.00	0.00	0.00
9,900.00	90.00	179.43	8,480.00	-1,456.07	-741.55	1,495.30	0.00	0.00	0.00
10,000.00	90.00	179.43	8,480.00	-1,556.07	-740.56	1,595.08	0.00	0.00	0.00
10,100.00	90.00	179.43	8,480.00	-1,656.06	-739.57	1,694.87	0.00	0.00	0.00
10,200.00	90.00	179.43	8,480.00	-1,756.06	-738.57	1,794.65	0.00	0.00	0.00
10,300.00	90.00	179.43	8,480.00	-1,856.05	-737.58	1,894.43	0.00	0.00	0.00
10,400.00	90.00	179.43	8,480.00	-1,956.05	-736.59	1,994.22	0.00	0.00	0.00
10,500.00	90.00	179.43	8,480.00	-2,056.04	-735.60	2,094.00	0.00	0.00	0.00
10,600.00	90.00	179.43	8,480.00	-2,156.04	-734.60	2,193.78	0.00	0.00	0.00
10,700.00	90.00	179.43	8,480.00	-2,256.03	-733.61	2,293.56	0.00	0.00	0.00
10,800.00	90.00	179.43	8,480.00	-2,356.03	-732.62	2,393.35	0.00	0.00	0.00
10,900.00	90.00	179.43	8,480.00	-2,456.02	-731.62	2,493.13	0.00	0.00	0.00
11,000.00	90.00	179.43	8,480.00	-2,556.02	-730.63	2,592.91	0.00	0.00	0.00
11,100.00	90.00	179.43	8,480.00	-2,656.01	-729.64	2,692.69	0.00	0.00	0.00
11,200.00	90.00	179.43	8,480.00	-2,756.01	-728.64	2,792.48	0.00	0.00	0.00
11,300.00	90.00	179.43	8,480.00	-2,856.00	-727.65	2,892.26	0.00	0.00	0.00
11,400.00	90.00	179.43	8,480.00	-2,956.00	-726.66	2,992.04	0.00	0.00	0.00
11,500.00	90.00	179.43	8,480.00	-3,055.99	-725.67	3,091.82	0.00	0.00	0.00
11,600.00	90.00	179.43	8,480.00	-3,155.99	-724.67	3,191.61	0.00	0.00	0.00
11,700.00	90.00	179.43	8,480.00	-3,255.99	-723.68	3,291.39	0.00	0.00	0.00
11,800.00	90.00	179.43	8,480.00	-3,355.98	-722.69	3,391.17	0.00	0.00	0.00
11,900.00	90.00	179.43	8,480.00	-3,455.98	-721.69	3,490.96	0.00	0.00	0.00
12,000.00	90.00	179.43	8,480.00	-3,555.97	-720.70	3,590.74	0.00	0.00	0.00
12,100.00	90.00	179.43	8,480.00	-3,655.97	-719.71	3,690.52	0.00	0.00	0.00
12,200.00	90.00	179.43	8,480.00	-3,755.96	-718.72	3,790.30	0.00	0.00	0.00
12,300.00	90.00	179.43	8,480.00	-3,855.96	-717.72	3,890.09	0.00	0.00	0.00
12,400.00	90.00	179.43	8,480.00	-3,955.95	-716.73	3,989.87	0.00	0.00	0.00
12,500.00	90.00	179.43	8,480.00	-4,055.95	-715.74	4,089.65	0.00	0.00	0.00
12,600.00	90.00	179.43	8,480.00	-4,155.94	-714.74	4,189.43	0.00	0.00	0.00
12,700.00	90.00	179.43	8,480.00	-4,255.94	-713.75	4,289.22	0.00	0.00	0.00
12,800.00	90.00	179.43	8,480.00	-4,355.93	-712.76	4,389.00	0.00	0.00	0.00
12,900.00	90.00	179.43	8,480.00	-4,455.93	-711.77	4,488.78	0.00	0.00	0.00
13,000.00	90.00	179.43	8,480.00	-4,555.92	-710.77	4,588.57	0.00	0.00	0.00
13,100.00	90.00	179.43	8,480.00	-4,655.92	-709.78	4,688.35	0.00	0.00	0.00
13,200.00	90.00	179.43	8,480.00	-4,755.91	-708.79	4,788.13	0.00	0.00	0.00
13,300.00	90.00	179.43	8,480.00	-4,855.91	-707.79	4,887.91	0.00	0.00	0.00
13,400.00	90.00	179.43	8,480.00	-4,955.90	-706.80	4,987.70	0.00	0.00	0.00
13,500.00	90.00	179.43	8,480.00	-5,055.90	-705.81	5,087.48	0.00	0.00	0.00
13,600.00	90.00	179.43	8,480.00	-5,155.89	-704.82	5,187.26	0.00	0.00	0.00
13,700.00	90.00	179.43	8,480.00	-5,255.89	-703.82	5,287.04	0.00	0.00	0.00
13,800.00	90.00	179.43	8,480.00	-5,355.88	-702.83	5,386.83	0.00	0.00	0.00
13,900.00	90.00	179.43	8,480.00	-5,455.88	-701.84	5,486.61	0.00	0.00	0.00

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Planning Report

total

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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	8,480.00	-5,555.87	-700.84	5,586.39	0.00	0.00	0.00
14,100.00	90.00	179.43	8,480.00	-5,655.87	-699.85	5,686.17	0.00	0.00	0.00
14,200.00	90.00	179.43	8,480.00	-5,755.86	-698.86	5,785.96	0.00	0.00	0.00
14,300.00	90.00	179.43	8,480.00	-5,855.86	-697.86	5,885.74	0.00	0.00	0.00
14,400.00	90.00	179.43	8,480.00	-5,955.85	-696.87	5,985.52	0.00	0.00	0.00
14,500.00	90.00	179.43	8,480.00	-6,055.85	-695.88	6,085.31	0.00	0.00	0.00
14,600.00	90.00	179.43	8,480.00	-6,155.84	-694.89	6,185.09	0.00	0.00	0.00
14,700.00	90.00	179.43	8,480.00	-6,255.84	-693.89	6,284.87	0.00	0.00	0.00
14,800.00	90.00	179.43	8,480.00	-6,355.83	-692.90	6,384.65	0.00	0.00	0.00
14,900.00	90.00	179.43	8,480.00	-6,455.83	-691.91	6,484.44	0.00	0.00	0.00
15,000.00	90.00	179.43	8,480.00	-6,555.82	-690.91	6,584.22	0.00	0.00	0.00
15,100.00	90.00	179.43	8,480.00	-6,655.82	-689.92	6,684.00	0.00	0.00	0.00
15,200.00	90.00	179.43	8,480.00	-6,755.81	-688.93	6,783.78	0.00	0.00	0.00
15,300.00	90.00	179.43	8,480.00	-6,855.81	-687.94	6,883.57	0.00	0.00	0.00
15,400.00	90.00	179.43	8,480.00	-6,955.80	-686.94	6,983.35	0.00	0.00	0.00
15,500.00	90.00	179.43	8,480.00	-7,055.80	-685.95	7,083.13	0.00	0.00	0.00
15,600.00	90.00	179.43	8,480.00	-7,155.79	-684.96	7,182.92	0.00	0.00	0.00
15,700.00	90.00	179.43	8,480.00	-7,255.79	-683.96	7,282.70	0.00	0.00	0.00
15,800.00	90.00	179.43	8,480.00	-7,355.78	-682.97	7,382.48	0.00	0.00	0.00
15,900.00	90.00	179.43	8,480.00	-7,455.78	-681.98	7,482.26	0.00	0.00	0.00
16,000.00	90.00	179.43	8,480.00	-7,555.77	-680.99	7,582.05	0.00	0.00	0.00
16,100.00	90.00	179.43	8,480.00	-7,655.77	-679.99	7,681.83	0.00	0.00	0.00
16,200.00	90.00	179.43	8,480.00	-7,755.76	-679.00	7,781.61	0.00	0.00	0.00
16,300.00	90.00	179.43	8,480.00	-7,855.76	-678.01	7,881.39	0.00	0.00	0.00
16,400.00	90.00	179.43	8,480.00	-7,955.75	-677.01	7,981.18	0.00	0.00	0.00
16,500.00	90.00	179.43	8,480.00	-8,055.75	-676.02	8,080.96	0.00	0.00	0.00
16,600.00	90.00	179.43	8,480.00	-8,155.74	-675.03	8,180.74	0.00	0.00	0.00
16,700.00	90.00	179.43	8,480.00	-8,255.74	-674.04	8,280.52	0.00	0.00	0.00
16,800.00	90.00	179.43	8,480.00	-8,355.73	-673.04	8,380.31	0.00	0.00	0.00
16,900.00	90.00	179.43	8,480.00	-8,455.73	-672.05	8,480.09	0.00	0.00	0.00
17,000.00	90.00	179.43	8,480.00	-8,555.72	-671.06	8,579.87	0.00	0.00	0.00
17,100.00	90.00	179.43	8,480.00	-8,655.72	-670.06	8,679.66	0.00	0.00	0.00
17,200.00	90.00	179.43	8,480.00	-8,755.71	-669.07	8,779.44	0.00	0.00	0.00
17,300.00	90.00	179.43	8,480.00	-8,855.71	-668.08	8,879.22	0.00	0.00	0.00
17,400.00	90.00	179.43	8,480.00	-8,955.70	-667.09	8,979.00	0.00	0.00	0.00
17,500.00	90.00	179.43	8,480.00	-9,055.70	-666.09	9,078.79	0.00	0.00	0.00
17,600.00	90.00	179.43	8,480.00	-9,155.69	-665.10	9,178.57	0.00	0.00	0.00
17,700.00	90.00	179.43	8,480.00	-9,255.69	-664.11	9,278.35	0.00	0.00	0.00
17,800.00	90.00	179.43	8,480.00	-9,355.68	-663.11	9,378.13	0.00	0.00	0.00
17,900.00	90.00	179.43	8,480.00	-9,455.68	-662.12	9,477.92	0.00	0.00	0.00
18,000.00	90.00	179.43	8,480.00	-9,555.67	-661.13	9,577.70	0.00	0.00	0.00
18,100.00	90.00	179.43	8,480.00	-9,655.67	-660.13	9,677.48	0.00	0.00	0.00
18,200.00	90.00	179.43	8,480.00	-9,755.66	-659.14	9,777.27	0.00	0.00	0.00
18,300.00	90.00	179.43	8,480.00	-9,855.66	-658.15	9,877.05	0.00	0.00	0.00
18,400.00	90.00	179.43	8,480.00	-9,955.65	-657.16	9,976.83	0.00	0.00	0.00
18,500.00	90.00	179.43	8,480.00	-10,055.65	-656.16	10,076.61	0.00	0.00	0.00
18,600.00	90.00	179.43	8,480.00	-10,155.65	-655.17	10,176.40	0.00	0.00	0.00
18,700.00	90.00	179.43	8,480.00	-10,255.64	-654.18	10,276.18	0.00	0.00	0.00
18,800.00	90.00	179.43	8,480.00	-10,355.64	-653.18	10,375.96	0.00	0.00	0.00
18,900.00	90.00	179.43	8,480.00	-10,455.63	-652.19	10,475.74	0.00	0.00	0.00
19,000.00	90.00	179.43	8,480.00	-10,555.63	-651.20	10,575.53	0.00	0.00	0.00
19,100.00	90.00	179.43	8,480.00	-10,655.62	-650.21	10,675.31	0.00	0.00	0.00
19,200.00	90.00	179.43	8,480.00	-10,755.62	-649.21	10,775.09	0.00	0.00	0.00
19,300.00	90.00	179.43	8,480.00	-10,855.61	-648.22	10,874.88	0.00	0.00	0.00

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Planning Report

total

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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	8,480.00	-10,955.61	-647.23	10,974.66	0.00	0.00	0.00
19,500.00	90.00	179.43	8,480.00	-11,055.60	-646.23	11,074.44	0.00	0.00	0.00
19,600.00	90.00	179.43	8,480.00	-11,155.60	-645.24	11,174.22	0.00	0.00	0.00
19,700.00	90.00	179.43	8,480.00	-11,255.59	-644.25	11,274.01	0.00	0.00	0.00
19,800.00	90.00	179.43	8,480.00	-11,355.59	-643.26	11,373.79	0.00	0.00	0.00
19,899.80	90.00	179.43	8,480.00	-11,455.38	-642.26	11,473.37	0.00	0.00	0.00
TD at 19899.80 - PBHL (PF Fed Com 103H)									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (PF Fed Com 103H - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	393,885.73	856,326.96	32.078790	-103.316352
LP (PF Fed Com 103H) - plan hits target center - Point	0.00	0.00	8,480.00	-422.93	-751.81	393,462.80	855,575.15	32.077647	-103.318792
PBHL (PF Fed Com 103 - plan hits target center - Point	0.00	0.00	8,480.00	-11,455.38	-642.26	382,430.35	855,684.69	32.047321	-103.318773

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2,000.00	2,000.00	0.00	0.00	Start Build 1.50
2,616.45	2,613.78	9.64	-48.69	Start 4187.86 hold at 2616.45 MD
6,804.31	6,747.22	140.36	-708.81	Start Drop -1.50
7,420.77	7,361.00	150.00	-757.50	Start 546.04 hold at 7420.76 MD
7,966.81	7,907.04	150.00	-757.50	Start DLS 10.00 TFO 179.43
8,866.81	8,480.00	-422.93	-751.81	Start 11033.00 hold at 8866.80 MD
19,899.80	8,480.00	-11,455.38	-642.26	TD at 19899.80

Franklin Mountain Energy

Lea County, NM (NAD83)
PF Fed Com
Paul Foster Fed Com 103H

OH
Plan #1

Anticollision Report

16 July, 2021

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum ellipse separation of 1,000.00 usft	**Error Surface:**	Combined Separation
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 7/16/2021

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	19,899.80	Plan #1 (OH)	OWSG (Rev2) MWD	OWSG MWD - Standard

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Bus Driver/Kaston Fed Com						
Bus Driver Fed Com 602H - OH - OH	7,225.62	7,152.78	1,216.24	1,182.54	36.084	CC, ES
Bus Driver Fed Com 602H - OH - OH	8,400.00	8,340.93	1,246.93	1,207.70	31.783	SF
Bus Driver Fed Com 602H - OH - Plan #6	7,225.62	7,152.78	1,216.24	1,182.54	36.084	CC, ES
Bus Driver Fed Com 602H - OH - Plan #6	19,899.80	22,937.32	4,005.57	3,857.96	27.136	SF
Bus Driver Fed Com 702H - OH - OH	6,966.45	6,794.96	1,642.71	1,610.10	50.375	CC
Bus Driver Fed Com 702H - OH - OH	7,000.00	6,835.49	1,642.80	1,609.99	50.082	ES
Bus Driver Fed Com 702H - OH - OH	8,600.00	8,509.04	1,746.33	1,705.54	42.818	SF
Bus Driver Fed Com 702H - OH - Plan #5	6,926.22	6,730.85	1,630.11	1,597.80	50.453	CC, ES
Bus Driver Fed Com 702H - OH - Plan #5	19,899.80	23,496.18	4,066.32	3,903.35	24.951	SF
Kaston Fed Com 603H - OH - OH	7,983.25	8,035.16	133.47	95.56	3.521	CC, ES
Kaston Fed Com 603H - OH - OH	8,000.00	8,052.10	133.58	95.59	3.516	SF
Kaston Fed Com 703H - OH - OH	7,346.21	7,328.11	703.83	669.38	20.430	CC
Kaston Fed Com 703H - OH - OH	8,000.00	7,997.75	706.06	668.52	18.810	ES
Kaston Fed Com 703H - OH - OH	8,200.00	8,180.72	713.55	675.20	18.604	SF
Kaston Fed Com 703H - OH - Plan #9	7,346.24	7,328.13	703.75	669.24	20.388	CC
Kaston Fed Com 703H - OH - Plan #9	8,000.00	7,997.73	705.98	668.37	18.772	ES
Kaston Fed Com 703H - OH - Plan #9	8,200.00	8,180.70	713.49	675.07	18.567	SF
Judge Baylor Fed Com						
Judge Baylor Fed Com 601H - OH - Plan #5	7,301.44	7,199.61	3,034.39	2,998.02	83.431	CC, ES
Judge Baylor Fed Com 601H - OH - Plan #5	19,200.00	22,101.01	4,724.28	4,537.89	25.347	SF
Judge Baylor Fed Com 701H - OH - Plan #5	7,966.81	7,957.51	2,734.46	2,694.55	68.511	CC
Judge Baylor Fed Com 701H - OH - Plan #5	8,050.00	8,040.42	2,734.64	2,694.34	67.863	ES
Judge Baylor Fed Com 701H - OH - Plan #5	19,200.00	22,390.61	4,763.33	4,588.58	27.258	SF
LHS Wildcat Fed Com						
LHS Wildcat Fed Com 604H - OH - OH	2,131.21	2,147.76	748.57	739.48	82.361	CC, ES
LHS Wildcat Fed Com 604H - OH - OH	18,900.00	21,860.00	3,788.65	3,648.14	26.964	SF
LHS Wildcat Fed Com 705H - OH - OH	1,589.03	1,590.62	800.26	793.06	111.146	CC
LHS Wildcat Fed Com 705H - OH - OH	1,600.00	1,599.39	800.27	793.04	110.634	ES
LHS Wildcat Fed Com 705H - OH - OH	19,000.00	22,230.00	4,035.90	3,886.98	27.101	SF

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
PF Fed Com						
Paul Foster Fed Com 104H - OH - Plan #1	2,000.00	2,000.00	74.96	65.15	7.642	CC, ES
Paul Foster Fed Com 104H - OH - Plan #1	18,600.00	18,511.34	1,501.33	1,260.28	6.228	SF
Paul Foster Fed Com 503H - OH - Plan #1	2,000.00	2,000.00	24.78	14.97	2.526	CC, ES
Paul Foster Fed Com 503H - OH - Plan #1	4,800.00	4,805.21	42.59	17.18	1.677	SF
Paul Foster Fed Com 504H - OH - Plan #1	2,000.00	2,000.00	49.87	40.06	5.084	CC, ES
Paul Foster Fed Com 504H - OH - Plan #1	2,100.00	2,099.99	51.15	40.84	4.961	SF
Paul Foster Fed Com 804H - OH - Plan #1	2,000.00	2,000.00	75.96	66.15	7.744	CC
Paul Foster Fed Com 804H - OH - Plan #1	2,300.00	2,299.32	76.82	65.53	6.804	ES
Paul Foster Fed Com 804H - OH - Plan #1	8,000.00	7,974.65	215.78	174.91	5.279	SF
Paul Foster Fed Com 805H - OH - Plan #1	2,000.00	2,000.00	83.80	73.99	8.542	CC
Paul Foster Fed Com 805H - OH - Plan #1	2,100.00	2,099.99	84.14	73.83	8.160	ES
Paul Foster Fed Com 805H - OH - Plan #1	2,300.00	2,297.70	88.68	77.38	7.849	SF
Paul Foster Fed Com 806H - OH - Plan #1	2,000.00	2,000.00	97.43	87.62	9.932	CC, ES
Paul Foster Fed Com 806H - OH - Plan #1	2,200.00	2,197.73	101.07	90.28	9.361	SF
PF Fed Com 101H - OH - Plan #1	7,132.22	6,947.80	2,503.74	2,467.41	68.930	CC
PF Fed Com 101H - OH - Plan #1	18,600.00	18,634.72	2,506.55	2,268.37	10.524	ES
PF Fed Com 101H - OH - Plan #1	18,800.00	18,634.72	2,515.96	2,275.53	10.464	SF
PF Fed Com 102H - OH - Plan #1	8,064.55	8,111.70	1,304.50	1,263.05	31.471	CC
PF Fed Com 102H - OH - Plan #1	19,899.80	20,078.25	1,313.66	1,046.76	4.922	ES, SF
PF Fed Com 501H - OH - Plan #1	7,192.72	7,059.42	2,504.59	2,467.57	67.649	CC
PF Fed Com 501H - OH - Plan #1	8,050.00	8,063.99	2,505.32	2,463.87	60.448	ES
PF Fed Com 501H - OH - Plan #1	18,900.00	20,792.10	3,295.67	3,098.96	16.754	SF
PF Fed Com 502H - OH - Plan #1	7,966.81	8,027.70	1,337.00	1,295.59	32.286	CC
PF Fed Com 502H - OH - Plan #1	8,000.00	8,060.88	1,337.05	1,295.49	32.166	ES
PF Fed Com 502H - OH - Plan #1	19,899.80	22,046.30	2,396.23	2,216.10	13.303	SF
PF Fed Com 801H - OH - Plan #1	7,027.01	6,774.36	2,599.69	2,564.07	72.989	CC, ES
PF Fed Com 801H - OH - Plan #1	19,200.00	22,715.49	4,848.68	4,684.32	29.500	SF
PF Fed Com 802H - OH - Plan #1	7,966.81	7,966.36	1,796.61	1,755.77	43.994	CC
PF Fed Com 802H - OH - Plan #1	8,000.00	7,999.53	1,796.66	1,755.66	43.826	ES
PF Fed Com 802H - OH - Plan #1	19,899.80	23,929.64	4,289.25	4,129.63	26.873	SF
PF Fed Com 803H - OH - Plan #1	7,966.81	8,100.99	820.79	778.87	19.581	CC
PF Fed Com 803H - OH - Plan #1	8,000.00	8,134.17	820.88	778.81	19.511	ES
PF Fed Com 803H - OH - Plan #1	8,350.00	8,456.25	841.63	797.44	19.048	SF

Offset Design Bus Driver/Kaston Fed Com - Bus Driver Fed Com 602H - OH - OH

Survey Program: 112-OWSG (Rev2) MWD, 1352-OWSG (Rev2) MWD

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	26.15	26.15	0.00	0.03	-71.73	580.36	-1,757.57	1,850.91				
100.00	100.00	125.35	125.35	0.13	0.19	-71.72	580.58	-1,757.55	1,850.96	1,850.73	0.23	8,038.635	
200.00	200.00	221.52	221.52	0.48	0.53	-71.72	580.70	-1,757.60	1,851.05	1,850.33	0.72	2,583.799	
300.00	300.00	300.25	300.24	0.84	0.81	-71.70	581.43	-1,758.08	1,851.91	1,850.74	1.17	1,585.451	
400.00	400.00	379.26	379.23	1.20	1.09	-71.67	582.79	-1,759.31	1,853.93	1,852.30	1.62	1,142.264	
500.00	500.00	479.77	479.70	1.56	1.45	-71.65	584.32	-1,761.75	1,856.71	1,854.59	2.13	872.108	
600.00	600.00	591.55	591.45	1.92	1.85	-71.68	584.24	-1,764.33	1,858.88	1,856.22	2.66	698.694	
700.00	700.00	687.42	687.27	2.28	2.18	-71.76	582.22	-1,766.77	1,860.65	1,857.49	3.15	590.491	
800.00	800.00	871.81	871.28	2.63	2.83	-72.09	571.37	-1,768.44	1,858.99	1,855.13	3.86	481.616	
900.00	900.00	959.38	958.59	2.99	3.14	-72.30	564.64	-1,769.37	1,857.55	1,853.22	4.33	428.603	
1,000.00	1,000.00	1,049.14	1,048.17	3.35	3.46	-72.46	559.17	-1,769.65	1,856.01	1,851.20	4.81	385.519	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,100.00	1,100.00	1,155.74	1,154.61	3.71	3.84	-72.65	553.19	-1,770.18	1,854.82	1,849.48	5.34	347.394	
1,200.00	1,200.00	1,245.23	1,243.99	4.07	4.16	-72.77	548.92	-1,770.15	1,853.39	1,847.57	5.82	318.451	
1,300.00	1,300.00	1,337.64	1,336.35	4.43	4.49	-72.87	545.59	-1,770.40	1,852.59	1,846.28	6.31	293.699	
1,400.00	1,400.00	1,425.00	1,423.68	4.79	4.68	-72.93	543.72	-1,770.75	1,852.35	1,845.65	6.69	276.790	
1,408.59	1,408.59	1,436.18	1,434.86	4.82	4.68	-72.94	543.52	-1,770.80	1,852.34	1,845.62	6.72	275.801	
1,500.00	1,500.00	1,507.12	1,505.79	5.14	4.70	-72.96	542.81	-1,771.44	1,852.85	1,845.89	6.97	265.966	
1,600.00	1,600.00	1,600.96	1,599.63	5.50	4.74	-72.96	543.34	-1,772.61	1,854.20	1,846.94	7.26	255.352	
1,700.00	1,700.00	1,698.36	1,697.00	5.86	4.80	-72.91	545.14	-1,773.60	1,855.72	1,848.15	7.58	244.933	
1,800.00	1,800.00	1,798.97	1,797.58	6.22	4.89	-72.86	547.42	-1,774.57	1,857.31	1,849.39	7.91	234.748	
1,900.00	1,900.00	1,902.23	1,900.81	6.58	5.01	-72.80	549.75	-1,775.45	1,858.79	1,850.52	8.27	224.824	
2,000.00	2,000.00	2,014.68	2,013.23	6.94	5.17	-72.72	552.32	-1,775.86	1,859.82	1,851.17	8.65	215.052	
2,100.00	2,099.99	2,121.55	2,120.07	7.29	5.34	6.16	555.02	-1,775.59	1,859.02	1,849.99	9.03	205.828	
2,200.00	2,199.91	2,224.67	2,223.15	7.63	5.52	6.27	557.91	-1,774.94	1,855.36	1,845.94	9.42	196.980	
2,300.00	2,299.69	2,324.32	2,322.75	7.98	5.71	6.40	560.89	-1,774.16	1,849.01	1,839.20	9.81	188.416	
2,400.00	2,399.27	2,423.70	2,422.07	8.34	5.92	6.55	564.11	-1,773.36	1,840.14	1,829.92	10.22	180.101	
2,500.00	2,498.57	2,543.81	2,542.12	8.69	6.19	6.74	567.40	-1,772.06	1,828.30	1,817.64	10.66	171.579	
2,600.00	2,597.54	2,652.72	2,651.00	9.06	6.45	6.89	569.12	-1,770.05	1,812.79	1,801.71	11.09	163.501	
2,616.45	2,613.78	2,665.52	2,663.80	9.12	6.48	6.92	569.31	-1,769.81	1,809.98	1,798.83	11.15	162.285	
2,700.00	2,696.24	2,732.78	2,731.05	9.43	6.64	6.98	569.72	-1,769.05	1,795.92	1,784.44	11.48	156.378	
2,800.00	2,794.94	2,824.87	2,823.15	9.81	6.87	7.03	569.37	-1,768.94	1,779.74	1,767.84	11.90	149.566	
2,900.00	2,893.64	2,933.31	2,931.59	10.19	7.14	7.10	569.28	-1,768.61	1,763.49	1,751.14	12.34	142.856	
3,000.00	2,992.34	3,055.38	3,053.63	10.58	7.47	7.23	570.15	-1,766.55	1,746.16	1,733.34	12.82	136.226	
3,100.00	3,091.04	3,153.31	3,151.53	10.97	7.75	7.34	570.77	-1,764.07	1,728.05	1,714.78	13.26	130.296	
3,200.00	3,189.74	3,236.18	3,234.39	11.37	7.98	7.39	570.04	-1,763.11	1,710.72	1,697.04	13.69	124.974	
3,300.00	3,288.45	3,335.87	3,333.99	11.77	8.26	7.32	565.99	-1,763.22	1,693.62	1,679.48	14.14	119.773	
3,400.00	3,387.15	3,406.00	3,403.95	12.17	8.46	7.21	561.26	-1,764.12	1,676.97	1,662.41	14.55	115.224	
3,500.00	3,485.85	3,500.00	3,497.57	12.58	8.73	6.98	553.56	-1,767.40	1,661.76	1,646.75	15.01	110.736	
3,600.00	3,584.55	3,558.11	3,555.38	12.98	8.91	6.82	548.60	-1,770.71	1,648.29	1,632.89	15.41	106.992	
3,700.00	3,683.25	3,640.17	3,636.98	13.39	9.16	6.60	542.08	-1,776.28	1,636.32	1,620.47	15.84	103.273	
3,800.00	3,781.95	3,727.66	3,724.09	13.80	9.43	6.40	536.57	-1,782.41	1,625.09	1,608.79	16.30	99.729	
3,900.00	3,880.65	3,816.38	3,812.47	14.22	9.70	6.25	532.52	-1,788.89	1,614.67	1,597.92	16.75	96.398	
4,000.00	3,979.35	3,924.06	3,919.60	14.63	10.05	6.00	525.93	-1,797.52	1,604.50	1,587.26	17.25	93.040	
4,100.00	4,078.05	4,037.61	4,032.20	15.05	10.42	5.57	514.48	-1,806.66	1,593.25	1,575.49	17.76	89.723	
4,200.00	4,176.75	4,141.08	4,134.80	15.47	10.77	5.17	503.74	-1,814.60	1,581.64	1,563.38	18.25	86.645	
4,300.00	4,275.45	4,231.94	4,225.11	15.89	11.08	4.89	496.18	-1,821.06	1,570.12	1,551.40	18.73	83.835	
4,400.00	4,374.15	4,366.10	4,358.68	16.31	11.53	4.53	486.70	-1,829.33	1,558.15	1,538.87	19.28	80.803	
4,500.00	4,472.85	4,481.37	4,473.68	16.73	11.92	4.31	480.26	-1,833.72	1,544.28	1,524.48	19.80	77.992	
4,600.00	4,571.55	4,585.46	4,577.53	17.15	12.27	4.10	473.98	-1,836.89	1,529.57	1,509.27	20.30	75.346	
4,700.00	4,670.25	4,676.52	4,668.24	17.57	12.58	3.84	466.80	-1,840.30	1,515.09	1,494.30	20.78	72.899	
4,800.00	4,768.95	4,768.52	4,759.89	18.00	12.90	3.58	459.76	-1,844.26	1,501.22	1,479.95	21.27	70.580	
4,900.00	4,867.65	4,865.25	4,856.25	18.42	13.24	3.30	452.53	-1,848.59	1,487.61	1,465.84	21.77	68.347	
5,000.00	4,966.35	4,959.66	4,950.26	18.85	13.58	3.01	445.17	-1,853.07	1,474.22	1,451.96	22.26	66.230	
5,100.00	5,065.05	5,052.27	5,042.43	19.28	13.91	2.70	437.55	-1,857.95	1,461.27	1,438.51	22.75	64.227	
5,200.00	5,163.76	5,149.21	5,138.93	19.70	14.25	2.39	429.98	-1,863.31	1,448.71	1,425.46	23.25	62.302	
5,300.00	5,262.46	5,265.25	5,254.24	20.13	14.68	1.92	418.77	-1,869.74	1,435.83	1,412.04	23.79	60.350	
5,400.00	5,361.16	5,371.35	5,359.43	20.56	15.07	1.38	405.88	-1,874.87	1,421.76	1,397.45	24.32	58.468	
5,500.00	5,459.86	5,474.91	5,462.13	20.99	15.46	0.86	393.40	-1,879.57	1,407.56	1,382.72	24.84	56.667	
5,600.00	5,558.56	5,582.67	5,569.07	21.42	15.86	0.32	380.87	-1,883.76	1,392.92	1,367.55	25.37	54.908	
5,700.00	5,657.26	5,658.47	5,644.32	21.85	16.14	-0.06	372.33	-1,887.06	1,378.88	1,353.03	25.85	53.347	
5,800.00	5,755.96	5,748.84	5,734.01	22.28	16.48	-0.51	362.45	-1,891.98	1,366.06	1,339.71	26.35	51.843	
5,900.00	5,854.66	5,858.09	5,842.55	22.71	16.89	-1.02	351.40	-1,897.66	1,353.28	1,326.39	26.88	50.337	
6,000.00	5,953.36	5,963.02	5,946.94	23.14	17.28	-1.48	341.76	-1,902.15	1,339.82	1,312.41	27.41	48.881	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,100.00	6,052.06	6,062.42	6,045.86	23.57	17.65	-1.91	332.89	-1,906.12	1,326.20	1,298.28	27.93	47.490	
6,200.00	6,150.76	6,161.16	6,144.16	24.01	18.02	-2.32	324.43	-1,909.84	1,312.49	1,284.05	28.44	46.148	
6,300.00	6,249.46	6,244.56	6,227.15	24.44	18.33	-2.70	317.07	-1,913.61	1,299.55	1,270.62	28.93	44.916	
6,400.00	6,348.16	6,332.42	6,314.47	24.87	18.66	-3.13	308.70	-1,918.56	1,287.68	1,258.25	29.43	43.750	
6,500.00	6,446.86	6,433.33	6,414.72	25.30	19.05	-3.65	298.84	-1,924.61	1,276.23	1,246.28	29.96	42.600	
6,600.00	6,545.56	6,535.11	6,515.82	25.74	19.44	-4.19	288.73	-1,930.52	1,264.68	1,234.19	30.49	41.483	
6,700.00	6,644.26	6,637.20	6,617.26	26.17	19.83	-4.74	278.63	-1,936.20	1,253.00	1,221.98	31.02	40.399	
6,804.31	6,747.22	6,744.96	6,724.44	26.62	20.24	-5.28	268.95	-1,941.65	1,240.51	1,208.94	31.57	39.297	
6,900.00	6,841.85	6,838.30	6,817.35	27.03	20.59	-5.71	261.25	-1,946.16	1,230.18	1,198.12	32.06	38.369	
7,000.00	6,941.09	6,929.80	6,908.48	27.44	20.94	-6.09	254.46	-1,950.84	1,222.36	1,189.79	32.56	37.537	
7,100.00	7,040.61	7,021.87	7,000.23	27.83	21.28	-6.40	248.95	-1,956.22	1,218.01	1,184.95	33.06	36.841	
7,200.00	7,140.36	7,125.87	7,103.92	28.20	21.66	-6.71	243.71	-1,962.21	1,216.32	1,182.74	33.58	36.227	
7,225.62	7,165.94	7,152.78	7,130.76	28.29	21.76	-6.78	242.39	-1,963.70	1,216.24	1,182.54	33.71	36.084	CC, ES
7,300.00	7,240.26	7,230.03	7,207.81	28.55	22.04	-6.99	238.68	-1,967.80	1,216.87	1,182.79	34.08	35.702	
7,400.00	7,340.24	7,328.58	7,306.14	28.88	22.40	-7.22	234.45	-1,972.86	1,219.86	1,185.28	34.58	35.277	
7,420.77	7,361.00	7,348.29	7,325.81	28.95	22.47	-86.07	233.65	-1,973.91	1,220.84	1,186.16	34.68	35.203	
7,500.00	7,440.24	7,435.10	7,412.43	29.20	22.78	-86.24	230.22	-1,978.37	1,224.71	1,189.63	35.08	34.912	
7,600.00	7,540.24	7,548.39	7,525.56	29.52	23.19	-86.44	226.30	-1,983.02	1,228.58	1,192.99	35.59	34.522	
7,700.00	7,640.24	7,675.39	7,652.50	29.84	23.62	-86.53	224.51	-1,986.01	1,230.85	1,194.75	36.10	34.097	
7,800.00	7,740.24	7,789.50	7,766.60	30.16	23.99	-86.50	225.12	-1,986.43	1,231.23	1,194.65	36.58	33.663	
7,900.00	7,840.24	7,894.23	7,871.33	30.48	24.32	-86.48	225.50	-1,986.28	1,231.10	1,194.06	37.04	33.234	
7,966.81	7,907.04	7,966.31	7,943.41	30.69	24.55	-86.49	225.45	-1,985.86	1,230.71	1,193.35	37.36	32.943	
8,000.00	7,940.22	8,002.27	7,979.37	30.79	24.66	94.15	225.37	-1,985.53	1,230.48	1,192.97	37.51	32.801	
8,050.00	7,989.94	8,056.06	8,033.16	30.94	24.83	94.42	225.19	-1,984.90	1,230.26	1,192.52	37.74	32.599	
8,075.50	8,015.08	8,083.21	8,060.31	31.01	24.92	94.63	225.07	-1,984.52	1,230.23	1,192.37	37.85	32.500	
8,100.00	8,039.04	8,109.10	8,086.19	31.08	25.00	94.87	224.94	-1,984.11	1,230.26	1,192.30	37.96	32.408	
8,150.00	8,087.13	8,158.82	8,135.90	31.21	25.16	95.45	224.64	-1,983.25	1,230.62	1,192.44	38.18	32.234	
8,200.00	8,133.85	8,206.24	8,183.32	31.33	25.32	96.13	224.36	-1,982.40	1,231.56	1,193.17	38.39	32.079	
8,250.00	8,178.84	8,244.74	8,221.80	31.45	25.44	96.72	224.13	-1,981.77	1,233.35	1,194.75	38.60	31.950	
8,300.00	8,221.77	8,279.11	8,256.17	31.55	25.56	97.22	223.93	-1,981.46	1,236.40	1,197.59	38.81	31.856	
8,350.00	8,262.30	8,312.00	8,289.07	31.65	25.67	97.65	223.73	-1,981.39	1,240.87	1,201.85	39.02	31.800	
8,400.00	8,300.13	8,340.93	8,318.00	31.74	25.76	97.91	223.58	-1,981.52	1,246.93	1,207.70	39.23	31.783	SF
8,450.00	8,334.96	8,367.87	8,344.93	31.82	25.85	98.01	223.49	-1,981.81	1,254.73	1,215.28	39.45	31.806	
8,500.00	8,366.54	8,392.21	8,369.27	31.89	25.94	97.90	223.45	-1,982.22	1,264.36	1,224.69	39.67	31.871	
8,550.00	8,394.62	8,417.09	8,394.15	31.96	26.02	97.67	223.44	-1,982.76	1,275.92	1,236.02	39.90	31.975	
8,600.00	8,418.99	8,444.94	8,421.99	32.03	26.12	97.40	223.44	-1,983.33	1,289.31	1,249.16	40.15	32.113	
8,650.00	8,439.47	8,468.30	8,445.34	32.11	26.19	96.79	223.46	-1,983.75	1,304.57	1,264.17	40.40	32.291	
8,700.00	8,455.89	8,487.00	8,464.04	32.19	26.26	95.79	223.47	-1,984.04	1,321.73	1,281.08	40.66	32.510	
8,750.00	8,468.13	8,500.91	8,477.95	32.29	26.30	94.36	223.49	-1,984.23	1,340.76	1,299.85	40.91	32.773	
8,800.00	8,476.11	8,509.50	8,486.54	32.40	26.33	92.47	223.50	-1,984.34	1,361.58	1,320.41	41.16	33.078	
8,850.00	8,479.75	8,513.36	8,490.40	32.54	26.35	90.14	223.50	-1,984.39	1,384.02	1,342.61	41.41	33.422	
8,866.81	8,480.00	8,513.60	8,490.64	32.59	26.35	89.26	223.50	-1,984.39	1,391.90	1,350.41	41.49	33.547	
8,900.00	8,480.00	8,513.54	8,490.58	32.70	26.35	89.26	223.50	-1,984.39	1,407.91	1,366.26	41.65	33.802	
9,000.00	8,480.00	8,513.36	8,490.40	33.09	26.35	89.25	223.50	-1,984.39	1,459.65	1,417.50	42.15	34.631	
9,100.00	8,480.00	8,513.18	8,490.22	33.57	26.35	89.24	223.50	-1,984.38	1,516.23	1,473.58	42.65	35.553	
9,200.00	8,480.00	8,513.00	8,490.04	34.14	26.34	89.23	223.50	-1,984.38	1,577.12	1,533.99	43.13	36.564	
9,300.00	8,480.00	8,512.83	8,489.87	34.79	26.34	89.22	223.50	-1,984.38	1,641.85	1,598.25	43.60	37.657	
9,400.00	8,480.00	8,512.65	8,489.69	35.50	26.34	89.21	223.50	-1,984.38	1,709.98	1,665.94	44.04	38.827	
9,500.00	8,480.00	8,512.48	8,489.52	36.28	26.34	89.21	223.50	-1,984.38	1,781.13	1,736.67	44.45	40.067	
9,600.00	8,480.00	8,512.31	8,489.35	37.11	26.34	89.20	223.50	-1,984.37	1,854.93	1,810.10	44.84	41.371	
9,700.00	8,480.00	8,512.14	8,489.18	38.01	26.34	89.19	223.50	-1,984.37	1,931.10	1,885.91	45.19	42.734	
9,800.00	8,480.00	8,511.97	8,489.01	38.95	26.34	89.18	223.50	-1,984.37	2,009.36	1,963.84	45.51	44.150	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	8,480.00	8,511.80	8,488.84	39.94	26.34	89.17	223.50	-1,984.37	2,089.47	2,043.66	45.81	45.612	
10,000.00	8,480.00	8,511.63	8,488.67	40.97	26.34	89.17	223.50	-1,984.36	2,171.23	2,125.15	46.08	47.116	
10,100.00	8,480.00	8,511.46	8,488.50	42.04	26.34	89.16	223.50	-1,984.36	2,254.46	2,208.13	46.33	48.657	
10,200.00	8,480.00	8,511.30	8,488.34	43.14	26.34	89.15	223.50	-1,984.36	2,339.01	2,292.45	46.56	50.231	
10,300.00	8,480.00	8,511.13	8,488.17	44.29	26.34	89.14	223.50	-1,984.36	2,424.74	2,377.96	46.78	51.836	
10,400.00	8,480.00	8,510.97	8,488.01	45.46	26.34	89.14	223.50	-1,984.36	2,511.51	2,464.54	46.97	53.467	
10,500.00	8,480.00	8,510.80	8,487.84	46.66	26.34	89.13	223.50	-1,984.35	2,599.24	2,552.09	47.15	55.124	
10,600.00	8,480.00	8,510.64	8,487.68	47.89	26.34	89.12	223.50	-1,984.35	2,687.83	2,640.51	47.32	56.803	
10,700.00	8,480.00	8,510.48	8,487.52	49.14	26.34	89.11	223.50	-1,984.35	2,777.19	2,729.72	47.47	58.499	
10,800.00	8,480.00	8,510.32	8,487.36	50.42	26.34	89.11	223.50	-1,984.35	2,867.26	2,819.64	47.62	60.215	
10,900.00	8,480.00	8,510.16	8,487.20	51.72	26.34	89.10	223.50	-1,984.35	2,957.96	2,910.21	47.75	61.948	
11,000.00	8,480.00	8,510.00	8,487.04	53.03	26.33	89.09	223.50	-1,984.34	3,049.25	3,001.37	47.87	63.695	
11,100.00	8,480.00	8,509.85	8,486.89	54.37	26.33	89.08	223.50	-1,984.34	3,141.06	3,093.07	47.99	65.454	
11,200.00	8,480.00	8,509.69	8,486.73	55.72	26.33	89.08	223.50	-1,984.34	3,233.36	3,185.27	48.10	67.225	
11,300.00	8,480.00	8,509.53	8,486.57	57.09	26.33	89.07	223.50	-1,984.34	3,326.11	3,277.91	48.20	69.007	
11,400.00	8,480.00	8,509.38	8,486.42	58.47	26.33	89.06	223.50	-1,984.34	3,419.26	3,370.97	48.30	70.797	
11,500.00	8,480.00	8,509.23	8,486.27	59.86	26.33	89.05	223.50	-1,984.34	3,512.80	3,464.41	48.39	72.596	
11,600.00	8,480.00	14,939.00	11,880.67	61.27	71.52	159.96	-3,115.39	-1,956.02	3,592.06	3,539.52	52.54	68.371	
11,700.00	8,480.00	15,006.26	11,881.66	62.69	72.47	159.96	-3,182.63	-1,955.45	3,593.65	3,540.21	53.45	67.236	
11,800.00	8,480.00	15,081.82	11,883.92	64.13	73.54	159.97	-3,258.16	-1,955.08	3,596.57	3,542.17	54.40	66.109	
11,900.00	8,480.00	15,220.87	11,887.05	65.57	75.53	159.97	-3,397.17	-1,954.52	3,598.82	3,543.17	55.65	64.668	
12,000.00	8,480.00	15,279.81	11,888.02	67.02	76.38	159.97	-3,456.10	-1,954.79	3,601.06	3,544.50	56.56	63.671	
12,100.00	8,480.00	15,317.00	11,889.15	68.48	76.92	159.96	-3,493.27	-1,955.46	3,604.98	3,547.62	57.37	62.842	
12,200.00	8,480.00	15,389.67	11,892.24	69.95	77.97	159.94	-3,565.85	-1,957.00	3,610.09	3,551.74	58.35	61.868	
12,300.00	8,480.00	15,477.60	11,896.74	71.42	79.25	159.92	-3,653.65	-1,958.92	3,615.97	3,556.56	59.42	60.859	
12,400.00	8,480.00	15,606.27	11,903.06	72.91	81.14	159.90	-3,782.13	-1,961.43	3,621.62	3,560.94	60.69	59.678	
12,500.00	8,480.00	15,705.84	11,908.32	74.40	82.61	159.92	-3,881.56	-1,961.28	3,626.87	3,565.08	61.80	58.692	
12,600.00	8,480.00	15,838.50	11,913.99	75.90	84.57	159.93	-4,014.10	-1,961.33	3,631.12	3,568.05	63.08	57.568	
12,700.00	8,480.00	15,921.60	11,917.63	77.40	85.81	159.93	-4,097.12	-1,961.45	3,635.63	3,571.50	64.13	56.696	
12,800.00	8,480.00	16,002.26	11,921.59	78.91	87.01	159.95	-4,177.68	-1,961.30	3,640.54	3,575.37	65.16	55.868	
12,900.00	8,480.00	16,074.00	11,925.75	80.43	88.09	159.96	-4,249.30	-1,961.22	3,646.24	3,580.08	66.16	55.113	
13,000.00	8,480.00	16,148.86	11,930.74	81.95	89.21	159.98	-4,324.00	-1,960.90	3,652.68	3,585.51	67.17	54.381	
13,100.00	8,480.00	16,311.81	11,940.94	83.47	91.67	160.02	-4,486.62	-1,959.96	3,658.82	3,590.22	68.61	53.330	
13,200.00	8,480.00	16,402.92	11,945.39	85.00	93.05	160.04	-4,577.61	-1,959.33	3,663.55	3,593.85	69.71	52.557	
13,300.00	8,480.00	16,643.00	11,955.45	86.54	96.71	160.21	-4,817.17	-1,949.25	3,665.78	3,594.36	71.43	51.322	
13,400.00	8,480.00	16,643.00	11,955.45	88.08	96.71	160.21	-4,817.17	-1,949.25	3,668.54	3,596.45	72.09	50.886	
13,500.00	8,480.00	16,643.00	11,955.45	89.62	96.71	160.21	-4,817.17	-1,949.25	3,674.02	3,601.27	72.74	50.507	
13,600.00	8,480.00	16,643.00	11,955.45	91.17	96.71	160.21	-4,817.17	-1,949.25	3,682.20	3,608.84	73.36	50.194	
13,700.00	8,480.00	16,643.00	11,955.45	92.72	96.71	160.21	-4,817.17	-1,949.25	3,693.08	3,619.12	73.96	49.935	
13,800.00	8,480.00	16,643.00	11,955.45	94.27	96.71	160.21	-4,817.17	-1,949.25	3,706.62	3,632.09	74.53	49.736	
13,900.00	8,480.00	16,643.00	11,955.45	95.83	96.71	160.21	-4,817.17	-1,949.25	3,722.80	3,647.73	75.07	49.590	
14,000.00	8,480.00	16,643.00	11,955.45	97.39	96.71	160.21	-4,817.17	-1,949.25	3,741.58	3,666.00	75.58	49.503	
14,100.00	8,480.00	16,643.00	11,955.45	98.95	96.71	160.21	-4,817.17	-1,949.25	3,762.93	3,686.87	76.07	49.468	
14,200.00	8,480.00	16,643.00	11,955.45	100.52	96.71	160.21	-4,817.17	-1,949.25	3,786.80	3,710.29	76.52	49.491	
14,300.00	8,480.00	16,643.00	11,955.45	102.09	96.71	160.21	-4,817.17	-1,949.25	3,813.15	3,736.21	76.94	49.562	
14,400.00	8,480.00	16,643.00	11,955.45	103.66	96.71	160.21	-4,817.17	-1,949.25	3,841.91	3,764.58	77.33	49.682	
14,500.00	8,480.00	16,643.00	11,955.45	105.23	96.71	160.21	-4,817.17	-1,949.25	3,873.05	3,795.35	77.70	49.847	
14,600.00	8,480.00	16,643.00	11,955.45	106.81	96.71	160.21	-4,817.17	-1,949.25	3,906.50	3,828.47	78.03	50.066	
14,700.00	8,480.00	16,643.00	11,955.45	108.39	96.71	160.21	-4,817.17	-1,949.25	3,942.20	3,863.87	78.33	50.326	
14,800.00	8,480.00	16,643.00	11,955.45	109.97	96.71	160.21	-4,817.17	-1,949.25	3,980.10	3,901.49	78.61	50.633	
14,900.00	8,480.00	16,643.00	11,955.45	111.55	96.71	160.21	-4,817.17	-1,949.25	4,020.12	3,941.27	78.85	50.982	
15,000.00	8,480.00	16,643.00	11,955.45	113.13	96.71	160.21	-4,817.17	-1,949.25	4,062.21	3,983.14	79.08	51.370	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,100.00	8,480.00	16,643.00	11,955.45	114.72	96.71	160.21	-4,817.17	-1,949.25	4,106.31	4,027.04	79.27	51.801	
15,200.00	8,480.00	16,643.00	11,955.45	116.31	96.71	160.21	-4,817.17	-1,949.25	4,152.35	4,072.91	79.44	52.270	
15,300.00	8,480.00	16,643.00	11,955.45	117.90	96.71	160.21	-4,817.17	-1,949.25	4,200.26	4,120.68	79.59	52.776	
15,400.00	8,480.00	16,643.00	11,955.45	119.49	96.71	160.21	-4,817.17	-1,949.25	4,249.99	4,170.28	79.71	53.316	
15,500.00	8,480.00	16,643.00	11,955.45	121.08	96.71	160.21	-4,817.17	-1,949.25	4,301.47	4,221.65	79.82	53.890	
15,600.00	8,480.00	16,643.00	11,955.45	122.68	96.71	160.21	-4,817.17	-1,949.25	4,354.64	4,274.73	79.91	54.496	
15,700.00	8,480.00	16,643.00	11,955.45	124.27	96.71	160.21	-4,817.17	-1,949.25	4,409.43	4,329.45	79.98	55.132	
15,800.00	8,480.00	16,643.00	11,955.45	125.87	96.71	160.21	-4,817.17	-1,949.25	4,465.79	4,385.76	80.03	55.800	
15,900.00	8,480.00	16,643.00	11,955.45	127.47	96.71	160.21	-4,817.17	-1,949.25	4,523.66	4,443.59	80.07	56.499	
16,000.00	8,480.00	16,643.00	11,955.45	129.07	96.71	160.21	-4,817.17	-1,949.25	4,582.98	4,502.89	80.09	57.226	
16,100.00	8,480.00	16,643.00	11,955.45	130.67	96.71	160.21	-4,817.17	-1,949.25	4,643.70	4,563.60	80.10	57.977	
16,200.00	8,480.00	16,643.00	11,955.45	132.27	96.71	160.21	-4,817.17	-1,949.25	4,705.76	4,625.66	80.09	58.753	
16,300.00	8,480.00	16,643.00	11,955.45	133.88	96.71	160.21	-4,817.17	-1,949.25	4,769.10	4,689.02	80.08	59.554	
16,400.00	8,480.00	16,643.00	11,955.45	135.48	96.71	160.21	-4,817.17	-1,949.25	4,833.69	4,753.63	80.06	60.378	
16,500.00	8,480.00	16,643.00	11,955.45	137.09	96.71	160.21	-4,817.17	-1,949.25	4,899.47	4,819.45	80.02	61.227	
16,600.00	8,480.00	16,643.00	11,955.45	138.70	96.71	160.21	-4,817.17	-1,949.25	4,966.39	4,886.41	79.98	62.097	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	26.15	26.15	0.00	0.03	-71.73	580.36	-1,757.57	1,850.91				
100.00	100.00	125.35	125.35	0.13	0.19	-71.72	580.58	-1,757.55	1,850.96	1,850.73	0.23	8,038.635	
200.00	200.00	221.52	221.52	0.48	0.53	-71.72	580.70	-1,757.60	1,851.05	1,850.33	0.72	2,583.799	
300.00	300.00	300.25	300.24	0.84	0.81	-71.70	581.43	-1,758.08	1,851.91	1,850.74	1.17	1,585.451	
400.00	400.00	379.26	379.23	1.20	1.09	-71.67	582.79	-1,759.31	1,853.93	1,852.30	1.62	1,142.264	
500.00	500.00	479.77	479.70	1.56	1.45	-71.65	584.32	-1,761.75	1,856.71	1,854.59	2.13	872.108	
600.00	600.00	591.55	591.45	1.92	1.85	-71.68	584.24	-1,764.33	1,858.88	1,856.22	2.66	698.694	
700.00	700.00	687.42	687.27	2.28	2.18	-71.76	582.22	-1,766.77	1,860.65	1,857.49	3.15	590.491	
800.00	800.00	871.81	871.28	2.63	2.83	-72.09	571.37	-1,768.44	1,858.99	1,855.13	3.86	481.616	
900.00	900.00	959.38	958.59	2.99	3.14	-72.30	564.64	-1,769.37	1,857.55	1,853.22	4.33	428.603	
1,000.00	1,000.00	1,049.14	1,048.17	3.35	3.46	-72.46	559.17	-1,769.65	1,856.01	1,851.20	4.81	385.519	
1,100.00	1,100.00	1,155.74	1,154.61	3.71	3.84	-72.65	553.19	-1,770.18	1,854.82	1,849.48	5.34	347.394	
1,200.00	1,200.00	1,245.23	1,243.99	4.07	4.16	-72.77	548.92	-1,770.15	1,853.39	1,847.57	5.82	318.451	
1,300.00	1,300.00	1,337.64	1,336.35	4.43	4.49	-72.87	545.59	-1,770.40	1,852.59	1,846.28	6.31	293.699	
1,400.00	1,400.00	1,425.00	1,423.68	4.79	4.68	-72.93	543.72	-1,770.75	1,852.35	1,845.65	6.69	276.790	
1,408.59	1,408.59	1,436.18	1,434.86	4.82	4.68	-72.94	543.52	-1,770.80	1,852.34	1,845.62	6.72	275.801	
1,500.00	1,500.00	1,507.12	1,505.79	5.14	4.70	-72.96	542.81	-1,771.44	1,852.85	1,845.89	6.97	265.966	
1,600.00	1,600.00	1,600.96	1,599.63	5.50	4.74	-72.96	543.34	-1,772.61	1,854.20	1,846.94	7.26	255.352	
1,700.00	1,700.00	1,698.36	1,697.00	5.86	4.80	-72.91	545.14	-1,773.60	1,855.72	1,848.15	7.58	244.933	
1,800.00	1,800.00	1,798.97	1,797.58	6.22	4.89	-72.86	547.42	-1,774.57	1,857.31	1,849.39	7.91	234.748	
1,900.00	1,900.00	1,902.23	1,900.81	6.58	5.01	-72.80	549.75	-1,775.45	1,858.79	1,850.52	8.27	224.824	
2,000.00	2,000.00	2,014.68	2,013.23	6.94	5.17	-72.72	552.32	-1,775.86	1,859.82	1,851.17	8.65	215.052	
2,100.00	2,099.99	2,121.55	2,120.07	7.29	5.34	6.16	555.02	-1,775.59	1,859.02	1,849.99	9.03	205.828	
2,200.00	2,199.91	2,224.67	2,223.15	7.63	5.52	6.27	557.91	-1,774.94	1,855.36	1,845.94	9.42	196.980	
2,300.00	2,299.69	2,324.32	2,322.75	7.98	5.71	6.40	560.89	-1,774.16	1,849.01	1,839.20	9.81	188.416	
2,400.00	2,399.27	2,423.70	2,422.07	8.34	5.92	6.55	564.11	-1,773.36	1,840.14	1,829.92	10.22	180.101	
2,500.00	2,498.57	2,543.81	2,542.12	8.69	6.19	6.74	567.40	-1,772.06	1,828.30	1,817.64	10.66	171.579	
2,600.00	2,597.54	2,652.72	2,651.00	9.06	6.45	6.89	569.12	-1,770.05	1,812.79	1,801.71	11.09	163.501	
2,616.45	2,613.78	2,665.52	2,663.80	9.12	6.48	6.92	569.31	-1,769.81	1,809.98	1,798.83	11.15	162.285	
2,700.00	2,696.24	2,732.78	2,731.05	9.43	6.64	6.98	569.72	-1,769.05	1,795.92	1,784.44	11.48	156.378	
2,800.00	2,794.94	2,824.87	2,823.15	9.81	6.87	7.03	569.37	-1,768.94	1,779.74	1,767.84	11.90	149.566	
2,900.00	2,893.64	2,933.31	2,931.59	10.19	7.14	7.10	569.28	-1,768.61	1,763.49	1,751.14	12.34	142.856	
3,000.00	2,992.34	3,055.38	3,053.63	10.58	7.47	7.23	570.15	-1,766.55	1,746.16	1,733.34	12.82	136.226	
3,100.00	3,091.04	3,153.31	3,151.53	10.97	7.75	7.34	570.77	-1,764.07	1,728.05	1,714.78	13.26	130.296	
3,200.00	3,189.74	3,236.18	3,234.39	11.37	7.98	7.39	570.04	-1,763.11	1,710.72	1,697.04	13.69	124.974	
3,300.00	3,288.45	3,335.87	3,333.99	11.77	8.26	7.32	565.99	-1,763.22	1,693.62	1,679.48	14.14	119.773	
3,400.00	3,387.15	3,406.00	3,403.95	12.17	8.46	7.21	561.26	-1,764.12	1,676.97	1,662.41	14.55	115.224	
3,500.00	3,485.85	3,500.00	3,497.57	12.58	8.73	6.98	553.56	-1,767.40	1,661.76	1,646.75	15.01	110.736	
3,600.00	3,584.55	3,558.11	3,555.38	12.98	8.91	6.82	548.60	-1,770.71	1,648.29	1,632.89	15.41	106.992	
3,700.00	3,683.25	3,640.17	3,636.98	13.39	9.16	6.60	542.08	-1,776.28	1,636.32	1,620.47	15.84	103.273	
3,800.00	3,781.95	3,727.66	3,724.09	13.80	9.43	6.40	536.57	-1,782.41	1,625.09	1,608.79	16.30	99.729	
3,900.00	3,880.65	3,816.38	3,812.47	14.22	9.70	6.25	532.52	-1,788.89	1,614.67	1,597.92	16.75	96.398	
4,000.00	3,979.35	3,924.06	3,919.60	14.63	10.05	6.00	525.93	-1,797.52	1,604.50	1,587.26	17.25	93.040	
4,100.00	4,078.05	4,037.61	4,032.20	15.05	10.42	5.57	514.48	-1,806.66	1,593.25	1,575.49	17.76	89.723	
4,200.00	4,176.75	4,141.08	4,134.80	15.47	10.77	5.17	503.74	-1,814.60	1,581.64	1,563.38	18.25	86.645	
4,300.00	4,275.45	4,231.94	4,225.11	15.89	11.08	4.89	496.18	-1,821.06	1,570.12	1,551.40	18.73	83.835	
4,400.00	4,374.15	4,366.10	4,358.68	16.31	11.53	4.53	486.70	-1,829.33	1,558.15	1,538.87	19.28	80.803	
4,500.00	4,472.85	4,481.37	4,473.68	16.73	11.92	4.31	480.26	-1,833.72	1,544.28	1,524.48	19.80	77.992	
4,600.00	4,571.55	4,585.46	4,577.53	17.15	12.27	4.10	473.98	-1,836.89	1,529.57	1,509.27	20.30	75.346	
4,700.00	4,670.25	4,676.52	4,668.24	17.57	12.58	3.84	466.80	-1,840.30	1,515.09	1,494.30	20.78	72.899	
4,800.00	4,768.95	4,768.52	4,759.89	18.00	12.90	3.58	459.76	-1,844.26	1,501.22	1,479.95	21.27	70.580	
4,900.00	4,867.65	4,865.25	4,856.25	18.42	13.24	3.30	452.53	-1,848.59	1,487.61	1,465.84	21.77	68.347	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,966.35	4,959.66	4,950.26	18.85	13.58	3.01	445.17	-1,853.07	1,474.22	1,451.96	22.26	66.230	
5,100.00	5,065.05	5,052.27	5,042.43	19.28	13.91	2.70	437.55	-1,857.95	1,461.27	1,438.51	22.75	64.227	
5,200.00	5,163.76	5,149.21	5,138.93	19.70	14.25	2.39	429.98	-1,863.31	1,448.71	1,425.46	23.25	62.302	
5,300.00	5,262.46	5,265.25	5,254.24	20.13	14.68	1.92	418.77	-1,869.74	1,435.83	1,412.04	23.79	60.350	
5,400.00	5,361.16	5,371.35	5,359.43	20.56	15.07	1.38	405.88	-1,874.87	1,421.76	1,397.45	24.32	58.468	
5,500.00	5,459.86	5,474.91	5,462.13	20.99	15.46	0.86	393.40	-1,879.57	1,407.56	1,382.72	24.84	56.667	
5,600.00	5,558.56	5,582.67	5,569.07	21.42	15.86	0.32	380.87	-1,883.76	1,392.92	1,367.55	25.37	54.908	
5,700.00	5,657.26	5,658.47	5,644.32	21.85	16.14	-0.06	372.33	-1,887.06	1,378.88	1,353.03	25.85	53.347	
5,800.00	5,755.96	5,748.84	5,734.01	22.28	16.48	-0.51	362.45	-1,891.98	1,366.06	1,339.71	26.35	51.843	
5,900.00	5,854.66	5,858.09	5,842.55	22.71	16.89	-1.02	351.40	-1,897.66	1,353.28	1,326.39	26.88	50.337	
6,000.00	5,953.36	5,963.02	5,946.94	23.14	17.28	-1.48	341.76	-1,902.15	1,339.82	1,312.41	27.41	48.881	
6,100.00	6,052.06	6,062.42	6,045.86	23.57	17.65	-1.91	332.89	-1,906.12	1,326.20	1,298.28	27.93	47.490	
6,200.00	6,150.76	6,161.16	6,144.16	24.01	18.02	-2.32	324.43	-1,909.84	1,312.49	1,284.05	28.44	46.148	
6,300.00	6,249.46	6,244.56	6,227.15	24.44	18.33	-2.70	317.07	-1,913.61	1,299.55	1,270.62	28.93	44.916	
6,400.00	6,348.16	6,332.42	6,314.47	24.87	18.66	-3.13	308.70	-1,918.56	1,287.68	1,258.25	29.43	43.750	
6,500.00	6,446.86	6,433.33	6,414.72	25.30	19.05	-3.65	298.84	-1,924.61	1,276.23	1,246.28	29.96	42.600	
6,600.00	6,545.56	6,535.11	6,515.82	25.74	19.44	-4.19	288.73	-1,930.52	1,264.68	1,234.19	30.49	41.483	
6,700.00	6,644.26	6,637.20	6,617.26	26.17	19.83	-4.74	278.63	-1,936.20	1,253.00	1,221.98	31.02	40.399	
6,804.31	6,747.22	6,744.96	6,724.44	26.62	20.24	-5.28	268.95	-1,941.65	1,240.51	1,208.94	31.57	39.297	
6,900.00	6,841.85	6,838.30	6,817.35	27.03	20.59	-5.71	261.25	-1,946.16	1,230.18	1,198.12	32.06	38.369	
7,000.00	6,941.09	6,929.80	6,908.48	27.44	20.94	-6.09	254.46	-1,950.84	1,222.36	1,189.79	32.56	37.537	
7,100.00	7,040.61	7,021.87	7,000.23	27.83	21.28	-6.40	248.95	-1,956.22	1,218.01	1,184.95	33.06	36.841	
7,200.00	7,140.36	7,125.87	7,103.92	28.20	21.66	-6.71	243.71	-1,962.21	1,216.32	1,182.74	33.58	36.227	
7,225.62	7,165.94	7,152.78	7,130.76	28.29	21.76	-6.78	242.39	-1,963.70	1,216.24	1,182.54	33.71	36.084	CC, ES
7,300.00	7,240.26	7,230.03	7,207.81	28.55	22.04	-6.99	238.68	-1,967.80	1,216.87	1,182.79	34.08	35.702	
7,400.00	7,340.24	7,328.58	7,306.14	28.88	22.40	-7.22	234.45	-1,972.86	1,219.86	1,185.28	34.58	35.277	
7,420.77	7,361.00	7,348.29	7,325.81	28.95	22.47	-86.07	233.65	-1,973.91	1,220.84	1,186.16	34.68	35.203	
7,500.00	7,440.24	7,435.10	7,412.43	29.20	22.78	-86.24	230.22	-1,978.37	1,224.71	1,189.63	35.08	34.912	
7,600.00	7,540.24	7,548.39	7,525.56	29.52	23.19	-86.44	226.30	-1,983.02	1,228.58	1,192.99	35.59	34.522	
7,700.00	7,640.24	7,675.39	7,652.50	29.84	23.62	-86.53	224.51	-1,986.01	1,230.85	1,194.75	36.10	34.097	
7,800.00	7,740.24	7,789.50	7,766.60	30.16	23.99	-86.50	225.12	-1,986.43	1,231.23	1,194.65	36.58	33.663	
7,900.00	7,840.24	7,894.23	7,871.33	30.48	24.32	-86.48	225.50	-1,986.28	1,231.10	1,194.06	37.04	33.234	
7,966.81	7,907.04	7,966.31	7,943.41	30.69	24.55	-86.49	225.45	-1,985.86	1,230.71	1,193.35	37.36	32.943	
8,000.00	7,940.22	8,002.27	7,979.37	30.79	24.66	94.15	225.37	-1,985.53	1,230.48	1,192.97	37.51	32.801	
8,050.00	7,989.94	8,056.06	8,033.16	30.94	24.83	94.42	225.19	-1,984.90	1,230.26	1,192.52	37.74	32.599	
8,075.50	8,015.08	8,083.21	8,060.31	31.01	24.92	94.63	225.07	-1,984.52	1,230.23	1,192.37	37.85	32.500	
8,100.00	8,039.04	8,109.10	8,086.19	31.08	25.00	94.87	224.94	-1,984.11	1,230.26	1,192.30	37.96	32.408	
8,150.00	8,087.13	8,158.82	8,135.90	31.21	25.16	95.45	224.64	-1,983.25	1,230.62	1,192.44	38.18	32.234	
8,200.00	8,133.85	8,206.24	8,183.32	31.33	25.32	96.13	224.36	-1,982.40	1,231.56	1,193.17	38.39	32.079	
8,250.00	8,178.84	8,244.74	8,221.80	31.45	25.44	96.72	224.13	-1,981.77	1,233.35	1,194.75	38.60	31.950	
8,300.00	8,221.77	8,279.11	8,256.17	31.55	25.56	97.22	223.93	-1,981.46	1,236.40	1,197.59	38.81	31.856	
8,350.00	8,262.30	8,312.00	8,289.07	31.65	25.67	97.65	223.73	-1,981.39	1,240.87	1,201.85	39.02	31.800	
8,400.00	8,300.13	8,340.93	8,318.00	31.74	25.76	97.91	223.58	-1,981.52	1,246.93	1,207.70	39.23	31.783	
8,450.00	8,334.96	8,367.87	8,344.93	31.82	25.85	98.01	223.49	-1,981.81	1,254.73	1,215.28	39.45	31.806	
8,500.00	8,366.54	8,392.21	8,369.27	31.89	25.94	97.90	223.45	-1,982.22	1,264.36	1,224.69	39.67	31.871	
8,550.00	8,394.62	8,417.09	8,394.15	31.96	26.02	97.67	223.44	-1,982.76	1,275.92	1,236.02	39.90	31.975	
8,600.00	8,418.99	8,444.94	8,421.99	32.03	26.12	97.40	223.44	-1,983.33	1,289.31	1,249.16	40.15	32.113	
8,650.00	8,439.47	8,468.30	8,445.34	32.11	26.19	96.79	223.46	-1,983.75	1,304.57	1,264.17	40.40	32.291	
8,700.00	8,455.89	8,487.00	8,464.04	32.19	26.26	95.79	223.47	-1,984.04	1,321.73	1,281.08	40.66	32.510	
8,750.00	8,468.13	8,500.91	8,477.95	32.29	26.30	94.36	223.49	-1,984.23	1,340.76	1,299.85	40.91	32.773	
8,800.00	8,476.11	8,509.50	8,486.54	32.40	26.33	92.47	223.50	-1,984.34	1,361.58	1,320.41	41.16	33.078	
8,850.00	8,479.75	8,513.36	8,490.40	32.54	26.35	90.14	223.50	-1,984.39	1,384.02	1,342.61	41.41	33.422	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,866.81	8,480.00	8,513.60	8,490.64	32.59	26.35	89.26	223.50	-1,984.39	1,391.90	1,350.41	41.49	33.547	
8,900.00	8,480.00	8,513.54	8,490.58	32.70	26.35	89.26	223.50	-1,984.39	1,407.91	1,366.26	41.65	33.802	
9,000.00	8,480.00	8,513.36	8,490.40	33.09	26.35	89.25	223.50	-1,984.39	1,459.65	1,417.50	42.15	34.631	
9,100.00	8,480.00	8,513.18	8,490.22	33.57	26.35	89.24	223.50	-1,984.38	1,516.23	1,473.58	42.65	35.553	
9,200.00	8,480.00	8,513.00	8,490.04	34.14	26.34	89.23	223.50	-1,984.38	1,577.12	1,533.99	43.13	36.564	
9,300.00	8,480.00	8,512.83	8,489.87	34.79	26.34	89.22	223.50	-1,984.38	1,641.85	1,598.25	43.60	37.657	
9,400.00	8,480.00	8,512.65	8,489.69	35.50	26.34	89.21	223.50	-1,984.38	1,709.98	1,665.94	44.04	38.827	
9,500.00	8,480.00	8,512.48	8,489.52	36.28	26.34	89.21	223.50	-1,984.38	1,781.13	1,736.67	44.45	40.067	
9,600.00	8,480.00	8,512.31	8,489.35	37.11	26.34	89.20	223.50	-1,984.37	1,854.93	1,810.10	44.84	41.371	
9,700.00	8,480.00	8,512.14	8,489.18	38.01	26.34	89.19	223.50	-1,984.37	1,931.10	1,885.91	45.19	42.734	
9,800.00	8,480.00	8,511.97	8,489.01	38.95	26.34	89.18	223.50	-1,984.37	2,009.36	1,963.84	45.51	44.150	
9,900.00	8,480.00	8,511.80	8,488.84	39.94	26.34	89.17	223.50	-1,984.37	2,089.47	2,043.66	45.81	45.612	
10,000.00	8,480.00	8,511.63	8,488.67	40.97	26.34	89.17	223.50	-1,984.36	2,171.23	2,125.15	46.08	47.116	
10,100.00	8,480.00	8,511.46	8,488.50	42.04	26.34	89.16	223.50	-1,984.36	2,254.46	2,208.13	46.33	48.657	
10,200.00	8,480.00	8,511.30	8,488.34	43.14	26.34	89.15	223.50	-1,984.36	2,339.01	2,292.45	46.56	50.231	
10,300.00	8,480.00	8,511.13	8,488.17	44.29	26.34	89.14	223.50	-1,984.36	2,424.74	2,377.96	46.78	51.836	
10,400.00	8,480.00	8,510.97	8,488.01	45.46	26.34	89.14	223.50	-1,984.36	2,511.51	2,464.54	46.97	53.467	
10,500.00	8,480.00	8,510.80	8,487.84	46.66	26.34	89.13	223.50	-1,984.35	2,599.24	2,552.09	47.15	55.124	
10,600.00	8,480.00	8,510.64	8,487.68	47.89	26.34	89.12	223.50	-1,984.35	2,687.83	2,640.51	47.32	56.803	
10,700.00	8,480.00	8,510.48	8,487.52	49.14	26.34	89.11	223.50	-1,984.35	2,777.19	2,729.72	47.47	58.499	
10,800.00	8,480.00	8,510.32	8,487.36	50.42	26.34	89.11	223.50	-1,984.35	2,867.26	2,819.64	47.62	60.215	
10,900.00	8,480.00	8,510.16	8,487.20	51.72	26.34	89.10	223.50	-1,984.35	2,957.96	2,910.21	47.75	61.948	
11,000.00	8,480.00	8,510.00	8,487.04	53.03	26.33	89.09	223.50	-1,984.34	3,049.25	3,001.37	47.87	63.695	
11,100.00	8,480.00	8,509.85	8,486.89	54.37	26.33	89.08	223.50	-1,984.34	3,141.06	3,093.07	47.99	65.454	
11,200.00	8,480.00	8,509.69	8,486.73	55.72	26.33	89.08	223.50	-1,984.34	3,233.36	3,185.27	48.10	67.225	
11,300.00	8,480.00	8,509.53	8,486.57	57.09	26.33	89.07	223.50	-1,984.34	3,326.11	3,277.91	48.20	69.007	
11,400.00	8,480.00	8,509.38	8,486.42	58.47	26.33	89.06	223.50	-1,984.34	3,419.26	3,370.97	48.30	70.797	
11,500.00	8,480.00	8,509.23	8,486.27	59.86	26.33	89.05	223.50	-1,984.34	3,512.80	3,464.41	48.39	72.596	
11,600.00	8,480.00	14,924.68	11,880.77	61.27	71.29	159.87	-3,102.33	-1,961.90	3,594.35	3,541.82	52.53	68.427	
11,700.00	8,480.00	15,024.66	11,882.68	62.69	72.71	159.88	-3,202.29	-1,961.02	3,596.18	3,542.60	53.58	67.119	
11,800.00	8,480.00	15,124.64	11,884.60	64.13	74.14	159.89	-3,302.25	-1,960.15	3,598.02	3,543.37	54.64	65.846	
11,900.00	8,480.00	15,224.63	11,886.51	65.57	75.57	159.90	-3,402.21	-1,959.27	3,599.85	3,544.14	55.72	64.610	
12,000.00	8,480.00	15,300.00	11,887.97	67.02	76.66	159.91	-3,477.57	-1,958.60	3,601.79	3,545.10	56.69	63.537	
12,100.00	8,480.00	15,352.95	11,889.65	68.48	77.42	159.91	-3,530.49	-1,958.14	3,604.88	3,547.32	57.56	62.626	
12,200.00	8,480.00	15,452.87	11,893.67	69.95	78.88	159.93	-3,630.32	-1,957.26	3,608.70	3,550.05	58.65	61.528	
12,300.00	8,480.00	15,552.79	11,897.70	71.42	80.34	159.95	-3,730.16	-1,956.38	3,612.52	3,552.78	59.75	60.465	
12,400.00	8,480.00	15,652.71	11,901.72	72.91	81.81	159.97	-3,829.99	-1,955.51	3,616.35	3,555.50	60.85	59.434	
12,500.00	8,480.00	15,752.62	11,905.74	74.40	83.29	159.99	-3,929.83	-1,954.63	3,620.17	3,558.22	61.95	58.433	
12,600.00	8,480.00	15,852.54	11,909.77	75.90	84.78	160.01	-4,029.66	-1,953.75	3,623.99	3,560.93	63.07	57.462	
12,700.00	8,480.00	15,952.46	11,913.79	77.40	86.27	160.03	-4,129.49	-1,952.87	3,627.82	3,563.63	64.19	56.519	
12,800.00	8,480.00	16,052.38	11,917.82	78.91	87.76	160.05	-4,229.33	-1,952.00	3,631.64	3,566.33	65.31	55.604	
12,900.00	8,480.00	16,152.30	11,921.84	80.43	89.26	160.07	-4,329.16	-1,951.12	3,635.47	3,569.02	66.44	54.715	
13,000.00	8,480.00	16,252.22	11,925.86	81.95	90.77	160.09	-4,429.00	-1,950.24	3,639.29	3,571.71	67.58	53.853	
13,100.00	8,480.00	16,352.14	11,929.89	83.47	92.28	160.11	-4,528.83	-1,949.37	3,643.12	3,574.40	68.72	53.015	
13,200.00	8,480.00	16,452.06	11,933.91	85.00	93.80	160.13	-4,628.66	-1,948.49	3,646.94	3,577.08	69.86	52.202	
13,300.00	8,480.00	16,551.97	11,937.93	86.54	95.32	160.15	-4,728.50	-1,947.61	3,650.77	3,579.76	71.01	51.411	
13,400.00	8,480.00	16,651.89	11,941.96	88.08	96.84	160.17	-4,828.33	-1,946.73	3,654.60	3,582.44	72.16	50.644	
13,500.00	8,480.00	16,751.81	11,945.98	89.62	98.37	160.19	-4,928.16	-1,945.86	3,658.43	3,585.11	73.32	49.898	
13,600.00	8,480.00	16,851.73	11,950.01	91.17	99.90	160.21	-5,028.00	-1,944.98	3,662.25	3,587.78	74.48	49.172	
13,700.00	8,480.00	16,951.65	11,954.03	92.72	101.44	160.23	-5,127.83	-1,944.10	3,666.08	3,590.44	75.64	48.467	
13,800.00	8,480.00	17,051.57	11,958.05	94.27	102.98	160.25	-5,227.67	-1,943.22	3,669.91	3,593.11	76.80	47.783	
13,900.00	8,480.00	17,151.49	11,962.08	95.83	104.52	160.27	-5,327.50	-1,942.35	3,673.74	3,595.77	77.97	47.118	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	8,480.00	17,251.41	11,966.10	97.39	106.07	160.29	-5,427.33	-1,941.47	3,677.57	3,598.43	79.14	46.470	
14,100.00	8,480.00	17,351.33	11,970.13	98.95	107.61	160.31	-5,527.17	-1,940.59	3,681.40	3,601.09	80.31	45.840	
14,200.00	8,480.00	17,451.24	11,974.15	100.52	109.17	160.33	-5,627.00	-1,939.71	3,685.23	3,603.75	81.49	45.226	
14,300.00	8,480.00	17,551.16	11,978.17	102.09	110.72	160.35	-5,726.84	-1,938.84	3,689.06	3,606.40	82.66	44.629	
14,400.00	8,480.00	17,651.08	11,982.20	103.66	112.28	160.37	-5,826.67	-1,937.96	3,692.89	3,609.06	83.84	44.048	
14,500.00	8,480.00	17,751.00	11,986.22	105.23	113.84	160.39	-5,926.50	-1,937.08	3,696.73	3,611.71	85.02	43.482	
14,600.00	8,480.00	17,850.92	11,990.24	106.81	115.40	160.41	-6,026.34	-1,936.21	3,700.56	3,614.36	86.20	42.931	
14,700.00	8,480.00	17,950.84	11,994.27	108.39	116.97	160.43	-6,126.17	-1,935.33	3,704.39	3,617.01	87.38	42.394	
14,800.00	8,480.00	18,050.76	11,998.29	109.97	118.54	160.45	-6,226.01	-1,934.45	3,708.22	3,619.66	88.57	41.870	
14,900.00	8,480.00	18,150.68	12,002.32	111.55	120.11	160.47	-6,325.84	-1,933.57	3,712.06	3,622.30	89.75	41.359	
15,000.00	8,480.00	18,250.59	12,006.34	113.13	121.68	160.48	-6,425.67	-1,932.70	3,715.89	3,624.95	90.94	40.861	
15,100.00	8,480.00	18,350.51	12,010.36	114.72	123.25	160.50	-6,525.51	-1,931.82	3,719.72	3,627.60	92.13	40.375	
15,200.00	8,480.00	18,450.43	12,014.39	116.31	124.83	160.52	-6,625.34	-1,930.94	3,723.56	3,630.24	93.32	39.901	
15,300.00	8,480.00	18,550.35	12,018.41	117.90	126.40	160.54	-6,725.18	-1,930.06	3,727.39	3,632.88	94.51	39.438	
15,400.00	8,480.00	18,650.27	12,022.43	119.49	127.98	160.56	-6,825.01	-1,929.19	3,731.23	3,635.52	95.71	38.986	
15,500.00	8,480.00	18,750.19	12,026.46	121.08	129.57	160.58	-6,924.84	-1,928.31	3,735.07	3,638.17	96.90	38.545	
15,600.00	8,480.00	18,850.11	12,030.48	122.68	131.15	160.60	-7,024.68	-1,927.43	3,738.90	3,640.81	98.09	38.115	
15,700.00	8,480.00	18,950.03	12,034.51	124.27	132.73	160.62	-7,124.51	-1,926.55	3,742.74	3,643.45	99.29	37.696	
15,800.00	8,480.00	19,018.95	12,037.39	125.87	133.83	160.63	-7,193.37	-1,925.95	3,746.81	3,646.50	100.31	37.352	
15,900.00	8,480.00	19,101.32	12,041.80	127.47	135.13	160.65	-7,275.62	-1,925.23	3,751.86	3,650.47	101.40	37.001	
16,000.00	8,480.00	19,201.18	12,047.19	129.07	136.72	160.68	-7,375.33	-1,924.35	3,757.00	3,654.41	102.59	36.622	
16,100.00	8,480.00	19,301.03	12,052.58	130.67	138.31	160.70	-7,475.03	-1,923.47	3,762.13	3,658.35	103.78	36.252	
16,200.00	8,480.00	19,400.88	12,057.97	132.27	139.90	160.73	-7,574.74	-1,922.60	3,767.26	3,662.29	104.97	35.890	
16,300.00	8,480.00	19,500.74	12,063.36	133.88	141.50	160.75	-7,674.44	-1,921.72	3,772.39	3,666.24	106.16	35.536	
16,400.00	8,480.00	19,600.59	12,068.75	135.48	143.09	160.78	-7,774.14	-1,920.85	3,777.53	3,670.18	107.35	35.190	
16,500.00	8,480.00	19,700.45	12,074.14	137.09	144.68	160.80	-7,873.85	-1,919.97	3,782.66	3,674.12	108.54	34.851	
16,600.00	8,480.00	19,800.30	12,079.53	138.70	146.28	160.83	-7,973.55	-1,919.09	3,787.80	3,678.07	109.73	34.520	
16,700.00	8,480.00	19,900.15	12,084.91	140.30	147.88	160.85	-8,073.26	-1,918.22	3,792.93	3,682.01	110.92	34.195	
16,800.00	8,480.00	20,000.01	12,090.30	141.91	149.47	160.88	-8,172.96	-1,917.34	3,798.07	3,685.96	112.11	33.877	
16,900.00	8,480.00	20,099.86	12,095.69	143.52	151.07	160.90	-8,272.67	-1,916.47	3,803.21	3,689.90	113.31	33.566	
17,000.00	8,480.00	20,199.72	12,101.08	145.13	152.67	160.93	-8,372.37	-1,915.59	3,808.35	3,693.85	114.50	33.261	
17,100.00	8,480.00	20,299.57	12,106.47	146.75	154.28	160.95	-8,472.08	-1,914.71	3,813.48	3,697.79	115.69	32.963	
17,200.00	8,480.00	20,399.43	12,111.86	148.36	155.88	160.98	-8,571.78	-1,913.84	3,818.62	3,701.74	116.88	32.671	
17,300.00	8,480.00	20,499.28	12,117.25	149.97	157.48	161.00	-8,671.49	-1,912.96	3,823.76	3,705.69	118.08	32.384	
17,400.00	8,480.00	20,599.13	12,122.64	151.59	159.08	161.03	-8,771.19	-1,912.08	3,828.91	3,709.64	119.27	32.104	
17,500.00	8,480.00	20,698.99	12,128.03	153.20	160.69	161.05	-8,870.90	-1,911.21	3,834.05	3,713.59	120.46	31.829	
17,600.00	8,480.00	20,798.84	12,133.42	154.82	162.30	161.08	-8,970.60	-1,910.33	3,839.19	3,717.54	121.65	31.560	
17,700.00	8,480.00	20,898.70	12,138.80	156.44	163.90	161.10	-9,070.31	-1,909.46	3,844.33	3,721.49	122.84	31.295	
17,800.00	8,480.00	20,998.55	12,144.19	158.05	165.51	161.13	-9,170.01	-1,908.58	3,849.48	3,725.45	124.03	31.036	
17,900.00	8,480.00	21,098.40	12,149.58	159.67	167.12	161.15	-9,269.72	-1,907.70	3,854.62	3,729.40	125.22	30.782	
18,000.00	8,480.00	21,198.26	12,154.97	161.29	168.73	161.18	-9,369.42	-1,906.83	3,859.77	3,733.35	126.42	30.532	
18,100.00	8,480.00	21,298.11	12,160.36	162.91	170.34	161.20	-9,469.13	-1,905.95	3,864.91	3,737.31	127.61	30.287	
18,200.00	8,480.00	21,397.97	12,165.75	164.53	171.95	161.22	-9,568.83	-1,905.07	3,870.06	3,741.26	128.80	30.047	
18,300.00	8,480.00	21,497.82	12,171.14	166.15	173.56	161.25	-9,668.54	-1,904.20	3,875.21	3,745.22	129.99	29.811	
18,400.00	8,480.00	21,597.68	12,176.53	167.77	175.17	161.27	-9,768.24	-1,903.32	3,880.36	3,749.17	131.18	29.580	
18,500.00	8,480.00	21,697.53	12,181.92	169.40	176.78	161.30	-9,867.95	-1,902.45	3,885.50	3,753.13	132.38	29.352	
18,600.00	8,480.00	21,769.80	12,185.90	171.02	177.95	161.31	-9,940.10	-1,901.81	3,890.83	3,757.43	133.40	29.166	
18,700.00	8,480.00	21,800.00	12,187.91	172.64	178.44	161.32	-9,970.24	-1,901.55	3,897.46	3,763.32	134.14	29.055	
18,800.00	8,480.00	21,868.00	12,193.61	174.26	179.54	161.35	-10,038.00	-1,900.95	3,905.46	3,770.35	135.10	28.907	
18,900.00	8,480.00	21,942.10	12,200.69	175.89	180.73	161.38	-10,111.75	-1,900.30	3,914.47	3,778.39	136.08	28.765	
19,000.00	8,480.00	22,041.64	12,210.21	177.51	182.34	161.42	-10,210.83	-1,899.43	3,923.58	3,786.34	137.24	28.589	
19,100.00	8,480.00	22,141.19	12,219.73	179.14	183.95	161.47	-10,309.91	-1,898.56	3,932.68	3,794.29	138.39	28.417	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,200.00	8,480.00	22,240.73	12,229.25	180.76	185.56	161.51	-10,409.00	-1,897.69	3,941.79	3,802.24	139.55	28.247	
19,300.00	8,480.00	22,340.27	12,238.76	182.39	187.17	161.55	-10,508.08	-1,896.82	3,950.90	3,810.19	140.70	28.080	
19,400.00	8,480.00	22,439.81	12,248.28	184.02	188.78	161.59	-10,607.16	-1,895.95	3,960.01	3,818.15	141.85	27.916	
19,500.00	8,480.00	22,539.35	12,257.80	185.64	190.40	161.64	-10,706.24	-1,895.08	3,969.12	3,826.11	143.01	27.755	
19,600.00	8,480.00	22,638.89	12,267.32	187.27	192.01	161.68	-10,805.32	-1,894.21	3,978.23	3,834.07	144.16	27.596	
19,700.00	8,480.00	22,738.44	12,276.83	188.90	193.62	161.72	-10,904.41	-1,893.33	3,987.35	3,842.04	145.31	27.440	
19,800.00	8,480.00	22,837.98	12,286.35	190.53	195.23	161.76	-11,003.49	-1,892.46	3,996.47	3,850.01	146.46	27.286	
19,899.80	8,480.00	22,937.32	12,295.85	192.15	196.84	161.80	-11,102.37	-1,891.59	4,005.57	3,857.96	147.61	27.136 SF	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	16.00	16.00	0.00	0.00	-72.07	580.03	-1,792.44	1,883.98				
100.00	100.00	100.00	99.98	0.13	0.16	-72.05	580.89	-1,793.27	1,885.19	1,885.00	0.19	9,930.981	
200.00	200.00	202.81	202.77	0.48	0.50	-72.03	582.04	-1,794.66	1,886.83	1,886.14	0.69	2,722.660	
300.00	300.00	300.00	299.95	0.84	0.84	-72.03	582.58	-1,795.98	1,888.29	1,887.10	1.19	1,586.380	
400.00	400.00	384.08	384.01	1.20	1.14	-72.05	582.36	-1,797.63	1,890.08	1,888.43	1.66	1,141.414	
500.00	500.00	474.51	474.41	1.56	1.47	-72.07	582.34	-1,799.94	1,892.51	1,890.38	2.14	884.967	
600.00	600.00	554.07	553.92	1.92	1.75	-72.11	582.01	-1,802.97	1,895.97	1,893.38	2.60	730.536	
700.00	700.00	649.29	649.05	2.28	2.10	-72.16	581.69	-1,806.96	1,899.86	1,896.77	3.09	614.770	
800.00	800.00	784.06	783.72	2.63	2.59	-72.22	581.14	-1,811.85	1,903.25	1,899.56	3.68	516.664	
900.00	900.00	886.36	885.98	2.99	2.96	-72.27	580.30	-1,814.65	1,905.61	1,901.42	4.20	454.104	
1,000.00	1,000.00	996.83	996.41	3.35	3.35	-72.33	578.97	-1,817.15	1,907.39	1,902.66	4.73	403.336	
1,100.00	1,100.00	1,093.99	1,093.54	3.71	3.70	-72.39	577.53	-1,819.19	1,908.94	1,903.72	5.23	365.140	
1,200.00	1,200.00	1,196.03	1,195.54	4.07	4.07	-72.46	575.89	-1,821.69	1,910.80	1,905.06	5.74	332.887	
1,300.00	1,300.00	1,301.73	1,301.22	4.43	4.45	-72.50	574.99	-1,823.59	1,912.26	1,906.00	6.26	305.397	
1,400.00	1,400.00	1,407.33	1,406.80	4.79	4.65	-72.53	574.48	-1,825.09	1,913.47	1,906.81	6.66	287.336	
1,500.00	1,500.00	1,513.44	1,512.91	5.14	4.71	-72.54	574.49	-1,826.05	1,914.34	1,907.38	6.96	275.068	
1,600.00	1,600.00	1,617.17	1,616.64	5.50	4.76	-72.55	574.36	-1,826.75	1,914.95	1,907.68	7.27	263.579	
1,700.00	1,700.00	1,722.01	1,721.48	5.86	4.85	-72.55	574.26	-1,827.20	1,915.32	1,907.73	7.60	252.180	
1,800.00	1,800.00	1,822.36	1,821.82	6.22	4.96	-72.55	574.27	-1,827.45	1,915.56	1,907.62	7.94	241.215	
1,900.00	1,900.00	1,921.97	1,921.43	6.58	5.09	-72.55	574.39	-1,827.70	1,915.84	1,907.54	8.30	230.734	
2,000.00	2,000.00	2,023.67	2,023.14	6.94	5.24	-72.55	574.45	-1,827.89	1,916.03	1,907.35	8.68	220.714	
2,100.00	2,099.99	2,123.00	2,122.46	7.29	5.40	6.26	574.81	-1,827.99	1,914.94	1,905.88	9.06	211.327	
2,200.00	2,199.91	2,224.35	2,223.81	7.63	5.59	6.29	575.34	-1,828.02	1,911.22	1,901.77	9.45	202.274	
2,300.00	2,299.69	2,325.77	2,325.23	7.98	5.79	6.35	575.93	-1,827.92	1,904.80	1,894.96	9.85	193.458	
2,400.00	2,399.27	2,426.33	2,425.79	8.34	6.00	6.42	576.79	-1,827.68	1,895.73	1,885.48	10.25	184.923	
2,500.00	2,498.57	2,527.23	2,526.68	8.69	6.22	6.51	577.72	-1,827.34	1,884.02	1,873.35	10.67	176.648	
2,600.00	2,597.54	2,613.47	2,612.92	9.06	6.43	6.60	578.30	-1,827.27	1,869.90	1,858.83	11.07	168.962	
2,616.45	2,613.78	2,626.69	2,626.14	9.12	6.46	6.61	578.28	-1,827.37	1,867.42	1,856.29	11.13	167.740	
2,700.00	2,696.24	2,691.50	2,690.94	9.43	6.62	6.62	577.75	-1,828.36	1,855.08	1,843.62	11.46	161.847	
2,800.00	2,794.94	2,774.95	2,774.34	9.81	6.83	6.60	576.42	-1,830.80	1,841.37	1,829.50	11.87	155.140	
2,900.00	2,893.64	2,882.35	2,881.68	10.19	7.12	6.59	574.93	-1,834.03	1,827.83	1,815.51	12.32	148.375	
3,000.00	2,992.34	2,979.13	2,978.42	10.58	7.38	6.58	573.47	-1,836.43	1,813.74	1,800.98	12.76	142.159	
3,100.00	3,091.04	3,054.11	3,053.32	10.97	7.59	6.53	571.46	-1,839.25	1,800.56	1,787.39	13.17	136.735	
3,200.00	3,189.74	3,122.00	3,121.03	11.37	7.78	6.45	568.71	-1,843.32	1,789.02	1,775.45	13.57	131.854	
3,300.00	3,288.45	3,184.76	3,183.47	11.77	7.97	6.33	565.34	-1,848.58	1,779.37	1,765.41	13.96	127.456	
3,400.00	3,387.15	3,252.25	3,250.42	12.17	8.18	6.16	560.82	-1,855.90	1,771.70	1,757.34	14.36	123.363	
3,500.00	3,485.85	3,326.91	3,324.21	12.58	8.42	5.92	554.91	-1,865.53	1,765.68	1,750.90	14.78	119.477	
3,600.00	3,584.55	3,420.22	3,416.25	12.98	8.73	5.60	546.79	-1,878.61	1,760.59	1,745.36	15.24	115.530	
3,700.00	3,683.25	3,529.37	3,524.05	13.39	9.10	5.24	538.10	-1,893.30	1,755.22	1,739.48	15.74	111.507	
3,800.00	3,781.95	3,594.00	3,587.91	13.80	9.32	5.04	533.17	-1,901.94	1,750.22	1,734.08	16.14	108.425	
3,900.00	3,880.65	3,689.00	3,681.42	14.22	9.67	4.70	525.32	-1,916.72	1,746.93	1,730.31	16.62	105.116	
4,000.00	3,979.35	3,734.76	3,726.22	14.63	9.84	4.51	521.28	-1,925.09	1,745.75	1,728.78	16.97	102.870	
4,000.06	3,979.41	3,734.80	3,726.26	14.63	9.84	4.51	521.28	-1,925.09	1,745.75	1,728.78	16.97	102.868	
4,100.00	4,078.05	3,803.18	3,792.99	15.05	10.10	4.23	515.26	-1,938.76	1,746.74	1,729.37	17.38	100.522	
4,200.00	4,176.75	3,883.11	3,870.81	15.47	10.42	3.90	508.61	-1,955.73	1,749.19	1,731.38	17.82	98.182	
4,300.00	4,275.45	3,972.93	3,958.17	15.89	10.79	3.55	501.59	-1,975.42	1,752.53	1,734.24	18.29	95.838	
4,400.00	4,374.15	4,092.80	4,074.80	16.31	11.29	3.07	492.32	-2,001.50	1,755.85	1,737.00	18.85	93.124	
4,500.00	4,472.85	4,314.05	4,291.24	16.73	12.21	2.15	471.34	-2,042.06	1,756.03	1,736.32	19.72	89.070	
4,600.00	4,571.55	4,481.74	4,457.36	17.15	12.85	1.63	458.74	-2,060.90	1,748.76	1,728.37	20.39	85.786	
4,700.00	4,670.25	4,577.34	4,552.36	17.57	13.21	1.40	453.20	-2,070.10	1,740.79	1,719.91	20.88	83.369	
4,800.00	4,768.95	4,690.20	4,664.59	18.00	13.63	1.16	447.77	-2,080.77	1,732.92	1,711.50	21.41	80.929	
4,900.00	4,867.65	4,797.29	4,771.22	18.42	14.02	0.97	443.25	-2,089.54	1,723.90	1,701.97	21.93	78.604	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,966.35	4,885.65	4,859.15	18.85	14.35	0.78	439.07	-2,097.11	1,715.19	1,692.78	22.41	76.528	
5,100.00	5,065.05	4,999.87	4,972.78	19.28	14.77	0.53	433.39	-2,107.18	1,706.73	1,683.78	22.95	74.368	
5,200.00	5,163.76	5,079.46	5,051.93	19.70	15.07	0.34	428.92	-2,114.33	1,698.27	1,674.85	23.42	72.526	
5,300.00	5,262.46	5,149.33	5,121.24	20.13	15.35	0.13	423.97	-2,121.62	1,691.06	1,667.20	23.86	70.874	
5,400.00	5,361.16	5,199.00	5,170.33	20.56	15.55	-0.05	419.73	-2,127.87	1,686.02	1,661.78	24.25	69.540	
5,500.00	5,459.86	5,294.00	5,263.79	20.99	15.95	-0.46	410.48	-2,142.12	1,682.91	1,658.15	24.75	67.983	
5,600.00	5,558.56	5,366.93	5,335.29	21.42	16.27	-0.79	402.85	-2,154.30	1,681.28	1,656.08	25.20	66.715	
5,700.00	5,657.26	5,463.58	5,429.96	21.85	16.69	-1.25	392.48	-2,170.77	1,680.22	1,654.50	25.72	65.330	
5,800.00	5,755.96	5,569.86	5,534.07	22.28	17.17	-1.76	380.92	-2,188.75	1,679.14	1,652.87	26.27	63.921	
5,900.00	5,854.66	5,663.52	5,625.83	22.71	17.58	-2.21	370.64	-2,204.50	1,678.04	1,651.26	26.78	62.662	
6,000.00	5,953.36	5,762.00	5,722.25	23.14	18.03	-2.69	359.72	-2,221.28	1,677.28	1,649.97	27.31	61.424	
6,100.00	6,052.06	5,891.17	5,848.98	23.57	18.60	-3.29	345.92	-2,242.05	1,675.73	1,647.81	27.93	60.000	
6,200.00	6,150.76	6,013.45	5,969.36	24.01	19.13	-3.83	333.61	-2,259.67	1,672.69	1,644.17	28.52	58.642	
6,300.00	6,249.46	6,123.70	6,077.98	24.44	19.61	-4.34	321.85	-2,274.44	1,668.69	1,639.61	29.08	57.378	
6,400.00	6,348.16	6,232.94	6,185.64	24.87	20.08	-4.85	309.80	-2,288.52	1,664.26	1,634.62	29.64	56.152	
6,500.00	6,446.86	6,331.00	6,282.31	25.30	20.50	-5.32	298.97	-2,300.86	1,659.65	1,629.48	30.16	55.021	
6,600.00	6,545.56	6,428.32	6,378.23	25.74	20.91	-5.79	288.11	-2,313.23	1,655.25	1,624.56	30.69	53.939	
6,700.00	6,644.26	6,537.98	6,486.50	26.17	21.38	-6.27	277.06	-2,326.62	1,650.56	1,619.31	31.24	52.830	
6,804.31	6,747.22	6,633.24	6,580.76	26.62	21.78	-6.63	269.47	-2,338.14	1,645.79	1,614.02	31.77	51.809	
6,900.00	6,841.85	6,721.93	6,668.55	27.03	22.14	-6.92	263.45	-2,349.25	1,643.16	1,610.91	32.25	50.955	
6,966.45	6,907.76	6,794.96	6,740.85	27.30	22.45	-7.15	258.68	-2,358.33	1,642.71	1,610.10	32.61	50.375	CC
7,000.00	6,941.09	6,835.49	6,780.99	27.44	22.61	-7.27	256.03	-2,363.21	1,642.80	1,609.99	32.80	50.082	ES
7,100.00	7,040.61	6,956.00	6,900.50	27.83	23.10	-7.63	248.28	-2,376.61	1,643.90	1,610.53	33.37	49.265	
7,200.00	7,140.36	7,074.19	7,017.91	28.20	23.57	-7.94	241.28	-2,388.36	1,646.48	1,612.56	33.92	48.540	
7,300.00	7,240.26	7,164.49	7,107.68	28.55	23.92	-8.14	236.73	-2,396.97	1,651.33	1,616.93	34.40	48.001	
7,400.00	7,340.24	7,260.74	7,203.36	28.88	24.30	-8.33	232.69	-2,406.60	1,659.29	1,624.40	34.89	47.553	
7,420.77	7,361.00	7,282.74	7,225.23	28.95	24.39	-87.17	231.75	-2,408.81	1,661.28	1,626.28	35.00	47.467	
7,500.00	7,440.24	7,379.42	7,321.37	29.20	24.76	-87.33	227.45	-2,417.96	1,668.61	1,633.19	35.43	47.099	
7,600.00	7,540.24	7,501.15	7,442.62	29.52	25.22	-87.50	223.03	-2,427.83	1,676.52	1,640.56	35.96	46.620	
7,700.00	7,640.24	7,611.71	7,552.86	29.84	25.62	-87.59	220.53	-2,435.81	1,683.64	1,647.18	36.47	46.168	
7,800.00	7,740.24	7,734.24	7,675.15	30.16	26.06	-87.65	219.10	-2,443.43	1,689.83	1,652.84	36.99	45.684	
7,900.00	7,840.24	7,867.38	7,808.15	30.48	26.52	-87.71	217.70	-2,449.33	1,694.20	1,656.68	37.52	45.156	
7,966.81	7,907.04	7,948.67	7,889.39	30.69	26.79	-87.75	216.67	-2,451.85	1,696.24	1,658.38	37.86	44.806	
8,000.00	7,940.22	7,991.38	7,932.09	30.79	26.93	92.77	216.41	-2,452.86	1,697.06	1,659.03	38.02	44.631	
8,050.00	7,989.94	8,049.84	7,990.54	30.94	27.12	92.86	216.58	-2,453.85	1,698.16	1,659.89	38.26	44.382	
8,100.00	8,039.04	8,100.17	8,040.86	31.08	27.28	93.07	217.06	-2,454.57	1,699.41	1,660.92	38.49	44.153	
8,150.00	8,087.13	8,149.22	8,089.91	31.21	27.43	93.39	217.74	-2,455.24	1,700.94	1,662.23	38.71	43.937	
8,200.00	8,133.85	8,196.78	8,137.46	31.33	27.58	93.78	218.35	-2,455.85	1,702.87	1,663.93	38.93	43.737	
8,250.00	8,178.84	8,244.27	8,184.94	31.45	27.72	94.25	218.89	-2,456.43	1,705.28	1,666.12	39.16	43.552	
8,300.00	8,221.77	8,290.91	8,231.57	31.55	27.87	94.76	219.31	-2,456.90	1,708.26	1,668.88	39.38	43.381	
8,350.00	8,262.30	8,335.74	8,276.40	31.65	28.01	95.28	219.63	-2,457.25	1,711.94	1,672.34	39.60	43.228	
8,400.00	8,300.13	8,378.23	8,318.89	31.74	28.14	95.76	219.87	-2,457.47	1,716.48	1,676.65	39.83	43.095	
8,450.00	8,334.96	8,417.17	8,357.82	31.82	28.26	96.14	220.04	-2,457.58	1,722.03	1,681.97	40.06	42.986	
8,500.00	8,366.54	8,451.96	8,392.62	31.89	28.36	96.36	220.17	-2,457.60	1,728.77	1,688.47	40.29	42.903	
8,550.00	8,394.62	8,482.90	8,423.55	31.96	28.45	96.40	220.28	-2,457.56	1,736.83	1,696.29	40.54	42.846	
8,600.00	8,418.99	8,509.04	8,449.70	32.03	28.53	96.20	220.37	-2,457.49	1,746.33	1,705.54	40.78	42.818	SF
8,650.00	8,439.47	8,530.10	8,470.76	32.11	28.59	95.72	220.44	-2,457.41	1,757.36	1,716.32	41.04	42.821	
8,700.00	8,455.89	8,546.96	8,487.62	32.19	28.64	94.96	220.50	-2,457.35	1,769.95	1,728.65	41.30	42.855	
8,750.00	8,468.13	8,559.48	8,500.14	32.29	28.68	93.89	220.54	-2,457.30	1,784.10	1,742.53	41.57	42.921	
8,800.00	8,476.11	8,567.57	8,508.23	32.40	28.70	92.52	220.57	-2,457.26	1,799.75	1,757.91	41.84	43.018	
8,850.00	8,479.75	8,571.17	8,511.83	32.54	28.71	90.82	220.58	-2,457.24	1,816.79	1,774.68	42.11	43.148	
8,866.81	8,480.00	8,571.37	8,512.03	32.59	28.71	90.19	220.58	-2,457.24	1,822.81	1,780.61	42.20	43.199	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	8,480.00	8,571.25	8,511.91	32.70	28.71	90.18	220.58	-2,457.24	1,835.10	1,792.72	42.38	43.305	
9,000.00	8,480.00	8,570.90	8,511.56	33.09	28.71	90.17	220.58	-2,457.25	1,875.18	1,832.23	42.95	43.663	
9,100.00	8,480.00	8,570.55	8,511.20	33.57	28.71	90.16	220.58	-2,457.25	1,919.64	1,876.10	43.54	44.084	
9,200.00	8,480.00	8,570.19	8,510.85	34.14	28.71	90.15	220.58	-2,457.25	1,968.18	1,924.03	44.15	44.574	
9,300.00	8,480.00	8,569.84	8,510.50	34.79	28.71	90.13	220.58	-2,457.25	2,020.51	1,975.75	44.77	45.136	
9,400.00	8,480.00	8,569.49	8,510.14	35.50	28.70	90.12	220.57	-2,457.25	2,076.34	2,030.97	45.37	45.768	
9,500.00	8,480.00	8,569.13	8,509.79	36.28	28.70	90.11	220.57	-2,457.25	2,135.39	2,089.44	45.95	46.470	
9,600.00	8,480.00	8,568.78	8,509.44	37.11	28.70	90.10	220.57	-2,457.26	2,197.41	2,150.90	46.52	47.240	
9,700.00	8,480.00	8,568.43	8,509.08	38.01	28.70	90.09	220.57	-2,457.26	2,262.16	2,215.10	47.06	48.074	
9,800.00	8,480.00	8,568.07	8,508.73	38.95	28.70	90.08	220.57	-2,457.26	2,329.39	2,281.82	47.57	48.968	
9,900.00	8,480.00	8,567.72	8,508.38	39.94	28.70	90.06	220.57	-2,457.26	2,398.91	2,350.86	48.05	49.920	
10,000.00	8,480.00	8,567.37	8,508.03	40.97	28.70	90.05	220.57	-2,457.26	2,470.53	2,422.02	48.51	50.927	
10,100.00	8,480.00	8,567.02	8,507.67	42.04	28.70	90.04	220.57	-2,457.26	2,544.06	2,495.12	48.94	51.986	
10,200.00	8,480.00	8,566.66	8,507.32	43.14	28.70	90.03	220.56	-2,457.26	2,619.34	2,570.00	49.34	53.090	
10,300.00	8,480.00	8,566.31	8,506.97	44.29	28.70	90.02	220.56	-2,457.27	2,696.23	2,646.52	49.71	54.236	
10,400.00	8,480.00	8,565.96	8,506.62	45.46	28.69	90.00	220.56	-2,457.27	2,774.59	2,724.53	50.06	55.421	
10,500.00	8,480.00	8,565.61	8,506.26	46.66	28.69	89.99	220.56	-2,457.27	2,854.31	2,803.92	50.39	56.642	
10,600.00	8,480.00	8,565.25	8,505.91	47.89	28.69	89.98	220.56	-2,457.27	2,935.27	2,884.57	50.70	57.895	
10,700.00	8,480.00	8,564.90	8,505.56	49.14	28.69	89.97	220.56	-2,457.27	3,017.37	2,966.38	50.99	59.179	
10,800.00	8,480.00	8,564.55	8,505.21	50.42	28.69	89.96	220.56	-2,457.27	3,100.52	3,049.27	51.26	60.491	
10,900.00	8,480.00	8,564.20	8,504.85	51.72	28.69	89.94	220.56	-2,457.28	3,184.64	3,133.14	51.51	61.828	
11,000.00	8,480.00	8,563.84	8,504.50	53.03	28.69	89.93	220.56	-2,457.28	3,269.66	3,217.92	51.74	63.191	
11,100.00	8,480.00	8,563.49	8,504.15	54.37	28.69	89.92	220.55	-2,457.28	3,355.50	3,303.54	51.96	64.573	
11,200.00	8,480.00	8,563.14	8,503.80	55.72	28.69	89.91	220.55	-2,457.28	3,442.11	3,389.94	52.17	65.979	
11,300.00	8,480.00	8,562.79	8,503.45	57.09	28.69	89.90	220.55	-2,457.28	3,529.42	3,477.06	52.36	67.402	
11,400.00	8,480.00	8,562.44	8,503.09	58.47	28.68	89.89	220.55	-2,457.28	3,617.39	3,564.85	52.55	68.843	
11,500.00	8,480.00	8,562.08	8,502.74	59.86	28.68	89.87	220.55	-2,457.28	3,705.98	3,653.26	52.72	70.299	
11,600.00	8,480.00	8,561.73	8,502.39	61.27	28.68	89.86	220.55	-2,457.29	3,795.12	3,742.25	52.88	71.769	
11,700.00	8,480.00	8,561.38	8,502.04	62.69	28.68	89.85	220.55	-2,457.29	3,884.80	3,831.77	53.03	73.253	
11,800.00	8,480.00	8,561.03	8,501.69	64.13	28.68	89.84	220.55	-2,457.29	3,974.97	3,921.79	53.18	74.748	
11,900.00	8,480.00	8,560.68	8,501.33	65.57	28.68	89.83	220.54	-2,457.29	4,065.60	4,012.29	53.32	76.255	
12,000.00	8,480.00	8,560.33	8,500.98	67.02	28.68	89.81	220.54	-2,457.29	4,156.66	4,103.21	53.45	77.772	
12,100.00	8,480.00	8,559.97	8,500.63	68.48	28.68	89.80	220.54	-2,457.29	4,248.12	4,194.55	53.57	79.299	
12,200.00	8,480.00	8,559.62	8,500.28	69.95	28.68	89.79	220.54	-2,457.30	4,339.96	4,286.27	53.69	80.834	
12,300.00	8,480.00	8,559.27	8,499.93	71.42	28.68	89.78	220.54	-2,457.30	4,432.15	4,378.35	53.80	82.377	
12,400.00	8,480.00	8,558.92	8,499.58	72.91	28.67	89.77	220.54	-2,457.30	4,524.68	4,470.76	53.91	83.928	
12,500.00	8,480.00	8,558.57	8,499.23	74.40	28.67	89.75	220.54	-2,457.30	4,617.51	4,563.49	54.02	85.485	
12,600.00	8,480.00	8,558.22	8,498.87	75.90	28.67	89.74	220.54	-2,457.30	4,710.64	4,656.52	54.12	87.049	
12,700.00	8,480.00	8,557.87	8,498.52	77.40	28.67	89.73	220.53	-2,457.30	4,804.04	4,749.83	54.21	88.618	
12,800.00	8,480.00	8,557.52	8,498.17	78.91	28.67	89.72	220.53	-2,457.30	4,897.71	4,843.40	54.30	90.193	
12,900.00	8,480.00	8,557.16	8,497.82	80.43	28.67	89.71	220.53	-2,457.31	4,991.62	4,937.23	54.39	91.772	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	16.00	16.00	0.00	0.00	-72.07	580.03	-1,792.44	1,883.98				
100.00	100.00	100.00	99.98	0.13	0.16	-72.05	580.89	-1,793.27	1,885.19	1,885.00	0.19	9,930.981	
200.00	200.00	202.81	202.77	0.48	0.50	-72.03	582.04	-1,794.66	1,886.83	1,886.14	0.69	2,722.660	
300.00	300.00	300.00	299.95	0.84	0.84	-72.03	582.58	-1,795.98	1,888.29	1,887.10	1.19	1,586.380	
400.00	400.00	384.08	384.01	1.20	1.14	-72.05	582.36	-1,797.63	1,890.08	1,888.43	1.66	1,141.414	
500.00	500.00	474.51	474.41	1.56	1.47	-72.07	582.34	-1,799.94	1,892.51	1,890.38	2.14	884.967	
600.00	600.00	554.07	553.92	1.92	1.75	-72.11	582.01	-1,802.97	1,895.97	1,893.38	2.60	730.536	
700.00	700.00	649.29	649.05	2.28	2.10	-72.16	581.69	-1,806.96	1,899.86	1,896.77	3.09	614.770	
800.00	800.00	784.06	783.72	2.63	2.59	-72.22	581.14	-1,811.85	1,903.25	1,899.56	3.68	516.664	
900.00	900.00	886.36	885.98	2.99	2.96	-72.27	580.30	-1,814.65	1,905.61	1,901.42	4.20	454.104	
1,000.00	1,000.00	996.83	996.41	3.35	3.35	-72.33	578.97	-1,817.15	1,907.39	1,902.66	4.73	403.336	
1,100.00	1,100.00	1,093.99	1,093.54	3.71	3.70	-72.39	577.53	-1,819.19	1,908.94	1,903.72	5.23	365.140	
1,200.00	1,200.00	1,196.03	1,195.54	4.07	4.07	-72.46	575.89	-1,821.69	1,910.80	1,905.06	5.74	332.887	
1,300.00	1,300.00	1,301.73	1,301.22	4.43	4.45	-72.50	574.99	-1,823.59	1,912.26	1,906.00	6.26	305.397	
1,400.00	1,400.00	1,407.33	1,406.80	4.79	4.65	-72.53	574.48	-1,825.09	1,913.47	1,906.81	6.66	287.336	
1,500.00	1,500.00	1,513.44	1,512.91	5.14	4.71	-72.54	574.49	-1,826.05	1,914.34	1,907.38	6.96	275.068	
1,600.00	1,600.00	1,617.17	1,616.64	5.50	4.76	-72.55	574.36	-1,826.75	1,914.95	1,907.68	7.27	263.579	
1,700.00	1,700.00	1,722.01	1,721.48	5.86	4.85	-72.55	574.26	-1,827.20	1,915.32	1,907.73	7.60	252.180	
1,800.00	1,800.00	1,822.36	1,821.82	6.22	4.96	-72.55	574.27	-1,827.45	1,915.56	1,907.62	7.94	241.215	
1,900.00	1,900.00	1,921.97	1,921.43	6.58	5.09	-72.55	574.39	-1,827.70	1,915.84	1,907.54	8.30	230.734	
2,000.00	2,000.00	2,023.67	2,023.14	6.94	5.24	-72.55	574.45	-1,827.89	1,916.03	1,907.35	8.68	220.714	
2,100.00	2,099.99	2,123.00	2,122.46	7.29	5.40	6.26	574.81	-1,827.99	1,914.94	1,905.88	9.06	211.327	
2,200.00	2,199.91	2,224.35	2,223.81	7.63	5.59	6.29	575.34	-1,828.02	1,911.22	1,901.77	9.45	202.274	
2,300.00	2,299.69	2,325.77	2,325.23	7.98	5.79	6.35	575.93	-1,827.92	1,904.80	1,894.96	9.85	193.458	
2,400.00	2,399.27	2,426.33	2,425.79	8.34	6.00	6.42	576.79	-1,827.68	1,895.73	1,885.48	10.25	184.923	
2,500.00	2,498.57	2,527.23	2,526.68	8.69	6.22	6.51	577.72	-1,827.34	1,884.02	1,873.35	10.67	176.648	
2,600.00	2,597.54	2,613.47	2,612.92	9.06	6.43	6.60	578.30	-1,827.27	1,869.90	1,858.83	11.07	168.962	
2,616.45	2,613.78	2,626.69	2,626.14	9.12	6.46	6.61	578.28	-1,827.37	1,867.42	1,856.29	11.13	167.740	
2,700.00	2,696.24	2,691.50	2,690.94	9.43	6.62	6.62	577.75	-1,828.36	1,855.08	1,843.62	11.46	161.847	
2,800.00	2,794.94	2,774.55	2,773.94	9.81	6.83	6.60	576.40	-1,830.80	1,841.37	1,829.50	11.87	155.153	
2,900.00	2,893.64	2,859.56	2,858.88	10.19	7.05	6.57	574.73	-1,833.82	1,828.18	1,815.90	12.28	148.832	
3,000.00	2,992.34	2,935.01	2,934.20	10.58	7.26	6.51	572.53	-1,837.69	1,816.18	1,803.50	12.69	143.141	
3,100.00	3,091.04	3,000.00	2,998.99	10.97	7.44	6.43	570.02	-1,842.04	1,805.53	1,792.45	13.08	138.072	
3,200.00	3,189.74	3,086.31	3,084.90	11.37	7.70	6.28	565.81	-1,849.29	1,796.11	1,782.61	13.51	132.972	
3,300.00	3,288.45	3,162.05	3,160.10	11.77	7.93	6.11	561.30	-1,857.02	1,788.07	1,774.15	13.92	128.434	
3,400.00	3,387.15	3,237.76	3,235.09	12.17	8.16	5.91	556.02	-1,866.02	1,781.38	1,767.04	14.34	124.236	
3,500.00	3,485.85	3,326.39	3,322.65	12.58	8.45	5.63	549.07	-1,877.85	1,775.86	1,761.08	14.79	120.102	
3,600.00	3,584.55	3,425.76	3,420.79	12.98	8.79	5.31	541.18	-1,891.25	1,770.53	1,755.27	15.26	116.008	
3,700.00	3,683.25	3,525.12	3,518.93	13.39	9.13	4.98	533.30	-1,904.65	1,765.26	1,749.52	15.74	112.130	
3,800.00	3,781.95	3,624.48	3,617.07	13.80	9.48	4.66	525.42	-1,918.06	1,760.04	1,743.82	16.23	108.456	
3,900.00	3,880.65	3,723.85	3,715.21	14.22	9.84	4.34	517.53	-1,931.46	1,754.88	1,738.17	16.72	104.973	
4,000.00	3,979.35	3,823.21	3,813.35	14.63	10.20	4.01	509.65	-1,944.87	1,749.78	1,732.57	17.21	101.672	
4,100.00	4,078.05	3,922.57	3,911.48	15.05	10.57	3.68	501.77	-1,958.27	1,744.74	1,727.03	17.71	98.539	
4,200.00	4,176.75	4,021.94	4,009.62	15.47	10.94	3.35	493.88	-1,971.68	1,739.75	1,721.55	18.20	95.565	
4,300.00	4,275.45	4,121.30	4,107.76	15.89	11.32	3.02	486.00	-1,985.08	1,734.83	1,716.12	18.71	92.740	
4,400.00	4,374.15	4,220.66	4,205.90	16.31	11.70	2.68	478.12	-1,998.48	1,729.96	1,710.75	19.21	90.054	
4,500.00	4,472.85	4,320.02	4,304.04	16.73	12.09	2.34	470.23	-2,011.89	1,725.15	1,705.43	19.72	87.499	
4,600.00	4,571.55	4,419.39	4,402.18	17.15	12.48	2.01	462.35	-2,025.29	1,720.40	1,700.18	20.22	85.067	
4,700.00	4,670.25	4,518.75	4,500.32	17.57	12.87	1.67	454.47	-2,038.70	1,715.72	1,694.98	20.73	82.750	
4,800.00	4,768.95	4,618.11	4,598.46	18.00	13.27	1.32	446.58	-2,052.10	1,711.09	1,689.85	21.24	80.541	
4,900.00	4,867.65	4,717.48	4,696.59	18.42	13.66	0.98	438.70	-2,065.50	1,706.53	1,684.77	21.76	78.434	
5,000.00	4,966.35	4,816.84	4,794.73	18.85	14.06	0.63	430.82	-2,078.91	1,702.03	1,679.76	22.27	76.421	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.05	4,916.20	4,892.87	19.28	14.47	0.29	422.93	-2,092.31	1,697.59	1,674.80	22.79	74.499	
5,200.00	5,163.76	5,015.57	4,991.01	19.70	14.87	-0.06	415.05	-2,105.72	1,693.21	1,669.91	23.30	72.661	
5,300.00	5,262.46	5,114.93	5,089.15	20.13	15.28	-0.42	407.17	-2,119.12	1,688.90	1,665.08	23.82	70.902	
5,400.00	5,361.16	5,214.29	5,187.29	20.56	15.69	-0.77	399.28	-2,132.52	1,684.66	1,660.32	24.34	69.219	
5,500.00	5,459.86	5,313.66	5,285.43	20.99	16.09	-1.12	391.40	-2,145.93	1,680.48	1,655.62	24.86	67.606	
5,600.00	5,558.56	5,413.02	5,383.57	21.42	16.51	-1.48	383.52	-2,159.33	1,676.36	1,650.98	25.38	66.059	
5,700.00	5,657.26	5,512.38	5,481.70	21.85	16.92	-1.84	375.63	-2,172.74	1,672.31	1,646.41	25.90	64.576	
5,800.00	5,755.96	5,611.74	5,579.84	22.28	17.33	-2.20	367.75	-2,186.14	1,668.33	1,641.91	26.42	63.152	
5,900.00	5,854.66	5,711.11	5,677.98	22.71	17.75	-2.56	359.87	-2,199.54	1,664.41	1,637.47	26.94	61.784	
6,000.00	5,953.36	5,810.47	5,776.12	23.14	18.16	-2.92	351.98	-2,212.95	1,660.56	1,633.10	27.46	60.470	
6,100.00	6,052.06	5,909.83	5,874.26	23.57	18.58	-3.29	344.10	-2,226.35	1,656.77	1,628.79	27.98	59.206	
6,200.00	6,150.76	6,009.20	5,972.40	24.01	19.00	-3.65	336.22	-2,239.76	1,653.06	1,624.55	28.51	57.990	
6,300.00	6,249.46	6,108.56	6,070.54	24.44	19.41	-4.02	328.33	-2,253.16	1,649.41	1,620.39	29.03	56.820	
6,400.00	6,348.16	6,207.92	6,168.67	24.87	19.83	-4.39	320.45	-2,266.56	1,645.84	1,616.29	29.55	55.692	
6,500.00	6,446.86	6,307.29	6,266.81	25.30	20.25	-4.76	312.57	-2,279.97	1,642.33	1,612.26	30.08	54.606	
6,600.00	6,545.56	6,406.65	6,364.95	25.74	20.67	-5.14	304.68	-2,293.37	1,638.89	1,608.29	30.60	53.558	
6,700.00	6,644.26	6,506.01	6,463.09	26.17	21.09	-5.51	296.80	-2,306.78	1,635.53	1,604.40	31.12	52.548	
6,804.31	6,747.22	6,609.66	6,565.46	26.62	21.53	-5.90	288.58	-2,320.76	1,632.09	1,600.42	31.67	51.532	
6,900.00	6,841.85	6,704.78	6,659.41	27.03	21.94	-6.26	281.03	-2,333.59	1,630.20	1,598.03	32.17	50.670	
6,926.22	6,867.83	6,730.85	6,685.16	27.14	22.05	-6.35	278.96	-2,337.11	1,630.11	1,597.80	32.31	50.453	CC, ES
7,000.00	6,941.09	6,804.23	6,757.64	27.44	22.36	-6.62	273.14	-2,347.01	1,630.83	1,598.14	32.69	49.881	
7,100.00	7,040.61	6,903.67	6,855.85	27.83	22.79	-6.98	265.25	-2,360.42	1,634.13	1,600.92	33.21	49.202	
7,200.00	7,140.36	7,003.01	6,953.97	28.20	23.21	-7.33	257.37	-2,373.82	1,640.09	1,606.36	33.73	48.627	
7,300.00	7,240.26	7,102.20	7,051.93	28.55	23.63	-7.67	249.50	-2,387.20	1,648.68	1,614.44	34.24	48.152	
7,400.00	7,340.24	7,201.16	7,149.68	28.88	24.06	-8.00	241.65	-2,400.55	1,659.92	1,625.17	34.75	47.772	
7,420.77	7,361.00	7,221.68	7,169.94	28.95	24.15	-86.87	240.02	-2,403.32	1,662.58	1,627.73	34.85	47.705	
7,500.00	7,440.24	7,314.64	7,261.79	29.20	24.54	-87.14	232.75	-2,415.68	1,672.85	1,637.56	35.29	47.405	
7,600.00	7,540.24	7,471.82	7,417.71	29.52	25.18	-87.51	222.73	-2,432.72	1,683.41	1,647.48	35.93	46.851	
7,700.00	7,640.24	7,630.38	7,575.69	29.84	25.77	-87.76	215.93	-2,444.29	1,690.53	1,654.00	36.53	46.273	
7,800.00	7,740.24	7,789.79	7,734.94	30.16	26.32	-87.89	212.44	-2,450.21	1,694.16	1,657.07	37.09	45.672	
7,900.00	7,840.24	7,921.59	7,866.74	30.48	26.72	-87.90	211.96	-2,451.03	1,694.66	1,657.08	37.58	45.090	
7,966.81	7,907.04	7,988.40	7,933.54	30.69	26.92	-87.90	211.96	-2,451.03	1,694.66	1,656.77	37.89	44.722	
8,000.00	7,940.22	8,021.58	7,966.72	30.79	27.01	92.69	211.96	-2,451.03	1,694.71	1,656.66	38.04	44.546	
8,050.00	7,989.94	8,071.30	8,016.44	30.94	27.16	92.84	211.96	-2,451.03	1,694.95	1,656.69	38.27	44.292	
8,100.00	8,039.04	8,120.40	8,065.54	31.08	27.30	93.10	211.96	-2,451.03	1,695.45	1,656.96	38.49	44.050	
8,150.00	8,087.13	8,168.49	8,113.63	31.21	27.45	93.46	211.96	-2,451.03	1,696.26	1,657.55	38.71	43.822	
8,200.00	8,133.85	8,215.21	8,160.35	31.33	27.59	93.90	211.96	-2,451.03	1,697.48	1,658.56	38.92	43.610	
8,250.00	8,178.84	8,260.20	8,205.34	31.45	27.72	94.38	211.96	-2,451.03	1,699.23	1,660.09	39.14	43.414	
8,300.00	8,221.77	8,303.13	8,248.27	31.55	27.85	94.88	211.96	-2,451.03	1,701.64	1,662.29	39.36	43.237	
8,350.00	8,262.30	8,343.66	8,288.80	31.65	27.97	95.35	211.96	-2,451.03	1,704.87	1,665.29	39.57	43.081	
8,400.00	8,300.13	8,381.49	8,326.63	31.74	28.08	95.76	211.96	-2,451.03	1,709.05	1,669.25	39.79	42.946	
8,450.00	8,334.96	8,416.32	8,361.46	31.82	28.19	96.07	211.96	-2,451.03	1,714.34	1,674.32	40.02	42.836	
8,500.00	8,366.54	8,447.90	8,393.04	31.89	28.28	96.23	211.96	-2,451.03	1,720.89	1,680.63	40.25	42.751	
8,550.00	8,394.62	8,475.98	8,421.12	31.96	28.37	96.21	211.96	-2,451.03	1,728.80	1,688.31	40.49	42.693	
8,600.00	8,418.99	8,500.35	8,445.49	32.03	28.44	95.97	211.96	-2,451.03	1,738.18	1,697.44	40.74	42.663	
8,650.00	8,439.47	8,520.83	8,465.97	32.11	28.50	95.49	211.96	-2,451.03	1,749.10	1,708.10	41.00	42.664	
8,700.00	8,455.89	8,537.25	8,482.39	32.19	28.55	94.72	211.96	-2,451.03	1,761.57	1,720.31	41.26	42.695	
8,750.00	8,468.13	8,549.49	8,494.63	32.29	28.59	93.67	211.96	-2,451.03	1,775.58	1,734.05	41.53	42.758	
8,800.00	8,476.11	8,557.47	8,502.61	32.40	28.61	92.30	211.96	-2,451.03	1,791.09	1,749.29	41.80	42.853	
8,850.00	8,479.75	8,561.11	8,506.25	32.54	28.62	90.63	211.96	-2,451.03	1,807.99	1,765.92	42.07	42.980	
8,866.81	8,480.00	8,561.36	8,506.50	32.59	28.62	90.00	211.96	-2,451.03	1,813.95	1,771.80	42.16	43.030	
8,900.00	8,480.00	8,561.36	8,506.50	32.70	28.62	90.00	211.96	-2,451.03	1,826.14	1,783.81	42.34	43.135	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	8,480.00	8,561.36	8,506.50	33.09	28.62	90.00	211.96	-2,451.03	1,865.95	1,823.05	42.91	43.488	
9,100.00	8,480.00	8,561.36	8,506.50	33.57	28.62	90.00	211.96	-2,451.03	1,910.18	1,866.67	43.51	43.906	
9,200.00	8,480.00	8,561.36	8,506.50	34.14	28.62	90.00	211.96	-2,451.03	1,958.51	1,914.39	44.12	44.393	
9,300.00	8,480.00	8,561.36	8,506.50	34.79	28.62	90.00	211.96	-2,451.03	2,010.66	1,965.93	44.73	44.952	
9,400.00	8,480.00	8,561.36	8,506.50	35.50	28.62	90.00	211.96	-2,451.03	2,066.33	2,021.00	45.33	45.583	
9,500.00	8,480.00	8,561.36	8,506.50	36.28	28.62	90.00	211.96	-2,451.03	2,125.26	2,079.34	45.92	46.284	
9,600.00	8,480.00	8,561.36	8,506.50	37.11	28.62	90.00	211.96	-2,451.03	2,187.17	2,140.68	46.48	47.054	
9,700.00	8,480.00	8,561.36	8,506.50	38.01	28.62	90.00	211.96	-2,451.03	2,251.82	2,204.80	47.02	47.888	
9,800.00	8,480.00	8,561.36	8,506.50	38.95	28.62	90.00	211.96	-2,451.03	2,318.98	2,271.44	47.54	48.784	
9,900.00	8,480.00	8,561.36	8,506.50	39.94	28.62	90.00	211.96	-2,451.03	2,388.44	2,340.42	48.02	49.737	
10,000.00	8,480.00	8,561.36	8,506.50	40.97	28.62	90.00	211.96	-2,451.03	2,460.01	2,411.53	48.48	50.746	
10,100.00	8,480.00	8,561.36	8,506.50	42.04	28.62	90.00	211.96	-2,451.03	2,533.50	2,484.60	48.90	51.806	
10,200.00	8,480.00	8,561.36	8,506.50	43.14	28.62	90.00	211.96	-2,451.03	2,608.76	2,559.45	49.30	52.912	
10,300.00	8,480.00	8,561.36	8,506.50	44.29	28.62	90.00	211.96	-2,451.03	2,685.63	2,635.95	49.68	54.061	
10,400.00	8,480.00	8,561.36	8,506.50	45.46	28.62	90.00	211.96	-2,451.03	2,763.98	2,713.95	50.03	55.249	
10,500.00	8,480.00	8,561.36	8,506.50	46.66	28.62	90.00	211.96	-2,451.03	2,843.69	2,793.33	50.36	56.472	
10,600.00	8,480.00	8,561.36	8,506.50	47.89	28.62	90.00	211.96	-2,451.03	2,924.65	2,873.98	50.66	57.729	
10,700.00	8,480.00	8,561.36	8,506.50	49.14	28.62	90.00	211.96	-2,451.03	3,006.75	2,955.80	50.95	59.015	
10,800.00	8,480.00	8,561.36	8,506.50	50.42	28.62	90.00	211.96	-2,451.03	3,089.91	3,038.69	51.22	60.330	
10,900.00	8,480.00	8,561.36	8,506.50	51.72	28.62	90.00	211.96	-2,451.03	3,174.04	3,122.57	51.47	61.671	
11,000.00	8,480.00	8,561.36	8,506.50	53.03	28.62	90.00	211.96	-2,451.03	3,259.06	3,207.36	51.70	63.036	
11,100.00	8,480.00	8,561.36	8,506.50	54.37	28.62	90.00	211.96	-2,451.03	3,344.92	3,293.00	51.92	64.423	
11,200.00	8,480.00	8,561.36	8,506.50	55.72	28.62	90.00	211.96	-2,451.03	3,431.54	3,379.41	52.13	65.831	
11,300.00	8,480.00	8,561.36	8,506.50	57.09	28.62	90.00	211.96	-2,451.03	3,518.87	3,466.55	52.32	67.258	
11,400.00	8,480.00	8,561.36	8,506.50	58.47	28.62	90.00	211.96	-2,451.03	3,606.86	3,554.36	52.50	68.702	
11,500.00	8,480.00	8,561.36	8,506.50	59.86	28.62	90.00	211.96	-2,451.03	3,695.46	3,642.79	52.67	70.162	
11,600.00	8,480.00	8,561.36	8,506.50	61.27	28.62	90.00	211.96	-2,451.03	3,784.63	3,731.80	52.83	71.635	
11,700.00	8,480.00	8,561.36	8,506.50	62.69	28.62	90.00	211.96	-2,451.03	3,874.32	3,821.34	52.98	73.122	
11,800.00	8,480.00	8,561.36	8,506.50	64.13	28.62	90.00	211.96	-2,451.03	3,964.51	3,911.39	53.13	74.621	
11,900.00	8,480.00	15,497.08	12,092.23	65.57	76.32	154.67	-3,423.81	-2,419.06	3,967.31	3,907.96	59.35	66.846	
12,000.00	8,480.00	15,597.07	12,093.55	67.02	77.74	154.68	-3,523.79	-2,418.18	3,968.55	3,908.03	60.52	65.575	
12,100.00	8,480.00	15,697.06	12,094.86	68.48	79.17	154.69	-3,623.76	-2,417.30	3,969.78	3,908.09	61.70	64.341	
12,200.00	8,480.00	15,797.05	12,096.17	69.95	80.61	154.69	-3,723.74	-2,416.42	3,971.02	3,908.13	62.89	63.145	
12,300.00	8,480.00	15,897.04	12,097.49	71.42	82.05	154.70	-3,823.72	-2,415.54	3,972.26	3,908.17	64.08	61.984	
12,400.00	8,480.00	15,997.03	12,098.80	72.91	83.51	154.71	-3,923.70	-2,414.66	3,973.49	3,908.20	65.29	60.862	
12,500.00	8,480.00	16,097.02	12,100.11	74.40	84.97	154.71	-4,023.68	-2,413.78	3,974.73	3,908.23	66.50	59.774	
12,600.00	8,480.00	16,197.01	12,101.43	75.90	86.43	154.72	-4,123.66	-2,412.90	3,975.96	3,908.25	67.71	58.718	
12,700.00	8,480.00	16,297.01	12,102.74	77.40	87.91	154.73	-4,223.64	-2,412.03	3,977.20	3,908.26	68.94	57.695	
12,800.00	8,480.00	16,397.00	12,104.05	78.91	89.39	154.73	-4,323.62	-2,411.15	3,978.44	3,908.27	70.16	56.702	
12,900.00	8,480.00	16,496.99	12,105.36	80.43	90.87	154.74	-4,423.60	-2,410.27	3,979.67	3,908.27	71.40	55.738	
13,000.00	8,480.00	16,596.98	12,106.68	81.95	92.36	154.75	-4,523.57	-2,409.39	3,980.91	3,908.27	72.64	54.804	
13,100.00	8,480.00	16,696.97	12,107.99	83.47	93.86	154.75	-4,623.55	-2,408.51	3,982.14	3,908.26	73.89	53.896	
13,200.00	8,480.00	16,796.96	12,109.30	85.00	95.36	154.76	-4,723.53	-2,407.63	3,983.38	3,908.24	75.14	53.016	
13,300.00	8,480.00	16,896.95	12,110.62	86.54	96.87	154.77	-4,823.51	-2,406.75	3,984.62	3,908.23	76.39	52.161	
13,400.00	8,480.00	16,996.95	12,111.93	88.08	98.38	154.77	-4,923.49	-2,405.87	3,985.85	3,908.21	77.65	51.334	
13,500.00	8,480.00	17,096.94	12,113.24	89.62	99.90	154.78	-5,023.47	-2,404.99	3,987.09	3,908.18	78.91	50.528	
13,600.00	8,480.00	17,196.93	12,114.56	91.17	101.42	154.79	-5,123.45	-2,404.11	3,988.33	3,908.15	80.17	49.746	
13,700.00	8,480.00	17,296.92	12,115.87	92.72	102.94	154.79	-5,223.43	-2,403.23	3,989.56	3,908.12	81.44	48.986	
13,800.00	8,480.00	17,396.91	12,117.18	94.27	104.47	154.80	-5,323.41	-2,402.35	3,990.80	3,908.08	82.72	48.246	
13,900.00	8,480.00	17,496.90	12,118.50	95.83	106.00	154.81	-5,423.38	-2,401.48	3,992.04	3,908.04	83.99	47.527	
14,000.00	8,480.00	17,596.89	12,119.81	97.39	107.54	154.81	-5,523.36	-2,400.60	3,993.27	3,908.00	85.27	46.829	
14,100.00	8,480.00	17,696.88	12,121.12	98.95	109.07	154.82	-5,623.34	-2,399.72	3,994.51	3,907.95	86.55	46.150	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	8,480.00	17,796.88	12,122.43	100.52	110.62	154.83	-5,723.32	-2,398.84	3,995.75	3,907.91	87.84	45.490	
14,300.00	8,480.00	17,896.87	12,123.75	102.09	112.16	154.83	-5,823.30	-2,397.96	3,996.98	3,907.86	89.12	44.847	
14,400.00	8,480.00	17,996.86	12,125.06	103.66	113.71	154.84	-5,923.28	-2,397.08	3,998.22	3,907.81	90.41	44.222	
14,500.00	8,480.00	18,096.85	12,126.37	105.23	115.26	154.84	-6,023.26	-2,396.20	3,999.46	3,907.75	91.71	43.612	
14,600.00	8,480.00	18,196.84	12,127.69	106.81	116.81	154.85	-6,123.24	-2,395.32	4,000.69	3,907.69	93.00	43.018	
14,700.00	8,480.00	18,296.83	12,129.00	108.39	118.37	154.86	-6,223.21	-2,394.44	4,001.93	3,907.63	94.30	42.440	
14,800.00	8,480.00	18,396.82	12,130.31	109.97	119.93	154.86	-6,323.19	-2,393.56	4,003.17	3,907.57	95.59	41.876	
14,900.00	8,480.00	18,496.81	12,131.63	111.55	121.49	154.87	-6,423.17	-2,392.68	4,004.40	3,907.51	96.90	41.327	
15,000.00	8,480.00	18,596.81	12,132.94	113.13	123.05	154.88	-6,523.15	-2,391.80	4,005.64	3,907.44	98.20	40.791	
15,100.00	8,480.00	18,696.80	12,134.25	114.72	124.62	154.88	-6,623.13	-2,390.93	4,006.88	3,907.38	99.50	40.270	
15,200.00	8,480.00	18,796.79	12,135.57	116.31	126.19	154.89	-6,723.11	-2,390.05	4,008.12	3,907.31	100.80	39.762	
15,300.00	8,480.00	18,896.78	12,136.88	117.90	127.76	154.90	-6,823.09	-2,389.17	4,009.35	3,907.24	102.11	39.266	
15,400.00	8,480.00	18,996.77	12,138.19	119.49	129.33	154.90	-6,923.07	-2,388.29	4,010.59	3,907.17	103.42	38.781	
15,500.00	8,480.00	19,096.76	12,139.50	121.08	130.90	154.91	-7,023.05	-2,387.41	4,011.83	3,907.10	104.73	38.307	
15,600.00	8,480.00	19,196.75	12,140.82	122.68	132.48	154.92	-7,123.02	-2,386.53	4,013.07	3,907.03	106.04	37.845	
15,700.00	8,480.00	19,296.75	12,142.13	124.27	134.06	154.92	-7,223.00	-2,385.65	4,014.30	3,906.95	107.35	37.395	
15,800.00	8,480.00	19,396.74	12,143.44	125.87	135.64	154.93	-7,322.98	-2,384.77	4,015.54	3,906.88	108.66	36.955	
15,900.00	8,480.00	19,496.73	12,144.76	127.47	137.22	154.94	-7,422.96	-2,383.89	4,016.78	3,906.80	109.97	36.525	
16,000.00	8,480.00	19,596.72	12,146.07	129.07	138.80	154.94	-7,522.94	-2,383.01	4,018.02	3,906.73	111.29	36.104	
16,100.00	8,480.00	19,696.71	12,147.38	130.67	140.39	154.95	-7,622.92	-2,382.13	4,019.25	3,906.65	112.60	35.693	
16,200.00	8,480.00	19,796.70	12,148.70	132.27	141.97	154.96	-7,722.90	-2,381.25	4,020.49	3,906.57	113.92	35.292	
16,300.00	8,480.00	19,896.69	12,150.01	133.88	143.56	154.96	-7,822.88	-2,380.38	4,021.73	3,906.49	115.24	34.899	
16,400.00	8,480.00	19,996.68	12,151.32	135.48	145.15	154.97	-7,922.85	-2,379.50	4,022.97	3,906.41	116.56	34.515	
16,500.00	8,480.00	20,096.68	12,152.64	137.09	146.74	154.97	-8,022.83	-2,378.62	4,024.20	3,906.33	117.88	34.139	
16,600.00	8,480.00	20,196.67	12,153.95	138.70	148.33	154.98	-8,122.81	-2,377.74	4,025.44	3,906.24	119.20	33.771	
16,700.00	8,480.00	20,296.66	12,155.26	140.30	149.92	154.99	-8,222.79	-2,376.86	4,026.68	3,906.16	120.52	33.410	
16,800.00	8,480.00	20,396.65	12,156.57	141.91	151.52	154.99	-8,322.77	-2,375.98	4,027.92	3,906.08	121.84	33.059	
16,900.00	8,480.00	20,496.64	12,157.89	143.52	153.11	155.00	-8,422.75	-2,375.10	4,029.16	3,905.99	123.16	32.714	
17,000.00	8,480.00	20,596.63	12,159.20	145.13	154.71	155.01	-8,522.73	-2,374.22	4,030.40	3,905.91	124.48	32.377	
17,100.00	8,480.00	20,696.62	12,160.51	146.75	156.31	155.01	-8,622.71	-2,373.34	4,031.63	3,905.83	125.81	32.046	
17,200.00	8,480.00	20,796.62	12,161.83	148.36	157.90	155.02	-8,722.69	-2,372.46	4,032.87	3,905.74	127.13	31.722	
17,300.00	8,480.00	20,896.61	12,163.14	149.97	159.50	155.03	-8,822.66	-2,371.58	4,034.11	3,905.65	128.46	31.405	
17,400.00	8,480.00	20,996.60	12,164.45	151.59	161.11	155.03	-8,922.64	-2,370.70	4,035.35	3,905.57	129.78	31.094	
17,500.00	8,480.00	21,096.59	12,165.77	153.20	162.71	155.04	-9,022.62	-2,369.83	4,036.59	3,905.48	131.11	30.788	
17,600.00	8,480.00	21,196.58	12,167.08	154.82	164.31	155.05	-9,122.60	-2,368.95	4,037.83	3,905.39	132.43	30.489	
17,700.00	8,480.00	21,296.57	12,168.39	156.44	165.91	155.05	-9,222.58	-2,368.07	4,039.06	3,905.31	133.76	30.197	
17,800.00	8,480.00	21,396.56	12,169.71	158.05	167.52	155.06	-9,322.56	-2,367.19	4,040.30	3,905.22	135.08	29.910	
17,900.00	8,480.00	21,496.55	12,171.02	159.67	169.12	155.06	-9,422.54	-2,366.31	4,041.54	3,905.13	136.41	29.628	
18,000.00	8,480.00	21,596.55	12,172.33	161.29	170.73	155.07	-9,522.52	-2,365.43	4,042.78	3,905.04	137.74	29.351	
18,100.00	8,480.00	21,696.54	12,173.64	162.91	172.34	155.08	-9,622.49	-2,364.55	4,044.02	3,904.95	139.06	29.080	
18,200.00	8,480.00	21,796.53	12,174.96	164.53	173.95	155.08	-9,722.47	-2,363.67	4,045.26	3,904.87	140.39	28.814	
18,300.00	8,480.00	21,896.52	12,176.27	166.15	175.56	155.09	-9,822.45	-2,362.79	4,046.50	3,904.78	141.72	28.553	
18,400.00	8,480.00	21,996.51	12,177.58	167.77	177.16	155.10	-9,922.43	-2,361.91	4,047.74	3,904.69	143.04	28.297	
18,500.00	8,480.00	22,096.50	12,178.90	169.40	178.78	155.10	-10,022.41	-2,361.03	4,048.97	3,904.60	144.37	28.046	
18,600.00	8,480.00	22,196.49	12,180.21	171.02	180.39	155.11	-10,122.39	-2,360.15	4,050.21	3,904.51	145.70	27.798	
18,700.00	8,480.00	22,296.48	12,181.52	172.64	182.00	155.12	-10,222.37	-2,359.28	4,051.45	3,904.42	147.03	27.555	
18,800.00	8,480.00	22,396.48	12,182.84	174.26	183.61	155.12	-10,322.35	-2,358.40	4,052.69	3,904.33	148.36	27.317	
18,900.00	8,480.00	22,496.47	12,184.15	175.89	185.22	155.13	-10,422.33	-2,357.52	4,053.93	3,904.24	149.69	27.082	
19,000.00	8,480.00	22,596.46	12,185.46	177.51	186.84	155.13	-10,522.30	-2,356.64	4,055.17	3,904.15	151.02	26.853	
19,100.00	8,480.00	22,696.45	12,186.78	179.14	188.45	155.14	-10,622.28	-2,355.76	4,056.41	3,904.07	152.34	26.627	
19,200.00	8,480.00	22,796.44	12,188.09	180.76	190.07	155.15	-10,722.26	-2,354.88	4,057.65	3,903.98	153.67	26.405	
19,300.00	8,480.00	22,896.43	12,189.40	182.39	191.68	155.15	-10,822.24	-2,354.00	4,058.89	3,903.89	155.00	26.187	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,400.00	8,480.00	22,996.42	12,190.71	184.02	193.30	155.16	-10,922.22	-2,353.12	4,060.13	3,903.80	156.33	25.972	
19,500.00	8,480.00	23,096.42	12,192.03	185.64	194.92	155.17	-11,022.20	-2,352.24	4,061.37	3,903.71	157.66	25.761	
19,600.00	8,480.00	23,196.41	12,193.34	187.27	196.54	155.17	-11,122.18	-2,351.36	4,062.61	3,903.62	158.98	25.554	
19,700.00	8,480.00	23,296.40	12,194.65	188.90	198.15	155.18	-11,222.16	-2,350.48	4,063.85	3,903.53	160.31	25.349	
19,800.00	8,480.00	23,396.39	12,195.97	190.53	199.77	155.19	-11,322.13	-2,349.60	4,065.08	3,903.44	161.64	25.149	
19,899.80	8,480.00	23,496.18	12,197.28	192.15	201.39	155.19	-11,421.91	-2,348.73	4,066.32	3,903.35	162.97	24.951	SF

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	23.09	23.09	0.00	0.03	-71.00	581.08	-1,687.58	1,784.82				
100.00	100.00	116.51	116.49	0.13	0.17	-70.95	582.84	-1,687.55	1,785.39	1,785.19	0.20	8,883.579	
200.00	200.00	206.73	206.66	0.48	0.49	-70.85	585.90	-1,687.48	1,786.41	1,785.72	0.68	2,611.860	
300.00	300.00	294.63	294.49	0.84	0.80	-70.75	589.40	-1,687.51	1,787.76	1,786.60	1.16	1,537.226	
400.00	400.00	391.02	390.77	1.20	1.15	-70.61	593.99	-1,687.88	1,789.71	1,788.04	1.66	1,075.428	
500.00	500.00	483.50	483.11	1.56	1.49	-70.46	599.06	-1,688.24	1,791.90	1,789.74	2.16	830.796	
600.00	600.00	561.29	560.74	1.92	1.78	-70.32	603.98	-1,689.02	1,794.97	1,792.36	2.61	686.809	
700.00	700.00	739.24	738.53	2.28	2.42	-70.14	610.22	-1,689.80	1,796.64	1,793.32	3.32	541.399	
800.00	800.00	855.43	854.72	2.63	2.82	-70.11	610.91	-1,688.16	1,795.52	1,791.66	3.86	465.556	
900.00	900.00	955.39	954.66	2.99	3.17	-70.07	611.32	-1,686.39	1,793.99	1,789.64	4.35	412.040	
1,000.00	1,000.00	1,066.03	1,065.27	3.35	3.55	-70.05	611.22	-1,684.19	1,792.09	1,787.21	4.88	367.461	
1,100.00	1,100.00	1,172.26	1,171.48	3.71	3.92	-70.02	611.24	-1,681.54	1,789.75	1,784.36	5.39	331.946	
1,200.00	1,200.00	1,272.13	1,271.29	4.07	4.27	-69.97	611.78	-1,678.43	1,787.01	1,781.11	5.89	303.207	
1,300.00	1,300.00	1,352.25	1,351.39	4.43	4.55	-69.94	612.29	-1,676.56	1,785.04	1,778.70	6.35	281.211	
1,400.00	1,400.00	1,439.40	1,438.53	4.79	4.68	-69.92	612.58	-1,675.68	1,784.18	1,777.49	6.69	266.658	
1,500.00	1,500.00	1,540.20	1,539.33	5.14	4.71	-69.90	612.77	-1,674.86	1,783.48	1,776.51	6.97	255.817	
1,600.00	1,600.00	1,640.17	1,639.29	5.50	4.76	-69.89	612.95	-1,674.02	1,782.75	1,775.48	7.28	244.999	
1,700.00	1,700.00	1,738.69	1,737.81	5.86	4.84	-69.89	612.76	-1,673.37	1,782.07	1,774.47	7.60	234.437	
1,800.00	1,800.00	1,835.67	1,834.79	6.22	4.94	-69.89	612.48	-1,672.90	1,781.51	1,773.57	7.94	224.272	
1,900.00	1,900.00	1,929.80	1,928.92	6.58	5.06	-69.89	612.32	-1,672.64	1,781.20	1,772.90	8.30	214.636	
2,000.00	2,000.00	2,028.34	2,027.46	6.94	5.20	-69.89	612.37	-1,672.55	1,781.13	1,772.46	8.67	205.428	
2,100.00	2,099.99	2,152.27	2,151.39	7.29	5.41	8.92	612.18	-1,671.85	1,779.29	1,770.21	9.08	196.058	
2,200.00	2,199.91	2,321.40	2,320.41	7.63	5.74	8.99	610.89	-1,666.44	1,772.21	1,762.67	9.54	185.764	
2,300.00	2,299.69	2,553.40	2,551.24	7.98	6.28	9.03	600.85	-1,646.27	1,755.34	1,745.26	10.08	174.167	
2,400.00	2,399.27	2,654.92	2,651.89	8.34	6.54	9.07	594.55	-1,634.56	1,733.46	1,722.96	10.50	165.121	
2,500.00	2,498.57	2,770.51	2,766.43	8.69	6.87	9.14	587.61	-1,620.65	1,708.73	1,697.79	10.94	156.195	
2,600.00	2,597.54	2,911.69	2,905.91	9.06	7.29	9.26	578.32	-1,600.90	1,679.50	1,668.09	11.41	147.234	
2,616.45	2,613.78	2,936.09	2,929.94	9.12	7.37	9.28	576.48	-1,597.14	1,674.19	1,662.70	11.49	145.748	
2,700.00	2,696.24	3,032.39	3,024.62	9.43	7.69	9.29	568.24	-1,581.61	1,646.17	1,634.31	11.86	138.817	
2,800.00	2,794.94	3,120.58	3,111.30	9.81	7.99	9.27	560.09	-1,567.50	1,612.59	1,600.31	12.29	131.243	
2,900.00	2,893.64	3,203.57	3,192.95	10.19	8.28	9.27	552.85	-1,554.54	1,579.53	1,566.82	12.72	124.209	
3,000.00	2,992.34	3,286.75	3,274.93	10.58	8.57	9.28	546.35	-1,542.04	1,547.29	1,534.13	13.15	117.643	
3,100.00	3,091.04	3,418.41	3,404.57	10.97	9.06	9.29	535.54	-1,521.80	1,514.80	1,501.17	13.63	111.155	
3,200.00	3,189.74	3,558.66	3,541.65	11.37	9.61	9.22	520.54	-1,496.25	1,478.58	1,464.48	14.10	104.843	
3,300.00	3,288.45	3,646.70	3,627.51	11.77	9.98	9.19	510.98	-1,479.30	1,441.56	1,427.00	14.56	99.037	
3,400.00	3,387.15	3,726.44	3,705.39	12.17	10.31	9.17	502.95	-1,464.22	1,405.08	1,390.07	15.01	93.609	
3,500.00	3,485.85	3,802.21	3,779.58	12.58	10.62	9.18	496.00	-1,450.48	1,369.61	1,354.15	15.47	88.552	
3,600.00	3,584.55	3,894.20	3,869.84	12.98	11.01	9.19	488.00	-1,434.65	1,335.12	1,319.19	15.93	83.799	
3,700.00	3,683.25	4,003.23	3,976.63	13.39	11.47	9.16	477.20	-1,415.46	1,299.89	1,283.48	16.40	79.243	
3,800.00	3,781.95	4,096.42	4,067.72	13.80	11.87	9.08	466.85	-1,398.75	1,263.96	1,247.08	16.87	74.903	
3,900.00	3,880.65	4,192.64	4,161.80	14.22	12.30	9.00	456.34	-1,381.55	1,228.13	1,210.79	17.35	70.798	
4,000.00	3,979.35	4,287.05	4,254.08	14.63	12.72	8.95	446.54	-1,364.19	1,192.04	1,174.22	17.82	66.889	
4,100.00	4,078.05	4,380.50	4,345.47	15.05	13.13	8.97	437.94	-1,346.61	1,155.94	1,137.64	18.30	63.176	
4,200.00	4,176.75	4,469.46	4,432.49	15.47	13.53	9.09	431.70	-1,329.27	1,119.96	1,101.18	18.78	59.648	
4,300.00	4,275.45	4,549.77	4,511.17	15.89	13.89	9.29	427.59	-1,313.67	1,084.67	1,065.41	19.26	56.310	
4,400.00	4,374.15	4,625.19	4,585.28	16.31	14.21	9.43	423.21	-1,300.42	1,050.83	1,031.07	19.75	53.195	
4,500.00	4,472.85	4,699.61	4,658.65	16.73	14.53	9.45	417.45	-1,289.40	1,018.81	998.56	20.25	50.318	
4,600.00	4,571.55	4,782.00	4,740.09	17.15	14.87	9.41	410.54	-1,279.00	988.51	967.78	20.74	47.665	
4,700.00	4,670.25	4,874.67	4,831.80	17.57	15.24	9.39	403.35	-1,267.84	958.99	937.76	21.23	45.176	
4,800.00	4,768.95	4,978.34	4,934.34	18.00	15.66	9.45	396.50	-1,254.26	928.90	907.18	21.71	42.782	
4,900.00	4,867.65	5,065.68	5,020.76	18.42	16.02	9.58	391.75	-1,242.52	898.89	876.68	22.21	40.477	
5,000.00	4,966.35	5,173.89	5,127.85	18.85	16.47	9.69	385.09	-1,228.43	869.09	846.41	22.69	38.309	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.05	5,328.97	5,279.70	19.28	17.18	9.63	369.48	-1,201.34	833.37	810.31	23.06	36.141	
5,200.00	5,163.76	5,424.60	5,372.72	19.70	17.64	9.56	358.59	-1,182.02	795.29	771.76	23.54	33.786	
5,300.00	5,262.46	5,516.64	5,462.27	20.13	18.09	9.53	348.54	-1,163.26	757.23	733.20	24.03	31.511	
5,400.00	5,361.16	5,607.65	5,550.85	20.56	18.53	9.54	339.13	-1,144.62	719.27	694.75	24.53	29.326	
5,500.00	5,459.86	5,700.40	5,641.16	20.99	18.99	9.60	330.08	-1,125.55	681.44	656.42	25.02	27.240	
5,600.00	5,558.56	5,788.14	5,726.65	21.42	19.41	9.70	322.02	-1,107.52	643.82	618.29	25.53	25.218	
5,700.00	5,657.26	5,873.30	5,809.84	21.85	19.82	9.86	314.91	-1,090.70	607.19	581.13	26.06	23.298	
5,800.00	5,755.96	5,964.10	5,898.73	22.28	20.25	10.04	307.55	-1,073.75	571.59	545.02	26.57	21.513	
5,900.00	5,854.66	6,058.55	5,991.18	22.71	20.69	10.31	300.40	-1,055.79	535.89	508.83	27.06	19.805	
6,000.00	5,953.36	6,152.72	6,083.33	23.14	21.14	10.66	293.52	-1,037.65	500.08	472.53	27.55	18.153	
6,100.00	6,052.06	6,240.72	6,169.48	23.57	21.55	11.03	287.10	-1,020.84	464.44	436.36	28.08	16.537	
6,200.00	6,150.76	6,328.08	6,255.30	24.01	21.95	11.32	280.38	-1,006.00	430.53	401.89	28.63	15.036	
6,300.00	6,249.46	6,422.21	6,347.89	24.44	22.38	11.63	273.13	-990.70	397.27	368.14	29.13	13.636	
6,400.00	6,348.16	6,518.19	6,442.23	24.87	22.81	12.00	265.53	-974.72	363.61	334.00	29.62	12.278	
6,500.00	6,446.86	6,613.02	6,535.39	25.30	23.25	12.48	258.13	-958.61	329.72	299.61	30.11	10.951	
6,600.00	6,545.56	6,703.34	6,624.13	25.74	23.66	13.03	251.04	-943.34	295.91	265.25	30.66	9.651	
6,700.00	6,644.26	6,790.31	6,709.94	26.17	24.04	13.37	243.87	-931.22	264.55	233.28	31.26	8.461	
6,804.31	6,747.22	6,883.06	6,801.81	26.62	24.42	13.83	237.21	-920.41	234.40	202.52	31.88	7.353	
6,900.00	6,841.85	6,968.83	6,887.10	27.03	24.75	13.97	231.54	-913.38	211.00	178.56	32.44	6.505	
7,000.00	6,941.09	7,064.17	6,982.08	27.44	25.09	13.89	225.64	-907.50	190.94	157.98	32.96	5.793	
7,100.00	7,040.61	7,161.06	7,078.71	27.83	25.43	14.22	221.77	-901.73	174.51	141.02	33.48	5.212	
7,200.00	7,140.36	7,259.29	7,176.74	28.20	25.77	14.92	219.47	-895.93	161.34	127.35	34.00	4.746	
7,300.00	7,240.26	7,358.60	7,275.88	28.55	26.12	15.46	217.17	-890.34	150.97	116.47	34.50	4.376	
7,400.00	7,340.24	7,457.90	7,374.99	28.88	26.46	15.81	214.91	-884.83	143.21	108.21	35.00	4.091	
7,420.77	7,361.00	7,478.42	7,395.48	28.95	26.53	-62.93	214.50	-883.72	141.97	106.86	35.11	4.044	
7,500.00	7,440.24	7,555.25	7,472.21	29.20	26.79	-62.66	213.31	-879.97	137.97	102.46	35.51	3.885	
7,600.00	7,540.24	7,651.43	7,568.35	29.52	27.09	-62.22	213.15	-877.40	135.52	99.51	36.02	3.763	
7,700.00	7,640.24	7,749.91	7,666.80	29.84	27.37	-61.36	214.79	-876.14	135.18	98.68	36.50	3.703	
7,800.00	7,740.24	7,850.45	7,767.32	30.16	27.67	-60.36	216.77	-874.86	135.03	98.03	37.00	3.650	
7,900.00	7,840.24	7,951.12	7,867.97	30.48	27.97	-59.58	218.00	-873.31	134.30	96.81	37.49	3.582	
7,966.81	7,907.04	8,018.51	7,935.35	30.69	28.17	-59.15	218.49	-872.17	133.58	95.76	37.82	3.532	
7,983.25	7,923.48	8,035.16	7,951.99	30.74	28.22	121.63	218.59	-871.83	133.47	95.56	37.90	3.521	CC, ES
8,000.00	7,940.22	8,052.10	7,968.93	30.79	28.28	122.00	218.69	-871.46	133.58	95.59	37.99	3.516	SF
8,050.00	7,989.94	8,102.34	8,019.16	30.94	28.43	124.04	218.92	-870.21	135.43	97.14	38.29	3.537	
8,100.00	8,039.04	8,151.89	8,068.68	31.08	28.59	127.17	218.99	-868.87	139.90	101.24	38.66	3.619	
8,150.00	8,087.13	8,199.59	8,116.37	31.21	28.74	130.93	218.89	-867.60	147.59	108.50	39.09	3.775	
8,200.00	8,133.85	8,245.23	8,162.00	31.33	28.89	134.79	218.80	-866.78	159.40	119.82	39.59	4.027	
8,250.00	8,178.84	8,289.66	8,206.43	31.45	29.03	138.51	218.71	-866.38	175.64	135.54	40.10	4.380	
8,300.00	8,221.77	8,332.65	8,249.41	31.55	29.15	141.84	218.52	-866.21	196.20	155.59	40.61	4.831	
8,350.00	8,262.30	8,373.63	8,290.40	31.65	29.28	144.64	218.23	-866.20	220.95	179.87	41.08	5.378	
8,400.00	8,300.13	8,412.73	8,329.49	31.74	29.39	146.92	217.85	-866.12	249.60	208.09	41.51	6.013	
8,450.00	8,334.96	8,448.96	8,365.72	31.82	29.50	148.58	217.42	-865.92	281.88	240.00	41.89	6.730	
8,500.00	8,366.54	8,479.63	8,396.39	31.89	29.59	149.30	217.04	-865.73	317.60	275.40	42.20	7.526	
8,550.00	8,394.62	8,506.01	8,422.76	31.96	29.67	149.13	216.82	-865.74	356.56	314.10	42.46	8.398	
8,600.00	8,418.99	8,528.66	8,445.41	32.03	29.73	147.96	216.73	-865.89	398.33	355.66	42.67	9.334	
8,650.00	8,439.47	8,551.00	8,467.76	32.11	29.80	146.01	216.71	-866.15	442.46	399.60	42.86	10.324	
8,700.00	8,455.89	8,565.52	8,482.27	32.19	29.84	141.62	216.70	-866.35	488.41	445.41	43.00	11.359	
8,750.00	8,468.13	8,580.13	8,496.88	32.29	29.88	135.02	216.63	-866.51	535.75	492.63	43.12	12.425	
8,800.00	8,476.11	8,590.08	8,506.84	32.40	29.91	123.20	216.55	-866.61	584.11	540.89	43.21	13.516	
8,850.00	8,479.75	8,595.08	8,511.83	32.54	29.92	102.41	216.50	-866.66	633.13	589.84	43.29	14.627	
8,866.81	8,480.00	8,595.60	8,512.35	32.59	29.92	93.09	216.50	-866.66	649.69	606.38	43.30	15.003	
8,900.00	8,480.00	8,596.03	8,512.78	32.70	29.92	93.31	216.49	-866.66	682.44	639.10	43.34	15.747	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	8,480.00	8,597.40	8,514.15	33.09	29.93	94.03	216.48	-866.67	781.32	737.90	43.42	17.994	
9,100.00	8,480.00	8,598.86	8,515.62	33.57	29.93	94.80	216.46	-866.69	880.46	836.97	43.49	20.247	
9,200.00	8,480.00	8,600.44	8,517.19	34.14	29.94	95.62	216.44	-866.70	979.77	936.23	43.54	22.503	
9,300.00	8,480.00	8,602.13	8,518.88	34.79	29.94	96.51	216.42	-866.71	1,079.20	1,035.62	43.59	24.761	
9,400.00	8,480.00	8,603.95	8,520.70	35.50	29.95	97.45	216.40	-866.72	1,178.73	1,135.11	43.63	27.020	
9,500.00	8,480.00	8,605.92	8,522.67	36.28	29.95	98.47	216.37	-866.74	1,278.33	1,234.67	43.66	29.279	
9,600.00	8,480.00	8,608.06	8,524.81	37.11	29.96	99.57	216.35	-866.75	1,377.99	1,334.29	43.69	31.537	
9,700.00	8,480.00	8,610.40	8,527.15	38.01	29.96	100.76	216.31	-866.77	1,477.69	1,433.96	43.72	33.795	
9,800.00	8,480.00	8,612.95	8,529.69	38.95	29.97	102.05	216.27	-866.78	1,577.42	1,533.67	43.75	36.053	
9,900.00	8,480.00	8,615.74	8,532.49	39.94	29.98	103.46	216.23	-866.80	1,677.19	1,633.41	43.78	38.309	
10,000.00	8,480.00	8,618.83	8,535.58	40.97	29.99	104.98	216.18	-866.82	1,776.98	1,733.17	43.81	40.563	
10,100.00	8,480.00	8,622.25	8,539.00	42.04	30.00	106.65	216.12	-866.83	1,876.79	1,832.95	43.84	42.815	
10,200.00	8,480.00	8,626.07	8,542.81	43.14	30.01	108.48	216.05	-866.85	1,976.61	1,932.75	43.86	45.063	
10,300.00	8,480.00	8,630.34	8,547.09	44.29	30.02	110.48	215.97	-866.87	2,076.45	2,032.56	43.89	47.309	
10,400.00	8,480.00	8,635.17	8,551.92	45.46	30.03	112.67	215.87	-866.88	2,176.30	2,132.38	43.92	49.552	
10,500.00	8,480.00	8,640.67	8,557.42	46.66	30.05	115.09	215.75	-866.90	2,276.16	2,232.21	43.95	51.790	
10,600.00	8,480.00	8,646.99	8,563.73	47.89	30.07	117.76	215.60	-866.91	2,376.02	2,332.04	43.98	54.024	
10,700.00	8,480.00	8,654.32	8,571.06	49.14	30.09	120.70	215.42	-866.92	2,475.89	2,431.87	44.01	56.253	
10,800.00	8,480.00	8,662.94	8,579.68	50.42	30.11	123.93	215.18	-866.91	2,575.76	2,531.71	44.05	58.476	
10,900.00	8,480.00	8,618.82	8,535.57	51.72	29.99	104.99	215.95	-866.70	2,675.54	2,631.54	44.00	60.814	
11,000.00	8,480.00	8,619.94	8,536.69	53.03	29.99	105.54	215.93	-866.71	2,775.45	2,731.44	44.02	63.051	
11,100.00	8,480.00	8,621.06	8,537.81	54.37	29.99	106.09	215.92	-866.71	2,875.38	2,831.33	44.04	65.286	
11,200.00	8,480.00	8,622.18	8,538.93	55.72	30.00	106.63	215.91	-866.72	2,975.30	2,931.23	44.07	67.517	
11,300.00	8,480.00	8,623.30	8,540.05	57.09	30.00	107.17	215.90	-866.73	3,075.23	3,031.14	44.09	69.746	
11,400.00	8,480.00	8,624.42	8,541.17	58.47	30.00	107.71	215.88	-866.74	3,175.16	3,131.05	44.12	71.972	
11,500.00	8,480.00	8,663.77	8,580.50	59.86	30.12	124.22	215.21	-866.96	3,275.10	3,230.89	44.21	74.085	
11,600.00	8,480.00	15,101.00	11,775.07	61.27	74.51	177.50	-3,247.45	-866.24	3,272.92	3,225.08	47.83	68.422	
11,700.00	8,480.00	15,164.30	11,772.95	62.69	75.40	177.50	-3,310.70	-865.60	3,269.99	3,221.44	48.54	67.360	
11,784.01	8,480.00	15,195.00	11,772.69	63.90	75.83	177.50	-3,341.41	-865.52	3,269.31	3,220.27	49.04	66.666	
11,800.00	8,480.00	15,195.00	11,772.69	64.13	75.83	177.50	-3,341.41	-865.52	3,269.35	3,220.24	49.11	66.575	
11,900.00	8,480.00	15,253.18	11,773.19	65.57	76.65	177.48	-3,399.58	-865.77	3,270.35	3,220.53	49.82	65.649	
12,000.00	8,480.00	15,321.56	11,774.85	67.02	77.62	177.46	-3,467.94	-866.62	3,272.80	3,222.22	50.57	64.714	
12,100.00	8,480.00	15,413.26	11,777.18	68.48	78.92	177.42	-3,559.59	-868.00	3,275.46	3,224.01	51.45	63.662	
12,200.00	8,480.00	15,479.00	11,779.44	69.95	79.86	177.39	-3,625.29	-869.08	3,279.00	3,226.79	52.21	62.801	
12,300.00	8,480.00	15,554.30	11,782.70	71.42	80.94	177.36	-3,700.50	-870.30	3,283.44	3,230.42	53.02	61.927	
12,400.00	8,480.00	15,616.97	11,785.93	72.91	81.84	177.34	-3,763.09	-871.14	3,288.73	3,234.95	53.78	61.153	
12,500.00	8,480.00	15,707.88	11,791.82	74.40	83.17	177.32	-3,853.81	-871.40	3,295.21	3,240.54	54.67	60.270	
12,600.00	8,480.00	16,005.04	11,799.35	75.90	87.54	177.39	-4,150.72	-864.88	3,296.27	3,239.66	56.61	58.225	
12,700.00	8,480.00	16,080.72	11,799.84	77.40	88.66	177.39	-4,226.40	-864.18	3,296.90	3,239.46	57.45	57.389	
12,800.00	8,480.00	16,142.00	11,800.47	78.91	89.56	177.37	-4,287.67	-864.50	3,298.17	3,239.96	58.21	56.661	
12,900.00	8,480.00	16,204.04	11,801.81	80.43	90.48	177.35	-4,349.70	-865.17	3,300.59	3,241.61	58.98	55.958	
13,000.00	8,480.00	16,270.80	11,804.46	81.95	91.47	177.33	-4,416.40	-865.70	3,304.54	3,244.76	59.78	55.280	
13,100.00	8,480.00	16,377.31	11,808.84	83.47	93.06	177.31	-4,522.82	-866.52	3,308.74	3,247.94	60.80	54.422	
13,200.00	8,480.00	16,452.31	11,811.88	85.00	94.18	177.29	-4,597.75	-867.02	3,312.95	3,251.30	61.64	53.743	
13,300.00	8,480.00	16,521.00	11,816.00	86.54	95.22	177.29	-4,666.32	-866.61	3,318.72	3,256.27	62.46	53.134	
13,400.00	8,480.00	16,607.97	11,821.84	88.08	96.54	177.31	-4,753.07	-864.86	3,325.29	3,261.92	63.37	52.474	
13,500.00	8,480.00	16,701.94	11,827.76	89.62	97.97	177.35	-4,846.79	-861.50	3,331.48	3,267.15	64.33	51.789	
13,600.00	8,480.00	16,761.58	11,831.97	91.17	98.89	177.40	-4,906.20	-858.28	3,338.36	3,273.28	65.08	51.296	
13,700.00	8,480.00	16,873.63	11,841.14	92.72	100.62	177.53	-5,017.57	-850.09	3,346.34	3,280.21	66.13	50.604	
13,800.00	8,480.00	17,050.14	11,852.12	94.27	103.35	177.70	-5,193.37	-838.99	3,352.33	3,284.79	67.55	49.630	
13,900.00	8,480.00	17,163.03	11,857.15	95.83	105.09	177.76	-5,306.05	-834.62	3,356.63	3,288.01	68.62	48.917	
14,000.00	8,480.00	17,269.96	11,862.02	97.39	106.73	177.76	-5,412.86	-833.33	3,361.18	3,291.52	69.66	48.252	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	8,480.00	17,344.28	11,865.50	98.95	107.88	177.79	-5,487.08	-831.43	3,365.81	3,295.28	70.53	47.724	
14,200.00	8,480.00	17,424.18	11,869.89	100.52	109.12	177.82	-5,566.81	-828.95	3,371.21	3,299.80	71.42	47.204	
14,300.00	8,480.00	17,525.63	11,875.72	102.09	110.69	177.82	-5,668.09	-827.93	3,376.95	3,304.51	72.44	46.614	
14,400.00	8,480.00	17,626.39	11,881.31	103.66	112.25	177.84	-5,768.67	-825.84	3,382.46	3,308.99	73.47	46.040	
14,500.00	8,480.00	17,784.03	11,887.77	105.23	114.68	177.80	-5,926.16	-827.18	3,386.30	3,311.47	74.83	45.252	
14,600.00	8,480.00	17,846.00	11,890.91	106.81	115.64	177.77	-5,988.04	-828.26	3,391.19	3,315.55	75.64	44.831	
14,700.00	8,480.00	17,874.61	11,892.82	108.39	116.08	177.76	-6,016.58	-828.63	3,397.44	3,321.20	76.24	44.564	
14,800.00	8,480.00	17,941.00	11,897.97	109.97	117.11	177.75	-6,082.77	-828.63	3,405.15	3,328.09	77.06	44.187	
14,900.00	8,480.00	18,023.87	11,905.05	111.55	118.41	177.76	-6,165.33	-827.70	3,413.64	3,335.66	77.99	43.773	
15,000.00	8,480.00	18,161.35	11,915.71	113.13	120.56	177.79	-6,302.36	-824.97	3,421.24	3,342.00	79.25	43.172	
15,100.00	8,480.00	18,390.49	11,929.42	114.72	124.18	177.95	-6,530.76	-813.48	3,427.43	3,346.39	81.05	42.290	
15,200.00	8,480.00	18,542.57	11,933.90	116.31	126.58	178.04	-6,682.61	-806.72	3,430.21	3,347.83	82.37	41.642	
15,300.00	8,480.00	18,603.00	11,935.29	117.90	127.53	178.06	-6,743.01	-805.44	3,432.66	3,349.48	83.18	41.268	
15,400.00	8,480.00	18,671.74	11,937.58	119.49	128.62	178.07	-6,811.70	-804.19	3,436.10	3,352.07	84.03	40.890	
15,500.00	8,480.00	18,731.69	11,940.54	121.08	129.56	178.08	-6,871.56	-803.02	3,440.97	3,356.14	84.83	40.563	
15,600.00	8,480.00	18,803.13	11,944.70	122.68	130.69	178.07	-6,942.89	-802.97	3,446.81	3,361.11	85.70	40.219	
15,700.00	8,480.00	18,900.96	11,950.74	124.27	132.22	178.03	-7,040.51	-804.83	3,453.08	3,366.34	86.74	39.811	
15,800.00	8,480.00	18,982.00	11,955.57	125.87	133.48	177.98	-7,121.37	-807.16	3,459.25	3,371.58	87.67	39.457	
15,900.00	8,480.00	19,032.65	11,959.08	127.47	134.28	177.95	-7,171.88	-808.48	3,466.54	3,378.14	88.40	39.213	
16,000.00	8,480.00	19,077.00	11,963.14	129.07	134.97	177.93	-7,216.04	-809.26	3,475.66	3,386.58	89.08	39.019	
16,100.00	8,480.00	19,312.40	11,981.91	130.67	138.69	177.90	-7,450.62	-809.34	3,483.87	3,392.83	91.04	38.269	
16,200.00	8,480.00	19,410.08	11,987.83	132.27	140.24	177.92	-7,548.11	-807.71	3,489.90	3,397.82	92.08	37.903	
16,300.00	8,480.00	19,536.39	11,994.96	133.88	142.24	177.89	-7,674.21	-808.14	3,495.61	3,402.31	93.30	37.465	
16,400.00	8,480.00	19,656.59	12,000.69	135.48	144.13	177.84	-7,794.24	-810.68	3,500.48	3,405.98	94.50	37.043	
16,500.00	8,480.00	19,740.00	12,004.54	137.09	145.45	177.78	-7,877.53	-813.11	3,505.26	3,409.80	95.46	36.719	
16,600.00	8,480.00	19,802.18	12,007.92	138.70	146.43	177.76	-7,939.60	-814.33	3,510.85	3,414.56	96.28	36.464	
16,700.00	8,480.00	20,069.29	12,020.00	140.30	150.67	177.69	-8,206.36	-816.08	3,516.72	3,418.33	98.38	35.745	
16,800.00	8,480.00	20,146.64	12,021.31	141.91	151.90	177.70	-8,283.70	-814.75	3,518.40	3,419.09	99.31	35.428	
16,900.00	8,480.00	20,213.00	12,023.05	143.52	152.96	177.71	-8,350.03	-813.92	3,521.00	3,420.82	100.17	35.149	
17,000.00	8,480.00	20,255.15	12,024.69	145.13	153.63	177.70	-8,392.14	-813.77	3,524.88	3,424.01	100.88	34.942	
17,100.00	8,480.00	20,308.00	12,027.64	146.75	154.48	177.69	-8,444.91	-814.07	3,530.38	3,428.75	101.64	34.735	
17,200.00	8,480.00	20,592.00	12,033.97	148.36	158.99	177.59	-8,728.75	-817.56	3,530.70	3,426.84	103.86	33.995	
17,300.00	8,480.00	20,662.46	12,034.51	149.97	160.11	177.58	-8,799.21	-817.48	3,531.62	3,426.86	104.76	33.712	
17,400.00	8,480.00	20,720.07	12,035.79	151.59	161.04	177.57	-8,856.80	-817.61	3,533.89	3,428.31	105.58	33.472	
17,500.00	8,480.00	20,781.00	12,037.87	153.20	162.01	177.57	-8,917.69	-817.12	3,537.29	3,430.88	106.41	33.243	
17,600.00	8,480.00	20,955.77	12,043.24	154.82	164.79	177.47	-9,092.23	-821.87	3,540.79	3,432.83	107.95	32.799	
17,700.00	8,480.00	21,065.00	12,044.67	156.44	166.51	177.36	-9,201.27	-827.82	3,542.37	3,433.26	109.11	32.466	
17,800.00	8,480.00	21,066.26	12,044.72	158.05	166.53	177.36	-9,202.53	-827.87	3,545.37	3,435.79	109.58	32.354	
17,900.00	8,480.00	21,159.00	12,048.52	159.67	168.00	177.27	-9,295.07	-832.51	3,549.76	3,439.13	110.63	32.088	
18,000.00	8,480.00	21,199.45	12,050.55	161.29	168.64	177.23	-9,335.41	-834.70	3,555.13	3,443.82	111.31	31.938	
18,100.00	8,480.00	21,254.00	12,054.50	162.91	169.50	177.19	-9,389.77	-836.94	3,562.34	3,450.26	112.08	31.784	
18,200.00	8,480.00	21,379.80	12,062.73	164.53	171.51	177.10	-9,515.20	-841.59	3,569.02	3,455.66	113.36	31.483	
18,300.00	8,480.00	21,443.00	12,067.90	166.15	172.52	177.09	-9,578.19	-841.84	3,576.91	3,462.74	114.17	31.329	
18,400.00	8,480.00	21,466.26	12,070.19	167.77	172.89	177.10	-9,601.34	-841.45	3,586.00	3,471.33	114.67	31.273	
18,500.00	8,480.00	21,842.84	12,097.81	169.40	178.99	177.33	-9,976.31	-824.45	3,596.13	3,478.53	117.59	30.581	
18,600.00	8,480.00	22,002.31	12,100.22	171.02	181.58	177.43	-10,135.56	-816.64	3,597.40	3,478.41	118.99	30.233	
18,700.00	8,480.00	22,065.79	12,100.53	172.64	182.61	177.46	-10,198.99	-814.24	3,598.03	3,478.18	119.85	30.021	
18,800.00	8,480.00	22,105.00	12,101.56	174.26	183.24	177.47	-10,238.17	-813.01	3,600.52	3,479.97	120.55	29.867	
18,900.00	8,480.00	22,173.56	12,104.30	175.89	184.36	177.52	-10,306.57	-809.21	3,604.31	3,482.89	121.42	29.685	
19,000.00	8,480.00	22,226.69	12,106.96	177.51	185.23	177.60	-10,359.39	-804.28	3,609.05	3,486.89	122.16	29.544	
19,100.00	8,480.00	22,294.00	12,111.64	179.14	186.33	177.67	-10,426.36	-799.41	3,615.50	3,492.51	122.99	29.397	
19,200.00	8,480.00	22,325.12	12,114.22	180.76	186.83	177.69	-10,457.33	-797.79	3,623.07	3,499.52	123.55	29.324	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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

Survey Program: 117-OWSG (Rev2) MWD, 1363-OWSG (Rev2) MWD, 23350-BLIND

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,300.00	8,480.00	22,398.67	12,120.67	182.39	188.03	177.73	-10,530.55	-794.99	3,631.73	3,507.31	124.42	29.189	
19,400.00	8,480.00	22,496.95	12,129.68	184.02	189.62	177.74	-10,628.39	-793.20	3,640.86	3,515.37	125.49	29.014	
19,500.00	8,480.00	22,632.18	12,140.69	185.64	191.80	177.74	-10,763.17	-792.64	3,648.87	3,522.03	126.84	28.767	
19,600.00	8,480.00	22,713.84	12,147.45	187.27	193.12	177.73	-10,844.55	-792.77	3,657.18	3,529.40	127.79	28.620	
19,700.00	8,480.00	22,802.85	12,155.20	188.90	194.55	177.72	-10,933.22	-792.56	3,665.92	3,537.13	128.78	28.466	
19,800.00	8,480.00	22,861.00	12,160.32	190.53	195.49	177.71	-10,991.15	-792.72	3,674.99	3,545.46	129.53	28.372	
19,899.80	8,480.00	22,955.00	12,169.75	192.15	197.01	177.71	-11,084.67	-792.15	3,685.01	3,554.44	130.57	28.223	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	25.08	25.08	0.00	0.03	-71.37	580.68	-1,722.59	1,817.83				
100.00	100.00	120.02	120.02	0.13	0.18	-71.37	580.73	-1,722.80	1,818.06	1,817.84	0.22	8,424.848	
200.00	200.00	197.74	197.74	0.48	0.45	-71.38	580.68	-1,723.52	1,818.94	1,818.28	0.66	2,746.992	
300.00	300.00	290.39	290.36	0.84	0.78	-71.43	579.88	-1,725.71	1,820.90	1,819.74	1.15	1,582.651	
400.00	400.00	373.85	373.78	1.20	1.09	-71.47	579.20	-1,728.13	1,823.37	1,821.75	1.62	1,127.026	
500.00	500.00	466.60	466.47	1.56	1.42	-71.52	578.60	-1,731.34	1,826.45	1,824.34	2.11	866.604	
600.00	600.00	566.26	566.05	1.92	1.78	-71.59	577.61	-1,735.08	1,829.70	1,827.09	2.61	699.828	
700.00	700.00	658.00	657.72	2.28	2.12	-71.65	576.69	-1,738.74	1,833.17	1,830.07	3.10	590.896	
800.00	800.00	816.00	815.57	2.63	2.68	-71.73	575.32	-1,743.00	1,835.53	1,831.78	3.75	489.695	
900.00	900.00	857.04	856.57	2.99	2.83	-71.76	574.92	-1,744.74	1,838.35	1,834.24	4.11	447.416	
1,000.00	1,000.00	951.56	950.99	3.35	3.17	-71.83	574.08	-1,749.00	1,842.36	1,837.76	4.60	400.218	
1,100.00	1,100.00	1,069.65	1,068.93	3.71	3.61	-71.96	571.44	-1,754.45	1,846.07	1,840.91	5.16	357.855	
1,200.00	1,200.00	1,155.25	1,154.40	4.07	3.92	-72.07	568.98	-1,758.42	1,849.59	1,843.96	5.63	328.405	
1,300.00	1,300.00	1,259.04	1,258.06	4.43	4.30	-72.18	566.92	-1,763.26	1,853.42	1,847.27	6.15	301.283	
1,400.00	1,400.00	1,320.00	1,318.93	4.79	4.52	-72.24	565.59	-1,766.17	1,857.63	1,851.07	6.56	283.137	
1,500.00	1,500.00	1,408.39	1,407.08	5.14	4.71	-72.38	562.84	-1,771.88	1,862.96	1,856.02	6.94	268.473	
1,600.00	1,600.00	1,499.00	1,497.21	5.50	4.89	-72.57	558.82	-1,780.39	1,870.50	1,863.18	7.32	255.472	
1,700.00	1,700.00	1,558.31	1,556.07	5.86	4.94	-72.73	555.67	-1,786.93	1,879.07	1,871.47	7.60	247.087	
1,800.00	1,800.00	1,759.64	1,756.21	6.22	5.14	-73.23	543.77	-1,804.91	1,886.35	1,878.34	8.01	235.579	
1,900.00	1,900.00	2,082.04	2,077.82	6.58	5.54	-73.70	526.39	-1,799.99	1,881.47	1,872.94	8.53	220.539	
2,000.00	2,000.00	2,193.82	2,189.20	6.94	5.71	-73.75	522.31	-1,791.49	1,873.16	1,864.24	8.92	210.056	
2,100.00	2,099.99	2,315.74	2,310.58	7.29	5.91	5.00	516.88	-1,781.35	1,862.63	1,853.31	9.32	199.825	
2,200.00	2,199.91	2,408.95	2,403.29	7.63	6.09	4.94	511.67	-1,773.34	1,848.94	1,839.23	9.71	190.383	
2,300.00	2,299.69	2,505.07	2,498.94	7.98	6.29	4.89	506.34	-1,765.41	1,833.01	1,822.89	10.11	181.238	
2,400.00	2,399.27	2,605.76	2,599.09	8.34	6.52	4.80	499.72	-1,757.38	1,814.50	1,803.96	10.53	172.308	
2,500.00	2,498.57	2,705.08	2,697.80	8.69	6.77	4.68	491.90	-1,749.72	1,793.31	1,782.35	10.96	163.689	
2,600.00	2,597.54	2,778.10	2,770.42	9.06	6.96	4.61	486.23	-1,744.53	1,770.20	1,758.84	11.36	155.874	
2,616.45	2,613.78	2,801.00	2,793.21	9.12	7.02	4.58	484.64	-1,743.06	1,766.32	1,754.89	11.44	154.447	
2,700.00	2,696.24	2,858.92	2,850.91	9.43	7.17	4.52	480.98	-1,739.52	1,746.62	1,734.86	11.77	148.421	
2,800.00	2,794.94	3,053.67	3,044.53	9.81	7.72	4.39	469.64	-1,722.53	1,721.00	1,708.69	12.31	139.819	
2,900.00	2,893.64	3,159.24	3,149.01	10.19	8.04	4.31	462.30	-1,709.34	1,691.35	1,678.59	12.76	132.594	
3,000.00	2,992.34	3,235.19	3,224.23	10.58	8.27	4.21	456.25	-1,700.84	1,662.71	1,649.52	13.18	126.130	
3,100.00	3,091.04	3,331.96	3,320.09	10.97	8.59	4.02	447.08	-1,691.23	1,634.86	1,621.22	13.64	119.871	
3,200.00	3,189.74	3,424.91	3,412.06	11.37	8.91	3.81	437.42	-1,681.83	1,606.63	1,592.53	14.10	113.974	
3,300.00	3,288.45	3,501.66	3,488.10	11.77	9.17	3.64	430.10	-1,674.50	1,579.18	1,564.63	14.54	108.604	
3,400.00	3,387.15	3,574.02	3,559.92	12.17	9.42	3.49	423.60	-1,668.61	1,553.18	1,538.19	14.98	103.669	
3,500.00	3,485.85	3,649.00	3,634.46	12.58	9.67	3.33	417.23	-1,663.53	1,528.60	1,513.17	15.43	99.079	
3,600.00	3,584.55	3,715.05	3,700.22	12.98	9.90	3.19	412.02	-1,660.13	1,505.72	1,489.86	15.86	94.918	
3,700.00	3,683.25	3,812.85	3,797.73	13.39	10.22	3.01	405.58	-1,656.25	1,484.31	1,467.97	16.34	90.845	
3,800.00	3,781.95	3,962.89	3,947.18	13.80	10.73	2.82	396.82	-1,646.45	1,460.62	1,443.74	16.87	86.560	
3,900.00	3,880.65	4,064.38	4,047.94	14.22	11.10	2.57	387.89	-1,638.29	1,434.83	1,417.47	17.36	82.646	
4,000.00	3,979.35	4,161.76	4,144.67	14.63	11.45	2.33	379.49	-1,630.79	1,409.44	1,391.60	17.85	78.981	
4,100.00	4,078.05	4,265.93	4,248.22	15.05	11.82	2.22	373.79	-1,621.09	1,383.25	1,364.92	18.33	75.467	
4,200.00	4,176.75	4,365.94	4,347.68	15.47	12.16	2.20	370.22	-1,611.24	1,357.02	1,338.21	18.81	72.162	
4,300.00	4,275.45	4,485.06	4,466.02	15.89	12.58	2.18	365.89	-1,598.37	1,329.88	1,310.59	19.29	68.941	
4,400.00	4,374.15	4,574.89	4,555.13	16.31	12.92	2.07	360.49	-1,588.37	1,301.90	1,282.13	19.77	65.853	
4,500.00	4,472.85	4,654.29	4,633.91	16.73	13.21	1.89	354.30	-1,580.64	1,274.82	1,254.57	20.25	62.952	
4,600.00	4,571.55	4,731.08	4,710.20	17.15	13.50	1.70	348.40	-1,574.29	1,249.18	1,228.44	20.73	60.258	
4,700.00	4,670.25	4,814.13	4,792.89	17.57	13.80	1.54	343.28	-1,568.46	1,225.03	1,203.81	21.21	57.749	
4,800.00	4,768.95	4,905.78	4,884.17	18.00	14.13	1.35	337.54	-1,562.54	1,201.44	1,179.73	21.70	55.359	
4,900.00	4,867.65	4,993.25	4,971.30	18.42	14.45	1.14	331.81	-1,557.55	1,178.51	1,156.32	22.19	53.107	
5,000.00	4,966.35	5,081.27	5,059.06	18.85	14.77	0.94	326.47	-1,553.26	1,156.49	1,133.81	22.68	50.991	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.05	5,178.70	5,156.23	19.28	15.11	0.73	321.09	-1,548.72	1,134.81	1,111.64	23.18	48.963	
5,200.00	5,163.76	5,277.59	5,254.87	19.70	15.47	0.51	315.68	-1,544.10	1,113.15	1,089.47	23.68	47.017	
5,300.00	5,262.46	5,381.08	5,358.07	20.13	15.84	0.27	309.93	-1,538.87	1,091.12	1,066.94	24.18	45.129	
5,400.00	5,361.16	5,504.36	5,480.90	20.56	16.29	-0.02	302.87	-1,531.35	1,068.17	1,043.49	24.68	43.273	
5,500.00	5,459.86	5,605.09	5,581.04	20.99	16.67	-0.34	295.52	-1,523.22	1,042.95	1,017.76	25.19	41.409	
5,600.00	5,558.56	5,696.99	5,672.39	21.42	17.03	-0.69	288.14	-1,516.41	1,018.26	992.57	25.69	39.632	
5,700.00	5,657.26	5,791.40	5,766.23	21.85	17.39	-1.10	280.17	-1,509.81	993.94	967.74	26.20	37.933	
5,800.00	5,755.96	5,887.49	5,861.78	22.28	17.75	-1.50	272.53	-1,503.14	969.82	943.11	26.71	36.307	
5,900.00	5,854.66	5,986.51	5,960.28	22.71	18.13	-1.91	265.14	-1,496.12	945.68	918.46	27.22	34.743	
6,000.00	5,953.36	6,085.23	6,058.47	23.14	18.51	-2.32	257.92	-1,488.84	921.33	893.60	27.73	33.227	
6,100.00	6,052.06	6,184.77	6,157.45	23.57	18.89	-2.76	250.67	-1,481.25	896.79	868.55	28.24	31.760	
6,200.00	6,150.76	6,275.08	6,247.27	24.01	19.23	-3.18	244.07	-1,474.51	872.45	843.70	28.75	30.343	
6,300.00	6,249.46	6,360.18	6,331.96	24.44	19.56	-3.61	237.79	-1,469.07	849.20	819.92	29.27	29.008	
6,400.00	6,348.16	6,444.22	6,415.69	24.87	19.87	-4.03	232.09	-1,464.92	827.47	797.68	29.79	27.774	
6,500.00	6,446.86	6,528.43	6,499.73	25.30	20.17	-4.39	227.62	-1,461.99	807.40	777.09	30.30	26.644	
6,600.00	6,545.56	6,615.57	6,586.81	25.74	20.47	-4.66	224.87	-1,460.14	788.92	758.12	30.81	25.610	
6,700.00	6,644.26	6,709.49	6,680.72	26.17	20.79	-4.80	224.07	-1,458.87	771.49	740.19	31.30	24.647	
6,804.31	6,747.22	6,812.45	6,783.67	26.62	21.13	-4.94	223.51	-1,457.58	753.44	721.62	31.82	23.679	
6,900.00	6,841.85	6,906.62	6,877.82	27.03	21.44	-5.04	223.02	-1,456.39	738.06	705.76	32.29	22.855	
7,000.00	6,941.09	7,005.58	6,976.78	27.44	21.77	-5.14	222.48	-1,455.19	724.56	691.77	32.79	22.098	
7,100.00	7,040.61	7,098.96	7,070.15	27.83	22.08	-5.23	221.88	-1,454.29	713.90	680.62	33.28	21.452	
7,200.00	7,140.36	7,189.01	7,160.20	28.20	22.37	-5.32	221.22	-1,454.60	707.11	673.35	33.76	20.945	
7,300.00	7,240.26	7,283.02	7,254.19	28.55	22.66	-5.43	220.46	-1,456.08	704.14	669.91	34.23	20.569	
7,346.21	7,286.45	7,328.11	7,299.28	28.70	22.80	-5.48	220.03	-1,456.98	703.83	669.38	34.45	20.430	CC
7,400.00	7,340.24	7,384.66	7,355.81	28.88	22.97	-5.54	219.43	-1,458.03	704.10	669.39	34.71	20.286	
7,420.77	7,361.00	7,406.48	7,377.63	28.95	23.04	-84.36	219.19	-1,458.38	704.35	669.55	34.81	20.235	
7,500.00	7,440.24	7,490.02	7,461.16	29.20	23.30	-84.44	218.27	-1,459.39	705.22	670.04	35.19	20.042	
7,600.00	7,540.24	7,591.25	7,562.38	29.52	23.62	-84.50	217.70	-1,460.09	705.86	670.20	35.66	19.797	
7,700.00	7,640.24	7,694.82	7,665.95	29.84	23.93	-84.48	217.93	-1,460.49	706.27	670.15	36.12	19.554	
7,800.00	7,740.24	7,795.29	7,766.42	30.16	24.25	-84.48	217.91	-1,460.55	706.33	669.74	36.59	19.306	
7,900.00	7,840.24	7,896.75	7,867.88	30.48	24.58	-84.48	217.91	-1,460.50	706.27	669.21	37.06	19.057	
7,966.81	7,907.04	7,965.12	7,936.25	30.69	24.80	-84.49	217.83	-1,460.32	706.09	668.71	37.38	18.889	
7,990.15	7,930.37	7,988.62	7,959.75	30.76	24.88	96.12	217.76	-1,460.23	706.04	668.55	37.49	18.832	
8,000.00	7,940.22	7,997.75	7,968.88	30.79	24.91	96.15	217.73	-1,460.20	706.06	668.52	37.54	18.810	ES
8,050.00	7,989.94	8,043.86	8,014.99	30.94	25.06	96.47	217.63	-1,460.18	706.60	668.84	37.75	18.715	
8,100.00	8,039.04	8,089.67	8,060.80	31.08	25.21	97.02	217.61	-1,460.40	707.95	669.99	37.96	18.648	
8,150.00	8,087.13	8,135.56	8,106.69	31.21	25.35	97.81	217.76	-1,460.76	710.21	672.05	38.16	18.611	
8,200.00	8,133.85	8,180.72	8,151.84	31.33	25.48	98.78	218.10	-1,461.22	713.55	675.20	38.35	18.604	SF
8,250.00	8,178.84	8,228.66	8,199.77	31.45	25.63	100.01	218.49	-1,461.63	718.04	679.49	38.55	18.627	
8,300.00	8,221.77	8,274.27	8,245.39	31.55	25.77	101.29	218.81	-1,461.83	723.86	685.12	38.75	18.682	
8,350.00	8,262.30	8,316.38	8,287.50	31.65	25.90	102.47	219.02	-1,461.91	731.40	692.46	38.95	18.778	
8,400.00	8,300.13	8,355.78	8,326.89	31.74	26.03	103.52	219.14	-1,461.90	741.01	701.85	39.16	18.922	
8,450.00	8,334.96	8,390.86	8,361.98	31.82	26.14	104.25	219.20	-1,461.85	752.99	713.61	39.39	19.118	
8,500.00	8,366.54	8,422.42	8,393.54	31.89	26.25	104.64	219.23	-1,461.82	767.63	728.00	39.62	19.373	
8,550.00	8,394.62	8,450.53	8,421.65	31.96	26.34	104.61	219.23	-1,461.80	785.06	745.19	39.87	19.690	
8,600.00	8,418.99	8,479.16	8,450.27	32.03	26.44	104.37	219.21	-1,461.72	805.30	765.17	40.13	20.068	
8,650.00	8,439.47	8,504.68	8,475.79	32.11	26.52	103.65	219.14	-1,461.50	828.27	787.88	40.39	20.507	
8,700.00	8,455.89	8,525.36	8,496.48	32.19	26.59	102.25	219.06	-1,461.20	853.91	813.26	40.65	21.008	
8,750.00	8,468.13	8,541.01	8,512.12	32.29	26.65	100.09	218.97	-1,460.92	882.09	841.19	40.90	21.569	
8,800.00	8,476.11	8,551.42	8,522.53	32.40	26.68	97.10	218.90	-1,460.69	912.58	871.45	41.13	22.186	
8,850.00	8,479.75	8,556.47	8,527.58	32.54	26.70	93.25	218.87	-1,460.58	945.09	903.73	41.35	22.854	
8,866.81	8,480.00	8,556.94	8,528.04	32.59	26.70	91.76	218.86	-1,460.57	956.40	914.97	41.42	23.088	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	8,480.00	8,557.25	8,528.36	32.70	26.70	91.78	218.86	-1,460.56	979.22	937.66	41.56	23.563	
9,000.00	8,480.00	8,558.21	8,529.31	33.09	26.70	91.86	218.85	-1,460.54	1,051.32	1,009.38	41.94	25.067	
9,100.00	8,480.00	8,559.18	8,530.29	33.57	26.71	91.94	218.85	-1,460.51	1,127.68	1,085.39	42.29	26.666	
9,200.00	8,480.00	8,560.17	8,531.28	34.14	26.71	92.02	218.84	-1,460.49	1,207.50	1,164.90	42.60	28.346	
9,300.00	8,480.00	8,561.19	8,532.29	34.79	26.71	92.10	218.83	-1,460.46	1,290.14	1,247.26	42.87	30.092	
9,400.00	8,480.00	8,562.22	8,533.32	35.50	26.72	92.19	218.82	-1,460.44	1,375.08	1,331.97	43.11	31.894	
9,500.00	8,480.00	8,563.27	8,534.37	36.28	26.72	92.27	218.82	-1,460.41	1,461.93	1,418.60	43.32	33.744	
9,600.00	8,480.00	8,564.34	8,535.44	37.11	26.73	92.36	218.81	-1,460.38	1,550.36	1,506.85	43.51	35.632	
9,700.00	8,480.00	8,565.43	8,536.54	38.01	26.73	92.45	218.80	-1,460.36	1,640.13	1,596.45	43.68	37.552	
9,800.00	8,480.00	8,566.55	8,537.65	38.95	26.73	92.54	218.79	-1,460.33	1,731.01	1,687.19	43.82	39.500	
9,900.00	8,480.00	8,567.69	8,538.79	39.94	26.74	92.63	218.78	-1,460.30	1,822.85	1,778.89	43.96	41.470	
10,000.00	8,480.00	8,568.85	8,539.95	40.97	26.74	92.73	218.77	-1,460.27	1,915.51	1,871.43	44.07	43.460	
10,100.00	8,480.00	8,570.03	8,541.14	42.04	26.74	92.82	218.76	-1,460.23	2,008.87	1,964.68	44.18	45.467	
10,200.00	8,480.00	8,571.24	8,542.34	43.14	26.75	92.92	218.75	-1,460.20	2,102.84	2,058.55	44.28	47.488	
10,300.00	8,480.00	8,563.73	8,534.84	44.29	26.72	92.31	218.82	-1,460.43	2,197.37	2,153.00	44.36	49.534	
10,400.00	8,480.00	8,564.28	8,535.39	45.46	26.73	92.36	218.82	-1,460.41	2,292.34	2,247.89	44.44	51.580	
10,500.00	8,480.00	8,564.83	8,535.93	46.66	26.73	92.40	218.81	-1,460.40	2,387.72	2,343.20	44.52	53.635	
10,600.00	8,480.00	8,565.37	8,536.48	47.89	26.73	92.44	218.81	-1,460.39	2,483.46	2,438.87	44.59	55.697	
10,700.00	8,480.00	8,565.91	8,537.02	49.14	26.73	92.49	218.81	-1,460.38	2,579.53	2,534.87	44.65	57.766	
10,800.00	8,480.00	8,566.45	8,537.55	50.42	26.73	92.53	218.80	-1,460.37	2,675.88	2,631.17	44.72	59.840	
10,900.00	8,480.00	8,566.98	8,538.08	51.72	26.73	92.58	218.80	-1,460.36	2,772.50	2,727.72	44.78	61.918	
11,000.00	8,480.00	8,567.51	8,538.61	53.03	26.74	92.62	218.80	-1,460.35	2,869.34	2,824.51	44.83	64.000	
11,100.00	8,480.00	8,568.03	8,539.13	54.37	26.74	92.66	218.79	-1,460.34	2,966.40	2,921.51	44.89	66.087	
11,200.00	8,480.00	8,568.55	8,539.66	55.72	26.74	92.70	218.79	-1,460.33	3,063.64	3,018.70	44.94	68.176	
11,300.00	8,480.00	8,569.07	8,540.17	57.09	26.74	92.75	218.79	-1,460.32	3,161.06	3,116.07	44.99	70.267	
11,400.00	8,480.00	8,569.58	8,540.69	58.47	26.74	92.79	218.78	-1,460.31	3,258.63	3,213.60	45.03	72.360	
11,500.00	8,480.00	8,570.09	8,541.20	59.86	26.75	92.83	218.78	-1,460.30	3,356.34	3,311.26	45.08	74.454	
11,600.00	8,480.00	8,570.60	8,541.71	61.27	26.75	92.87	218.78	-1,460.29	3,454.19	3,409.07	45.12	76.549	
11,700.00	8,480.00	8,571.11	8,542.21	62.69	26.75	92.91	218.77	-1,460.28	3,552.15	3,506.99	45.17	78.644	
11,800.00	8,480.00	8,571.61	8,542.71	64.13	26.75	92.95	218.77	-1,460.27	3,650.23	3,605.02	45.21	80.739	
11,900.00	8,480.00	8,572.11	8,543.21	65.57	26.75	92.99	218.77	-1,460.26	3,748.41	3,703.16	45.25	82.834	
12,000.00	8,480.00	8,572.60	8,543.70	67.02	26.75	93.03	218.77	-1,460.25	3,846.68	3,801.39	45.29	84.929	
12,100.00	8,480.00	8,573.09	8,544.19	68.48	26.76	93.07	218.76	-1,460.24	3,945.04	3,899.70	45.33	87.022	
12,200.00	8,480.00	8,573.58	8,544.68	69.95	26.76	93.11	218.76	-1,460.23	4,043.48	3,998.10	45.37	89.114	
12,300.00	8,480.00	8,574.07	8,545.17	71.42	26.76	93.15	218.76	-1,460.22	4,141.99	4,096.58	45.41	91.205	
12,400.00	8,480.00	8,574.55	8,545.65	72.91	26.76	93.19	218.75	-1,460.21	4,240.57	4,195.12	45.45	93.295	
12,500.00	8,480.00	8,575.03	8,546.13	74.40	26.76	93.23	218.75	-1,460.20	4,339.22	4,293.73	45.49	95.382	
12,600.00	8,480.00	8,575.50	8,546.61	75.90	26.76	93.27	218.75	-1,460.19	4,437.93	4,392.40	45.53	97.468	
12,700.00	8,480.00	8,575.98	8,547.08	77.40	26.77	93.31	218.75	-1,460.18	4,536.69	4,491.12	45.57	99.551	
12,800.00	8,480.00	8,576.45	8,547.55	78.91	26.77	93.35	218.74	-1,460.17	4,635.51	4,589.90	45.61	101.633	
12,900.00	8,480.00	8,576.91	8,548.02	80.43	26.77	93.38	218.74	-1,460.17	4,734.38	4,688.73	45.65	103.711	
13,000.00	8,480.00	8,577.38	8,548.48	81.95	26.77	93.42	218.74	-1,460.16	4,833.29	4,787.60	45.69	105.788	
13,100.00	8,480.00	8,577.84	8,548.94	83.47	26.77	93.46	218.73	-1,460.15	4,932.25	4,886.52	45.73	107.861	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	25.08	25.08	0.00	0.03	-71.37	580.68	-1,722.59	1,817.83				
100.00	100.00	120.02	120.02	0.13	0.18	-71.37	580.73	-1,722.80	1,818.06	1,817.84	0.22	8,424.848	
200.00	200.00	197.74	197.74	0.48	0.45	-71.38	580.68	-1,723.52	1,818.94	1,818.28	0.66	2,746.992	
300.00	300.00	290.39	290.36	0.84	0.78	-71.43	579.88	-1,725.71	1,820.90	1,819.74	1.15	1,582.651	
400.00	400.00	373.85	373.78	1.20	1.09	-71.47	579.20	-1,728.13	1,823.37	1,821.75	1.62	1,127.026	
500.00	500.00	466.60	466.47	1.56	1.42	-71.52	578.60	-1,731.34	1,826.45	1,824.34	2.11	866.604	
600.00	600.00	566.26	566.05	1.92	1.78	-71.59	577.61	-1,735.08	1,829.70	1,827.09	2.61	699.828	
700.00	700.00	658.00	657.72	2.28	2.12	-71.65	576.69	-1,738.74	1,833.17	1,830.07	3.10	590.896	
800.00	800.00	816.00	815.57	2.63	2.68	-71.73	575.32	-1,743.00	1,835.53	1,831.78	3.75	489.695	
900.00	900.00	857.04	856.57	2.99	2.83	-71.76	574.92	-1,744.74	1,838.35	1,834.24	4.11	447.416	
1,000.00	1,000.00	951.56	950.99	3.35	3.17	-71.83	574.08	-1,749.00	1,842.36	1,837.76	4.60	400.218	
1,100.00	1,100.00	1,069.65	1,068.93	3.71	3.61	-71.96	571.44	-1,754.45	1,846.07	1,840.91	5.16	357.855	
1,200.00	1,200.00	1,155.25	1,154.40	4.07	3.92	-72.07	568.98	-1,758.42	1,849.59	1,843.96	5.63	328.405	
1,300.00	1,300.00	1,259.04	1,258.06	4.43	4.30	-72.18	566.92	-1,763.26	1,853.42	1,847.27	6.15	301.283	
1,400.00	1,400.00	1,341.82	1,340.71	4.79	4.57	-72.27	565.03	-1,767.34	1,857.44	1,850.85	6.59	281.804	
1,500.00	1,500.00	1,409.00	1,407.71	5.14	4.70	-72.37	562.99	-1,771.87	1,862.96	1,856.02	6.94	268.575	
1,600.00	1,600.00	1,474.71	1,473.10	5.50	4.73	-72.50	560.35	-1,777.74	1,870.26	1,863.05	7.21	259.230	
1,700.00	1,700.00	1,558.32	1,556.10	5.86	4.80	-72.72	556.01	-1,786.81	1,879.07	1,871.55	7.52	249.984	
1,800.00	1,800.00	1,759.66	1,756.25	6.22	5.03	-73.22	544.12	-1,804.80	1,886.34	1,878.41	7.94	237.638	
1,900.00	1,900.00	2,082.02	2,077.82	6.58	5.48	-73.69	526.74	-1,799.87	1,881.46	1,872.98	8.49	221.691	
2,000.00	2,000.00	2,193.80	2,189.20	6.94	5.65	-73.73	522.66	-1,791.38	1,873.15	1,864.27	8.88	210.906	
2,100.00	2,099.99	2,315.73	2,310.59	7.29	5.87	5.01	517.23	-1,781.23	1,862.63	1,853.33	9.29	200.419	
2,200.00	2,199.91	2,408.94	2,403.30	7.63	6.06	4.95	512.02	-1,773.22	1,848.93	1,839.24	9.69	190.809	
2,300.00	2,299.69	2,505.06	2,498.95	7.98	6.27	4.90	506.69	-1,765.29	1,833.00	1,822.90	10.10	181.524	
2,400.00	2,399.27	2,605.75	2,599.10	8.34	6.50	4.81	500.07	-1,757.27	1,814.48	1,803.96	10.52	172.479	
2,500.00	2,498.57	2,705.07	2,697.82	8.69	6.76	4.69	492.25	-1,749.60	1,793.30	1,782.34	10.95	163.769	
2,600.00	2,597.54	2,778.10	2,770.44	9.06	6.95	4.62	486.58	-1,744.41	1,770.18	1,758.83	11.35	155.900	
2,616.45	2,613.78	2,801.00	2,793.24	9.12	7.02	4.60	484.99	-1,742.95	1,766.31	1,754.87	11.44	154.458	
2,700.00	2,696.24	2,858.91	2,850.93	9.43	7.18	4.53	481.33	-1,739.41	1,746.61	1,734.84	11.77	148.400	
2,800.00	2,794.94	3,053.66	3,044.54	9.81	7.73	4.40	469.99	-1,722.41	1,720.99	1,708.67	12.32	139.710	
2,900.00	2,893.64	3,159.24	3,149.03	10.19	8.06	4.32	462.65	-1,709.23	1,691.34	1,678.57	12.77	132.454	
3,000.00	2,992.34	3,235.18	3,224.25	10.58	8.30	4.22	456.60	-1,700.73	1,662.69	1,649.49	13.20	125.980	
3,100.00	3,091.04	3,331.97	3,320.12	10.97	8.62	4.04	447.43	-1,691.11	1,634.84	1,621.18	13.66	119.706	
3,200.00	3,189.74	3,424.92	3,412.08	11.37	8.94	3.82	437.77	-1,681.72	1,606.61	1,592.50	14.12	113.800	
3,300.00	3,288.45	3,501.66	3,488.12	11.77	9.21	3.66	430.45	-1,674.39	1,579.16	1,564.59	14.56	108.428	
3,400.00	3,387.15	3,574.02	3,559.94	12.17	9.46	3.50	423.95	-1,668.50	1,553.16	1,538.15	15.01	103.493	
3,500.00	3,485.85	3,649.00	3,634.48	12.58	9.72	3.34	417.58	-1,663.41	1,528.58	1,513.12	15.46	98.904	
3,600.00	3,584.55	3,715.05	3,700.24	12.98	9.94	3.20	412.37	-1,660.01	1,505.70	1,489.81	15.89	94.746	
3,700.00	3,683.25	3,812.84	3,797.74	13.39	10.27	3.03	405.93	-1,656.14	1,484.28	1,467.91	16.37	90.672	
3,800.00	3,781.95	3,962.89	3,947.19	13.80	10.79	2.83	397.17	-1,646.34	1,460.60	1,443.69	16.91	86.383	
3,900.00	3,880.65	4,064.39	4,047.97	14.22	11.15	2.59	388.23	-1,638.18	1,434.80	1,417.40	17.40	82.472	
4,000.00	3,979.35	4,161.76	4,144.68	14.63	11.51	2.35	379.84	-1,630.68	1,409.42	1,391.53	17.88	78.811	
4,100.00	4,078.05	4,265.91	4,248.22	15.05	11.88	2.24	374.14	-1,620.97	1,383.22	1,364.85	18.37	75.302	
4,200.00	4,176.75	4,365.92	4,347.68	15.47	12.23	2.21	370.57	-1,611.13	1,356.99	1,338.14	18.85	72.002	
4,300.00	4,275.45	4,485.04	4,466.02	15.89	12.65	2.19	366.24	-1,598.25	1,329.86	1,310.52	19.33	68.785	
4,400.00	4,374.15	4,574.89	4,555.14	16.31	12.99	2.08	360.84	-1,588.26	1,301.87	1,282.05	19.81	65.703	
4,500.00	4,472.85	4,654.29	4,633.92	16.73	13.28	1.91	354.65	-1,580.53	1,274.80	1,254.50	20.30	62.809	
4,600.00	4,571.55	4,731.07	4,710.21	17.15	13.57	1.72	348.75	-1,574.18	1,249.14	1,228.37	20.78	60.121	
4,700.00	4,670.25	4,814.13	4,792.90	17.57	13.88	1.56	343.63	-1,568.34	1,224.99	1,203.73	21.26	57.618	
4,800.00	4,768.95	4,905.78	4,884.19	18.00	14.21	1.37	337.89	-1,562.43	1,201.40	1,179.65	21.75	55.233	
4,900.00	4,867.65	4,993.24	4,971.32	18.42	14.53	1.16	332.16	-1,557.43	1,178.48	1,156.24	22.24	52.987	
5,000.00	4,966.35	5,081.27	5,059.08	18.85	14.85	0.96	326.82	-1,553.15	1,156.46	1,133.72	22.73	50.876	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.05	5,178.69	5,156.24	19.28	15.20	0.75	321.44	-1,548.60	1,134.77	1,111.55	23.23	48.852	
5,200.00	5,163.76	5,277.59	5,254.88	19.70	15.55	0.53	316.03	-1,543.99	1,113.11	1,089.38	23.73	46.910	
5,300.00	5,262.46	5,381.07	5,358.08	20.13	15.93	0.29	310.28	-1,538.76	1,091.08	1,066.85	24.23	45.027	
5,400.00	5,361.16	5,504.34	5,480.91	20.56	16.38	0.00	303.22	-1,531.23	1,068.13	1,043.39	24.74	43.175	
5,500.00	5,459.86	5,605.09	5,581.06	20.99	16.76	-0.32	295.87	-1,523.11	1,042.91	1,017.66	25.24	41.315	
5,600.00	5,558.56	5,696.99	5,672.41	21.42	17.11	-0.67	288.49	-1,516.30	1,018.22	992.47	25.75	39.542	
5,700.00	5,657.26	5,791.40	5,766.25	21.85	17.48	-1.07	280.52	-1,509.69	993.90	967.64	26.26	37.849	
5,800.00	5,755.96	5,887.49	5,861.80	22.28	17.84	-1.48	272.88	-1,503.03	969.77	943.00	26.77	36.226	
5,900.00	5,854.66	5,986.51	5,960.29	22.71	18.22	-1.88	265.49	-1,496.01	945.62	918.34	27.28	34.666	
6,000.00	5,953.36	6,085.23	6,058.48	23.14	18.60	-2.30	258.27	-1,488.73	921.27	893.48	27.79	33.154	
6,100.00	6,052.06	6,184.77	6,157.47	23.57	18.98	-2.74	251.02	-1,481.14	896.73	868.43	28.30	31.691	
6,200.00	6,150.76	6,275.08	6,247.29	24.01	19.33	-3.16	244.42	-1,474.39	872.39	843.57	28.81	30.277	
6,300.00	6,249.46	6,360.18	6,331.98	24.44	19.65	-3.59	238.14	-1,468.96	849.13	819.80	29.34	28.945	
6,400.00	6,348.16	6,444.21	6,415.71	24.87	19.96	-4.01	232.44	-1,464.81	827.41	797.55	29.85	27.714	
6,500.00	6,446.86	6,528.42	6,499.75	25.30	20.27	-4.37	227.97	-1,461.87	807.33	776.96	30.37	26.587	
6,600.00	6,545.56	6,615.56	6,586.82	25.74	20.57	-4.63	225.22	-1,460.02	788.85	757.98	30.87	25.555	
6,700.00	6,644.26	6,709.47	6,680.72	26.17	20.88	-4.77	224.42	-1,458.76	771.41	740.05	31.36	24.595	
6,804.31	6,747.22	6,812.43	6,783.67	26.62	21.23	-4.91	223.86	-1,457.47	753.37	721.48	31.88	23.629	
6,900.00	6,841.85	6,906.59	6,877.82	27.03	21.54	-5.01	223.37	-1,456.27	737.98	705.62	32.36	22.807	
7,000.00	6,941.09	7,005.56	6,976.78	27.44	21.87	-5.11	222.83	-1,455.08	724.49	691.63	32.85	22.052	
7,100.00	7,040.61	7,098.94	7,070.15	27.83	22.18	-5.20	222.23	-1,454.18	713.82	680.48	33.35	21.407	
7,200.00	7,140.36	7,188.99	7,160.21	28.20	22.47	-5.30	221.57	-1,454.48	707.03	673.21	33.83	20.902	
7,300.00	7,240.26	7,283.00	7,254.20	28.55	22.76	-5.40	220.81	-1,455.97	704.06	669.76	34.30	20.527	
7,346.24	7,286.48	7,328.13	7,299.31	28.70	22.90	-5.45	220.38	-1,456.86	703.75	669.24	34.52	20.388	CC
7,400.00	7,340.24	7,384.64	7,355.81	28.88	23.08	-5.51	219.78	-1,457.92	704.02	669.25	34.78	20.244	
7,420.77	7,361.00	7,406.47	7,377.64	28.95	23.14	-84.33	219.54	-1,458.26	704.27	669.40	34.88	20.193	
7,500.00	7,440.24	7,490.00	7,461.16	29.20	23.41	-84.42	218.62	-1,459.28	705.15	669.89	35.26	20.001	
7,600.00	7,540.24	7,591.23	7,562.38	29.52	23.72	-84.47	218.05	-1,459.98	705.78	670.05	35.73	19.756	
7,700.00	7,640.24	7,694.79	7,665.95	29.84	24.04	-84.45	218.28	-1,460.38	706.19	670.00	36.19	19.514	
7,800.00	7,740.24	7,795.26	7,766.42	30.16	24.36	-84.45	218.26	-1,460.44	706.25	669.59	36.66	19.266	
7,900.00	7,840.24	7,896.73	7,867.88	30.48	24.68	-84.45	218.26	-1,460.39	706.19	669.06	37.13	19.018	
7,966.81	7,907.04	7,965.09	7,936.25	30.69	24.91	-84.46	218.18	-1,460.21	706.01	668.56	37.45	18.850	
7,990.08	7,930.30	7,988.54	7,959.69	30.76	24.99	96.15	218.11	-1,460.11	705.96	668.40	37.56	18.794	
8,000.00	7,940.22	7,997.73	7,968.88	30.79	25.02	96.18	218.08	-1,460.08	705.98	668.37	37.61	18.772	ES
8,050.00	7,989.94	8,043.84	8,015.00	30.94	25.17	96.50	217.98	-1,460.07	706.52	668.69	37.83	18.678	
8,100.00	8,039.04	8,089.65	8,060.80	31.08	25.32	97.05	217.96	-1,460.28	707.88	669.84	38.04	18.611	
8,150.00	8,087.13	8,135.54	8,106.69	31.21	25.46	97.84	218.10	-1,460.64	710.14	671.91	38.23	18.574	
8,200.00	8,133.85	8,180.70	8,151.84	31.33	25.60	98.81	218.45	-1,461.11	713.49	675.07	38.43	18.567	SF
8,250.00	8,178.84	8,228.63	8,199.77	31.45	25.74	100.04	218.84	-1,461.52	717.99	679.37	38.62	18.590	
8,300.00	8,221.77	8,274.25	8,245.39	31.55	25.88	101.31	219.16	-1,461.72	723.83	685.01	38.82	18.646	
8,350.00	8,262.30	8,316.35	8,287.49	31.65	26.02	102.50	219.37	-1,461.79	731.39	692.36	39.02	18.742	
8,400.00	8,300.13	8,355.75	8,326.89	31.74	26.14	103.54	219.49	-1,461.79	741.01	701.77	39.24	18.885	
8,450.00	8,334.96	8,390.84	8,361.98	31.82	26.26	104.27	219.55	-1,461.74	753.01	713.55	39.46	19.082	
8,500.00	8,366.54	8,422.40	8,393.54	31.89	26.36	104.65	219.58	-1,461.71	767.66	727.96	39.70	19.337	
8,550.00	8,394.62	8,450.51	8,421.65	31.96	26.45	104.62	219.58	-1,461.68	785.11	745.16	39.95	19.655	
8,600.00	8,418.99	8,479.13	8,450.27	32.03	26.55	104.38	219.56	-1,461.61	805.37	765.17	40.20	20.033	
8,650.00	8,439.47	8,504.65	8,475.79	32.11	26.64	103.66	219.49	-1,461.38	828.35	787.89	40.46	20.471	
8,700.00	8,455.89	8,525.34	8,496.47	32.19	26.71	102.25	219.41	-1,461.09	854.01	813.29	40.72	20.972	
8,750.00	8,468.13	8,540.98	8,512.11	32.29	26.76	100.09	219.32	-1,460.80	882.21	841.24	40.97	21.533	
8,800.00	8,476.11	8,551.40	8,522.53	32.40	26.80	97.11	219.25	-1,460.58	912.72	871.51	41.21	22.149	
8,850.00	8,479.75	8,556.44	8,527.57	32.54	26.81	93.25	219.22	-1,460.46	945.23	903.80	41.43	22.817	
8,866.81	8,480.00	8,556.91	8,528.04	32.59	26.81	91.76	219.21	-1,460.45	956.55	915.05	41.50	23.051	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	8,480.00	8,557.22	8,528.35	32.70	26.82	91.78	219.21	-1,460.45	979.38	937.75	41.63	23.525	
9,000.00	8,480.00	8,558.18	8,529.31	33.09	26.82	91.86	219.20	-1,460.42	1,051.50	1,009.49	42.01	25.027	
9,100.00	8,480.00	8,559.15	8,530.28	33.57	26.82	91.94	219.20	-1,460.40	1,127.88	1,085.52	42.36	26.625	
9,200.00	8,480.00	8,560.15	8,531.27	34.14	26.83	92.02	219.19	-1,460.38	1,207.72	1,165.05	42.67	28.303	
9,300.00	8,480.00	8,561.16	8,532.28	34.79	26.83	92.10	219.18	-1,460.35	1,290.37	1,247.42	42.94	30.048	
9,400.00	8,480.00	8,562.19	8,533.31	35.50	26.83	92.19	219.17	-1,460.32	1,375.32	1,332.14	43.18	31.848	
9,500.00	8,480.00	8,563.24	8,534.36	36.28	26.84	92.27	219.17	-1,460.30	1,462.18	1,418.78	43.39	33.695	
9,600.00	8,480.00	8,564.31	8,535.44	37.11	26.84	92.36	219.16	-1,460.27	1,550.62	1,507.04	43.58	35.580	
9,700.00	8,480.00	8,565.40	8,536.53	38.01	26.84	92.45	219.15	-1,460.24	1,640.39	1,596.64	43.75	37.498	
9,800.00	8,480.00	8,566.52	8,537.64	38.95	26.85	92.54	219.14	-1,460.21	1,731.28	1,687.39	43.89	39.443	
9,900.00	8,480.00	8,567.66	8,538.78	39.94	26.85	92.63	219.13	-1,460.18	1,823.13	1,779.10	44.03	41.411	
10,000.00	8,480.00	8,568.82	8,539.94	40.97	26.85	92.73	219.12	-1,460.15	1,915.79	1,871.64	44.14	43.399	
10,100.00	8,480.00	8,570.00	8,541.13	42.04	26.86	92.82	219.11	-1,460.12	2,009.15	1,964.90	44.25	45.403	
10,200.00	8,480.00	8,571.21	8,542.33	43.14	26.86	92.92	219.10	-1,460.09	2,103.13	2,058.77	44.35	47.421	
10,300.00	8,480.00	8,563.72	8,534.84	44.29	26.84	92.31	219.17	-1,460.31	2,197.66	2,153.23	44.43	49.464	
10,400.00	8,480.00	8,564.27	8,535.39	45.46	26.84	92.36	219.17	-1,460.30	2,292.63	2,248.12	44.51	51.507	
10,500.00	8,480.00	8,564.81	8,535.94	46.66	26.84	92.40	219.16	-1,460.29	2,388.02	2,343.43	44.59	53.559	
10,600.00	8,480.00	8,565.35	8,536.48	47.89	26.84	92.45	219.16	-1,460.28	2,483.76	2,439.11	44.66	55.618	
10,700.00	8,480.00	8,565.89	8,537.02	49.14	26.85	92.49	219.16	-1,460.27	2,579.83	2,535.11	44.72	57.685	
10,800.00	8,480.00	8,566.43	8,537.55	50.42	26.85	92.53	219.15	-1,460.26	2,676.19	2,631.40	44.79	59.755	
10,900.00	8,480.00	8,566.96	8,538.09	51.72	26.85	92.58	219.15	-1,460.25	2,772.81	2,727.96	44.85	61.831	
11,000.00	8,480.00	8,567.49	8,538.61	53.03	26.85	92.62	219.15	-1,460.24	2,869.65	2,824.75	44.90	63.910	
11,100.00	8,480.00	8,568.01	8,539.14	54.37	26.85	92.66	219.14	-1,460.22	2,966.71	2,921.75	44.95	65.993	
11,200.00	8,480.00	8,568.53	8,539.66	55.72	26.85	92.70	219.14	-1,460.21	3,063.95	3,018.95	45.01	68.080	
11,300.00	8,480.00	8,569.05	8,540.18	57.09	26.86	92.75	219.14	-1,460.20	3,161.37	3,116.32	45.05	70.168	
11,400.00	8,480.00	8,569.57	8,540.69	58.47	26.86	92.79	219.13	-1,460.19	3,258.94	3,213.84	45.10	72.258	
11,500.00	8,480.00	8,570.08	8,541.20	59.86	26.86	92.83	219.13	-1,460.18	3,356.66	3,311.51	45.15	74.349	
11,600.00	8,480.00	8,570.58	8,541.71	61.27	26.86	92.87	219.13	-1,460.17	3,454.51	3,409.32	45.19	76.441	
11,700.00	8,480.00	8,571.09	8,542.21	62.69	26.86	92.91	219.12	-1,460.16	3,552.47	3,507.24	45.24	78.533	
11,800.00	8,480.00	15,407.28	12,050.00	64.13	75.37	168.67	-3,362.20	-1,432.97	3,614.00	3,562.79	51.21	70.572	
11,900.00	8,480.00	15,507.28	12,050.00	65.57	76.79	168.66	-3,462.20	-1,432.09	3,614.02	3,561.86	52.16	69.284	
12,000.00	8,480.00	15,607.28	12,050.00	67.02	78.23	168.66	-3,562.20	-1,431.22	3,614.04	3,560.92	53.12	68.032	
12,100.00	8,480.00	15,707.28	12,050.00	68.48	79.68	168.66	-3,662.19	-1,430.34	3,614.06	3,559.97	54.09	66.816	
12,200.00	8,480.00	15,807.28	12,050.00	69.95	81.13	168.66	-3,762.19	-1,429.47	3,614.09	3,559.02	55.07	65.632	
12,300.00	8,480.00	15,907.28	12,050.00	71.42	82.59	168.66	-3,862.18	-1,428.59	3,614.11	3,558.06	56.05	64.481	
12,400.00	8,480.00	16,007.28	12,050.00	72.91	84.06	168.65	-3,962.18	-1,427.71	3,614.13	3,557.09	57.04	63.361	
12,500.00	8,480.00	16,107.28	12,050.00	74.40	85.54	168.65	-4,062.18	-1,426.84	3,614.16	3,556.12	58.04	62.272	
12,600.00	8,480.00	16,207.28	12,050.00	75.90	87.02	168.65	-4,162.17	-1,425.96	3,614.18	3,555.14	59.04	61.213	
12,700.00	8,480.00	16,307.28	12,050.00	77.40	88.51	168.65	-4,262.17	-1,425.09	3,614.20	3,554.15	60.05	60.183	
12,800.00	8,480.00	16,407.28	12,050.00	78.91	90.00	168.65	-4,362.17	-1,424.21	3,614.23	3,553.15	61.07	59.181	
12,900.00	8,480.00	16,507.28	12,050.00	80.43	91.50	168.65	-4,462.16	-1,423.33	3,614.25	3,552.16	62.09	58.208	
13,000.00	8,480.00	16,607.28	12,050.00	81.95	93.00	168.64	-4,562.16	-1,422.46	3,614.27	3,551.15	63.12	57.259	
13,100.00	8,480.00	16,707.28	12,050.00	83.47	94.51	168.64	-4,662.15	-1,421.58	3,614.29	3,550.14	64.16	56.337	
13,200.00	8,480.00	16,807.28	12,050.00	85.00	96.02	168.64	-4,762.15	-1,420.70	3,614.32	3,549.12	65.19	55.440	
13,300.00	8,480.00	16,907.28	12,050.00	86.54	97.54	168.64	-4,862.15	-1,419.83	3,614.34	3,548.10	66.24	54.568	
13,400.00	8,480.00	17,007.28	12,050.00	88.08	99.06	168.64	-4,962.14	-1,418.95	3,614.36	3,547.08	67.28	53.720	
13,500.00	8,480.00	17,107.28	12,050.00	89.62	100.59	168.63	-5,062.14	-1,418.08	3,614.39	3,546.05	68.33	52.895	
13,600.00	8,480.00	17,207.28	12,050.00	91.17	102.12	168.63	-5,162.13	-1,417.20	3,614.41	3,545.02	69.38	52.092	
13,700.00	8,480.00	17,307.28	12,050.00	92.72	103.65	168.63	-5,262.13	-1,416.32	3,614.43	3,543.99	70.44	51.310	
13,800.00	8,480.00	17,407.28	12,050.00	94.27	105.19	168.63	-5,362.13	-1,415.45	3,614.45	3,542.95	71.51	50.548	
13,900.00	8,480.00	17,507.28	12,050.00	95.83	106.73	168.63	-5,462.12	-1,414.57	3,614.48	3,541.91	72.57	49.806	
14,000.00	8,480.00	17,607.28	12,050.00	97.39	108.28	168.63	-5,562.12	-1,413.70	3,614.50	3,540.86	73.64	49.084	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	8,480.00	17,707.28	12,050.00	98.95	109.82	168.62	-5,662.11	-1,412.82	3,614.52	3,539.81	74.71	48.380	
14,200.00	8,480.00	17,807.28	12,050.00	100.52	111.37	168.62	-5,762.11	-1,411.94	3,614.55	3,538.76	75.79	47.694	
14,300.00	8,480.00	17,907.28	12,050.00	102.09	112.93	168.62	-5,862.11	-1,411.07	3,614.57	3,537.70	76.87	47.025	
14,400.00	8,480.00	18,007.28	12,050.00	103.66	114.48	168.62	-5,962.10	-1,410.19	3,614.59	3,536.65	77.95	46.373	
14,500.00	8,480.00	18,107.28	12,050.00	105.23	116.04	168.62	-6,062.10	-1,409.32	3,614.62	3,535.59	79.03	45.737	
14,600.00	8,480.00	18,207.28	12,050.00	106.81	117.60	168.61	-6,162.10	-1,408.44	3,614.64	3,534.52	80.12	45.117	
14,700.00	8,480.00	18,307.28	12,050.00	108.39	119.16	168.61	-6,262.09	-1,407.56	3,614.66	3,533.46	81.20	44.513	
14,800.00	8,480.00	18,407.28	12,050.00	109.97	120.73	168.61	-6,362.09	-1,406.69	3,614.68	3,532.39	82.29	43.924	
14,900.00	8,480.00	18,507.28	12,050.00	111.55	122.30	168.61	-6,462.08	-1,405.81	3,614.71	3,531.32	83.39	43.349	
15,000.00	8,480.00	18,607.28	12,050.00	113.13	123.87	168.61	-6,562.08	-1,404.94	3,614.73	3,530.25	84.48	42.788	
15,100.00	8,480.00	18,707.28	12,050.00	114.72	125.44	168.61	-6,662.08	-1,404.06	3,614.75	3,529.18	85.58	42.241	
15,200.00	8,480.00	18,807.28	12,050.00	116.31	127.01	168.60	-6,762.07	-1,403.18	3,614.78	3,528.10	86.67	41.706	
15,300.00	8,480.00	18,907.28	12,050.00	117.90	128.59	168.60	-6,862.07	-1,402.31	3,614.80	3,527.03	87.77	41.183	
15,400.00	8,480.00	19,007.28	12,050.00	119.49	130.17	168.60	-6,962.06	-1,401.43	3,614.82	3,525.95	88.88	40.673	
15,500.00	8,480.00	19,107.28	12,050.00	121.08	131.75	168.60	-7,062.06	-1,400.55	3,614.85	3,524.87	89.98	40.174	
15,600.00	8,480.00	19,207.28	12,050.00	122.68	133.33	168.60	-7,162.06	-1,399.68	3,614.87	3,523.78	91.09	39.686	
15,700.00	8,480.00	19,307.28	12,050.00	124.27	134.91	168.59	-7,262.05	-1,398.80	3,614.89	3,522.70	92.19	39.210	
15,800.00	8,480.00	19,407.28	12,050.00	125.87	136.50	168.59	-7,362.05	-1,397.93	3,614.91	3,521.61	93.30	38.744	
15,900.00	8,480.00	19,507.28	12,050.00	127.47	138.08	168.59	-7,462.04	-1,397.05	3,614.94	3,520.52	94.41	38.288	
16,000.00	8,480.00	19,607.28	12,050.00	129.07	139.67	168.59	-7,562.04	-1,396.17	3,614.96	3,519.43	95.53	37.842	
16,100.00	8,480.00	19,707.28	12,050.00	130.67	141.26	168.59	-7,662.04	-1,395.30	3,614.98	3,518.34	96.64	37.406	
16,200.00	8,480.00	19,807.28	12,050.00	132.27	142.85	168.59	-7,762.03	-1,394.42	3,615.01	3,517.25	97.76	36.980	
16,300.00	8,480.00	19,907.28	12,050.00	133.88	144.44	168.58	-7,862.03	-1,393.55	3,615.03	3,516.16	98.87	36.562	
16,400.00	8,480.00	20,007.28	12,050.00	135.48	146.04	168.58	-7,962.02	-1,392.67	3,615.05	3,515.06	99.99	36.154	
16,500.00	8,480.00	20,107.28	12,050.00	137.09	147.63	168.58	-8,062.02	-1,391.79	3,615.08	3,513.97	101.11	35.754	
16,600.00	8,480.00	20,207.28	12,050.00	138.70	149.23	168.58	-8,162.02	-1,390.92	3,615.10	3,512.87	102.23	35.362	
16,700.00	8,480.00	20,307.28	12,050.00	140.30	150.82	168.58	-8,262.01	-1,390.04	3,615.12	3,511.77	103.35	34.978	
16,800.00	8,480.00	20,407.28	12,050.00	141.91	152.42	168.57	-8,362.01	-1,389.17	3,615.15	3,510.67	104.48	34.602	
16,900.00	8,480.00	20,507.28	12,050.00	143.52	154.02	168.57	-8,462.01	-1,388.29	3,615.17	3,509.57	105.60	34.234	
17,000.00	8,480.00	20,607.28	12,050.00	145.13	155.62	168.57	-8,562.00	-1,387.41	3,615.19	3,508.46	106.73	33.873	
17,100.00	8,480.00	20,707.28	12,050.00	146.75	157.22	168.57	-8,662.00	-1,386.54	3,615.21	3,507.36	107.85	33.520	
17,200.00	8,480.00	20,807.28	12,050.00	148.36	158.83	168.57	-8,761.99	-1,385.66	3,615.24	3,506.26	108.98	33.174	
17,300.00	8,480.00	20,907.28	12,050.00	149.97	160.43	168.57	-8,861.99	-1,384.79	3,615.26	3,505.16	110.11	32.834	
17,400.00	8,480.00	21,007.28	12,050.00	151.59	162.03	168.56	-8,961.99	-1,383.91	3,615.28	3,504.05	111.23	32.502	
17,500.00	8,480.00	21,107.28	12,050.00	153.20	163.64	168.56	-9,061.98	-1,383.03	3,615.31	3,502.95	112.36	32.176	
17,600.00	8,480.00	21,207.28	12,050.00	154.82	165.25	168.56	-9,161.98	-1,382.16	3,615.33	3,501.84	113.49	31.856	
17,700.00	8,480.00	21,307.28	12,050.00	156.44	166.85	168.56	-9,261.97	-1,381.28	3,615.35	3,500.73	114.62	31.542	
17,800.00	8,480.00	21,407.28	12,050.00	158.05	168.46	168.56	-9,361.97	-1,380.40	3,615.38	3,499.63	115.75	31.234	
17,900.00	8,480.00	21,507.28	12,050.00	159.67	170.07	168.55	-9,461.97	-1,379.53	3,615.40	3,498.52	116.88	30.932	
18,000.00	8,480.00	21,607.28	12,050.00	161.29	171.68	168.55	-9,561.96	-1,378.65	3,615.42	3,497.41	118.01	30.636	
18,100.00	8,480.00	21,707.28	12,050.00	162.91	173.29	168.55	-9,661.96	-1,377.78	3,615.45	3,496.30	119.15	30.344	
18,200.00	8,480.00	21,807.28	12,050.00	164.53	174.90	168.55	-9,761.95	-1,376.90	3,615.47	3,495.19	120.28	30.058	
18,300.00	8,480.00	21,907.28	12,050.00	166.15	176.51	168.55	-9,861.95	-1,376.02	3,615.49	3,494.08	121.42	29.778	
18,400.00	8,480.00	22,007.28	12,050.00	167.77	178.12	168.55	-9,961.95	-1,375.15	3,615.52	3,492.96	122.55	29.502	
18,500.00	8,480.00	22,107.28	12,050.00	169.40	179.74	168.54	-10,061.94	-1,374.27	3,615.54	3,491.85	123.69	29.231	
18,600.00	8,480.00	22,207.28	12,050.00	171.02	181.35	168.54	-10,161.94	-1,373.40	3,615.56	3,490.74	124.82	28.965	
18,700.00	8,480.00	22,307.28	12,050.00	172.64	182.97	168.54	-10,261.93	-1,372.52	3,615.58	3,489.62	125.96	28.704	
18,800.00	8,480.00	22,407.28	12,050.00	174.26	184.58	168.54	-10,361.93	-1,371.64	3,615.61	3,488.51	127.10	28.447	
18,900.00	8,480.00	22,507.28	12,050.00	175.89	186.20	168.54	-10,461.93	-1,370.77	3,615.63	3,487.39	128.24	28.194	
19,000.00	8,480.00	22,607.28	12,050.00	177.51	187.81	168.53	-10,561.92	-1,369.89	3,615.65	3,486.27	129.38	27.946	
19,100.00	8,480.00	22,707.27	12,050.00	179.14	189.43	168.53	-10,661.92	-1,369.02	3,615.68	3,485.16	130.52	27.702	
19,200.00	8,480.00	22,807.27	12,050.00	180.76	191.05	168.53	-10,761.92	-1,368.14	3,615.70	3,484.04	131.66	27.462	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,300.00	8,480.00	22,907.27	12,050.00	182.39	192.67	168.53	-10,861.91	-1,367.26	3,615.72	3,482.92	132.80	27.226	
19,400.00	8,480.00	23,007.27	12,050.00	184.02	194.29	168.53	-10,961.91	-1,366.39	3,615.75	3,481.80	133.94	26.994	
19,500.00	8,480.00	23,107.27	12,050.00	185.64	195.91	168.53	-11,061.90	-1,365.51	3,615.77	3,480.68	135.09	26.766	
19,600.00	8,480.00	23,207.27	12,050.00	187.27	197.53	168.52	-11,161.90	-1,364.64	3,615.79	3,479.56	136.23	26.542	
19,700.00	8,480.00	23,307.27	12,050.00	188.90	199.15	168.52	-11,261.90	-1,363.76	3,615.82	3,478.44	137.37	26.321	
19,800.00	8,480.00	23,407.27	12,050.00	190.53	200.75	168.52	-11,361.89	-1,362.88	3,615.84	3,477.34	138.50	26.108	
19,899.80	8,480.00	23,504.65	12,050.00	192.15	202.16	168.52	-11,459.26	-1,362.03	3,615.86	3,476.49	139.37	25.944	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Judge Baylor Fed Com - Judge Baylor Fed Com 601H - OH - Plan #5

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	39.00	39.00	0.00	0.05	-82.25	500.50	-3,678.35	3,712.24				
100.00	100.00	139.00	139.00	0.13	0.27	-82.25	500.50	-3,678.35	3,712.24	3,711.95	0.29	N/A	
200.00	200.00	239.00	239.00	0.48	0.62	-82.25	500.50	-3,678.35	3,712.24	3,711.46	0.79	4,702.258	
300.00	300.00	339.00	339.00	0.84	0.98	-82.25	500.50	-3,678.35	3,712.24	3,710.95	1.29	2,868.851	
400.00	400.00	439.00	439.00	1.20	1.34	-82.25	500.50	-3,678.35	3,712.24	3,710.45	1.80	2,062.503	
500.00	500.00	539.00	539.00	1.56	1.70	-82.25	500.50	-3,678.35	3,712.24	3,709.94	2.31	1,609.658	
600.00	600.00	639.00	639.00	1.92	2.06	-82.25	500.50	-3,678.35	3,712.24	3,709.43	2.81	1,319.766	
700.00	700.00	739.00	739.00	2.28	2.42	-82.25	500.50	-3,678.35	3,712.24	3,708.93	3.32	1,118.316	
800.00	800.00	839.00	839.00	2.63	2.77	-82.25	500.50	-3,678.35	3,712.24	3,708.42	3.83	970.203	
900.00	900.00	939.00	939.00	2.99	3.13	-82.25	500.50	-3,678.35	3,712.24	3,707.91	4.33	856.726	
1,000.00	1,000.00	1,039.00	1,039.00	3.35	3.49	-82.25	500.50	-3,678.35	3,712.24	3,707.40	4.84	767.009	
1,100.00	1,100.00	1,139.00	1,139.00	3.71	3.85	-82.25	500.50	-3,678.35	3,712.24	3,706.90	5.35	694.298	
1,200.00	1,200.00	1,239.00	1,239.00	4.07	4.21	-82.25	500.50	-3,678.35	3,712.24	3,706.39	5.85	634.178	
1,300.00	1,300.00	1,339.00	1,339.00	4.43	4.57	-82.25	500.50	-3,678.35	3,712.24	3,705.88	6.36	583.638	
1,400.00	1,400.00	1,439.00	1,439.00	4.79	4.93	-82.25	500.50	-3,678.35	3,712.24	3,705.38	6.87	540.559	
1,500.00	1,500.00	1,539.00	1,539.00	5.14	5.28	-82.25	500.50	-3,678.35	3,712.24	3,704.87	7.37	503.401	
1,600.00	1,600.00	1,639.00	1,639.00	5.50	5.64	-82.25	500.50	-3,678.35	3,712.24	3,704.36	7.88	471.023	
1,700.00	1,700.00	1,739.00	1,739.00	5.86	6.00	-82.25	500.50	-3,678.35	3,712.24	3,703.86	8.39	442.558	
1,800.00	1,800.00	1,839.00	1,839.00	6.22	6.36	-82.25	500.50	-3,678.35	3,712.24	3,703.35	8.90	417.337	
1,900.00	1,900.00	1,939.00	1,939.00	6.58	6.72	-82.25	500.50	-3,678.35	3,712.24	3,702.84	9.40	394.835	
2,000.00	2,000.00	2,039.00	2,039.00	6.94	7.08	-82.25	500.50	-3,678.35	3,712.24	3,702.34	9.91	374.636	
2,100.00	2,099.99	2,138.99	2,138.99	7.29	7.43	-3.45	500.50	-3,678.35	3,710.94	3,700.53	10.41	356.453	
2,200.00	2,199.91	2,238.91	2,238.91	7.63	7.79	-3.46	500.50	-3,678.35	3,707.02	3,696.11	10.91	339.841	
2,300.00	2,299.69	2,338.69	2,338.69	7.98	8.15	-3.47	500.50	-3,678.35	3,700.49	3,689.09	11.41	324.441	
2,400.00	2,399.27	2,438.27	2,438.27	8.34	8.51	-3.49	500.50	-3,678.35	3,691.36	3,679.45	11.90	310.111	
2,500.00	2,498.57	2,537.57	2,537.57	8.69	8.86	-3.51	500.50	-3,678.35	3,679.63	3,667.23	12.40	296.731	
2,600.00	2,597.54	2,636.54	2,636.54	9.06	9.22	-3.54	500.50	-3,678.35	3,665.30	3,652.41	12.90	284.196	
2,616.45	2,613.78	2,652.78	2,652.78	9.12	9.28	-3.55	500.50	-3,678.35	3,662.70	3,649.72	12.98	282.193	
2,700.00	2,696.24	2,735.24	2,735.24	9.43	9.57	-3.56	500.50	-3,678.35	3,649.30	3,635.91	13.39	272.478	
2,800.00	2,794.94	2,833.94	2,833.94	9.81	9.93	-3.57	500.50	-3,678.35	3,633.26	3,619.37	13.89	261.589	
2,900.00	2,893.64	2,932.64	2,932.64	10.19	10.28	-3.59	500.50	-3,678.35	3,617.22	3,602.84	14.39	251.431	
3,000.00	2,992.34	3,031.34	3,031.34	10.58	10.63	-3.61	500.50	-3,678.35	3,601.19	3,586.30	14.88	241.934	
3,100.00	3,091.04	3,130.04	3,130.04	10.97	10.99	-3.62	500.50	-3,678.35	3,585.15	3,569.76	15.38	233.038	
3,200.00	3,189.74	3,228.74	3,228.74	11.37	11.34	-3.64	500.50	-3,678.35	3,569.11	3,553.23	15.88	224.688	
3,300.00	3,288.45	3,327.45	3,327.45	11.77	11.69	-3.65	500.50	-3,678.35	3,553.07	3,536.69	16.39	216.837	
3,400.00	3,387.15	3,426.15	3,426.15	12.17	12.05	-3.67	500.50	-3,678.35	3,537.04	3,520.15	16.89	209.443	
3,500.00	3,485.85	3,524.85	3,524.85	12.58	12.40	-3.69	500.50	-3,678.35	3,521.00	3,503.61	17.39	202.469	
3,600.00	3,584.55	3,623.55	3,623.55	12.98	12.76	-3.70	500.50	-3,678.35	3,504.96	3,487.07	17.89	195.879	
3,700.00	3,683.25	3,720.00	3,720.00	13.39	13.10	-3.72	500.50	-3,678.35	3,488.93	3,470.54	18.39	189.700	
3,800.00	3,781.95	3,800.00	3,799.99	13.80	13.37	-3.75	499.73	-3,678.67	3,473.17	3,454.33	18.84	184.345	
3,900.00	3,880.65	3,882.20	3,882.15	14.22	13.64	-3.81	497.31	-3,679.65	3,457.94	3,438.65	19.29	179.306	
4,000.00	3,979.35	3,962.37	3,962.21	14.63	13.90	-3.89	493.39	-3,681.26	3,443.25	3,423.52	19.73	174.549	
4,100.00	4,078.05	4,042.43	4,042.04	15.05	14.16	-4.00	487.91	-3,683.49	3,429.10	3,408.93	20.17	170.020	
4,200.00	4,176.75	4,138.55	4,137.81	15.47	14.48	-4.15	480.18	-3,686.65	3,415.31	3,394.66	20.65	165.399	
4,300.00	4,275.45	4,237.15	4,236.02	15.89	14.80	-4.32	472.23	-3,689.90	3,401.55	3,380.42	21.14	160.931	
4,400.00	4,374.15	4,335.74	4,334.24	16.31	15.13	-4.48	464.28	-3,693.15	3,387.82	3,366.20	21.63	156.650	
4,500.00	4,472.85	4,434.33	4,432.46	16.73	15.46	-4.64	456.33	-3,696.40	3,374.12	3,352.00	22.12	152.546	
4,600.00	4,571.55	4,532.92	4,530.68	17.15	15.80	-4.80	448.39	-3,699.64	3,360.44	3,337.83	22.61	148.609	
4,700.00	4,670.25	4,631.52	4,628.90	17.57	16.13	-4.97	440.44	-3,702.89	3,346.79	3,323.69	23.11	144.831	
4,800.00	4,768.95	4,730.11	4,727.12	18.00	16.47	-5.14	432.49	-3,706.14	3,333.17	3,309.57	23.61	141.203	
4,900.00	4,867.65	4,828.70	4,825.34	18.42	16.81	-5.31	424.55	-3,709.38	3,319.58	3,295.48	24.10	137.716	
5,000.00	4,966.35	4,927.30	4,923.56	18.85	17.15	-5.47	416.60	-3,712.63	3,306.02	3,281.41	24.60	134.365	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Judge Baylor Fed Com - Judge Baylor Fed Com 601H - OH - Plan #5

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.05	5,025.89	5,021.77	19.28	17.49	-5.65	408.65	-3,715.88	3,292.48	3,267.37	25.11	131.140	
5,200.00	5,163.76	5,124.48	5,119.99	19.70	17.84	-5.82	400.70	-3,719.13	3,278.97	3,253.36	25.61	128.037	
5,300.00	5,262.46	5,223.08	5,218.21	20.13	18.18	-5.99	392.76	-3,722.37	3,265.50	3,239.38	26.11	125.048	
5,400.00	5,361.16	5,321.67	5,316.43	20.56	18.53	-6.17	384.81	-3,725.62	3,252.05	3,225.43	26.62	122.168	
5,500.00	5,459.86	5,420.26	5,414.65	20.99	18.88	-6.34	376.86	-3,728.87	3,238.64	3,211.51	27.13	119.392	
5,600.00	5,558.56	5,518.86	5,512.87	21.42	19.23	-6.52	368.92	-3,732.11	3,225.25	3,197.62	27.63	116.714	
5,700.00	5,657.26	5,617.45	5,611.09	21.85	19.58	-6.70	360.97	-3,735.36	3,211.90	3,183.76	28.14	114.130	
5,800.00	5,755.96	5,716.04	5,709.30	22.28	19.93	-6.88	353.02	-3,738.61	3,198.58	3,169.92	28.65	111.635	
5,900.00	5,854.66	5,814.64	5,807.52	22.71	20.29	-7.07	345.07	-3,741.85	3,185.29	3,156.12	29.16	109.225	
6,000.00	5,953.36	5,913.23	5,905.74	23.14	20.64	-7.25	337.13	-3,745.10	3,172.03	3,142.35	29.67	106.896	
6,100.00	6,052.06	6,011.82	6,003.96	23.57	20.99	-7.44	329.18	-3,748.35	3,158.80	3,128.62	30.19	104.644	
6,200.00	6,150.76	6,110.42	6,102.18	24.01	21.35	-7.62	321.23	-3,751.60	3,145.61	3,114.91	30.70	102.465	
6,300.00	6,249.46	6,209.01	6,200.40	24.44	21.71	-7.81	313.29	-3,754.84	3,132.45	3,101.24	31.21	100.357	
6,400.00	6,348.16	6,307.60	6,298.62	24.87	22.07	-8.00	305.34	-3,758.09	3,119.33	3,087.60	31.73	98.315	
6,500.00	6,446.86	6,406.20	6,396.84	25.30	22.42	-8.19	297.39	-3,761.34	3,106.24	3,074.00	32.24	96.338	
6,600.00	6,545.56	6,504.79	6,495.05	25.74	22.78	-8.39	289.44	-3,764.58	3,093.19	3,060.43	32.76	94.422	
6,700.00	6,644.26	6,603.38	6,593.27	26.17	23.14	-8.58	281.50	-3,767.83	3,080.17	3,046.89	33.28	92.565	
6,804.31	6,747.22	6,706.23	6,695.73	26.62	23.52	-8.79	273.21	-3,771.22	3,066.62	3,032.81	33.82	90.687	
6,900.00	6,841.85	6,800.73	6,789.87	27.03	23.86	-8.95	265.59	-3,774.33	3,055.41	3,021.10	34.31	89.053	
7,000.00	6,941.09	6,899.80	6,888.56	27.44	24.23	-9.12	257.60	-3,777.59	3,046.24	3,011.42	34.83	87.470	
7,100.00	7,040.61	6,999.11	6,987.49	27.83	24.59	-9.28	249.60	-3,780.86	3,039.68	3,004.34	35.34	86.011	
7,200.00	7,140.36	7,098.59	7,086.60	28.20	24.96	-9.45	241.58	-3,784.14	3,035.73	2,999.88	35.85	84.671	
7,300.00	7,240.26	7,198.18	7,185.82	28.55	25.33	-9.61	233.55	-3,787.42	3,034.39	2,998.03	36.36	83.447	
7,301.44	7,241.69	7,199.61	7,187.24	28.55	25.33	-9.61	233.44	-3,787.47	3,034.39	2,998.02	36.37	83.431	CC, ES
7,400.00	7,340.24	7,297.81	7,285.07	28.88	25.69	-9.77	225.52	-3,790.70	3,035.66	2,998.79	36.87	82.335	
7,420.77	7,361.00	7,318.50	7,305.68	28.95	25.77	-88.61	223.85	-3,791.38	3,036.25	2,999.27	36.97	82.118	
7,500.00	7,440.24	7,397.44	7,384.31	29.20	26.06	-88.73	217.49	-3,793.98	3,038.72	3,001.35	37.37	81.313	
7,600.00	7,540.24	7,513.73	7,500.20	29.52	26.49	-88.90	208.52	-3,797.65	3,041.74	3,003.83	37.91	80.240	
7,700.00	7,640.24	7,654.05	7,640.31	29.84	27.00	-89.03	201.56	-3,800.49	3,043.68	3,005.19	38.49	79.079	
7,800.00	7,740.24	7,794.73	7,780.96	30.16	27.49	-89.07	199.37	-3,801.39	3,044.29	3,005.23	39.06	77.947	
7,831.98	7,772.21	7,824.98	7,811.21	30.26	27.59	-89.07	199.36	-3,801.39	3,044.29	3,005.08	39.21	77.646	
7,900.00	7,840.24	7,893.00	7,879.24	30.48	27.82	-89.07	199.36	-3,801.39	3,044.29	3,004.75	39.54	77.000	
7,966.81	7,907.04	7,959.81	7,946.04	30.69	28.05	-89.07	199.36	-3,801.39	3,044.29	3,004.43	39.86	76.375	
8,000.00	7,940.22	7,992.98	7,979.22	30.79	28.17	91.51	199.36	-3,801.39	3,044.32	3,004.30	40.02	76.074	
8,050.00	7,989.94	8,042.71	8,028.94	30.94	28.34	91.59	199.36	-3,801.39	3,044.45	3,004.21	40.25	75.642	
8,100.00	8,039.04	8,091.81	8,078.04	31.08	28.50	91.74	199.36	-3,801.39	3,044.73	3,004.26	40.47	75.230	
8,150.00	8,087.13	8,139.90	8,126.13	31.21	28.67	91.94	199.36	-3,801.39	3,045.19	3,004.50	40.69	74.839	
8,200.00	8,133.85	8,186.62	8,172.85	31.33	28.83	92.18	199.36	-3,801.39	3,045.87	3,004.97	40.90	74.470	
8,250.00	8,178.84	8,231.61	8,217.84	31.45	28.98	92.45	199.36	-3,801.39	3,046.85	3,005.75	41.11	74.123	
8,300.00	8,221.77	8,274.54	8,260.77	31.55	29.13	92.73	199.36	-3,801.39	3,048.21	3,006.90	41.30	73.799	
8,350.00	8,262.30	8,315.07	8,301.30	31.65	29.27	93.00	199.36	-3,801.39	3,050.01	3,008.52	41.50	73.497	
8,400.00	8,300.13	8,352.89	8,339.13	31.74	29.40	93.22	199.36	-3,801.39	3,052.36	3,010.67	41.69	73.217	
8,450.00	8,334.96	8,387.73	8,373.96	31.82	29.52	93.40	199.36	-3,801.39	3,055.34	3,013.46	41.88	72.959	
8,500.00	8,366.54	8,419.31	8,405.54	31.89	29.63	93.49	199.36	-3,801.39	3,059.03	3,016.96	42.07	72.721	
8,550.00	8,394.62	8,447.39	8,433.62	31.96	29.72	93.47	199.36	-3,801.39	3,063.50	3,021.24	42.25	72.504	
8,600.00	8,418.99	8,471.76	8,457.99	32.03	29.81	93.34	199.36	-3,801.39	3,068.81	3,026.37	42.44	72.307	
8,650.00	8,439.47	8,492.23	8,478.47	32.11	29.88	93.06	199.36	-3,801.39	3,075.02	3,032.39	42.63	72.129	
8,700.00	8,455.89	8,508.66	8,494.89	32.19	29.93	92.64	199.36	-3,801.39	3,082.14	3,039.32	42.83	71.970	
8,750.00	8,468.13	8,520.90	8,507.13	32.29	29.98	92.04	199.36	-3,801.39	3,090.19	3,047.17	43.02	71.832	
8,800.00	8,476.11	8,528.88	8,515.11	32.40	30.00	91.28	199.36	-3,801.39	3,099.13	3,055.92	43.22	71.713	
8,850.00	8,479.75	8,532.52	8,518.75	32.54	30.02	90.35	199.36	-3,801.39	3,108.94	3,065.53	43.41	71.615	
8,866.81	8,480.00	8,532.77	8,519.00	32.59	30.02	90.00	199.36	-3,801.39	3,112.42	3,068.95	43.48	71.587	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Judge Baylor Fed Com - Judge Baylor Fed Com 601H - OH - Plan #5

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	8,480.00	8,532.77	8,519.00	32.70	30.02	90.00	199.36	-3,801.39	3,119.55	3,075.94	43.61	71.532	
9,000.00	8,480.00	8,532.77	8,519.00	33.09	30.02	90.00	199.36	-3,801.39	3,143.05	3,098.99	44.06	71.338	
9,100.00	8,480.00	8,532.77	8,519.00	33.57	30.02	90.00	199.36	-3,801.39	3,169.53	3,124.96	44.57	71.119	
9,200.00	8,480.00	8,532.77	8,519.00	34.14	30.02	90.00	199.36	-3,801.39	3,198.91	3,153.79	45.13	70.889	
9,300.00	8,480.00	8,532.77	8,519.00	34.79	30.02	90.00	199.36	-3,801.39	3,231.13	3,185.40	45.73	70.658	
9,400.00	8,480.00	8,532.77	8,519.00	35.50	30.02	90.00	199.36	-3,801.39	3,266.09	3,219.72	46.37	70.439	
9,500.00	8,480.00	8,532.77	8,519.00	36.28	30.02	90.00	199.36	-3,801.39	3,303.71	3,256.67	47.04	70.239	
9,600.00	8,480.00	8,532.77	8,519.00	37.11	30.02	90.00	199.36	-3,801.39	3,343.89	3,296.17	47.72	70.067	
9,700.00	8,480.00	8,532.77	8,519.00	38.01	30.02	90.00	199.36	-3,801.39	3,386.56	3,338.13	48.43	69.930	
9,800.00	8,480.00	8,532.77	8,519.00	38.95	30.02	90.00	199.36	-3,801.39	3,431.61	3,382.47	49.14	69.833	
9,900.00	8,480.00	8,532.77	8,519.00	39.94	30.02	90.00	199.36	-3,801.39	3,478.95	3,429.09	49.86	69.779	
10,000.00	8,480.00	8,532.77	8,519.00	40.97	30.02	90.00	199.36	-3,801.39	3,528.49	3,477.91	50.57	69.770	
10,100.00	8,480.00	8,532.77	8,519.00	42.04	30.02	90.00	199.36	-3,801.39	3,580.13	3,528.85	51.28	69.810	
10,200.00	8,480.00	8,532.77	8,519.00	43.14	30.02	90.00	199.36	-3,801.39	3,633.80	3,581.81	51.99	69.898	
10,300.00	8,480.00	8,532.77	8,519.00	44.29	30.02	90.00	199.36	-3,801.39	3,689.40	3,636.72	52.68	70.034	
10,400.00	8,480.00	8,532.77	8,519.00	45.46	30.02	90.00	199.36	-3,801.39	3,746.84	3,693.48	53.36	70.219	
10,500.00	8,480.00	8,532.77	8,519.00	46.66	30.02	90.00	199.36	-3,801.39	3,806.04	3,752.02	54.02	70.454	
10,600.00	8,480.00	8,532.77	8,519.00	47.89	30.02	90.00	199.36	-3,801.39	3,866.92	3,812.26	54.67	70.735	
10,700.00	8,480.00	8,532.77	8,519.00	49.14	30.02	90.00	199.36	-3,801.39	3,929.41	3,874.11	55.30	71.061	
10,800.00	8,480.00	8,532.77	8,519.00	50.42	30.02	90.00	199.36	-3,801.39	3,993.42	3,937.51	55.91	71.432	
10,900.00	8,480.00	8,532.77	8,519.00	51.72	30.02	90.00	199.36	-3,801.39	4,058.88	4,002.39	56.50	71.844	
11,000.00	8,480.00	8,532.77	8,519.00	53.03	30.02	90.00	199.36	-3,801.39	4,125.73	4,068.67	57.07	72.297	
11,100.00	8,480.00	8,532.77	8,519.00	54.37	30.02	90.00	199.36	-3,801.39	4,193.90	4,136.29	57.62	72.787	
11,200.00	8,480.00	8,532.77	8,519.00	55.72	30.02	90.00	199.36	-3,801.39	4,263.33	4,205.18	58.15	73.314	
11,300.00	8,480.00	8,532.77	8,519.00	57.09	30.02	90.00	199.36	-3,801.39	4,333.95	4,275.28	58.67	73.875	
11,400.00	8,480.00	8,532.77	8,519.00	58.47	30.02	90.00	199.36	-3,801.39	4,405.71	4,346.55	59.16	74.470	
11,500.00	8,480.00	8,532.77	8,519.00	59.86	30.02	90.00	199.36	-3,801.39	4,478.55	4,418.91	59.64	75.095	
11,600.00	8,480.00	8,532.77	8,519.00	61.27	30.02	90.00	199.36	-3,801.39	4,552.42	4,492.33	60.10	75.751	
11,700.00	8,480.00	15,175.48	11,994.03	62.69	74.35	138.75	-3,245.01	-3,771.34	4,622.14	4,550.90	71.24	64.883	
11,800.00	8,480.00	15,275.48	11,995.11	64.13	75.73	138.76	-3,345.00	-3,770.47	4,623.03	4,550.35	72.68	63.605	
11,900.00	8,480.00	15,375.47	11,996.19	65.57	77.11	138.77	-3,444.98	-3,769.60	4,623.92	4,549.78	74.14	62.367	
12,000.00	8,480.00	15,475.47	11,997.27	67.02	78.50	138.77	-3,544.97	-3,768.72	4,624.82	4,549.21	75.61	61.167	
12,100.00	8,480.00	15,575.46	11,998.35	68.48	79.91	138.78	-3,644.95	-3,767.85	4,625.71	4,548.62	77.09	60.005	
12,200.00	8,480.00	15,675.45	11,999.43	69.95	81.32	138.79	-3,744.94	-3,766.98	4,626.60	4,548.03	78.58	58.880	
12,300.00	8,480.00	15,775.45	12,000.51	71.42	82.75	138.80	-3,844.92	-3,766.11	4,627.49	4,547.42	80.07	57.792	
12,400.00	8,480.00	15,875.44	12,001.59	72.91	84.18	138.81	-3,944.90	-3,765.23	4,628.39	4,546.81	81.58	56.737	
12,500.00	8,480.00	15,975.44	12,002.67	74.40	85.62	138.81	-4,044.89	-3,764.36	4,629.28	4,546.19	83.09	55.714	
12,600.00	8,480.00	16,075.43	12,003.75	75.90	87.06	138.82	-4,144.87	-3,763.49	4,630.17	4,545.56	84.61	54.723	
12,700.00	8,480.00	16,175.42	12,004.84	77.40	88.52	138.83	-4,244.86	-3,762.62	4,631.06	4,544.93	86.14	53.763	
12,800.00	8,480.00	16,275.42	12,005.92	78.91	89.98	138.84	-4,344.84	-3,761.74	4,631.96	4,544.28	87.67	52.831	
12,900.00	8,480.00	16,375.41	12,007.00	80.43	91.44	138.84	-4,444.83	-3,760.87	4,632.85	4,543.63	89.22	51.928	
13,000.00	8,480.00	16,475.41	12,008.08	81.95	92.92	138.85	-4,544.81	-3,760.00	4,633.74	4,542.98	90.77	51.051	
13,100.00	8,480.00	16,575.40	12,009.16	83.47	94.40	138.86	-4,644.80	-3,759.13	4,634.64	4,542.32	92.32	50.201	
13,200.00	8,480.00	16,675.39	12,010.24	85.00	95.88	138.87	-4,744.78	-3,758.26	4,635.53	4,541.65	93.88	49.376	
13,300.00	8,480.00	16,775.39	12,011.32	86.54	97.37	138.87	-4,844.76	-3,757.38	4,636.42	4,540.98	95.45	48.576	
13,400.00	8,480.00	16,875.38	12,012.40	88.08	98.87	138.88	-4,944.75	-3,756.51	4,637.32	4,540.30	97.02	47.798	
13,500.00	8,480.00	16,975.38	12,013.48	89.62	100.37	138.89	-5,044.73	-3,755.64	4,638.21	4,539.62	98.59	47.044	
13,600.00	8,480.00	17,075.37	12,014.56	91.17	101.87	138.90	-5,144.72	-3,754.77	4,639.10	4,538.93	100.17	46.312	
13,700.00	8,480.00	17,175.37	12,015.64	92.72	103.38	138.90	-5,244.70	-3,753.89	4,640.00	4,538.25	101.75	45.601	
13,800.00	8,480.00	17,275.36	12,016.72	94.27	104.89	138.91	-5,344.69	-3,753.02	4,640.89	4,537.55	103.34	44.909	
13,900.00	8,480.00	17,375.35	12,017.80	95.83	106.41	138.92	-5,444.67	-3,752.15	4,641.79	4,536.85	104.93	44.236	
14,000.00	8,480.00	17,475.35	12,018.88	97.39	107.93	138.93	-5,544.66	-3,751.28	4,642.68	4,536.15	106.53	43.583	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Judge Baylor Fed Com - Judge Baylor Fed Com 601H - OH - Plan #5

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	8,480.00	17,575.34	12,019.97	98.95	109.46	138.94	-5,644.64	-3,750.40	4,643.57	4,535.45	108.12	42.948	
14,200.00	8,480.00	17,675.34	12,021.05	100.52	110.99	138.94	-5,744.62	-3,749.53	4,644.47	4,534.75	109.72	42.330	
14,300.00	8,480.00	17,775.33	12,022.13	102.09	112.52	138.95	-5,844.61	-3,748.66	4,645.36	4,534.04	111.32	41.729	
14,400.00	8,480.00	17,875.32	12,023.21	103.66	114.06	138.96	-5,944.59	-3,747.79	4,646.26	4,533.33	112.93	41.144	
14,500.00	8,480.00	17,975.32	12,024.29	105.23	115.59	138.97	-6,044.58	-3,746.92	4,647.15	4,532.61	114.54	40.574	
14,600.00	8,480.00	18,075.31	12,025.37	106.81	117.14	138.97	-6,144.56	-3,746.04	4,648.04	4,531.90	116.15	40.019	
14,700.00	8,480.00	18,175.31	12,026.45	108.39	118.68	138.98	-6,244.55	-3,745.17	4,648.94	4,531.18	117.76	39.478	
14,800.00	8,480.00	18,275.30	12,027.53	109.97	120.23	138.99	-6,344.53	-3,744.30	4,649.83	4,530.46	119.38	38.951	
14,900.00	8,480.00	18,375.29	12,028.61	111.55	121.78	139.00	-6,444.52	-3,743.43	4,650.73	4,529.73	121.00	38.437	
15,000.00	8,480.00	18,475.29	12,029.69	113.13	123.33	139.00	-6,544.50	-3,742.55	4,651.62	4,529.01	122.62	37.936	
15,100.00	8,480.00	18,575.28	12,030.77	114.72	124.89	139.01	-6,644.48	-3,741.68	4,652.52	4,528.28	124.24	37.448	
15,200.00	8,480.00	18,675.28	12,031.85	116.31	126.45	139.02	-6,744.47	-3,740.81	4,653.41	4,527.55	125.87	36.971	
15,300.00	8,480.00	18,775.27	12,032.93	117.90	128.01	139.03	-6,844.45	-3,739.94	4,654.31	4,526.82	127.49	36.507	
15,400.00	8,480.00	18,875.26	12,034.01	119.49	129.57	139.03	-6,944.44	-3,739.06	4,655.20	4,526.08	129.12	36.054	
15,500.00	8,480.00	18,975.26	12,035.10	121.08	131.13	139.04	-7,044.42	-3,738.19	4,656.10	4,525.35	130.75	35.612	
15,600.00	8,480.00	19,075.25	12,036.18	122.68	132.70	139.05	-7,144.41	-3,737.32	4,656.99	4,524.61	132.38	35.180	
15,700.00	8,480.00	19,175.25	12,037.26	124.27	134.27	139.06	-7,244.39	-3,736.45	4,657.89	4,523.88	134.01	34.758	
15,800.00	8,480.00	19,275.24	12,038.34	125.87	135.84	139.06	-7,344.38	-3,735.58	4,658.78	4,523.14	135.64	34.346	
15,900.00	8,480.00	19,375.24	12,039.42	127.47	137.41	139.07	-7,444.36	-3,734.70	4,659.68	4,522.40	137.28	33.944	
16,000.00	8,480.00	19,475.23	12,040.50	129.07	138.99	139.08	-7,544.34	-3,733.83	4,660.57	4,521.66	138.91	33.551	
16,100.00	8,480.00	19,575.22	12,041.58	130.67	140.56	139.09	-7,644.33	-3,732.96	4,661.47	4,520.92	140.55	33.167	
16,200.00	8,480.00	19,675.22	12,042.66	132.27	142.14	139.10	-7,744.31	-3,732.09	4,662.37	4,520.18	142.18	32.791	
16,300.00	8,480.00	19,775.21	12,043.74	133.88	143.72	139.10	-7,844.30	-3,731.21	4,663.26	4,519.44	143.82	32.424	
16,400.00	8,480.00	19,875.21	12,044.82	135.48	145.30	139.11	-7,944.28	-3,730.34	4,664.16	4,518.70	145.46	32.065	
16,500.00	8,480.00	19,975.20	12,045.90	137.09	146.89	139.12	-8,044.27	-3,729.47	4,665.05	4,517.95	147.10	31.713	
16,600.00	8,480.00	20,075.19	12,046.98	138.70	148.47	139.13	-8,144.25	-3,728.60	4,665.95	4,517.21	148.74	31.369	
16,700.00	8,480.00	20,175.19	12,048.06	140.30	150.06	139.13	-8,244.24	-3,727.72	4,666.85	4,516.46	150.39	31.032	
16,800.00	8,480.00	20,275.18	12,049.14	141.91	151.64	139.14	-8,344.22	-3,726.85	4,667.74	4,515.71	152.03	30.703	
16,900.00	8,480.00	20,375.18	12,050.23	143.52	153.23	139.15	-8,444.20	-3,725.98	4,668.64	4,514.96	153.68	30.380	
17,000.00	8,480.00	20,475.17	12,051.31	145.13	154.82	139.16	-8,544.19	-3,725.11	4,669.53	4,514.21	155.32	30.063	
17,100.00	8,480.00	20,575.16	12,052.39	146.75	156.41	139.16	-8,644.17	-3,724.24	4,670.43	4,513.46	156.97	29.754	
17,200.00	8,480.00	20,675.16	12,053.47	148.36	158.01	139.17	-8,744.16	-3,723.36	4,671.33	4,512.72	158.61	29.451	
17,300.00	8,480.00	20,775.15	12,054.55	149.97	159.60	139.18	-8,844.14	-3,722.49	4,672.22	4,511.97	160.26	29.155	
17,400.00	8,480.00	20,875.15	12,055.63	151.59	161.19	139.19	-8,944.13	-3,721.62	4,673.12	4,511.22	161.90	28.864	
17,500.00	8,480.00	20,975.14	12,056.71	153.20	162.79	139.19	-9,044.11	-3,720.75	4,674.02	4,510.47	163.55	28.579	
17,600.00	8,480.00	21,075.13	12,057.79	154.82	164.39	139.20	-9,144.10	-3,719.87	4,674.91	4,509.72	165.20	28.299	
17,700.00	8,480.00	21,175.13	12,058.87	156.44	165.98	139.21	-9,244.08	-3,719.00	4,675.81	4,508.96	166.85	28.025	
17,800.00	8,480.00	21,275.12	12,059.95	158.05	167.58	139.22	-9,344.06	-3,718.13	4,676.71	4,508.21	168.50	27.756	
17,900.00	8,480.00	21,375.12	12,061.03	159.67	169.18	139.22	-9,444.05	-3,717.26	4,677.60	4,507.46	170.15	27.492	
18,000.00	8,480.00	21,475.11	12,062.11	161.29	170.78	139.23	-9,544.03	-3,716.38	4,678.50	4,506.71	171.79	27.233	
18,100.00	8,480.00	21,575.11	12,063.19	162.91	172.39	139.24	-9,644.02	-3,715.51	4,679.40	4,505.96	173.44	26.979	
18,200.00	8,480.00	21,675.10	12,064.27	164.53	173.99	139.25	-9,744.00	-3,714.64	4,680.30	4,505.20	175.09	26.730	
18,300.00	8,480.00	21,775.09	12,065.36	166.15	175.59	139.25	-9,843.99	-3,713.77	4,681.19	4,504.45	176.74	26.486	
18,400.00	8,480.00	21,875.09	12,066.44	167.77	177.20	139.26	-9,943.97	-3,712.90	4,682.09	4,503.70	178.39	26.246	
18,500.00	8,480.00	21,975.08	12,067.52	169.40	178.80	139.27	-10,043.96	-3,712.02	4,682.99	4,502.95	180.04	26.011	
18,600.00	8,480.00	22,075.08	12,068.60	171.02	180.41	139.28	-10,143.94	-3,711.15	4,683.89	4,502.20	181.69	25.779	
18,700.00	8,480.00	22,101.01	12,068.88	172.64	180.83	139.28	-10,169.87	-3,710.92	4,685.37	4,502.56	182.81	25.630	
18,800.00	8,480.00	22,101.01	12,068.88	174.26	180.83	139.28	-10,169.87	-3,710.92	4,688.91	4,505.25	183.67	25.530	
18,900.00	8,480.00	22,101.01	12,068.88	175.89	180.83	139.28	-10,169.87	-3,710.92	4,694.59	4,510.13	184.45	25.451	
19,000.00	8,480.00	22,101.01	12,068.88	177.51	180.83	139.28	-10,169.87	-3,710.92	4,702.38	4,517.21	185.17	25.395	
19,100.00	8,480.00	22,101.01	12,068.88	179.14	180.83	139.28	-10,169.87	-3,710.92	4,712.28	4,526.46	185.82	25.359	
19,200.00	8,480.00	22,101.01	12,068.88	180.76	180.83	139.28	-10,169.87	-3,710.92	4,724.28	4,537.89	186.38	25.347	SF

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Judge Baylor Fed Com - Judge Baylor Fed Com 601H - OH - Plan #5

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,300.00	8,480.00	22,101.01	12,068.88	182.39	180.83	139.28	-10,169.87	-3,710.92	4,738.36	4,551.48	186.88	25.355	
19,400.00	8,480.00	22,101.01	12,068.88	184.02	180.83	139.28	-10,169.87	-3,710.92	4,754.50	4,567.19	187.31	25.383	
19,500.00	8,480.00	22,101.01	12,068.88	185.64	180.83	139.28	-10,169.87	-3,710.92	4,772.68	4,585.02	187.66	25.432	
19,600.00	8,480.00	22,101.01	12,068.88	187.27	180.83	139.28	-10,169.87	-3,710.92	4,792.88	4,604.94	187.94	25.503	
19,700.00	8,480.00	22,101.01	12,068.88	188.90	180.83	139.28	-10,169.87	-3,710.92	4,815.07	4,626.93	188.15	25.592	
19,800.00	8,480.00	22,101.01	12,068.88	190.53	180.83	139.28	-10,169.87	-3,710.92	4,839.23	4,650.94	188.29	25.701	
19,899.80	8,480.00	22,101.01	12,068.88	192.15	180.83	139.28	-10,169.87	-3,710.92	4,865.27	4,676.90	188.37	25.829	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Judge Baylor Fed Com - Judge Baylor Fed Com 701H - OH - Plan #5

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	39.00	39.00	0.00	0.05	-82.17	500.82	-3,643.36	3,677.62				
100.00	100.00	139.00	139.00	0.13	0.27	-82.17	500.82	-3,643.36	3,677.62	3,677.33	0.29	N/A	
200.00	200.00	239.00	239.00	0.48	0.62	-82.17	500.82	-3,643.36	3,677.62	3,676.83	0.79	4,658.400	
300.00	300.00	339.00	339.00	0.84	0.98	-82.17	500.82	-3,643.36	3,677.62	3,676.33	1.29	2,842.093	
400.00	400.00	439.00	439.00	1.20	1.34	-82.17	500.82	-3,643.36	3,677.62	3,675.82	1.80	2,043.266	
500.00	500.00	539.00	539.00	1.56	1.70	-82.17	500.82	-3,643.36	3,677.62	3,675.31	2.31	1,594.645	
600.00	600.00	639.00	639.00	1.92	2.06	-82.17	500.82	-3,643.36	3,677.62	3,674.81	2.81	1,307.457	
700.00	700.00	739.00	739.00	2.28	2.42	-82.17	500.82	-3,643.36	3,677.62	3,674.30	3.32	1,107.886	
800.00	800.00	839.00	839.00	2.63	2.77	-82.17	500.82	-3,643.36	3,677.62	3,673.79	3.83	961.154	
900.00	900.00	939.00	939.00	2.99	3.13	-82.17	500.82	-3,643.36	3,677.62	3,673.29	4.33	848.735	
1,000.00	1,000.00	1,039.00	1,039.00	3.35	3.49	-82.17	500.82	-3,643.36	3,677.62	3,672.78	4.84	759.855	
1,100.00	1,100.00	1,139.00	1,139.00	3.71	3.85	-82.17	500.82	-3,643.36	3,677.62	3,672.27	5.35	687.823	
1,200.00	1,200.00	1,239.00	1,239.00	4.07	4.21	-82.17	500.82	-3,643.36	3,677.62	3,671.77	5.85	628.263	
1,300.00	1,300.00	1,339.00	1,339.00	4.43	4.57	-82.17	500.82	-3,643.36	3,677.62	3,671.26	6.36	578.195	
1,400.00	1,400.00	1,439.00	1,439.00	4.79	4.93	-82.17	500.82	-3,643.36	3,677.62	3,670.75	6.87	535.517	
1,500.00	1,500.00	1,539.00	1,539.00	5.14	5.28	-82.17	500.82	-3,643.36	3,677.62	3,670.25	7.37	498.706	
1,600.00	1,600.00	1,639.00	1,639.00	5.50	5.64	-82.17	500.82	-3,643.36	3,677.62	3,669.74	7.88	466.630	
1,700.00	1,700.00	1,739.00	1,739.00	5.86	6.00	-82.17	500.82	-3,643.36	3,677.62	3,669.23	8.39	438.430	
1,800.00	1,800.00	1,839.00	1,839.00	6.22	6.36	-82.17	500.82	-3,643.36	3,677.62	3,668.73	8.90	413.444	
1,900.00	1,900.00	1,939.00	1,939.00	6.58	6.72	-82.17	500.82	-3,643.36	3,677.62	3,668.22	9.40	391.153	
2,000.00	2,000.00	2,039.00	2,039.00	6.94	7.08	-82.17	500.82	-3,643.36	3,677.62	3,667.71	9.91	371.142	
2,100.00	2,099.99	2,138.99	2,138.99	7.29	7.43	-3.38	500.82	-3,643.36	3,676.31	3,665.90	10.41	353.127	
2,200.00	2,199.91	2,238.91	2,238.91	7.63	7.79	-3.38	500.82	-3,643.36	3,672.40	3,661.49	10.91	336.667	
2,300.00	2,299.69	2,338.69	2,338.69	7.98	8.15	-3.40	500.82	-3,643.36	3,665.87	3,654.46	11.41	321.405	
2,400.00	2,399.27	2,438.27	2,438.27	8.34	8.51	-3.41	500.82	-3,643.36	3,656.73	3,644.83	11.90	307.202	
2,500.00	2,498.57	2,537.57	2,537.57	8.69	8.86	-3.43	500.82	-3,643.36	3,645.00	3,632.60	12.40	293.939	
2,600.00	2,597.54	2,636.54	2,636.54	9.06	9.22	-3.46	500.82	-3,643.36	3,630.68	3,617.78	12.90	281.511	
2,616.45	2,613.78	2,652.78	2,652.78	9.12	9.28	-3.46	500.82	-3,643.36	3,628.07	3,615.09	12.98	279.525	
2,700.00	2,696.24	2,776.47	2,776.46	9.43	9.71	-3.49	500.14	-3,643.01	3,614.47	3,600.98	13.49	267.980	
2,800.00	2,794.94	2,976.72	2,976.48	9.81	10.36	-3.65	491.90	-3,638.82	3,595.77	3,581.58	14.19	253.386	
2,900.00	2,893.64	3,074.49	3,074.01	10.19	10.69	-3.76	485.83	-3,635.73	3,575.84	3,561.17	14.66	243.863	
3,000.00	2,992.34	3,172.25	3,171.54	10.58	11.01	-3.87	479.75	-3,632.64	3,555.92	3,540.78	15.14	234.888	
3,100.00	3,091.04	3,270.02	3,269.07	10.97	11.34	-3.98	473.68	-3,629.55	3,536.01	3,520.40	15.62	226.420	
3,200.00	3,189.74	3,367.79	3,366.60	11.37	11.67	-4.09	467.60	-3,626.46	3,516.12	3,500.02	16.10	218.422	
3,300.00	3,288.45	3,465.56	3,464.13	11.77	12.00	-4.20	461.53	-3,623.37	3,496.24	3,479.66	16.58	210.858	
3,400.00	3,387.15	3,563.33	3,561.66	12.17	12.34	-4.32	455.46	-3,620.28	3,476.37	3,459.31	17.07	203.697	
3,500.00	3,485.85	3,661.09	3,659.19	12.58	12.68	-4.43	449.38	-3,617.19	3,456.52	3,438.97	17.55	196.911	
3,600.00	3,584.55	3,758.86	3,756.72	12.98	13.01	-4.55	443.31	-3,614.10	3,436.68	3,418.64	18.04	190.473	
3,700.00	3,683.25	3,856.63	3,854.25	13.39	13.35	-4.67	437.23	-3,611.01	3,416.85	3,398.32	18.53	184.358	
3,800.00	3,781.95	3,954.40	3,951.78	13.80	13.70	-4.79	431.16	-3,607.92	3,397.04	3,378.02	19.03	178.545	
3,900.00	3,880.65	4,052.17	4,049.31	14.22	14.04	-4.91	425.08	-3,604.83	3,377.25	3,357.73	19.52	173.013	
4,000.00	3,979.35	4,149.94	4,146.84	14.63	14.38	-5.03	419.01	-3,601.74	3,357.46	3,337.45	20.02	167.743	
4,100.00	4,078.05	4,247.70	4,244.37	15.05	14.73	-5.15	412.93	-3,598.64	3,337.70	3,317.18	20.51	162.718	
4,200.00	4,176.75	4,345.47	4,341.90	15.47	15.08	-5.28	406.86	-3,595.55	3,317.94	3,296.93	21.01	157.922	
4,300.00	4,275.45	4,443.24	4,439.43	15.89	15.42	-5.41	400.78	-3,592.46	3,298.21	3,276.70	21.51	153.341	
4,400.00	4,374.15	4,541.01	4,536.96	16.31	15.77	-5.54	394.71	-3,589.37	3,278.49	3,256.48	22.01	148.961	
4,500.00	4,472.85	4,638.78	4,634.49	16.73	16.12	-5.67	388.63	-3,586.28	3,258.78	3,236.27	22.51	144.770	
4,600.00	4,571.55	4,736.54	4,732.02	17.15	16.47	-5.80	382.56	-3,583.19	3,239.09	3,216.08	23.01	140.757	
4,700.00	4,670.25	4,834.31	4,829.55	17.57	16.82	-5.93	376.48	-3,580.10	3,219.42	3,195.91	23.51	136.910	
4,800.00	4,768.95	4,932.08	4,927.08	18.00	17.17	-6.06	370.41	-3,577.01	3,199.77	3,175.75	24.02	133.220	
4,900.00	4,867.65	5,029.85	5,024.61	18.42	17.53	-6.20	364.33	-3,573.92	3,180.13	3,155.61	24.52	129.678	
5,000.00	4,966.35	5,127.62	5,122.14	18.85	17.88	-6.34	358.26	-3,570.83	3,160.51	3,135.48	25.03	126.276	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Judge Baylor Fed Com - Judge Baylor Fed Com 701H - OH - Plan #5

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.05	5,225.38	5,219.67	19.28	18.23	-6.48	352.18	-3,567.74	3,140.91	3,115.38	25.53	123.006	
5,200.00	5,163.76	5,323.15	5,317.20	19.70	18.59	-6.62	346.11	-3,564.65	3,121.33	3,095.29	26.04	119.860	
5,300.00	5,262.46	5,420.92	5,414.73	20.13	18.94	-6.76	340.03	-3,561.56	3,101.76	3,075.21	26.55	116.832	
5,400.00	5,361.16	5,518.69	5,512.26	20.56	19.30	-6.91	333.96	-3,558.47	3,082.22	3,055.16	27.06	113.916	
5,500.00	5,459.86	5,616.46	5,609.79	20.99	19.65	-7.06	327.89	-3,555.37	3,062.69	3,035.13	27.57	111.105	
5,600.00	5,558.56	5,714.23	5,707.32	21.42	20.01	-7.20	321.81	-3,552.28	3,043.19	3,015.11	28.08	108.394	
5,700.00	5,657.26	5,811.99	5,804.85	21.85	20.36	-7.36	315.74	-3,549.19	3,023.70	2,995.11	28.59	105.779	
5,800.00	5,755.96	5,909.76	5,902.39	22.28	20.72	-7.51	309.66	-3,546.10	3,004.23	2,975.14	29.10	103.254	
5,900.00	5,854.66	6,007.53	5,999.92	22.71	21.08	-7.66	303.59	-3,543.01	2,984.79	2,955.18	29.61	100.814	
6,000.00	5,953.36	6,105.30	6,097.45	23.14	21.44	-7.82	297.51	-3,539.92	2,965.37	2,935.25	30.12	98.457	
6,100.00	6,052.06	6,203.07	6,194.98	23.57	21.80	-7.98	291.44	-3,536.83	2,945.96	2,915.33	30.63	96.177	
6,200.00	6,150.76	6,300.83	6,292.51	24.01	22.15	-8.14	285.36	-3,533.74	2,926.58	2,895.44	31.14	93.971	
6,300.00	6,249.46	6,398.60	6,390.04	24.44	22.51	-8.30	279.29	-3,530.65	2,907.23	2,875.57	31.66	91.837	
6,400.00	6,348.16	6,496.37	6,487.57	24.87	22.87	-8.47	273.21	-3,527.56	2,887.89	2,855.72	32.17	89.769	
6,500.00	6,446.86	6,594.14	6,585.10	25.30	23.23	-8.63	267.14	-3,524.47	2,868.58	2,835.90	32.68	87.766	
6,600.00	6,545.56	6,691.91	6,682.63	25.74	23.59	-8.80	261.06	-3,521.38	2,849.30	2,816.10	33.20	85.824	
6,700.00	6,644.26	6,789.68	6,780.16	26.17	23.95	-8.98	254.99	-3,518.29	2,830.04	2,796.32	33.71	83.942	
6,804.31	6,747.22	6,891.66	6,881.89	26.62	24.33	-9.16	248.65	-3,515.06	2,809.97	2,775.72	34.25	82.038	
6,900.00	6,841.85	6,985.45	6,975.45	27.03	24.67	-9.28	242.82	-3,512.10	2,792.75	2,758.01	34.75	80.377	
7,000.00	6,941.09	7,083.91	7,073.68	27.44	25.04	-9.41	236.71	-3,508.99	2,777.27	2,742.01	35.26	78.765	
7,100.00	7,040.61	7,182.78	7,172.31	27.83	25.40	-9.54	230.56	-3,505.86	2,764.37	2,728.60	35.77	77.272	
7,200.00	7,140.36	7,281.98	7,271.26	28.20	25.77	-9.66	224.40	-3,502.72	2,754.05	2,717.77	36.29	75.897	
7,300.00	7,240.26	7,381.44	7,370.48	28.55	26.13	-9.78	218.22	-3,499.58	2,746.32	2,709.53	36.80	74.634	
7,400.00	7,340.24	7,481.10	7,469.90	28.88	26.50	-9.91	212.03	-3,496.43	2,741.19	2,703.88	37.31	73.480	
7,420.77	7,361.00	7,501.81	7,490.56	28.95	26.58	-88.73	210.74	-3,495.77	2,740.44	2,703.03	37.41	73.255	
7,500.00	7,440.24	7,561.65	7,550.28	29.20	26.80	-88.80	207.40	-3,494.07	2,738.10	2,700.33	37.77	72.492	
7,600.00	7,540.24	7,636.30	7,624.86	29.52	27.07	-88.86	204.39	-3,492.54	2,735.97	2,697.74	38.22	71.583	
7,700.00	7,640.24	7,711.06	7,699.59	29.84	27.34	-88.90	202.69	-3,491.68	2,734.76	2,696.09	38.67	70.728	
7,800.00	7,740.24	7,790.71	7,779.24	30.16	27.61	-88.90	202.26	-3,491.46	2,734.46	2,695.35	39.11	69.915	
7,900.00	7,840.24	7,890.71	7,879.24	30.48	27.94	-88.90	202.26	-3,491.46	2,734.46	2,694.87	39.59	69.067	
7,966.81	7,907.04	7,957.51	7,946.04	30.69	28.17	-88.90	202.26	-3,491.46	2,734.46	2,694.55	39.91	68.511	CC
8,000.00	7,940.22	7,990.69	7,979.22	30.79	28.28	91.68	202.26	-3,491.46	2,734.49	2,694.42	40.07	68.244	
8,050.00	7,989.94	8,040.42	8,028.94	30.94	28.45	91.77	202.26	-3,491.46	2,734.64	2,694.34	40.30	67.863	ES
8,100.00	8,039.04	8,089.51	8,078.04	31.08	28.61	91.93	202.26	-3,491.46	2,734.95	2,694.43	40.52	67.500	
8,150.00	8,087.13	8,137.60	8,126.13	31.21	28.78	92.16	202.26	-3,491.46	2,735.46	2,694.73	40.73	67.158	
8,200.00	8,133.85	8,184.32	8,172.85	31.33	28.93	92.43	202.26	-3,491.46	2,736.22	2,695.28	40.94	66.838	
8,250.00	8,178.84	8,229.32	8,217.84	31.45	29.09	92.73	202.26	-3,491.46	2,737.31	2,696.17	41.14	66.540	
8,300.00	8,221.77	8,272.24	8,260.77	31.55	29.23	93.04	202.26	-3,491.46	2,738.81	2,697.48	41.33	66.264	
8,350.00	8,262.30	8,312.77	8,301.30	31.65	29.37	93.33	202.26	-3,491.46	2,740.82	2,699.30	41.52	66.011	
8,400.00	8,300.13	8,350.60	8,339.13	31.74	29.50	93.59	202.26	-3,491.46	2,743.43	2,701.73	41.71	65.780	
8,450.00	8,334.96	8,385.44	8,373.96	31.82	29.61	93.78	202.26	-3,491.46	2,746.74	2,704.85	41.89	65.571	
8,500.00	8,366.54	8,417.01	8,405.54	31.89	29.72	93.88	202.26	-3,491.46	2,750.84	2,708.77	42.07	65.384	
8,550.00	8,394.62	8,445.10	8,433.62	31.96	29.82	93.86	202.26	-3,491.46	2,755.81	2,713.55	42.25	65.219	
8,600.00	8,418.99	8,469.47	8,457.99	32.03	29.90	93.71	202.26	-3,491.46	2,761.71	2,719.27	42.44	65.074	
8,650.00	8,439.47	8,489.94	8,478.47	32.11	29.97	93.41	202.26	-3,491.46	2,768.61	2,725.98	42.63	64.951	
8,700.00	8,455.89	8,506.36	8,494.89	32.19	30.02	92.93	202.26	-3,491.46	2,776.51	2,733.70	42.82	64.848	
8,750.00	8,468.13	8,518.61	8,507.13	32.29	30.07	92.28	202.26	-3,491.46	2,785.44	2,742.43	43.01	64.766	
8,800.00	8,476.11	8,526.58	8,515.11	32.40	30.09	91.43	202.26	-3,491.46	2,795.36	2,752.16	43.20	64.706	
8,850.00	8,479.75	8,530.23	8,518.75	32.54	30.11	90.39	202.26	-3,491.46	2,806.23	2,762.83	43.39	64.667	
8,866.81	8,480.00	8,530.47	8,519.00	32.59	30.11	90.00	202.26	-3,491.46	2,810.08	2,766.62	43.46	64.659	
8,900.00	8,480.00	8,530.47	8,519.00	32.70	30.11	90.00	202.26	-3,491.46	2,817.97	2,774.38	43.59	64.644	
9,000.00	8,480.00	8,530.47	8,519.00	33.09	30.11	90.00	202.26	-3,491.46	2,843.95	2,799.92	44.04	64.583	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Judge Baylor Fed Com - Judge Baylor Fed Com 701H - OH - Plan #5

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,480.00	8,530.47	8,519.00	33.57	30.11	90.00	202.26	-3,491.46	2,873.18	2,828.65	44.54	64.512	
9,200.00	8,480.00	8,530.47	8,519.00	34.14	30.11	90.00	202.26	-3,491.46	2,905.56	2,860.47	45.09	64.442	
9,300.00	8,480.00	8,530.47	8,519.00	34.79	30.11	90.00	202.26	-3,491.46	2,940.99	2,895.31	45.68	64.384	
9,400.00	8,480.00	8,530.47	8,519.00	35.50	30.11	90.00	202.26	-3,491.46	2,979.35	2,933.05	46.30	64.347	
9,500.00	8,480.00	8,530.47	8,519.00	36.28	30.11	90.00	202.26	-3,491.46	3,020.53	2,973.59	46.95	64.338	
9,600.00	8,480.00	8,530.47	8,519.00	37.11	30.11	90.00	202.26	-3,491.46	3,064.43	3,016.82	47.61	64.365	
9,700.00	8,480.00	8,530.47	8,519.00	38.01	30.11	90.00	202.26	-3,491.46	3,110.92	3,062.64	48.28	64.433	
9,800.00	8,480.00	8,530.47	8,519.00	38.95	30.11	90.00	202.26	-3,491.46	3,159.90	3,110.94	48.96	64.544	
9,900.00	8,480.00	8,530.47	8,519.00	39.94	30.11	90.00	202.26	-3,491.46	3,211.24	3,161.61	49.63	64.702	
10,000.00	8,480.00	8,530.47	8,519.00	40.97	30.11	90.00	202.26	-3,491.46	3,264.84	3,214.54	50.30	64.907	
10,100.00	8,480.00	8,530.47	8,519.00	42.04	30.11	90.00	202.26	-3,491.46	3,320.59	3,269.63	50.96	65.161	
10,200.00	8,480.00	8,530.47	8,519.00	43.14	30.11	90.00	202.26	-3,491.46	3,378.37	3,326.77	51.61	65.464	
10,300.00	8,480.00	8,530.47	8,519.00	44.29	30.11	90.00	202.26	-3,491.46	3,438.10	3,385.86	52.24	65.814	
10,400.00	8,480.00	8,530.47	8,519.00	45.46	30.11	90.00	202.26	-3,491.46	3,499.66	3,446.81	52.85	66.215	
10,500.00	8,480.00	8,530.47	8,519.00	46.66	30.11	90.00	202.26	-3,491.46	3,562.97	3,509.52	53.45	66.660	
10,600.00	8,480.00	8,530.47	8,519.00	47.89	30.11	90.00	202.26	-3,491.46	3,627.93	3,573.90	54.03	67.149	
10,700.00	8,480.00	8,530.47	8,519.00	49.14	30.11	90.00	202.26	-3,491.46	3,694.45	3,639.86	54.59	67.682	
10,800.00	8,480.00	8,530.47	8,519.00	50.42	30.11	90.00	202.26	-3,491.46	3,762.46	3,707.33	55.12	68.255	
10,900.00	8,480.00	8,530.47	8,519.00	51.72	30.11	90.00	202.26	-3,491.46	3,831.86	3,776.22	55.64	68.866	
11,000.00	8,480.00	8,530.47	8,519.00	53.03	30.11	90.00	202.26	-3,491.46	3,902.60	3,846.46	56.14	69.514	
11,100.00	8,480.00	8,530.47	8,519.00	54.37	30.11	90.00	202.26	-3,491.46	3,974.59	3,917.97	56.62	70.197	
11,200.00	8,480.00	8,530.47	8,519.00	55.72	30.11	90.00	202.26	-3,491.46	4,047.78	3,990.70	57.08	70.913	
11,300.00	8,480.00	8,530.47	8,519.00	57.09	30.11	90.00	202.26	-3,491.46	4,122.09	4,064.57	57.52	71.659	
11,400.00	8,480.00	8,530.47	8,519.00	58.47	30.11	90.00	202.26	-3,491.46	4,197.47	4,139.52	57.95	72.437	
11,500.00	8,480.00	8,530.47	8,519.00	59.86	30.11	90.00	202.26	-3,491.46	4,273.86	4,215.50	58.35	73.243	
11,600.00	8,480.00	8,530.47	8,519.00	61.27	30.11	90.00	202.26	-3,491.46	4,351.20	4,292.46	58.74	74.075	
11,700.00	8,480.00	8,530.47	8,519.00	62.69	30.11	90.00	202.26	-3,491.46	4,429.45	4,370.34	59.11	74.930	
11,800.00	8,480.00	8,530.47	8,519.00	64.13	30.11	90.00	202.26	-3,491.46	4,508.57	4,449.10	59.47	75.813	
11,900.00	8,480.00	8,530.47	8,519.00	65.57	30.11	90.00	202.26	-3,491.46	4,588.50	4,528.69	59.81	76.718	
12,000.00	8,480.00	15,763.12	12,290.31	67.02	79.05	144.02	-3,539.02	-3,458.82	4,660.51	4,588.67	71.84	64.876	
12,100.00	8,480.00	15,863.12	12,291.39	68.48	80.45	144.03	-3,639.00	-3,457.94	4,661.45	4,588.25	73.20	63.678	
12,200.00	8,480.00	15,963.11	12,292.47	69.95	81.85	144.04	-3,738.99	-3,457.07	4,662.40	4,587.82	74.58	62.516	
12,300.00	8,480.00	16,063.10	12,293.55	71.42	83.27	144.04	-3,838.97	-3,456.20	4,663.35	4,587.38	75.96	61.389	
12,400.00	8,480.00	16,163.10	12,294.64	72.91	84.69	144.05	-3,938.95	-3,455.33	4,664.30	4,586.94	77.36	60.295	
12,500.00	8,480.00	16,263.09	12,295.72	74.40	86.12	144.06	-4,038.94	-3,454.45	4,665.24	4,586.48	78.76	59.234	
12,600.00	8,480.00	16,363.09	12,296.80	75.90	87.56	144.06	-4,138.92	-3,453.58	4,666.19	4,586.02	80.17	58.204	
12,700.00	8,480.00	16,463.08	12,297.89	77.40	89.00	144.07	-4,238.91	-3,452.71	4,667.14	4,585.55	81.59	57.204	
12,800.00	8,480.00	16,563.08	12,298.97	78.91	90.45	144.07	-4,338.89	-3,451.84	4,668.08	4,585.07	83.01	56.234	
12,900.00	8,480.00	16,663.07	12,300.05	80.43	91.91	144.08	-4,438.88	-3,450.96	4,669.03	4,584.59	84.44	55.292	
13,000.00	8,480.00	16,763.06	12,301.13	81.95	93.38	144.09	-4,538.86	-3,450.09	4,669.98	4,584.10	85.88	54.377	
13,100.00	8,480.00	16,863.06	12,302.22	83.47	94.85	144.09	-4,638.84	-3,449.22	4,670.93	4,583.60	87.32	53.489	
13,200.00	8,480.00	16,963.05	12,303.30	85.00	96.33	144.10	-4,738.83	-3,448.35	4,671.88	4,583.10	88.77	52.626	
13,300.00	8,480.00	17,063.05	12,304.38	86.54	97.81	144.11	-4,838.81	-3,447.47	4,672.82	4,582.59	90.23	51.788	
13,400.00	8,480.00	17,163.04	12,305.47	88.08	99.30	144.11	-4,938.80	-3,446.60	4,673.77	4,582.08	91.69	50.974	
13,500.00	8,480.00	17,263.03	12,306.55	89.62	100.79	144.12	-5,038.78	-3,445.73	4,674.72	4,581.57	93.15	50.183	
13,600.00	8,480.00	17,363.03	12,307.63	91.17	102.29	144.13	-5,138.77	-3,444.86	4,675.67	4,581.04	94.62	49.413	
13,700.00	8,480.00	17,463.02	12,308.71	92.72	103.80	144.13	-5,238.75	-3,443.99	4,676.62	4,580.52	96.10	48.666	
13,800.00	8,480.00	17,563.02	12,309.80	94.27	105.30	144.14	-5,338.74	-3,443.11	4,677.56	4,579.99	97.57	47.940	
13,900.00	8,480.00	17,663.01	12,310.88	95.83	106.81	144.15	-5,438.72	-3,442.24	4,678.51	4,579.46	99.05	47.234	
14,000.00	8,480.00	17,763.00	12,311.96	97.39	108.33	144.15	-5,538.70	-3,441.37	4,679.46	4,578.93	100.53	46.548	
14,100.00	8,480.00	17,863.00	12,313.05	98.95	109.85	144.16	-5,638.69	-3,440.50	4,680.41	4,578.39	102.01	45.880	
14,200.00	8,480.00	17,962.99	12,314.13	100.52	111.37	144.17	-5,738.67	-3,439.62	4,681.36	4,577.85	103.50	45.229	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Judge Baylor Fed Com - Judge Baylor Fed Com 701H - OH - Plan #5

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	8,480.00	18,062.99	12,315.21	102.09	112.90	144.17	-5,838.66	-3,438.75	4,682.31	4,577.31	104.99	44.596	
14,400.00	8,480.00	18,162.98	12,316.30	103.66	114.43	144.18	-5,938.64	-3,437.88	4,683.25	4,576.77	106.49	43.979	
14,500.00	8,480.00	18,262.97	12,317.38	105.23	115.97	144.19	-6,038.63	-3,437.01	4,684.20	4,576.22	107.99	43.378	
14,600.00	8,480.00	18,362.97	12,318.46	106.81	117.50	144.19	-6,138.61	-3,436.13	4,685.15	4,575.67	109.49	42.792	
14,700.00	8,480.00	18,462.96	12,319.54	108.39	119.04	144.20	-6,238.60	-3,435.26	4,686.10	4,575.11	110.99	42.222	
14,800.00	8,480.00	18,562.96	12,320.63	109.97	120.59	144.21	-6,338.58	-3,434.39	4,687.05	4,574.55	112.49	41.665	
14,900.00	8,480.00	18,662.95	12,321.71	111.55	122.13	144.21	-6,438.56	-3,433.52	4,688.00	4,574.00	114.00	41.122	
15,000.00	8,480.00	18,762.94	12,322.79	113.13	123.68	144.22	-6,538.55	-3,432.64	4,688.95	4,573.43	115.51	40.593	
15,100.00	8,480.00	18,862.94	12,323.88	114.72	125.23	144.23	-6,638.53	-3,431.77	4,689.90	4,572.87	117.03	40.076	
15,200.00	8,480.00	18,962.93	12,324.96	116.31	126.78	144.23	-6,738.52	-3,430.90	4,690.84	4,572.30	118.54	39.572	
15,300.00	8,480.00	19,062.93	12,326.04	117.90	128.34	144.24	-6,838.50	-3,430.03	4,691.79	4,571.74	120.06	39.080	
15,400.00	8,480.00	19,162.92	12,327.12	119.49	129.90	144.25	-6,938.49	-3,429.15	4,692.74	4,571.17	121.58	38.599	
15,500.00	8,480.00	19,262.92	12,328.21	121.08	131.46	144.25	-7,038.47	-3,428.28	4,693.69	4,570.60	123.10	38.131	
15,600.00	8,480.00	19,362.91	12,329.29	122.68	133.02	144.26	-7,138.45	-3,427.41	4,694.64	4,570.03	124.61	37.673	
15,700.00	8,480.00	19,462.90	12,330.37	124.27	134.59	144.27	-7,238.44	-3,426.54	4,695.59	4,569.46	126.13	37.227	
15,800.00	8,480.00	19,562.90	12,331.46	125.87	136.16	144.27	-7,338.42	-3,425.66	4,696.54	4,568.89	127.65	36.791	
15,900.00	8,480.00	19,662.89	12,332.54	127.47	137.72	144.28	-7,438.41	-3,424.79	4,697.49	4,568.31	129.18	36.365	
16,000.00	8,480.00	19,762.89	12,333.62	129.07	139.30	144.28	-7,538.39	-3,423.92	4,698.44	4,567.74	130.70	35.948	
16,100.00	8,480.00	19,862.88	12,334.70	130.67	140.87	144.29	-7,638.38	-3,423.05	4,699.39	4,567.16	132.23	35.540	
16,200.00	8,480.00	19,962.87	12,335.79	132.27	142.44	144.30	-7,738.36	-3,422.18	4,700.34	4,566.58	133.75	35.142	
16,300.00	8,480.00	20,062.87	12,336.87	133.88	144.02	144.30	-7,838.35	-3,421.30	4,701.29	4,566.01	135.28	34.752	
16,400.00	8,480.00	20,162.86	12,337.95	135.48	145.60	144.31	-7,938.33	-3,420.43	4,702.24	4,565.43	136.81	34.370	
16,500.00	8,480.00	20,262.86	12,339.04	137.09	147.18	144.32	-8,038.31	-3,419.56	4,703.19	4,564.84	138.34	33.997	
16,600.00	8,480.00	20,362.85	12,340.12	138.70	148.76	144.32	-8,138.30	-3,418.69	4,704.14	4,564.26	139.87	33.631	
16,700.00	8,480.00	20,462.84	12,341.20	140.30	150.34	144.33	-8,238.28	-3,417.81	4,705.09	4,563.68	141.41	33.273	
16,800.00	8,480.00	20,562.84	12,342.28	141.91	151.93	144.34	-8,338.27	-3,416.94	4,706.04	4,563.09	142.94	32.923	
16,900.00	8,480.00	20,662.83	12,343.37	143.52	153.51	144.34	-8,438.25	-3,416.07	4,706.99	4,562.51	144.48	32.579	
17,000.00	8,480.00	20,762.83	12,344.45	145.13	155.10	144.35	-8,538.24	-3,415.20	4,707.94	4,561.92	146.01	32.243	
17,100.00	8,480.00	20,862.82	12,345.53	146.75	156.69	144.36	-8,638.22	-3,414.32	4,708.89	4,561.34	147.55	31.913	
17,200.00	8,480.00	20,962.81	12,346.62	148.36	158.28	144.36	-8,738.21	-3,413.45	4,709.84	4,560.75	149.09	31.591	
17,300.00	8,480.00	21,062.81	12,347.70	149.97	159.87	144.37	-8,838.19	-3,412.58	4,710.79	4,560.16	150.63	31.275	
17,400.00	8,480.00	21,162.80	12,348.78	151.59	161.46	144.38	-8,938.17	-3,411.71	4,711.74	4,559.58	152.16	30.965	
17,500.00	8,480.00	21,262.80	12,349.86	153.20	163.05	144.38	-9,038.16	-3,410.83	4,712.69	4,558.99	153.70	30.662	
17,600.00	8,480.00	21,362.79	12,350.95	154.82	164.65	144.39	-9,138.14	-3,409.96	4,713.64	4,558.40	155.24	30.364	
17,700.00	8,480.00	21,462.78	12,352.03	156.44	166.24	144.40	-9,238.13	-3,409.09	4,714.59	4,557.81	156.78	30.072	
17,800.00	8,480.00	21,562.78	12,353.11	158.05	167.84	144.40	-9,338.11	-3,408.22	4,715.54	4,557.22	158.32	29.786	
17,900.00	8,480.00	21,662.77	12,354.20	159.67	169.44	144.41	-9,438.10	-3,407.34	4,716.49	4,556.64	159.86	29.505	
18,000.00	8,480.00	21,762.77	12,355.28	161.29	171.03	144.41	-9,538.08	-3,406.47	4,717.44	4,556.05	161.40	29.229	
18,100.00	8,480.00	21,862.76	12,356.36	162.91	172.63	144.42	-9,638.06	-3,405.60	4,718.39	4,555.45	162.94	28.958	
18,200.00	8,480.00	21,962.75	12,357.44	164.53	174.23	144.43	-9,738.05	-3,404.73	4,719.34	4,554.87	164.48	28.693	
18,300.00	8,480.00	22,062.75	12,358.53	166.15	175.84	144.43	-9,838.03	-3,403.85	4,720.29	4,554.28	166.02	28.432	
18,400.00	8,480.00	22,162.74	12,359.61	167.77	177.44	144.44	-9,938.02	-3,402.98	4,721.25	4,553.69	167.56	28.177	
18,500.00	8,480.00	22,262.74	12,360.69	169.40	179.04	144.45	-10,038.00	-3,402.11	4,722.20	4,553.10	169.10	27.925	
18,600.00	8,480.00	22,362.73	12,361.78	171.02	180.65	144.45	-10,137.99	-3,401.24	4,723.15	4,552.51	170.64	27.679	
18,700.00	8,480.00	22,390.61	12,362.08	172.64	181.09	144.46	-10,165.86	-3,400.99	4,724.65	4,553.00	171.65	27.526	
18,800.00	8,480.00	22,390.61	12,362.08	174.26	181.09	144.46	-10,165.86	-3,400.99	4,728.18	4,555.78	172.40	27.426	
18,900.00	8,480.00	22,390.61	12,362.08	175.89	181.09	144.46	-10,165.86	-3,400.99	4,733.83	4,560.75	173.08	27.350	
19,000.00	8,480.00	22,390.61	12,362.08	177.51	181.09	144.46	-10,165.86	-3,400.99	4,741.58	4,567.87	173.71	27.296	
19,100.00	8,480.00	22,390.61	12,362.08	179.14	181.09	144.46	-10,165.86	-3,400.99	4,751.42	4,577.15	174.26	27.266	
19,200.00	8,480.00	22,390.61	12,362.08	180.76	181.09	144.46	-10,165.86	-3,400.99	4,763.33	4,588.58	174.75	27.258	SF
19,300.00	8,480.00	22,390.61	12,362.08	182.39	181.09	144.46	-10,165.86	-3,400.99	4,777.32	4,602.14	175.18	27.271	
19,400.00	8,480.00	22,390.61	12,362.08	184.02	181.09	144.46	-10,165.86	-3,400.99	4,793.35	4,617.80	175.55	27.305	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Judge Baylor Fed Com - Judge Baylor Fed Com 701H - OH - Plan #5

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,500.00	8,480.00	22,390.61	12,362.08	185.64	181.09	144.46	-10,165.86	-3,400.99	4,811.40	4,635.56	175.84	27.362	
19,600.00	8,480.00	22,390.61	12,362.08	187.27	181.09	144.46	-10,165.86	-3,400.99	4,831.46	4,655.39	176.07	27.440	
19,700.00	8,480.00	22,390.61	12,362.08	188.90	181.09	144.46	-10,165.86	-3,400.99	4,853.49	4,677.25	176.25	27.538	
19,800.00	8,480.00	22,390.61	12,362.08	190.53	181.09	144.46	-10,165.86	-3,400.99	4,877.48	4,701.12	176.36	27.657	
19,899.80	8,480.00	22,390.61	12,362.08	192.15	181.09	144.46	-10,165.86	-3,400.99	4,903.34	4,726.92	176.41	27.795	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.50	0.50	0.00	0.00	47.82	540.37	596.32	804.73				
100.00	100.00	100.50	100.50	0.13	0.15	47.82	540.37	596.32	804.73	804.54	0.20	4,087.982	
200.00	200.00	201.40	201.40	0.48	0.33	47.82	540.37	596.32	804.73	804.15	0.58	1,378.694	
300.00	300.00	308.86	308.85	0.84	0.70	47.82	539.91	595.83	804.10	803.01	1.10	734.221	
400.00	400.00	413.06	413.05	1.20	1.07	47.80	539.18	594.64	802.79	801.18	1.61	500.062	
500.00	500.00	518.16	518.13	1.56	1.44	47.75	538.40	592.73	800.95	798.83	2.12	377.473	
600.00	600.00	629.50	629.42	1.92	1.84	47.69	536.86	589.90	798.15	795.49	2.66	300.599	
700.00	700.00	731.43	731.27	2.28	2.21	47.66	534.58	586.61	794.25	791.09	3.17	250.893	
800.00	800.00	831.06	830.83	2.63	2.57	47.63	532.29	583.51	790.40	786.73	3.67	215.319	
900.00	900.00	927.66	927.36	2.99	2.92	47.64	529.69	580.94	786.63	782.46	4.17	188.715	
1,000.00	1,000.00	1,031.29	1,030.92	3.35	3.29	47.64	527.38	578.33	783.28	778.59	4.68	167.243	
1,100.00	1,100.00	1,131.02	1,130.57	3.71	3.66	47.57	525.32	574.79	779.26	774.07	5.19	150.153	
1,200.00	1,200.00	1,229.62	1,229.10	4.07	4.01	47.51	523.57	571.53	775.62	769.93	5.69	136.229	
1,300.00	1,300.00	1,330.84	1,330.24	4.43	4.38	47.41	521.88	567.84	771.81	765.60	6.20	124.413	
1,400.00	1,400.00	1,427.41	1,426.74	4.79	4.53	47.31	520.54	564.39	768.24	761.67	6.56	117.059	
1,500.00	1,500.00	1,526.72	1,525.98	5.14	4.57	47.20	519.36	560.84	764.80	757.95	6.85	111.663	
1,600.00	1,600.00	1,626.20	1,625.40	5.50	4.63	47.09	518.26	557.47	761.57	754.41	7.16	106.368	
1,700.00	1,700.00	1,724.08	1,723.22	5.86	4.72	46.98	517.17	554.19	758.35	750.86	7.49	101.238	
1,800.00	1,800.00	1,821.55	1,820.64	6.22	4.84	46.88	516.27	551.28	755.55	747.71	7.84	96.374	
1,900.00	1,900.00	1,921.05	1,920.09	6.58	4.97	46.80	515.25	548.67	752.94	744.73	8.21	91.756	
2,000.00	2,000.00	2,020.49	2,019.51	6.94	5.13	46.80	513.46	546.85	750.36	741.78	8.59	87.402	
2,100.00	2,099.99	2,118.82	2,117.81	7.29	5.30	125.76	511.29	545.60	748.70	739.73	8.97	83.472	
2,131.21	2,131.18	2,147.76	2,146.73	7.40	5.36	125.83	510.69	545.31	748.57	739.48	9.09	82.361	CC, ES
2,200.00	2,199.91	2,210.56	2,209.52	7.63	5.48	126.03	509.61	544.92	749.21	739.86	9.35	80.111	
2,300.00	2,299.69	2,305.10	2,304.05	7.98	5.67	126.43	508.57	544.79	752.24	742.49	9.75	77.179	
2,400.00	2,399.27	2,401.91	2,400.86	8.34	5.88	126.95	507.94	544.96	757.40	747.25	10.15	74.607	
2,500.00	2,498.57	2,496.59	2,495.55	8.69	6.08	127.58	507.53	545.50	764.70	754.14	10.56	72.410	
2,600.00	2,597.54	2,591.60	2,590.55	9.06	6.30	128.32	507.45	546.46	774.30	763.33	10.98	70.540	
2,616.45	2,613.78	2,609.53	2,608.48	9.12	6.34	128.48	507.45	546.67	776.08	765.03	11.05	70.231	
2,700.00	2,696.24	2,705.92	2,704.86	9.43	6.57	129.46	506.40	547.39	784.50	773.07	11.43	68.607	
2,800.00	2,794.94	2,818.52	2,817.34	9.81	6.87	130.78	501.52	548.15	792.72	780.82	11.90	66.611	
2,900.00	2,893.64	2,911.15	2,909.78	10.19	7.12	131.98	495.72	549.54	800.84	788.49	12.35	64.870	
3,000.00	2,992.34	3,001.58	3,000.04	10.58	7.38	133.12	490.77	551.96	810.69	797.90	12.79	63.383	
3,100.00	3,091.04	3,120.17	3,118.39	10.97	7.72	134.59	483.61	554.17	820.02	806.73	13.29	61.709	
3,200.00	3,189.74	3,260.60	3,258.30	11.37	8.15	136.32	471.78	552.59	826.03	812.21	13.82	59.792	
3,300.00	3,288.45	3,351.00	3,348.23	11.77	8.44	137.40	463.14	549.42	829.77	815.48	14.29	58.083	
3,400.00	3,387.15	3,445.00	3,441.85	12.17	8.74	138.46	455.21	546.56	834.80	820.04	14.76	56.548	
3,500.00	3,485.85	3,529.00	3,525.62	12.58	9.01	139.36	449.32	544.87	841.67	826.44	15.23	55.280	
3,600.00	3,584.55	3,643.36	3,639.73	12.98	9.38	140.45	442.56	541.42	848.54	832.80	15.74	53.926	
3,700.00	3,683.25	3,738.06	3,734.22	13.39	9.69	141.20	438.45	536.85	854.76	838.54	16.22	52.712	
3,800.00	3,781.95	3,823.00	3,819.07	13.80	9.96	141.78	436.51	533.46	862.73	846.05	16.68	51.728	
3,900.00	3,880.65	3,904.59	3,900.62	14.22	10.22	142.34	435.14	531.62	872.61	855.48	17.13	50.937	
4,000.00	3,979.35	4,019.30	4,015.21	14.63	10.60	143.32	430.23	530.23	882.56	864.90	17.66	49.987	
4,100.00	4,078.05	4,124.11	4,119.70	15.05	10.96	144.40	422.16	528.76	891.07	872.91	18.16	49.058	
4,200.00	4,176.75	4,211.13	4,206.48	15.47	11.26	145.27	415.73	527.92	900.39	881.75	18.64	48.314	
4,300.00	4,275.45	4,307.74	4,302.94	15.89	11.58	146.11	410.50	527.03	910.76	891.63	19.13	47.614	
4,400.00	4,374.15	4,425.28	4,420.32	16.31	11.99	147.01	405.07	524.21	920.27	900.60	19.67	46.797	
4,500.00	4,472.85	4,528.97	4,523.80	16.73	12.34	147.76	400.20	519.93	928.29	908.12	20.17	46.018	
4,600.00	4,571.55	4,616.46	4,611.17	17.15	12.64	148.33	397.02	516.56	937.11	916.47	20.65	45.389	
4,700.00	4,670.25	4,702.97	4,697.60	17.57	12.93	148.89	394.23	514.44	947.47	926.35	21.12	44.871	
4,800.00	4,768.95	4,794.85	4,789.43	18.00	13.25	149.47	391.44	513.06	958.90	937.30	21.60	44.402	
4,900.00	4,867.65	4,889.76	4,884.31	18.42	13.57	150.04	389.17	512.00	971.00	948.92	22.08	43.970	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,966.35	4,986.25	4,980.78	18.85	13.90	150.58	387.33	510.99	983.43	960.86	22.58	43.563	
5,100.00	5,065.05	5,090.68	5,085.18	19.28	14.25	151.16	385.14	510.00	995.98	972.89	23.09	43.135	
5,200.00	5,163.76	5,245.30	5,239.51	19.70	14.79	152.16	377.69	505.12	1,005.92	982.20	23.72	42.408	
5,300.00	5,262.46	5,344.00	5,337.79	20.13	15.15	152.90	370.34	499.81	1,012.97	988.74	24.23	41.812	
5,400.00	5,361.16	5,439.35	5,432.72	20.56	15.50	153.61	362.91	494.78	1,020.19	995.47	24.73	41.258	
5,500.00	5,459.86	5,535.46	5,528.41	20.99	15.85	154.34	355.28	490.12	1,027.96	1,002.73	25.23	40.744	
5,600.00	5,558.56	5,635.98	5,628.46	21.42	16.23	155.11	346.86	485.22	1,035.77	1,010.03	25.74	40.237	
5,700.00	5,657.26	5,727.37	5,719.46	21.85	16.56	155.80	339.45	481.07	1,044.14	1,017.91	26.23	39.800	
5,800.00	5,755.96	5,822.79	5,814.51	22.28	16.92	156.49	332.00	477.32	1,053.34	1,026.60	26.74	39.397	
5,900.00	5,854.66	5,934.01	5,925.19	22.71	17.33	157.33	322.23	472.48	1,062.09	1,034.82	27.28	38.938	
6,000.00	5,953.36	6,036.44	6,026.97	23.14	17.72	158.16	311.94	467.34	1,070.14	1,042.34	27.80	38.496	
6,100.00	6,052.06	6,134.58	6,124.49	23.57	18.09	158.94	302.04	462.49	1,078.48	1,050.16	28.31	38.092	
6,200.00	6,150.76	6,234.28	6,223.53	24.01	18.47	159.74	291.72	457.47	1,086.87	1,058.04	28.83	37.699	
6,300.00	6,249.46	6,325.66	6,314.29	24.44	18.82	160.46	282.15	453.05	1,095.66	1,066.33	29.33	37.357	
6,400.00	6,348.16	6,417.24	6,405.40	24.87	19.17	161.13	273.70	449.26	1,105.49	1,075.66	29.83	37.064	
6,500.00	6,446.86	6,509.99	6,497.81	25.30	19.51	161.72	266.52	445.61	1,115.88	1,085.55	30.32	36.800	
6,600.00	6,545.56	6,600.97	6,588.59	25.74	19.85	162.19	261.51	442.43	1,127.08	1,096.27	30.81	36.580	
6,700.00	6,644.26	6,693.86	6,681.33	26.17	20.18	162.63	257.00	439.69	1,138.98	1,107.67	31.30	36.386	
6,804.31	6,747.22	6,793.32	6,780.64	26.62	20.54	163.10	252.04	437.20	1,151.91	1,120.09	31.82	36.197	
6,900.00	6,841.85	6,882.65	6,869.83	27.03	20.86	163.56	247.51	435.21	1,162.96	1,130.67	32.29	36.013	
7,000.00	6,941.09	6,978.19	6,965.24	27.44	21.21	163.98	242.79	433.67	1,172.74	1,139.95	32.79	35.768	
7,100.00	7,040.61	7,082.85	7,069.79	27.83	21.58	164.35	238.40	431.70	1,179.86	1,146.55	33.31	35.423	
7,200.00	7,140.36	7,177.64	7,164.50	28.20	21.92	164.61	235.11	429.67	1,184.31	1,150.51	33.79	35.048	
7,300.00	7,240.26	7,264.60	7,251.43	28.55	22.22	164.76	233.13	428.53	1,187.14	1,152.90	34.24	34.671	
7,400.00	7,340.24	7,354.87	7,341.68	28.88	22.54	164.86	231.64	428.29	1,188.54	1,153.85	34.69	34.258	
7,420.77	7,361.00	7,374.74	7,361.55	28.95	22.60	86.08	231.33	428.30	1,188.59	1,153.80	34.79	34.164	
7,421.98	7,362.21	7,375.90	7,362.71	28.95	22.61	86.08	231.31	428.31	1,188.59	1,153.79	34.80	34.158	
7,500.00	7,440.24	7,450.79	7,437.60	29.20	22.86	86.13	230.15	428.49	1,188.70	1,153.54	35.16	33.808	
7,600.00	7,540.24	7,549.20	7,536.00	29.52	23.20	86.21	228.69	428.96	1,189.08	1,153.44	35.64	33.368	
7,700.00	7,640.24	7,647.07	7,633.85	29.84	23.53	86.28	227.22	429.48	1,189.51	1,153.40	36.11	32.943	
7,800.00	7,740.24	7,743.01	7,729.77	30.16	23.86	86.35	225.82	430.30	1,190.27	1,153.70	36.57	32.546	
7,900.00	7,840.24	7,837.69	7,824.44	30.48	24.17	86.40	224.77	431.42	1,191.38	1,154.35	37.03	32.175	
7,966.81	7,907.04	7,901.42	7,888.16	30.69	24.38	86.43	224.17	432.44	1,192.41	1,155.07	37.33	31.939	
8,000.00	7,940.22	7,934.60	7,921.33	30.79	24.49	-92.97	223.92	433.00	1,193.00	1,155.51	37.49	31.823	
8,050.00	7,989.94	7,983.81	7,970.54	30.94	24.65	-93.08	223.63	433.82	1,194.08	1,156.37	37.71	31.663	
8,100.00	8,039.04	8,030.40	8,017.12	31.08	24.80	-93.35	223.42	434.66	1,195.52	1,157.60	37.92	31.527	
8,150.00	8,087.13	8,076.42	8,063.13	31.21	24.95	-93.75	223.27	435.58	1,197.42	1,159.30	38.12	31.409	
8,200.00	8,133.85	8,122.82	8,109.52	31.33	25.10	-94.28	223.22	436.55	1,199.86	1,161.53	38.33	31.307	
8,250.00	8,178.84	8,167.17	8,153.87	31.45	25.24	-94.89	223.29	437.47	1,202.95	1,164.44	38.52	31.232	
8,300.00	8,221.77	8,207.70	8,194.38	31.55	25.36	-95.48	223.47	438.35	1,206.94	1,168.25	38.69	31.194	
8,350.00	8,262.30	8,245.79	8,232.46	31.65	25.48	-96.03	223.75	439.23	1,212.04	1,173.18	38.86	31.193	
8,400.00	8,300.13	8,284.38	8,271.04	31.74	25.61	-96.60	224.13	440.15	1,218.41	1,179.39	39.02	31.223	
8,450.00	8,334.96	8,321.14	8,307.79	31.82	25.72	-97.07	224.54	440.94	1,226.16	1,186.98	39.19	31.292	
8,500.00	8,366.54	8,353.93	8,340.57	31.89	25.82	-97.33	224.94	441.58	1,235.48	1,196.15	39.33	31.411	
8,550.00	8,394.62	8,379.98	8,366.61	31.96	25.90	-97.21	225.30	442.08	1,246.59	1,207.13	39.45	31.597	
8,600.00	8,418.99	8,402.40	8,389.03	32.03	25.97	-96.80	225.63	442.53	1,259.61	1,220.05	39.56	31.840	
8,650.00	8,439.47	8,421.04	8,407.66	32.11	26.03	-96.04	225.92	442.92	1,274.59	1,234.94	39.65	32.142	
8,700.00	8,455.89	8,435.77	8,422.38	32.19	26.08	-94.91	226.16	443.24	1,291.54	1,251.81	39.73	32.505	
8,750.00	8,468.13	8,446.00	8,432.61	32.29	26.11	-93.35	226.33	443.46	1,310.38	1,270.59	39.79	32.930	
8,800.00	8,476.11	8,453.28	8,439.88	32.40	26.13	-91.43	226.46	443.62	1,331.00	1,291.16	39.84	33.407	
8,850.00	8,479.75	8,455.93	8,442.53	32.54	26.14	-89.07	226.51	443.68	1,353.23	1,313.36	39.87	33.939	
8,866.81	8,480.00	8,455.89	8,442.50	32.59	26.14	-88.19	226.51	443.68	1,361.03	1,321.15	39.88	34.130	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	8,480.00	8,455.35	8,441.96	32.70	26.14	-88.16	226.50	443.67	1,376.89	1,337.00	39.89	34.518	
9,000.00	8,480.00	8,453.73	8,440.34	33.09	26.13	-88.09	226.47	443.63	1,428.28	1,388.35	39.93	35.772	
9,100.00	8,480.00	8,452.12	8,438.72	33.57	26.13	-88.01	226.44	443.59	1,484.62	1,444.65	39.97	37.141	
9,200.00	8,480.00	8,450.50	8,437.11	34.14	26.12	-87.93	226.41	443.56	1,545.39	1,505.37	40.02	38.614	
9,300.00	8,480.00	8,448.89	8,435.50	34.79	26.12	-87.86	226.38	443.52	1,610.08	1,570.01	40.07	40.180	
9,400.00	8,480.00	8,446.00	8,432.61	35.50	26.11	-87.72	226.33	443.46	1,678.24	1,638.12	40.12	41.832	
9,500.00	8,480.00	8,446.00	8,432.61	36.28	26.11	-87.72	226.33	443.46	1,749.46	1,709.28	40.18	43.544	
9,600.00	8,480.00	8,446.00	8,432.61	37.11	26.11	-87.72	226.33	443.46	1,823.38	1,783.14	40.23	45.320	
9,700.00	8,480.00	8,446.00	8,432.61	38.01	26.11	-87.72	226.33	443.46	1,899.69	1,859.40	40.29	47.152	
9,800.00	8,480.00	8,441.11	8,427.72	38.95	26.09	-87.48	226.25	443.35	1,978.11	1,937.78	40.32	49.054	
9,900.00	8,480.00	8,439.60	8,426.22	39.94	26.09	-87.41	226.23	443.32	2,058.40	2,018.02	40.37	50.986	
10,000.00	8,480.00	8,438.12	8,424.73	40.97	26.08	-87.34	226.20	443.29	2,140.35	2,099.93	40.42	52.956	
10,100.00	8,480.00	8,436.64	8,423.25	42.04	26.08	-87.27	226.18	443.25	2,223.77	2,183.31	40.46	54.962	
10,200.00	8,480.00	8,435.18	8,421.79	43.14	26.08	-87.20	226.15	443.22	2,308.52	2,268.01	40.50	56.997	
10,300.00	8,480.00	8,433.72	8,420.34	44.29	26.07	-87.13	226.13	443.19	2,394.43	2,353.89	40.54	59.059	
10,400.00	8,480.00	8,432.28	8,418.90	45.46	26.07	-87.06	226.10	443.16	2,481.41	2,440.83	40.58	61.145	
10,500.00	8,480.00	8,430.85	8,417.47	46.66	26.06	-87.00	226.08	443.13	2,569.33	2,528.71	40.62	63.252	
10,600.00	8,480.00	8,429.43	8,416.05	47.89	26.06	-86.93	226.06	443.10	2,658.10	2,617.45	40.66	65.378	
10,700.00	8,480.00	8,428.03	8,414.64	49.14	26.05	-86.86	226.03	443.07	2,747.65	2,706.95	40.69	67.520	
10,800.00	8,480.00	8,426.63	8,413.25	50.42	26.05	-86.80	226.01	443.04	2,837.89	2,797.16	40.73	69.676	
10,900.00	8,480.00	8,425.25	8,411.86	51.72	26.04	-86.73	225.99	443.01	2,928.76	2,888.00	40.76	71.845	
11,000.00	8,480.00	8,423.87	8,410.49	53.03	26.04	-86.66	225.96	442.98	3,020.22	2,979.42	40.80	74.026	
11,100.00	8,480.00	8,422.51	8,409.13	54.37	26.04	-86.60	225.94	442.95	3,112.19	3,071.36	40.83	76.217	
11,200.00	8,480.00	8,421.16	8,407.77	55.72	26.03	-86.54	225.92	442.92	3,204.65	3,163.78	40.87	78.417	
11,300.00	8,480.00	8,419.81	8,406.43	57.09	26.03	-86.47	225.90	442.89	3,297.54	3,256.64	40.90	80.624	
11,400.00	8,480.00	8,418.48	8,405.10	58.47	26.02	-86.41	225.88	442.87	3,390.84	3,349.91	40.93	82.838	
11,500.00	8,480.00	8,417.16	8,403.78	59.86	26.02	-86.35	225.86	442.84	3,484.51	3,443.55	40.97	85.057	
11,600.00	8,480.00	8,415.85	8,402.47	61.27	26.02	-86.28	225.84	442.81	3,578.53	3,537.53	41.00	87.281	
11,700.00	8,480.00	14,661.74	11,869.28	62.69	68.83	-160.27	-2,950.02	488.38	3,612.00	3,557.59	54.41	66.389	
11,800.00	8,480.00	14,728.00	11,875.01	64.13	69.76	-160.30	-3,016.02	489.57	3,620.47	3,565.25	55.22	65.563	
11,900.00	8,480.00	14,780.20	11,880.07	65.57	70.50	-160.32	-3,067.95	490.67	3,630.08	3,574.13	55.95	64.878	
12,000.00	8,480.00	15,106.00	11,903.49	67.02	75.15	-160.50	-3,392.70	489.95	3,634.44	3,576.06	58.38	62.256	
12,100.00	8,480.00	15,157.21	11,905.89	68.48	75.89	-160.53	-3,443.85	489.40	3,638.72	3,579.60	59.11	61.557	
12,200.00	8,480.00	15,200.00	11,908.98	69.95	76.51	-160.54	-3,486.52	490.03	3,645.29	3,585.49	59.80	60.962	
12,300.00	8,480.00	15,564.19	11,919.39	71.42	81.82	-160.56	-3,850.34	495.78	3,646.73	3,584.06	62.67	58.194	
12,400.00	8,480.00	15,666.57	11,919.67	72.91	83.33	-160.58	-3,952.72	495.49	3,646.56	3,582.79	63.77	57.183	
12,432.29	8,480.00	15,689.91	11,919.87	73.39	83.67	-160.60	-3,976.05	495.05	3,646.51	3,582.45	64.06	56.923	
12,500.00	8,480.00	15,818.83	11,921.67	74.40	85.58	-160.70	-4,104.84	490.05	3,646.64	3,581.50	65.14	55.985	
12,600.00	8,480.00	15,862.00	11,921.79	75.90	86.21	-160.74	-4,147.96	487.98	3,645.42	3,579.58	65.84	55.368	
12,679.60	8,480.00	15,901.73	11,921.76	77.09	86.81	-160.77	-4,187.64	486.32	3,644.89	3,578.45	66.44	54.862	
12,700.00	8,480.00	15,905.09	11,921.85	77.40	86.86	-160.77	-4,191.00	486.22	3,645.14	3,578.59	66.55	54.776	
12,800.00	8,480.00	15,956.00	11,924.98	78.91	87.62	-160.80	-4,241.80	485.43	3,648.72	3,581.42	67.30	54.219	
12,900.00	8,480.00	15,956.00	11,924.98	80.43	87.62	-160.80	-4,241.80	485.43	3,652.89	3,585.18	67.71	53.948	
13,000.00	8,480.00	15,956.00	11,924.98	81.95	87.62	-160.80	-4,241.80	485.43	3,659.79	3,591.69	68.10	53.741	
13,100.00	8,480.00	16,429.00	11,943.29	83.47	94.75	-160.95	-4,713.67	486.24	3,663.98	3,592.20	71.77	51.049	
13,200.00	8,480.00	16,468.16	11,942.87	85.00	95.35	-160.96	-4,752.83	486.46	3,662.87	3,590.37	72.50	50.519	
13,213.89	8,480.00	16,473.27	11,942.86	85.22	95.43	-160.96	-4,757.93	486.51	3,662.86	3,590.25	72.60	50.450	
13,300.00	8,480.00	16,523.00	11,943.38	86.54	96.18	-160.95	-4,807.66	487.30	3,663.62	3,590.28	73.34	49.956	
13,400.00	8,480.00	16,523.00	11,943.38	88.08	96.18	-160.95	-4,807.66	487.30	3,665.97	3,592.21	73.76	49.701	
13,500.00	8,480.00	16,577.84	11,945.21	89.62	97.02	-160.95	-4,862.45	488.64	3,669.93	3,595.35	74.58	49.207	
13,600.00	8,480.00	16,618.00	11,947.44	91.17	97.64	-160.95	-4,902.53	489.87	3,675.75	3,600.46	75.28	48.825	
13,700.00	8,480.00	16,806.00	11,956.05	92.72	100.52	-160.95	-5,090.26	494.54	3,680.07	3,602.96	77.11	47.723	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	8,480.00	16,900.00	11,959.57	94.27	101.97	-160.94	-5,184.14	497.65	3,684.37	3,606.12	78.25	47.085	
13,900.00	8,480.00	16,949.12	11,961.69	95.83	102.73	-160.93	-5,233.18	499.71	3,689.44	3,610.40	79.04	46.676	
14,000.00	8,480.00	17,013.20	11,965.30	97.39	103.72	-160.91	-5,297.10	502.45	3,695.77	3,615.82	79.95	46.226	
14,100.00	8,480.00	17,232.46	11,974.37	98.95	107.12	-160.79	-5,515.70	515.98	3,702.03	3,619.85	82.18	45.046	
14,200.00	8,480.00	17,324.77	11,976.83	100.52	108.56	-160.79	-5,607.94	517.82	3,704.93	3,621.62	83.31	44.473	
14,300.00	8,480.00	17,372.00	11,979.10	102.09	109.29	-160.79	-5,655.09	519.02	3,709.62	3,625.54	84.08	44.119	
14,400.00	8,480.00	17,423.37	11,982.14	103.66	110.09	-160.79	-5,706.34	520.78	3,715.70	3,630.82	84.89	43.772	
14,500.00	8,480.00	17,511.17	11,987.39	105.23	111.46	-160.79	-5,793.93	523.84	3,722.17	3,636.19	85.99	43.288	
14,600.00	8,480.00	17,692.18	11,997.36	106.81	114.29	-160.82	-5,974.59	526.60	3,727.36	3,639.58	87.78	42.461	
14,700.00	8,480.00	17,750.00	12,000.61	108.39	115.20	-160.83	-6,032.31	527.66	3,732.74	3,644.12	88.63	42.117	
14,800.00	8,480.00	17,978.29	12,012.20	109.97	118.77	-160.95	-6,260.23	525.44	3,737.16	3,646.49	90.68	41.214	
14,900.00	8,480.00	18,081.50	12,016.48	111.55	120.37	-161.07	-6,363.21	520.21	3,739.11	3,647.36	91.76	40.750	
15,000.00	8,480.00	18,127.00	12,018.55	113.13	121.08	-161.12	-6,408.61	517.93	3,741.76	3,649.29	92.47	40.464	
15,100.00	8,480.00	18,174.63	12,021.27	114.72	121.83	-161.16	-6,456.11	516.00	3,745.82	3,652.63	93.19	40.195	
15,200.00	8,480.00	18,257.99	12,027.47	116.31	123.14	-161.24	-6,539.21	513.83	3,751.60	3,657.44	94.16	39.843	
15,300.00	8,480.00	18,542.42	12,040.05	117.90	127.59	-161.52	-6,822.98	501.73	3,753.23	3,656.80	96.43	38.922	
15,400.00	8,480.00	18,598.00	12,041.65	119.49	128.47	-161.52	-6,878.52	502.58	3,755.36	3,658.08	97.29	38.601	
15,500.00	8,480.00	18,598.00	12,041.65	121.08	128.47	-161.52	-6,878.52	502.58	3,758.44	3,660.73	97.71	38.467	
15,600.00	8,480.00	18,640.89	12,043.67	122.68	129.15	-161.51	-6,921.31	504.54	3,763.78	3,665.32	98.46	38.227	
15,700.00	8,480.00	18,692.00	12,046.24	124.27	129.96	-161.48	-6,972.28	507.50	3,770.21	3,670.94	99.27	37.979	
15,800.00	8,480.00	18,744.65	12,049.30	125.87	130.80	-161.45	-7,024.69	511.42	3,777.90	3,677.80	100.11	37.739	
15,900.00	8,480.00	18,978.32	12,062.58	127.47	134.52	-161.33	-7,257.42	526.51	3,785.64	3,683.03	102.62	36.891	
16,000.00	8,480.00	19,198.62	12,071.39	129.07	138.02	-161.37	-7,477.40	529.14	3,790.13	3,685.40	104.73	36.191	
16,100.00	8,480.00	19,259.00	12,073.62	130.67	138.98	-161.40	-7,537.72	527.83	3,792.53	3,686.95	105.57	35.924	
16,200.00	8,480.00	19,353.00	12,076.57	132.27	140.47	-161.45	-7,631.66	526.51	3,794.78	3,688.12	106.67	35.576	
16,300.00	8,480.00	19,406.47	12,078.43	133.88	141.32	-161.47	-7,685.10	526.06	3,797.89	3,690.42	107.47	35.338	
16,400.00	8,480.00	19,448.00	12,080.88	135.48	141.98	-161.49	-7,726.56	526.10	3,802.99	3,694.82	108.17	35.156	
16,500.00	8,480.00	19,865.23	12,084.17	137.09	148.65	-161.43	-8,143.34	535.83	3,802.98	3,691.10	111.88	33.992	
16,600.00	8,480.00	20,053.30	12,076.83	138.70	151.64	-161.44	-8,331.25	534.14	3,798.22	3,684.59	113.63	33.426	
16,700.00	8,480.00	20,109.00	12,074.78	140.30	152.53	-161.45	-8,386.91	533.78	3,794.06	3,679.50	114.56	33.120	
16,800.00	8,480.00	20,147.13	12,073.88	141.91	153.14	-161.45	-8,425.02	533.72	3,791.23	3,675.88	115.36	32.866	
16,900.00	8,480.00	20,204.00	12,073.12	143.52	154.05	-161.45	-8,481.89	533.94	3,789.73	3,673.46	116.27	32.595	
16,971.07	8,480.00	20,236.94	12,072.97	144.67	154.58	-161.45	-8,514.83	534.32	3,789.41	3,672.55	116.86	32.426	
17,000.00	8,480.00	20,252.41	12,072.96	145.13	154.83	-161.44	-8,530.30	534.61	3,789.46	3,672.34	117.12	32.355	
17,100.00	8,480.00	20,315.86	12,073.23	146.75	155.84	-161.43	-8,593.72	536.44	3,790.41	3,672.33	118.08	32.099	
17,200.00	8,480.00	20,444.26	12,073.28	148.36	157.91	-161.37	-8,722.02	541.57	3,791.42	3,671.82	119.61	31.699	
17,300.00	8,480.00	20,540.33	12,073.25	149.97	159.45	-161.35	-8,818.06	543.94	3,791.86	3,671.04	120.83	31.383	
17,400.00	8,480.00	20,821.88	12,067.66	151.59	163.98	-161.27	-9,099.41	550.76	3,790.97	3,667.55	123.43	30.714	
17,500.00	8,480.00	20,864.00	12,065.42	153.20	164.65	-161.24	-9,141.45	552.21	3,787.25	3,662.93	124.32	30.464	
17,600.00	8,480.00	20,924.90	12,062.88	154.82	165.64	-161.20	-9,202.24	554.68	3,784.64	3,659.30	125.34	30.195	
17,700.00	8,480.00	20,969.37	12,062.09	156.44	166.35	-161.18	-9,246.66	556.63	3,783.92	3,657.71	126.21	29.982	
17,800.00	8,480.00	21,187.52	12,058.31	158.05	169.86	-161.16	-9,464.73	558.93	3,782.33	3,654.04	128.29	29.483	
17,900.00	8,480.00	21,241.00	12,056.96	159.67	170.72	-161.17	-9,518.20	558.38	3,779.50	3,650.32	129.18	29.257	
18,000.00	8,480.00	21,294.55	12,056.27	161.29	171.58	-161.18	-9,571.74	557.94	3,777.90	3,647.84	130.06	29.046	
18,030.35	8,480.00	21,306.73	12,056.27	161.78	171.78	-161.18	-9,583.91	557.90	3,777.75	3,647.45	130.30	28.992	
18,100.00	8,480.00	21,336.00	12,056.47	162.91	172.25	-161.19	-9,613.19	557.89	3,777.95	3,647.11	130.84	28.874	
18,200.00	8,480.00	21,451.09	12,057.51	164.53	174.10	-161.20	-9,728.27	558.21	3,778.58	3,646.43	132.16	28.592	
18,300.00	8,480.00	21,580.87	12,057.83	166.15	176.19	-161.21	-9,858.05	559.16	3,778.77	3,645.18	133.59	28.286	
18,400.00	8,480.00	21,721.07	12,055.89	167.77	178.46	-161.18	-9,998.21	561.97	3,777.77	3,642.60	135.16	27.950	
18,500.00	8,480.00	21,804.00	12,054.08	169.40	179.80	-161.13	-10,081.03	565.61	3,776.75	3,640.40	136.36	27.697	
18,593.44	8,480.00	21,860.00	12,052.81	170.91	186.65	-161.08	-10,136.92	568.84	3,776.23	3,637.03	139.20	27.128	
18,600.00	8,480.00	21,860.00	12,052.81	171.02	186.65	-161.08	-10,136.92	568.84	3,776.23	3,637.00	139.24	27.121	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,700.00	8,480.00	21,860.00	12,052.81	172.64	186.65	-161.08	-10,136.92	568.84	3,777.73	3,637.99	139.74	27.034	
18,800.00	8,480.00	21,860.00	12,052.81	174.26	186.65	-161.08	-10,136.92	568.84	3,781.87	3,641.71	140.16	26.982	
18,900.00	8,480.00	21,860.00	12,052.81	175.89	186.65	-161.08	-10,136.92	568.84	3,788.65	3,648.14	140.51	26.964	SF
19,000.00	8,480.00	21,860.00	12,052.81	177.51	186.65	-161.08	-10,136.92	568.84	3,798.05	3,657.28	140.77	26.981	
19,100.00	8,480.00	21,860.00	12,052.81	179.14	186.65	-161.08	-10,136.92	568.84	3,810.05	3,669.10	140.96	27.030	
19,200.00	8,480.00	21,860.00	12,052.81	180.76	186.65	-161.08	-10,136.92	568.84	3,824.63	3,683.58	141.06	27.114	
19,300.00	8,480.00	21,860.00	12,052.81	182.39	186.65	-161.08	-10,136.92	568.84	3,841.76	3,700.68	141.08	27.231	
19,400.00	8,480.00	21,860.00	12,052.81	184.02	186.65	-161.08	-10,136.92	568.84	3,861.41	3,720.37	141.03	27.379	
19,500.00	8,480.00	21,860.00	12,052.81	185.64	186.65	-161.08	-10,136.92	568.84	3,883.53	3,742.62	140.91	27.561	
19,600.00	8,480.00	21,860.00	12,052.81	187.27	186.65	-161.08	-10,136.92	568.84	3,908.08	3,767.36	140.72	27.772	
19,700.00	8,480.00	21,860.00	12,052.81	188.90	186.65	-161.08	-10,136.92	568.84	3,935.02	3,794.56	140.46	28.015	
19,800.00	8,480.00	21,860.00	12,052.81	190.53	186.65	-161.08	-10,136.92	568.84	3,964.30	3,824.16	140.14	28.288	
19,899.80	8,480.00	21,860.00	12,052.81	192.15	186.65	-161.08	-10,136.92	568.84	3,995.81	3,856.05	139.76	28.591	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.94	0.94	0.00	0.00	49.42	540.68	631.32	831.20				
100.00	100.00	105.50	105.50	0.13	0.15	49.38	540.94	630.71	830.92	830.73	0.19	4,295.646	
200.00	200.00	201.69	201.68	0.48	0.43	49.33	541.16	629.92	830.46	829.81	0.65	1,285.719	
300.00	300.00	305.06	305.05	0.84	0.80	49.28	541.60	629.19	830.20	829.04	1.16	715.840	
400.00	400.00	405.35	405.34	1.20	1.16	49.23	541.84	628.47	829.81	828.14	1.67	497.694	
500.00	500.00	508.64	508.61	1.56	1.53	49.15	542.30	627.07	829.07	826.89	2.18	379.869	
600.00	600.00	615.59	615.55	1.92	1.91	49.04	542.63	625.01	827.83	825.12	2.71	305.807	
700.00	700.00	723.05	722.96	2.28	2.30	48.91	542.38	621.95	825.52	822.29	3.23	255.386	
800.00	800.00	824.80	824.64	2.63	2.67	48.75	542.16	618.31	822.68	818.94	3.74	219.736	
900.00	900.00	928.07	927.84	2.99	3.04	48.60	541.75	614.58	819.71	815.45	4.26	192.453	
1,000.00	1,000.00	1,032.99	1,032.66	3.35	3.42	48.41	541.29	609.96	816.12	811.34	4.78	170.767	
1,100.00	1,100.00	1,129.08	1,128.66	3.71	3.77	48.24	540.75	605.72	812.45	807.17	5.28	153.951	
1,200.00	1,200.00	1,227.94	1,227.44	4.07	4.13	48.11	539.89	601.86	808.96	803.18	5.78	139.915	
1,300.00	1,300.00	1,324.13	1,323.57	4.43	4.48	47.99	539.12	598.55	805.87	799.59	6.28	128.330	
1,400.00	1,400.00	1,420.63	1,420.00	4.79	4.65	47.81	539.27	594.95	803.21	796.56	6.65	120.714	
1,500.00	1,500.00	1,514.66	1,513.97	5.14	4.68	47.64	539.62	591.88	801.05	794.12	6.94	115.500	
1,589.03	1,589.03	1,590.62	1,589.93	5.46	4.72	47.59	539.76	590.82	800.26	793.06	7.20	111.146	CC
1,600.00	1,600.00	1,599.39	1,598.70	5.50	4.72	47.58	539.78	590.82	800.27	793.04	7.23	110.634	ES
1,700.00	1,700.00	1,681.04	1,680.33	5.86	4.78	47.63	540.16	592.17	801.78	794.24	7.54	106.311	
1,800.00	1,800.00	1,771.21	1,770.44	6.22	4.85	47.76	540.82	595.55	805.04	797.17	7.87	102.311	
1,900.00	1,900.00	1,869.19	1,868.32	6.58	4.96	47.90	541.90	599.79	808.99	800.77	8.22	98.436	
2,000.00	2,000.00	1,971.90	1,970.93	6.94	5.09	48.02	543.38	603.90	812.93	804.34	8.59	94.644	
2,100.00	2,099.99	2,081.16	2,080.08	7.29	5.26	127.09	543.21	608.72	816.91	807.93	8.98	91.008	
2,200.00	2,199.91	2,188.15	2,186.86	7.63	5.44	127.72	539.73	614.64	821.30	811.93	9.37	87.675	
2,300.00	2,299.69	2,287.76	2,286.17	7.98	5.64	128.53	535.15	620.72	826.99	817.23	9.76	84.710	
2,400.00	2,399.27	2,379.16	2,377.29	8.34	5.83	129.35	531.13	626.58	834.90	824.75	10.16	82.192	
2,500.00	2,498.57	2,475.76	2,473.61	8.69	6.04	130.30	527.58	633.18	845.51	834.94	10.57	79.980	
2,600.00	2,597.54	2,576.78	2,574.30	9.06	6.28	131.40	523.46	640.09	857.91	846.91	11.00	77.974	
2,616.45	2,613.78	2,593.42	2,590.89	9.12	6.32	131.59	522.76	641.19	860.11	849.04	11.07	77.663	
2,700.00	2,696.24	2,694.45	2,691.65	9.43	6.58	132.87	518.03	646.79	870.65	859.18	11.47	75.893	
2,800.00	2,794.94	2,805.81	2,802.78	9.81	6.88	134.19	512.00	650.64	881.51	869.57	11.94	73.840	
2,900.00	2,893.64	2,898.00	2,894.80	10.19	7.13	135.23	507.06	653.40	892.41	880.03	12.38	72.084	
3,000.00	2,992.34	2,984.02	2,980.69	10.58	7.37	136.15	503.45	656.44	904.69	891.87	12.81	70.596	
3,100.00	3,091.04	3,074.61	3,071.16	10.97	7.63	137.04	500.86	660.04	918.30	905.04	13.26	69.248	
3,200.00	3,189.74	3,177.16	3,173.54	11.37	7.94	138.08	497.16	664.62	932.22	918.49	13.74	67.862	
3,300.00	3,288.45	3,275.28	3,271.38	11.77	8.24	139.16	491.83	669.83	946.27	932.06	14.21	66.597	
3,400.00	3,387.15	3,393.15	3,388.88	12.17	8.60	140.46	484.50	675.54	959.96	945.23	14.73	65.183	
3,500.00	3,485.85	3,519.38	3,514.84	12.58	8.99	141.68	476.48	677.12	970.62	955.36	15.26	63.618	
3,600.00	3,584.55	3,612.81	3,608.12	12.98	9.28	142.49	471.29	676.78	980.57	964.85	15.73	62.353	
3,700.00	3,683.25	3,700.34	3,695.57	13.39	9.55	143.18	467.59	676.87	991.70	975.51	16.18	61.273	
3,800.00	3,781.95	3,785.31	3,780.50	13.80	9.82	143.80	465.11	677.55	1,004.18	987.54	16.64	60.355	
3,900.00	3,880.65	3,889.05	3,884.14	14.22	10.16	144.61	461.16	679.80	1,017.70	1,000.56	17.14	59.391	
4,000.00	3,979.35	4,014.87	4,009.63	14.63	10.57	145.77	452.17	681.62	1,029.46	1,011.77	17.68	58.216	
4,100.00	4,078.05	4,106.00	4,100.51	15.05	10.87	146.57	445.54	682.13	1,040.59	1,022.43	18.16	57.304	
4,200.00	4,176.75	4,186.96	4,181.35	15.47	11.14	147.20	441.15	682.95	1,053.02	1,034.41	18.61	56.583	
4,300.00	4,275.45	4,288.76	4,283.04	15.89	11.48	147.92	436.88	684.19	1,066.28	1,047.17	19.11	55.799	
4,400.00	4,374.15	4,394.47	4,388.60	16.31	11.84	148.70	431.34	685.12	1,079.02	1,059.40	19.62	54.998	
4,500.00	4,472.85	4,484.00	4,477.97	16.73	12.14	149.38	426.00	686.21	1,092.00	1,071.91	20.09	54.350	
4,600.00	4,571.55	4,578.00	4,571.83	17.15	12.46	150.05	421.10	687.80	1,105.84	1,085.27	20.58	53.745	
4,700.00	4,670.25	4,677.57	4,671.25	17.57	12.80	150.74	416.01	689.62	1,120.01	1,098.94	21.07	53.145	
4,800.00	4,768.95	4,787.25	4,780.71	18.00	13.18	151.52	409.32	691.14	1,133.62	1,112.02	21.60	52.479	
4,900.00	4,867.65	4,892.02	4,885.27	18.42	13.54	152.25	402.69	691.71	1,146.55	1,124.44	22.12	51.845	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,966.35	4,990.09	4,983.17	18.85	13.88	152.90	396.83	691.94	1,159.45	1,136.83	22.61	51.276	
5,100.00	5,065.05	5,092.92	5,085.84	19.28	14.23	153.54	391.20	691.97	1,172.42	1,149.30	23.12	50.708	
5,200.00	5,163.76	5,180.82	5,173.61	19.70	14.54	154.06	386.47	691.71	1,185.28	1,161.69	23.59	50.242	
5,300.00	5,262.46	5,257.62	5,250.28	20.13	14.81	154.54	382.29	693.08	1,200.13	1,176.10	24.03	49.946	
5,400.00	5,361.16	5,351.71	5,344.17	20.56	15.14	155.14	376.59	695.72	1,216.00	1,191.48	24.52	49.600	
5,500.00	5,459.86	5,449.42	5,441.65	20.99	15.49	155.76	370.57	698.65	1,232.17	1,207.15	25.02	49.256	
5,600.00	5,558.56	5,541.49	5,533.49	21.42	15.82	156.33	364.79	701.40	1,248.46	1,222.97	25.50	48.964	
5,700.00	5,657.26	5,616.63	5,608.41	21.85	16.09	156.79	360.16	704.72	1,266.25	1,240.33	25.92	48.854	
5,800.00	5,755.96	5,712.58	5,704.05	22.28	16.43	157.37	354.38	709.79	1,285.05	1,258.63	26.41	48.652	
5,900.00	5,854.66	5,808.85	5,800.03	22.71	16.78	157.92	348.88	714.94	1,304.08	1,277.17	26.91	48.465	
6,000.00	5,953.36	5,909.48	5,900.38	23.14	17.14	158.47	343.35	720.18	1,323.13	1,295.71	27.42	48.255	
6,100.00	6,052.06	6,007.01	5,997.61	23.57	17.50	159.00	337.72	725.17	1,342.16	1,314.24	27.92	48.073	
6,200.00	6,150.76	6,103.76	6,094.08	24.01	17.85	159.50	332.29	730.15	1,361.35	1,332.94	28.42	47.906	
6,300.00	6,249.46	6,202.19	6,192.23	24.44	18.21	160.00	326.86	735.15	1,380.60	1,351.68	28.92	47.736	
6,400.00	6,348.16	6,297.45	6,287.22	24.87	18.55	160.46	321.63	740.03	1,399.98	1,370.56	29.41	47.596	
6,500.00	6,446.86	6,391.17	6,380.67	25.30	18.89	160.91	316.42	745.08	1,419.70	1,389.80	29.90	47.480	
6,600.00	6,545.56	6,487.86	6,477.06	25.74	19.25	161.36	311.03	750.41	1,439.63	1,409.23	30.40	47.357	
6,700.00	6,644.26	6,585.24	6,574.14	26.17	19.60	161.79	305.79	755.81	1,459.70	1,428.79	30.90	47.239	
6,804.31	6,747.22	6,703.64	6,692.22	26.62	20.03	162.30	299.44	761.96	1,480.40	1,448.91	31.49	47.015	
6,900.00	6,841.85	6,858.16	6,846.61	27.03	20.57	162.82	295.04	765.11	1,495.59	1,463.42	32.17	46.492	
7,000.00	6,941.09	6,958.96	6,947.40	27.44	20.90	162.99	295.64	764.71	1,507.01	1,474.35	32.66	46.147	
7,100.00	7,040.61	7,056.59	7,045.02	27.83	21.20	163.07	297.24	764.27	1,515.99	1,482.87	33.13	45.764	
7,200.00	7,140.36	7,153.48	7,141.90	28.20	21.50	163.11	298.88	763.94	1,522.60	1,489.01	33.59	45.327	
7,300.00	7,240.26	7,249.86	7,238.27	28.55	21.80	163.13	300.28	763.93	1,527.01	1,492.96	34.05	44.842	
7,400.00	7,340.24	7,350.49	7,338.89	28.88	22.12	163.11	301.52	763.94	1,528.91	1,494.39	34.53	44.283	
7,420.77	7,361.00	7,370.77	7,359.17	28.95	22.18	84.31	301.73	763.95	1,529.00	1,494.38	34.62	44.164	
7,500.00	7,440.24	7,446.75	7,435.15	29.20	22.42	84.28	302.37	764.09	1,529.21	1,494.23	34.98	43.715	
7,600.00	7,540.24	7,543.04	7,531.43	29.52	22.74	84.27	302.81	764.58	1,529.76	1,494.32	35.44	43.164	
7,700.00	7,640.24	7,639.88	7,628.27	29.84	23.06	84.26	303.07	765.23	1,530.46	1,494.55	35.91	42.623	
7,800.00	7,740.24	7,733.27	7,721.65	30.16	23.38	84.26	303.16	766.20	1,531.50	1,495.14	36.36	42.117	
7,900.00	7,840.24	7,824.46	7,812.83	30.48	23.69	84.25	303.47	767.57	1,533.04	1,496.23	36.81	41.644	
7,966.81	7,907.04	7,884.74	7,873.11	30.69	23.90	84.25	303.72	768.80	1,534.42	1,497.31	37.11	41.347	
8,000.00	7,940.22	7,916.98	7,905.33	30.79	24.01	-95.13	303.85	769.54	1,535.27	1,498.01	37.26	41.200	
8,050.00	7,989.94	7,965.28	7,953.62	30.94	24.17	-95.15	304.05	770.67	1,536.92	1,499.43	37.49	40.997	
8,100.00	8,039.04	8,013.45	8,001.77	31.08	24.33	-95.28	304.29	771.83	1,539.04	1,501.33	37.71	40.813	
8,150.00	8,087.13	8,060.66	8,048.97	31.21	24.50	-95.51	304.64	772.98	1,541.67	1,503.75	37.92	40.651	
8,200.00	8,133.85	8,106.44	8,094.73	31.33	24.65	-95.79	305.09	774.11	1,544.92	1,506.78	38.13	40.514	
8,250.00	8,178.84	8,150.43	8,138.71	31.45	24.80	-96.12	305.58	775.20	1,548.88	1,510.54	38.33	40.406	
8,300.00	8,221.77	8,191.11	8,179.37	31.55	24.94	-96.42	306.09	776.24	1,553.70	1,515.18	38.52	40.336	
8,350.00	8,262.30	8,228.86	8,217.10	31.65	25.06	-96.65	306.66	777.24	1,559.56	1,520.87	38.69	40.304	
8,400.00	8,300.13	8,264.46	8,252.68	31.74	25.18	-96.82	307.27	778.22	1,566.60	1,527.73	38.86	40.311	
8,450.00	8,334.96	8,299.22	8,287.42	31.82	25.30	-96.91	307.91	779.18	1,574.89	1,535.86	39.03	40.352	
8,500.00	8,366.54	8,330.56	8,318.74	31.89	25.41	-96.83	308.51	780.02	1,584.55	1,545.36	39.18	40.439	
8,550.00	8,394.62	8,358.58	8,346.75	31.96	25.50	-96.55	309.07	780.77	1,595.68	1,556.35	39.33	40.575	
8,600.00	8,418.99	8,383.59	8,371.75	32.03	25.58	-96.06	309.56	781.41	1,608.35	1,568.89	39.46	40.758	
8,650.00	8,439.47	8,404.45	8,392.60	32.11	25.65	-95.28	309.97	781.93	1,622.59	1,583.01	39.58	40.995	
8,700.00	8,455.89	8,421.00	8,409.14	32.19	25.71	-94.20	310.28	782.33	1,638.40	1,598.72	39.68	41.286	
8,750.00	8,468.13	8,433.09	8,421.22	32.29	25.75	-92.79	310.51	782.62	1,655.76	1,615.99	39.77	41.632	
8,800.00	8,476.11	8,440.62	8,428.75	32.40	25.77	-91.04	310.65	782.80	1,674.57	1,634.73	39.84	42.031	
8,850.00	8,479.75	8,443.53	8,431.66	32.54	25.78	-88.94	310.71	782.86	1,694.69	1,654.80	39.89	42.481	
8,866.81	8,480.00	8,443.46	8,431.59	32.59	25.78	-88.17	310.71	782.86	1,701.73	1,661.82	39.91	42.644	
8,900.00	8,480.00	8,442.81	8,430.94	32.70	25.78	-88.14	310.69	782.85	1,716.00	1,676.07	39.93	42.975	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	8,480.00	8,440.84	8,428.97	33.09	25.77	-88.07	310.66	782.80	1,762.09	1,722.08	40.01	44.038	
9,100.00	8,480.00	8,438.86	8,426.99	33.57	25.77	-88.00	310.62	782.75	1,812.53	1,772.43	40.10	45.196	
9,200.00	8,480.00	8,436.88	8,425.01	34.14	25.76	-87.92	310.58	782.71	1,866.97	1,826.76	40.20	46.441	
9,300.00	8,480.00	8,434.89	8,423.02	34.79	25.75	-87.85	310.55	782.66	1,925.06	1,884.76	40.30	47.766	
9,400.00	8,480.00	8,432.89	8,421.02	35.50	25.75	-87.78	310.51	782.61	1,986.48	1,946.08	40.40	49.166	
9,500.00	8,480.00	8,430.88	8,419.02	36.28	25.74	-87.70	310.47	782.57	2,050.95	2,010.44	40.50	50.635	
9,600.00	8,480.00	8,428.87	8,417.01	37.11	25.73	-87.63	310.43	782.52	2,118.17	2,077.57	40.60	52.166	
9,700.00	8,480.00	8,426.86	8,415.00	38.01	25.73	-87.55	310.39	782.47	2,187.90	2,147.20	40.70	53.754	
9,800.00	8,480.00	8,424.83	8,412.97	38.95	25.72	-87.48	310.36	782.42	2,259.90	2,219.10	40.80	55.394	
9,900.00	8,480.00	8,422.80	8,410.94	39.94	25.71	-87.40	310.32	782.38	2,333.96	2,293.08	40.89	57.083	
10,000.00	8,480.00	8,420.77	8,408.91	40.97	25.71	-87.33	310.28	782.33	2,409.90	2,368.93	40.97	58.815	
10,100.00	8,480.00	8,418.73	8,406.87	42.04	25.70	-87.25	310.24	782.28	2,487.54	2,446.48	41.06	60.586	
10,200.00	8,480.00	8,416.68	8,404.82	43.14	25.69	-87.17	310.20	782.23	2,566.72	2,525.58	41.14	62.392	
10,300.00	8,480.00	8,414.62	8,402.76	44.29	25.69	-87.10	310.16	782.18	2,647.31	2,606.10	41.22	64.231	
10,400.00	8,480.00	8,412.56	8,400.70	45.46	25.68	-87.02	310.12	782.13	2,729.19	2,687.90	41.29	66.099	
10,500.00	8,480.00	8,410.49	8,398.63	46.66	25.67	-86.94	310.08	782.08	2,812.23	2,770.87	41.36	67.994	
10,600.00	8,480.00	8,408.41	8,396.56	47.89	25.67	-86.87	310.04	782.03	2,896.35	2,854.92	41.43	69.914	
10,700.00	8,480.00	8,406.33	8,394.47	49.14	25.66	-86.79	310.00	781.98	2,981.45	2,939.95	41.49	71.855	
10,800.00	8,480.00	8,404.23	8,392.38	50.42	25.65	-86.71	309.96	781.92	3,067.44	3,025.88	41.56	73.816	
10,900.00	8,480.00	8,402.14	8,390.29	51.72	25.65	-86.63	309.92	781.87	3,154.26	3,112.64	41.62	75.795	
11,000.00	8,480.00	8,400.03	8,388.18	53.03	25.64	-86.56	309.88	781.82	3,241.84	3,200.16	41.67	77.791	
11,100.00	8,480.00	8,397.92	8,386.07	54.37	25.63	-86.48	309.84	781.77	3,330.11	3,288.38	41.73	79.801	
11,200.00	8,480.00	8,395.80	8,383.96	55.72	25.62	-86.40	309.80	781.72	3,419.03	3,377.25	41.78	81.825	
11,300.00	8,480.00	8,393.68	8,381.83	57.09	25.62	-86.32	309.76	781.66	3,508.55	3,466.71	41.84	83.862	
11,400.00	8,480.00	8,391.54	8,379.70	58.47	25.61	-86.24	309.72	781.61	3,598.62	3,556.73	41.89	85.909	
11,500.00	8,480.00	8,389.40	8,377.56	59.86	25.60	-86.16	309.68	781.56	3,689.19	3,647.25	41.94	87.966	
11,600.00	8,480.00	8,387.26	8,375.42	61.27	25.60	-86.08	309.63	781.50	3,780.24	3,738.26	41.99	90.032	
11,700.00	8,480.00	15,294.00	12,021.39	62.69	74.36	-156.41	-3,312.88	823.22	3,864.09	3,804.59	59.50	64.939	
11,800.00	8,480.00	15,388.00	12,021.39	64.13	75.69	-156.47	-3,406.81	819.86	3,862.26	3,801.72	60.54	63.792	
11,900.00	8,480.00	15,445.10	12,021.35	65.57	76.50	-156.52	-3,463.82	816.77	3,860.27	3,798.91	61.36	62.909	
11,907.52	8,480.00	15,447.11	12,021.38	65.68	76.53	-156.52	-3,465.83	816.68	3,860.23	3,798.82	61.41	62.859	
12,000.00	8,480.00	15,483.00	12,022.38	67.02	77.04	-156.54	-3,501.68	815.47	3,860.68	3,798.61	62.07	62.196	
12,100.00	8,480.00	15,514.20	12,023.63	68.48	77.49	-156.56	-3,532.85	814.81	3,862.75	3,800.00	62.75	61.560	
12,200.00	8,480.00	15,578.00	12,026.52	69.95	78.41	-156.60	-3,596.58	814.39	3,866.17	3,802.55	63.63	60.763	
12,300.00	8,480.00	15,767.00	12,032.62	71.42	81.15	-156.67	-3,785.46	813.65	3,868.43	3,803.10	65.33	59.210	
12,400.00	8,480.00	15,767.00	12,032.62	72.91	81.15	-156.67	-3,785.46	813.65	3,871.15	3,805.34	65.81	58.819	
12,500.00	8,480.00	15,861.00	12,036.80	74.40	82.53	-156.69	-3,879.34	814.63	3,875.26	3,808.33	66.92	57.906	
12,600.00	8,480.00	15,861.00	12,036.80	75.90	82.53	-156.69	-3,879.34	814.63	3,880.71	3,813.32	67.39	57.589	
12,700.00	8,480.00	15,949.24	12,043.81	77.40	83.84	-156.72	-3,967.28	816.31	3,888.29	3,819.83	68.46	56.798	
12,800.00	8,480.00	16,001.23	12,047.92	78.91	84.61	-156.74	-4,019.10	817.17	3,895.86	3,826.59	69.27	56.238	
12,900.00	8,480.00	16,050.00	12,052.04	80.43	85.33	-156.74	-4,067.65	819.14	3,904.80	3,834.73	70.07	55.724	
13,000.00	8,480.00	16,088.19	12,055.55	81.95	85.91	-156.74	-4,105.61	821.39	3,915.16	3,844.36	70.80	55.300	
13,100.00	8,480.00	16,144.00	12,061.37	83.47	86.74	-156.72	-4,160.96	825.58	3,927.10	3,855.43	71.67	54.797	
13,200.00	8,480.00	16,806.00	12,102.11	85.00	96.68	-157.08	-4,820.16	822.76	3,932.30	3,855.64	76.66	51.297	
13,279.45	8,480.00	16,806.00	12,102.11	86.22	96.68	-157.08	-4,820.16	822.76	3,931.49	3,854.42	77.07	51.009	
13,300.00	8,480.00	16,806.00	12,102.11	86.54	96.68	-157.08	-4,820.16	822.76	3,931.55	3,854.37	77.18	50.941	
13,400.00	8,480.00	16,849.51	12,103.72	88.08	97.34	-157.13	-4,863.56	820.15	3,932.55	3,854.61	77.94	50.455	
13,500.00	8,480.00	16,900.00	12,106.54	89.62	98.10	-157.18	-4,913.94	818.41	3,935.57	3,856.82	78.74	49.979	
13,600.00	8,480.00	16,900.00	12,106.54	91.17	98.10	-157.18	-4,913.94	818.41	3,940.06	3,860.85	79.21	49.742	
13,700.00	8,480.00	16,994.00	12,113.43	92.72	99.53	-157.25	-5,007.68	817.02	3,945.86	3,865.55	80.31	49.133	
13,800.00	8,480.00	17,028.32	12,116.31	94.27	100.05	-157.27	-5,041.87	816.80	3,952.73	3,871.73	81.00	48.801	
13,900.00	8,480.00	17,088.00	12,121.95	95.83	100.97	-157.31	-5,101.29	816.78	3,960.95	3,879.09	81.86	48.387	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	8,480.00	17,182.00	12,131.53	97.39	102.41	-157.39	-5,194.79	815.63	3,969.53	3,886.58	82.95	47.855	
14,100.00	8,480.00	17,241.41	12,138.12	98.95	103.32	-157.46	-5,253.81	814.08	3,978.56	3,894.79	83.77	47.495	
14,200.00	8,480.00	17,276.00	12,142.41	100.52	103.85	-157.50	-5,288.12	813.27	3,988.99	3,904.58	84.40	47.261	
14,300.00	8,480.00	17,340.56	12,151.22	102.09	104.84	-157.57	-5,352.06	811.90	4,000.56	3,915.31	85.24	46.931	
14,400.00	8,480.00	17,371.00	12,155.72	103.66	105.30	-157.61	-5,382.16	811.30	4,013.48	3,927.66	85.82	46.768	
14,500.00	8,480.00	17,465.00	12,170.75	105.23	106.75	-157.72	-5,474.94	810.01	4,027.42	3,940.56	86.86	46.367	
14,600.00	8,480.00	17,691.90	12,200.43	106.81	110.26	-157.90	-5,699.83	811.16	4,038.69	3,949.69	89.00	45.376	
14,700.00	8,480.00	17,755.72	12,207.32	108.39	111.26	-157.90	-5,763.20	814.15	4,050.08	3,960.15	89.92	45.040	
14,800.00	8,480.00	17,989.42	12,228.73	109.97	114.92	-157.89	-5,995.56	826.55	4,060.14	3,967.81	92.33	43.972	
14,900.00	8,480.00	18,048.00	12,233.53	111.55	115.84	-157.88	-6,053.87	829.41	4,069.18	3,975.95	93.23	43.645	
15,000.00	8,480.00	18,351.16	12,252.58	113.13	120.60	-157.82	-6,355.92	844.74	4,077.22	3,980.99	96.23	42.371	
15,100.00	8,480.00	18,630.55	12,260.61	114.72	124.98	-157.88	-6,635.13	846.29	4,080.03	3,981.29	98.73	41.323	
15,200.00	8,480.00	18,691.00	12,261.11	116.31	125.93	-157.88	-6,695.58	846.80	4,080.70	3,981.00	99.70	40.929	
15,300.00	8,480.00	18,733.71	12,261.90	117.90	126.61	-157.89	-6,738.27	847.43	4,082.54	3,982.02	100.52	40.612	
15,400.00	8,480.00	18,786.00	12,263.60	119.49	127.43	-157.89	-6,790.53	848.29	4,085.72	3,984.31	101.41	40.290	
15,500.00	8,480.00	18,786.00	12,263.60	121.08	127.43	-157.89	-6,790.53	848.29	4,090.61	3,988.74	101.87	40.156	
15,600.00	8,480.00	18,838.85	12,266.52	122.68	128.27	-157.90	-6,843.28	849.52	4,096.74	3,994.00	102.73	39.878	
15,700.00	8,480.00	18,880.00	12,269.91	124.27	128.92	-157.90	-6,884.27	850.91	4,104.93	4,001.46	103.47	39.671	
15,800.00	8,480.00	19,674.89	12,268.41	125.87	141.51	-157.82	-7,677.09	864.25	4,103.95	3,994.14	109.80	37.375	
15,900.00	8,480.00	19,731.00	12,264.12	127.47	142.40	-157.81	-7,733.03	864.06	4,096.32	3,985.49	110.84	36.959	
16,000.00	8,480.00	19,818.45	12,258.02	129.07	143.79	-157.79	-7,820.27	863.89	4,089.41	3,977.35	112.05	36.495	
16,100.00	8,480.00	19,825.00	12,257.56	130.67	143.89	-157.79	-7,826.80	863.89	4,083.63	3,970.86	112.76	36.214	
16,200.00	8,480.00	19,865.21	12,255.54	132.27	144.53	-157.78	-7,866.96	863.95	4,079.34	3,965.68	113.66	35.892	
16,300.00	8,480.00	19,920.00	12,255.33	133.88	145.40	-157.78	-7,921.74	864.22	4,077.88	3,963.27	114.62	35.578	
16,381.29	8,480.00	19,920.00	12,255.33	135.18	145.40	-157.78	-7,921.74	864.22	4,077.07	3,961.99	115.08	35.427	
16,400.00	8,480.00	19,920.00	12,255.33	135.48	145.40	-157.78	-7,921.74	864.22	4,077.11	3,961.93	115.19	35.396	
16,500.00	8,480.00	20,101.52	12,254.40	137.09	148.29	-157.77	-8,103.23	866.64	4,076.93	3,959.87	117.05	34.829	
16,600.00	8,480.00	20,203.00	12,252.03	138.70	149.91	-157.74	-8,204.65	868.91	4,075.24	3,956.85	118.39	34.424	
16,697.84	8,480.00	20,236.62	12,251.35	140.27	150.45	-157.73	-8,238.24	870.11	4,074.43	3,955.22	119.21	34.180	
16,700.00	8,480.00	20,237.30	12,251.34	140.30	150.46	-157.73	-8,238.92	870.14	4,074.43	3,955.21	119.22	34.175	
16,800.00	8,480.00	20,297.00	12,251.13	141.91	151.42	-157.69	-8,298.51	873.83	4,075.62	3,955.35	120.28	33.886	
16,900.00	8,480.00	20,297.00	12,251.13	143.52	151.42	-157.69	-8,298.51	873.83	4,077.88	3,957.11	120.77	33.765	
17,000.00	8,480.00	20,355.92	12,251.89	145.13	152.37	-157.64	-8,357.23	878.55	4,081.79	3,959.99	121.80	33.512	
17,100.00	8,480.00	20,833.10	12,250.79	146.75	160.01	-157.53	-8,833.82	890.75	4,084.11	3,958.13	125.98	32.419	
17,200.00	8,480.00	20,943.40	12,246.11	148.36	161.77	-157.55	-8,944.00	888.96	4,079.18	3,951.89	127.30	32.045	
17,300.00	8,480.00	21,052.00	12,241.46	149.97	163.50	-157.57	-9,052.48	886.43	4,073.95	3,945.36	128.59	31.683	
17,400.00	8,480.00	21,092.28	12,240.06	151.59	164.14	-157.58	-9,092.71	885.34	4,069.41	3,939.92	129.48	31.428	
17,500.00	8,480.00	21,146.00	12,239.08	153.20	165.00	-157.59	-9,146.42	884.63	4,066.56	3,936.11	130.45	31.174	
17,600.00	8,480.00	21,146.00	12,239.08	154.82	165.00	-157.59	-9,146.42	884.63	4,065.18	3,934.14	131.03	31.024	
17,700.00	8,480.00	21,509.54	12,231.16	156.44	170.81	-157.71	-9,509.62	875.81	4,062.05	3,928.27	133.78	30.363	
17,800.00	8,480.00	21,618.00	12,224.36	158.05	172.54	-157.72	-9,617.84	873.37	4,054.99	3,919.91	135.09	30.017	
17,900.00	8,480.00	21,668.04	12,221.28	159.67	173.34	-157.72	-9,667.78	872.72	4,048.60	3,912.51	136.09	29.749	
18,000.00	8,480.00	21,713.00	12,219.22	161.29	174.06	-157.72	-9,712.69	872.54	4,043.74	3,906.69	137.05	29.507	
18,100.00	8,480.00	21,792.49	12,216.05	162.91	175.34	-157.70	-9,792.11	873.01	4,039.86	3,901.64	138.22	29.227	
18,200.00	8,480.00	21,861.96	12,213.20	164.53	176.46	-157.68	-9,861.51	874.35	4,036.44	3,897.09	139.36	28.964	
18,300.00	8,480.00	21,932.44	12,210.48	166.15	177.60	-157.64	-9,931.90	876.91	4,033.85	3,893.33	140.52	28.706	
18,400.00	8,480.00	22,030.88	12,206.73	167.77	179.19	-157.57	-10,030.15	881.69	4,031.80	3,889.86	141.94	28.406	
18,500.00	8,480.00	22,217.19	12,195.82	169.40	186.37	-157.38	-10,215.78	893.13	4,028.22	3,882.65	145.58	27.671	
18,600.00	8,480.00	22,230.00	12,194.93	171.02	187.87	-157.37	-10,228.53	893.96	4,024.81	3,877.98	146.83	27.412	
18,688.26	8,480.00	22,230.00	12,194.93	172.45	187.87	-157.37	-10,228.53	893.96	4,023.84	3,876.45	147.40	27.300	
18,700.00	8,480.00	22,230.00	12,194.93	172.64	187.87	-157.37	-10,228.53	893.96	4,023.86	3,876.39	147.47	27.287	
18,800.00	8,480.00	22,230.00	12,194.93	174.26	187.87	-157.37	-10,228.53	893.96	4,025.39	3,877.37	148.02	27.195	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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

Survey Program: 133-MWD, 1394-OWSG (Rev2) MWD, 22230-BLIND

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.00	8,480.00	22,230.00	12,194.93	175.89	187.87	-157.37	-10,228.53	893.96	4,029.41	3,880.90	148.51	27.132	
19,000.00	8,480.00	22,230.00	12,194.93	177.51	187.87	-157.37	-10,228.53	893.96	4,035.90	3,886.98	148.92	27.101	SF
19,100.00	8,480.00	22,230.00	12,194.93	179.14	187.87	-157.37	-10,228.53	893.96	4,044.85	3,895.60	149.25	27.101	
19,200.00	8,480.00	22,230.00	12,194.93	180.76	187.87	-157.37	-10,228.53	893.96	4,056.25	3,906.75	149.50	27.131	
19,300.00	8,480.00	22,230.00	12,194.93	182.39	187.87	-157.37	-10,228.53	893.96	4,070.08	3,920.40	149.68	27.192	
19,400.00	8,480.00	22,230.00	12,194.93	184.02	187.87	-157.37	-10,228.53	893.96	4,086.31	3,936.52	149.79	27.281	
19,500.00	8,480.00	22,230.00	12,194.93	185.64	187.87	-157.37	-10,228.53	893.96	4,104.90	3,955.09	149.81	27.400	
19,600.00	8,480.00	22,230.00	12,194.93	187.27	187.87	-157.37	-10,228.53	893.96	4,125.84	3,976.07	149.77	27.548	
19,700.00	8,480.00	22,230.00	12,194.93	188.90	187.87	-157.37	-10,228.53	893.96	4,149.09	3,999.43	149.66	27.723	
19,800.00	8,480.00	22,230.00	12,194.93	190.53	187.87	-157.37	-10,228.53	893.96	4,174.60	4,025.11	149.49	27.926	
19,899.80	8,480.00	22,230.00	12,194.93	192.15	187.87	-157.37	-10,228.53	893.96	4,202.28	4,053.03	149.25	28.156	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.46	0.71	74.96	74.96				
100.00	100.00	100.00	100.00	0.13	0.13	89.46	0.71	74.96	74.96	74.78	0.18	422.473	
200.00	200.00	200.00	200.00	0.48	0.48	89.46	0.71	74.96	74.96	74.28	0.68	109.530	
300.00	300.00	300.00	300.00	0.84	0.84	89.46	0.71	74.96	74.96	73.77	1.19	62.922	
400.00	400.00	400.00	400.00	1.20	1.20	89.46	0.71	74.96	74.96	73.26	1.70	44.139	
500.00	500.00	500.00	500.00	1.56	1.56	89.46	0.71	74.96	74.96	72.76	2.21	33.992	
600.00	600.00	600.00	600.00	1.92	1.92	89.46	0.71	74.96	74.96	72.25	2.71	27.638	
700.00	700.00	700.00	700.00	2.28	2.28	89.46	0.71	74.96	74.96	71.74	3.22	23.286	
800.00	800.00	800.00	800.00	2.63	2.63	89.46	0.71	74.96	74.96	71.24	3.73	20.118	
900.00	900.00	900.00	900.00	2.99	2.99	89.46	0.71	74.96	74.96	70.73	4.23	17.708	
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	89.46	0.71	74.96	74.96	70.22	4.74	15.815	
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	89.46	0.71	74.96	74.96	69.71	5.25	14.287	
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	89.46	0.71	74.96	74.96	69.21	5.75	13.028	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	89.46	0.71	74.96	74.96	68.70	6.26	11.973	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	89.46	0.71	74.96	74.96	68.19	6.77	11.076	
1,500.00	1,500.00	1,500.00	1,500.00	5.14	5.14	89.46	0.71	74.96	74.96	67.69	7.27	10.304	
1,600.00	1,600.00	1,600.00	1,600.00	5.50	5.50	89.46	0.71	74.96	74.96	67.18	7.78	9.633	
1,700.00	1,700.00	1,700.00	1,700.00	5.86	5.86	89.46	0.71	74.96	74.96	66.67	8.29	9.044	
1,800.00	1,800.00	1,800.00	1,800.00	6.22	6.22	89.46	0.71	74.96	74.96	66.17	8.80	8.523	
1,900.00	1,900.00	1,900.00	1,900.00	6.58	6.58	89.46	0.71	74.96	74.96	65.66	9.30	8.058	
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	89.46	0.71	74.96	74.96	65.15	9.81	7.642	CC, ES
2,100.00	2,099.99	2,099.99	2,099.99	7.29	7.29	168.46	0.71	74.96	76.24	65.93	10.31	7.394	
2,200.00	2,199.91	2,197.89	2,197.88	7.63	7.64	168.78	1.00	76.18	81.34	70.54	10.80	7.534	
2,300.00	2,299.69	2,295.24	2,295.15	7.98	7.98	168.98	1.88	79.81	91.47	80.20	11.27	8.117	
2,400.00	2,399.27	2,391.66	2,391.38	8.34	8.31	169.06	3.32	85.78	106.60	94.86	11.73	9.085	
2,500.00	2,498.57	2,486.81	2,486.15	8.69	8.65	169.04	5.30	93.98	126.65	114.46	12.19	10.392	
2,600.00	2,597.54	2,580.36	2,579.09	9.06	8.98	168.97	7.78	104.28	151.54	138.91	12.63	11.998	
2,616.45	2,613.78	2,595.57	2,594.18	9.12	9.04	168.95	8.24	106.16	156.10	143.39	12.70	12.287	
2,700.00	2,696.24	2,673.14	2,671.00	9.43	9.32	168.88	10.76	116.63	180.27	167.20	13.07	13.789	
2,800.00	2,794.94	2,768.71	2,765.57	9.81	9.67	168.78	14.00	130.03	209.72	196.17	13.55	15.478	
2,900.00	2,893.64	2,864.27	2,860.13	10.19	10.02	168.71	17.23	143.43	239.17	225.15	14.03	17.050	
3,000.00	2,992.34	2,959.83	2,954.69	10.58	10.38	168.65	20.47	156.83	268.63	254.12	14.51	18.515	
3,100.00	3,091.04	3,055.40	3,049.26	10.97	10.75	168.60	23.70	170.23	298.08	283.09	14.99	19.883	
3,200.00	3,189.74	3,150.96	3,143.82	11.37	11.11	168.56	26.94	183.63	327.54	312.06	15.48	21.164	
3,300.00	3,288.45	3,246.52	3,238.39	11.77	11.48	168.53	30.17	197.03	356.99	341.03	15.96	22.365	
3,400.00	3,387.15	3,342.09	3,332.95	12.17	11.85	168.50	33.41	210.43	386.44	369.99	16.45	23.493	
3,500.00	3,485.85	3,437.65	3,427.52	12.58	12.22	168.47	36.64	223.83	415.90	398.96	16.94	24.554	
3,600.00	3,584.55	3,533.22	3,522.08	12.98	12.60	168.45	39.87	237.23	445.35	427.92	17.43	25.553	
3,700.00	3,683.25	3,628.78	3,616.64	13.39	12.98	168.43	43.11	250.62	474.81	456.89	17.92	26.496	
3,800.00	3,781.95	3,724.34	3,711.21	13.80	13.35	168.42	46.34	264.02	504.26	485.85	18.41	27.388	
3,900.00	3,880.65	3,819.91	3,805.77	14.22	13.73	168.40	49.58	277.42	533.71	514.81	18.91	28.231	
4,000.00	3,979.35	3,915.47	3,900.34	14.63	14.12	168.39	52.81	290.82	563.17	543.77	19.40	29.030	
4,100.00	4,078.05	4,011.03	3,994.90	15.05	14.50	168.38	56.05	304.22	592.62	572.73	19.90	29.787	
4,200.00	4,176.75	4,106.60	4,089.47	15.47	14.88	168.37	59.28	317.62	622.08	601.69	20.39	30.507	
4,300.00	4,275.45	4,202.16	4,184.03	15.89	15.27	168.36	62.52	331.02	651.53	630.64	20.89	31.192	
4,400.00	4,374.15	4,297.73	4,278.59	16.31	15.66	168.35	65.75	344.42	680.99	659.60	21.39	31.843	
4,500.00	4,472.85	4,393.29	4,373.16	16.73	16.04	168.34	68.98	357.82	710.44	688.56	21.88	32.464	
4,600.00	4,571.55	4,488.85	4,467.72	17.15	16.43	168.34	72.22	371.22	739.89	717.51	22.38	33.057	
4,700.00	4,670.25	4,584.42	4,562.29	17.57	16.82	168.33	75.45	384.62	769.35	746.47	22.88	33.623	
4,800.00	4,768.95	4,679.98	4,656.85	18.00	17.21	168.32	78.69	398.02	798.80	775.42	23.38	34.163	
4,900.00	4,867.65	4,775.54	4,751.42	18.42	17.60	168.32	81.92	411.42	828.26	804.38	23.88	34.681	
5,000.00	4,966.35	4,871.11	4,845.98	18.85	17.99	168.31	85.16	424.82	857.71	833.33	24.38	35.176	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.05	4,966.67	4,940.55	19.28	18.39	168.31	88.39	438.22	887.17	862.28	24.88	35.651	
5,200.00	5,163.76	5,062.24	5,035.11	19.70	18.78	168.30	91.63	451.62	916.62	891.23	25.39	36.106	
5,300.00	5,262.46	5,157.80	5,129.67	20.13	19.17	168.30	94.86	465.02	946.08	920.19	25.89	36.543	
5,400.00	5,361.16	5,253.36	5,224.24	20.56	19.57	168.29	98.09	478.42	975.53	949.14	26.39	36.963	
5,500.00	5,459.86	5,348.93	5,318.80	20.99	19.96	168.29	101.33	491.82	1,004.98	978.09	26.90	37.367	
5,600.00	5,558.56	5,444.49	5,413.37	21.42	20.36	168.29	104.56	505.22	1,034.44	1,007.04	27.40	37.755	
5,700.00	5,657.26	5,540.05	5,507.93	21.85	20.75	168.28	107.80	518.62	1,063.89	1,035.99	27.90	38.129	
5,800.00	5,755.96	5,635.62	5,602.50	22.28	21.15	168.28	111.03	532.02	1,093.35	1,064.94	28.41	38.489	
5,900.00	5,854.66	5,731.18	5,697.06	22.71	21.54	168.28	114.27	545.42	1,122.80	1,093.89	28.91	38.836	
6,000.00	5,953.36	5,826.75	5,791.62	23.14	21.94	168.27	117.50	558.82	1,152.26	1,122.84	29.42	39.170	
6,100.00	6,052.06	5,922.31	5,886.19	23.57	22.34	168.27	120.74	572.22	1,181.71	1,151.79	29.92	39.493	
6,200.00	6,150.76	6,017.87	5,980.75	24.01	22.73	168.27	123.97	585.62	1,211.17	1,180.74	30.43	39.805	
6,300.00	6,249.46	6,113.44	6,075.32	24.44	23.13	168.26	127.20	599.02	1,240.62	1,209.69	30.93	40.107	
6,400.00	6,348.16	6,209.00	6,169.88	24.87	23.53	168.26	130.44	612.42	1,270.08	1,238.64	31.44	40.398	
6,500.00	6,446.86	6,304.56	6,264.45	25.30	23.93	168.26	133.67	625.82	1,299.53	1,267.58	31.95	40.680	
6,600.00	6,545.56	6,400.13	6,359.01	25.74	24.33	168.26	136.91	639.22	1,328.98	1,296.53	32.45	40.952	
6,700.00	6,644.26	6,495.69	6,453.57	26.17	24.72	168.26	140.14	652.62	1,358.44	1,325.48	32.96	41.216	
6,804.31	6,747.22	6,595.38	6,552.22	26.62	25.14	168.25	143.52	666.60	1,389.16	1,355.68	33.49	41.482	
6,900.00	6,841.85	6,687.16	6,643.04	27.03	25.52	168.33	146.62	679.46	1,416.22	1,382.25	33.97	41.686	
7,000.00	6,941.09	6,783.75	6,738.62	27.44	25.93	168.37	149.89	693.01	1,442.09	1,407.61	34.48	41.823	
7,100.00	7,040.61	6,895.90	6,849.63	27.83	26.40	168.39	153.64	708.53	1,465.34	1,430.27	35.07	41.784	
7,200.00	7,140.36	7,053.51	7,006.21	28.20	27.02	168.37	157.83	725.91	1,483.26	1,447.39	35.87	41.352	
7,300.00	7,240.26	7,213.65	7,165.92	28.55	27.62	168.36	160.54	737.11	1,494.63	1,458.01	36.62	40.817	
7,400.00	7,340.24	7,375.20	7,327.38	28.88	28.17	168.35	161.67	741.81	1,499.36	1,462.05	37.31	40.186	
7,420.77	7,361.00	7,408.81	7,361.00	28.95	28.29	89.55	161.71	741.96	1,499.50	1,462.06	37.45	40.044	
7,500.00	7,440.24	7,488.05	7,440.24	29.20	28.54	89.55	161.71	741.96	1,499.50	1,461.68	37.83	39.639	
7,600.00	7,540.24	7,588.05	7,540.24	29.52	28.87	89.55	161.71	741.96	1,499.50	1,461.19	38.31	39.139	
7,700.00	7,640.24	7,688.05	7,640.24	29.84	29.20	89.55	161.71	741.96	1,499.50	1,460.71	38.80	38.651	
7,800.00	7,740.24	7,788.05	7,740.24	30.16	29.52	89.55	161.71	741.96	1,499.50	1,460.22	39.28	38.174	
7,900.00	7,840.24	7,888.05	7,840.24	30.48	29.85	89.55	161.71	741.96	1,499.50	1,459.74	39.77	37.708	
7,966.81	7,907.04	7,954.30	7,906.38	30.69	30.05	89.67	158.63	741.99	1,499.51	1,459.44	40.08	37.415	
8,000.00	7,940.22	7,986.86	7,938.65	30.79	30.15	-89.63	154.34	742.03	1,499.53	1,459.31	40.23	37.278	
8,050.00	7,989.94	8,035.55	7,986.33	30.94	30.29	-89.44	144.52	742.13	1,499.57	1,459.14	40.44	37.084	
8,100.00	8,039.04	8,083.84	8,032.62	31.08	30.41	-89.25	130.82	742.27	1,499.63	1,458.99	40.64	36.901	
8,150.00	8,087.13	8,131.76	8,077.25	31.21	30.53	-89.07	113.43	742.44	1,499.70	1,458.87	40.83	36.729	
8,200.00	8,133.85	8,179.32	8,119.96	31.33	30.65	-88.89	92.53	742.65	1,499.79	1,458.77	41.02	36.566	
8,250.00	8,178.84	8,226.54	8,160.51	31.45	30.75	-88.73	68.35	742.89	1,499.88	1,458.68	41.19	36.411	
8,300.00	8,221.77	8,273.46	8,198.69	31.55	30.84	-88.57	41.11	743.16	1,499.98	1,458.61	41.37	36.261	
8,350.00	8,262.30	8,320.10	8,234.31	31.65	30.93	-88.42	11.02	743.46	1,500.08	1,458.54	41.54	36.114	
8,400.00	8,300.13	8,366.48	8,267.18	31.74	31.01	-88.29	-21.68	743.79	1,500.18	1,458.47	41.71	35.969	
8,450.00	8,334.96	8,412.63	8,297.16	31.82	31.08	-88.17	-56.74	744.14	1,500.28	1,458.40	41.88	35.822	
8,500.00	8,366.54	8,458.57	8,324.11	31.89	31.15	-88.06	-93.93	744.51	1,500.38	1,458.32	42.06	35.673	
8,550.00	8,394.62	8,504.34	8,347.91	31.96	31.22	-87.96	-133.01	744.90	1,500.47	1,458.22	42.25	35.518	
8,600.00	8,418.99	8,550.00	8,368.47	32.03	31.30	-87.88	-173.77	745.31	1,500.55	1,458.11	42.44	35.357	
8,650.00	8,439.47	8,595.44	8,385.65	32.11	31.38	-87.82	-215.82	745.73	1,500.61	1,457.97	42.65	35.188	
8,700.00	8,455.89	8,640.84	8,399.42	32.19	31.48	-87.76	-259.06	746.16	1,500.67	1,457.80	42.86	35.010	
8,750.00	8,468.13	8,686.16	8,409.72	32.29	31.59	-87.73	-303.18	746.60	1,500.70	1,457.61	43.09	34.824	
8,800.00	8,476.11	8,731.43	8,416.49	32.40	31.72	-87.71	-347.93	747.05	1,500.73	1,457.39	43.34	34.631	
8,850.00	8,479.75	8,776.69	8,419.71	32.54	31.86	-87.71	-393.06	747.50	1,500.73	1,457.15	43.59	34.430	
8,866.81	8,480.00	8,791.90	8,419.99	32.59	31.92	-87.71	-408.27	747.65	1,500.73	1,457.06	43.67	34.362	
8,869.99	8,480.00	8,794.85	8,420.00	32.60	31.93	-87.71	-411.22	747.68	1,500.73	1,457.04	43.69	34.349	
8,900.00	8,480.00	8,824.78	8,420.00	32.70	32.04	-87.71	-441.15	747.98	1,500.73	1,456.87	43.87	34.211	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	8,480.00	8,924.78	8,420.00	33.09	32.47	-87.71	-541.15	748.98	1,500.74	1,456.23	44.51	33.715	
9,100.00	8,480.00	9,024.78	8,420.00	33.57	32.98	-87.71	-641.14	749.97	1,500.74	1,455.48	45.27	33.151	
9,200.00	8,480.00	9,124.78	8,420.00	34.14	33.58	-87.71	-741.14	750.97	1,500.75	1,454.62	46.13	32.531	
9,300.00	8,480.00	9,224.78	8,420.00	34.79	34.24	-87.71	-841.13	751.97	1,500.76	1,453.66	47.10	31.866	
9,400.00	8,480.00	9,324.78	8,420.00	35.50	34.97	-87.71	-941.13	752.97	1,500.76	1,452.61	48.15	31.167	
9,500.00	8,480.00	9,424.78	8,420.00	36.28	35.77	-87.71	-1,041.12	753.97	1,500.77	1,451.47	49.30	30.443	
9,600.00	8,480.00	9,524.78	8,420.00	37.11	36.62	-87.71	-1,141.12	754.97	1,500.77	1,450.25	50.52	29.704	
9,700.00	8,480.00	9,624.78	8,420.00	38.01	37.52	-87.71	-1,241.11	755.97	1,500.78	1,448.95	51.83	28.957	
9,800.00	8,480.00	9,724.78	8,420.00	38.95	38.48	-87.71	-1,341.11	756.96	1,500.78	1,447.58	53.20	28.209	
9,900.00	8,480.00	9,824.78	8,420.00	39.94	39.48	-87.71	-1,441.10	757.96	1,500.79	1,446.15	54.64	27.467	
10,000.00	8,480.00	9,924.78	8,420.00	40.97	40.52	-87.71	-1,541.10	758.96	1,500.79	1,444.66	56.14	26.733	
10,100.00	8,480.00	10,024.78	8,420.00	42.04	41.60	-87.71	-1,641.09	759.96	1,500.80	1,443.11	57.69	26.013	
10,200.00	8,480.00	10,124.78	8,420.00	43.14	42.72	-87.71	-1,741.09	760.96	1,500.81	1,441.51	59.30	25.309	
10,300.00	8,480.00	10,224.78	8,420.00	44.29	43.87	-87.71	-1,841.08	761.96	1,500.81	1,439.86	60.95	24.623	
10,400.00	8,480.00	10,324.78	8,420.00	45.46	45.05	-87.71	-1,941.08	762.95	1,500.82	1,438.17	62.65	23.956	
10,500.00	8,480.00	10,424.78	8,420.00	46.66	46.26	-87.71	-2,041.07	763.95	1,500.82	1,436.44	64.38	23.310	
10,600.00	8,480.00	10,524.78	8,420.00	47.89	47.50	-87.71	-2,141.07	764.95	1,500.83	1,434.67	66.16	22.686	
10,700.00	8,480.00	10,624.78	8,420.00	49.14	48.76	-87.71	-2,241.06	765.95	1,500.83	1,432.87	67.96	22.083	
10,800.00	8,480.00	10,724.78	8,420.00	50.42	50.04	-87.71	-2,341.06	766.95	1,500.84	1,431.04	69.80	21.501	
10,900.00	8,480.00	10,824.78	8,420.00	51.72	51.35	-87.71	-2,441.05	767.95	1,500.84	1,429.18	71.67	20.941	
11,000.00	8,480.00	10,924.78	8,420.00	53.03	52.67	-87.71	-2,541.05	768.95	1,500.85	1,427.29	73.56	20.402	
11,100.00	8,480.00	11,024.78	8,420.00	54.37	54.02	-87.71	-2,641.04	769.94	1,500.86	1,425.37	75.48	19.884	
11,200.00	8,480.00	11,124.78	8,420.00	55.72	55.37	-87.71	-2,741.04	770.94	1,500.86	1,423.44	77.42	19.385	
11,300.00	8,480.00	11,224.78	8,420.00	57.09	56.75	-87.71	-2,841.03	771.94	1,500.87	1,421.48	79.39	18.906	
11,400.00	8,480.00	11,324.78	8,420.00	58.47	58.14	-87.71	-2,941.03	772.94	1,500.87	1,419.51	81.37	18.446	
11,500.00	8,480.00	11,424.78	8,420.00	59.86	59.54	-87.71	-3,041.02	773.94	1,500.88	1,417.51	83.37	18.003	
11,600.00	8,480.00	11,524.78	8,420.00	61.27	60.96	-87.71	-3,141.02	774.94	1,500.88	1,415.50	85.38	17.578	
11,700.00	8,480.00	11,624.78	8,420.00	62.69	62.38	-87.71	-3,241.01	775.93	1,500.89	1,413.47	87.42	17.169	
11,800.00	8,480.00	11,724.78	8,420.00	64.13	63.82	-87.71	-3,341.01	776.93	1,500.89	1,411.43	89.46	16.776	
11,900.00	8,480.00	11,824.78	8,420.00	65.57	65.27	-87.71	-3,441.00	777.93	1,500.90	1,409.37	91.53	16.399	
12,000.00	8,480.00	11,924.78	8,420.00	67.02	66.72	-87.71	-3,541.00	778.93	1,500.91	1,407.31	93.60	16.035	
12,100.00	8,480.00	12,024.78	8,420.00	68.48	68.19	-87.71	-3,640.99	779.93	1,500.91	1,405.23	95.69	15.686	
12,200.00	8,480.00	12,124.78	8,420.00	69.95	69.66	-87.71	-3,740.99	780.93	1,500.92	1,403.13	97.78	15.349	
12,300.00	8,480.00	12,224.78	8,420.00	71.42	71.14	-87.71	-3,840.98	781.93	1,500.92	1,401.03	99.89	15.026	
12,400.00	8,480.00	12,324.78	8,420.00	72.91	72.63	-87.71	-3,940.98	782.92	1,500.93	1,398.92	102.01	14.714	
12,500.00	8,480.00	12,424.78	8,420.00	74.40	74.13	-87.71	-4,040.97	783.92	1,500.93	1,396.80	104.14	14.413	
12,600.00	8,480.00	12,524.78	8,420.00	75.90	75.63	-87.71	-4,140.97	784.92	1,500.94	1,394.67	106.27	14.124	
12,700.00	8,480.00	12,624.78	8,420.00	77.40	77.14	-87.71	-4,240.96	785.92	1,500.94	1,392.53	108.41	13.844	
12,800.00	8,480.00	12,724.78	8,420.00	78.91	78.65	-87.71	-4,340.96	786.92	1,500.95	1,390.38	110.57	13.575	
12,900.00	8,480.00	12,824.78	8,420.00	80.43	80.17	-87.71	-4,440.95	787.92	1,500.96	1,388.23	112.72	13.315	
13,000.00	8,480.00	12,924.78	8,420.00	81.95	81.70	-87.71	-4,540.95	788.91	1,500.96	1,386.07	114.89	13.064	
13,100.00	8,480.00	13,024.78	8,420.00	83.47	83.23	-87.71	-4,640.94	789.91	1,500.97	1,383.90	117.06	12.822	
13,200.00	8,480.00	13,124.78	8,420.00	85.00	84.76	-87.71	-4,740.94	790.91	1,500.97	1,381.73	119.24	12.588	
13,300.00	8,480.00	13,224.78	8,420.00	86.54	86.30	-87.71	-4,840.93	791.91	1,500.98	1,379.55	121.42	12.361	
13,400.00	8,480.00	13,324.78	8,420.00	88.08	87.84	-87.71	-4,940.93	792.91	1,500.98	1,377.37	123.61	12.143	
13,500.00	8,480.00	13,424.78	8,420.00	89.62	89.39	-87.71	-5,040.92	793.91	1,500.99	1,375.18	125.81	11.931	
13,600.00	8,480.00	13,524.78	8,420.00	91.17	90.94	-87.71	-5,140.92	794.90	1,500.99	1,372.99	128.01	11.726	
13,700.00	8,480.00	13,624.78	8,420.00	92.72	92.49	-87.71	-5,240.91	795.90	1,501.00	1,370.79	130.21	11.527	
13,800.00	8,480.00	13,724.78	8,420.00	94.27	94.05	-87.71	-5,340.91	796.90	1,501.01	1,368.59	132.42	11.335	
13,900.00	8,480.00	13,824.78	8,420.00	95.83	95.61	-87.71	-5,440.90	797.90	1,501.01	1,366.38	134.63	11.149	
14,000.00	8,480.00	13,924.78	8,420.00	97.39	97.17	-87.71	-5,540.90	798.90	1,501.02	1,364.17	136.85	10.968	
14,100.00	8,480.00	14,024.78	8,420.00	98.95	98.74	-87.71	-5,640.89	799.90	1,501.02	1,361.95	139.07	10.793	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	8,480.00	14,124.78	8,420.00	100.52	100.30	-87.71	-5,740.89	800.90	1,501.03	1,359.73	141.29	10.623	
14,300.00	8,480.00	14,224.78	8,420.00	102.09	101.88	-87.71	-5,840.88	801.89	1,501.03	1,357.51	143.52	10.459	
14,400.00	8,480.00	14,324.78	8,420.00	103.66	103.45	-87.71	-5,940.88	802.89	1,501.04	1,355.29	145.75	10.299	
14,500.00	8,480.00	14,424.78	8,420.00	105.23	105.03	-87.71	-6,040.87	803.89	1,501.04	1,353.06	147.99	10.143	
14,600.00	8,480.00	14,524.78	8,420.00	106.81	106.60	-87.71	-6,140.87	804.89	1,501.05	1,350.83	150.22	9.992	
14,700.00	8,480.00	14,624.78	8,420.00	108.39	108.18	-87.71	-6,240.86	805.89	1,501.06	1,348.59	152.46	9.845	
14,800.00	8,480.00	14,724.78	8,420.00	109.97	109.77	-87.71	-6,340.86	806.89	1,501.06	1,346.35	154.71	9.703	
14,900.00	8,480.00	14,824.78	8,420.00	111.55	111.35	-87.71	-6,440.85	807.88	1,501.07	1,344.11	156.95	9.564	
15,000.00	8,480.00	14,924.78	8,420.00	113.13	112.94	-87.71	-6,540.85	808.88	1,501.07	1,341.87	159.20	9.429	
15,100.00	8,480.00	15,024.78	8,420.00	114.72	114.53	-87.71	-6,640.84	809.88	1,501.08	1,339.63	161.45	9.297	
15,200.00	8,480.00	15,124.78	8,420.00	116.31	116.12	-87.71	-6,740.84	810.88	1,501.08	1,337.38	163.70	9.169	
15,300.00	8,480.00	15,224.78	8,420.00	117.90	117.71	-87.71	-6,840.83	811.88	1,501.09	1,335.13	165.96	9.045	
15,400.00	8,480.00	15,324.78	8,420.00	119.49	119.30	-87.71	-6,940.83	812.88	1,501.09	1,332.88	168.22	8.924	
15,500.00	8,480.00	15,424.78	8,420.00	121.08	120.90	-87.71	-7,040.82	813.88	1,501.10	1,330.62	170.48	8.805	
15,600.00	8,480.00	15,524.78	8,420.00	122.68	122.49	-87.71	-7,140.82	814.87	1,501.11	1,328.37	172.74	8.690	
15,700.00	8,480.00	15,624.78	8,420.00	124.27	124.09	-87.71	-7,240.81	815.87	1,501.11	1,326.11	175.00	8.578	
15,800.00	8,480.00	15,724.78	8,420.00	125.87	125.69	-87.71	-7,340.81	816.87	1,501.12	1,323.85	177.27	8.468	
15,900.00	8,480.00	15,824.78	8,420.00	127.47	127.29	-87.71	-7,440.80	817.87	1,501.12	1,321.59	179.53	8.361	
16,000.00	8,480.00	15,924.78	8,420.00	129.07	128.89	-87.71	-7,540.80	818.87	1,501.13	1,319.33	181.80	8.257	
16,100.00	8,480.00	16,024.78	8,420.00	130.67	130.50	-87.71	-7,640.79	819.87	1,501.13	1,317.06	184.07	8.155	
16,200.00	8,480.00	16,124.78	8,420.00	132.27	132.10	-87.71	-7,740.79	820.86	1,501.14	1,314.80	186.34	8.056	
16,300.00	8,480.00	16,224.78	8,420.00	133.88	133.71	-87.71	-7,840.78	821.86	1,501.14	1,312.53	188.62	7.959	
16,400.00	8,480.00	16,324.78	8,420.00	135.48	135.31	-87.71	-7,940.78	822.86	1,501.15	1,310.26	190.89	7.864	
16,500.00	8,480.00	16,424.78	8,420.00	137.09	136.92	-87.71	-8,040.77	823.86	1,501.16	1,307.99	193.17	7.771	
16,600.00	8,480.00	16,524.78	8,420.00	138.70	138.53	-87.71	-8,140.77	824.86	1,501.16	1,305.72	195.44	7.681	
16,700.00	8,480.00	16,624.78	8,420.00	140.30	140.14	-87.71	-8,240.76	825.86	1,501.17	1,303.44	197.72	7.592	
16,800.00	8,480.00	16,724.78	8,420.00	141.91	141.75	-87.71	-8,340.76	826.86	1,501.17	1,301.17	200.00	7.506	
16,900.00	8,480.00	16,824.78	8,420.00	143.52	143.36	-87.71	-8,440.75	827.85	1,501.18	1,298.89	202.28	7.421	
17,000.00	8,480.00	16,924.78	8,420.00	145.13	144.97	-87.71	-8,540.75	828.85	1,501.18	1,296.62	204.57	7.338	
17,100.00	8,480.00	17,024.78	8,420.00	146.75	146.59	-87.71	-8,640.74	829.85	1,501.19	1,294.34	206.85	7.257	
17,200.00	8,480.00	17,124.78	8,420.00	148.36	148.20	-87.71	-8,740.74	830.85	1,501.19	1,292.06	209.13	7.178	
17,300.00	8,480.00	17,224.78	8,420.00	149.97	149.82	-87.71	-8,840.73	831.85	1,501.20	1,289.78	211.42	7.101	
17,400.00	8,480.00	17,324.78	8,420.00	151.59	151.43	-87.71	-8,940.73	832.85	1,501.21	1,287.50	213.71	7.025	
17,500.00	8,480.00	17,424.78	8,420.00	153.20	153.05	-87.71	-9,040.72	833.84	1,501.21	1,285.22	216.00	6.950	
17,600.00	8,480.00	17,524.78	8,420.00	154.82	154.67	-87.71	-9,140.72	834.84	1,501.22	1,282.93	218.28	6.877	
17,700.00	8,480.00	17,624.78	8,420.00	156.44	156.28	-87.71	-9,240.71	835.84	1,501.22	1,280.65	220.57	6.806	
17,800.00	8,480.00	17,724.78	8,420.00	158.05	157.90	-87.71	-9,340.71	836.84	1,501.23	1,278.36	222.86	6.736	
17,900.00	8,480.00	17,824.78	8,420.00	159.67	159.52	-87.71	-9,440.70	837.84	1,501.23	1,276.08	225.16	6.668	
18,000.00	8,480.00	17,924.78	8,420.00	161.29	161.14	-87.71	-9,540.70	838.84	1,501.24	1,273.79	227.45	6.600	
18,100.00	8,480.00	18,024.78	8,420.00	162.91	162.76	-87.71	-9,640.69	839.84	1,501.24	1,271.50	229.74	6.534	
18,200.00	8,480.00	18,124.78	8,420.00	164.53	164.38	-87.71	-9,740.69	840.83	1,501.25	1,269.21	232.04	6.470	
18,300.00	8,480.00	18,224.78	8,420.00	166.15	166.01	-87.71	-9,840.68	841.83	1,501.26	1,266.93	234.33	6.407	
18,400.00	8,480.00	18,324.78	8,420.00	167.77	167.63	-87.71	-9,940.68	842.83	1,501.26	1,264.64	236.63	6.344	
18,500.00	8,480.00	18,424.78	8,420.00	169.40	169.25	-87.71	-10,040.67	843.83	1,501.27	1,262.34	238.92	6.283	
18,505.55	8,480.00	18,430.33	8,420.00	169.49	169.34	-87.71	-10,046.22	843.88	1,501.27	1,262.22	239.05	6.280	
18,600.00	8,480.00	18,511.34	8,420.00	171.02	170.66	-87.71	-10,127.23	844.69	1,501.33	1,260.28	241.05	6.228	SF
18,700.00	8,480.00	18,511.34	8,420.00	172.64	170.66	-87.71	-10,127.23	844.69	1,505.56	1,264.18	241.38	6.237	
18,800.00	8,480.00	18,511.34	8,420.00	174.26	170.66	-87.71	-10,127.23	844.69	1,516.38	1,275.86	240.52	6.305	
18,900.00	8,480.00	18,511.34	8,420.00	175.89	170.66	-87.71	-10,127.23	844.69	1,533.66	1,295.12	238.54	6.429	
19,000.00	8,480.00	18,511.34	8,420.00	177.51	170.66	-87.71	-10,127.23	844.69	1,557.18	1,321.63	235.56	6.611	
19,100.00	8,480.00	18,511.34	8,420.00	179.14	170.66	-87.71	-10,127.23	844.69	1,586.67	1,354.96	231.71	6.848	
19,200.00	8,480.00	18,511.34	8,420.00	180.76	170.66	-87.71	-10,127.23	844.69	1,621.80	1,394.62	227.18	7.139	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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

Survey Program: 0-OWSG (Rev2) MWD

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,300.00	8,480.00	18,511.34	8,420.00	182.39	170.66	-87.71	-10,127.23	844.69	1,662.21	1,440.09	222.12	7.483	
19,400.00	8,480.00	18,511.34	8,420.00	184.02	170.66	-87.71	-10,127.23	844.69	1,707.52	1,490.84	216.68	7.880	
19,500.00	8,480.00	18,511.34	8,420.00	185.64	170.66	-87.71	-10,127.23	844.69	1,757.37	1,546.35	211.01	8.328	
19,600.00	8,480.00	18,511.34	8,420.00	187.27	170.66	-87.71	-10,127.23	844.69	1,811.37	1,606.13	205.24	8.826	
19,700.00	8,480.00	18,511.34	8,420.00	188.90	170.66	-87.71	-10,127.23	844.69	1,869.16	1,669.72	199.44	9.372	
19,800.00	8,480.00	18,511.34	8,420.00	190.53	170.66	-87.71	-10,127.23	844.69	1,930.40	1,736.70	193.70	9.966	
19,899.80	8,480.00	18,511.34	8,420.00	192.15	170.66	-87.71	-10,127.23	844.69	1,994.65	1,806.55	188.10	10.604	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - Paul Foster Fed Com 503H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.46	0.23	24.78	24.78				
100.00	100.00	100.00	100.00	0.13	0.13	89.46	0.23	24.78	24.78	24.60	0.18	139.661	
200.00	200.00	200.00	200.00	0.48	0.48	89.46	0.23	24.78	24.78	24.10	0.68	36.208	
300.00	300.00	300.00	300.00	0.84	0.84	89.46	0.23	24.78	24.78	23.59	1.19	20.801	
400.00	400.00	400.00	400.00	1.20	1.20	89.46	0.23	24.78	24.78	23.08	1.70	14.591	
500.00	500.00	500.00	500.00	1.56	1.56	89.46	0.23	24.78	24.78	22.58	2.21	11.237	
600.00	600.00	600.00	600.00	1.92	1.92	89.46	0.23	24.78	24.78	22.07	2.71	9.137	
700.00	700.00	700.00	700.00	2.28	2.28	89.46	0.23	24.78	24.78	21.56	3.22	7.698	
800.00	800.00	800.00	800.00	2.63	2.63	89.46	0.23	24.78	24.78	21.05	3.73	6.651	
900.00	900.00	900.00	900.00	2.99	2.99	89.46	0.23	24.78	24.78	20.55	4.23	5.854	
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	89.46	0.23	24.78	24.78	20.04	4.74	5.228	
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	89.46	0.23	24.78	24.78	19.53	5.25	4.723	
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	89.46	0.23	24.78	24.78	19.03	5.75	4.307	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	89.46	0.23	24.78	24.78	18.52	6.26	3.958	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	89.46	0.23	24.78	24.78	18.01	6.77	3.662	
1,500.00	1,500.00	1,500.00	1,500.00	5.14	5.14	89.46	0.23	24.78	24.78	17.51	7.27	3.406	
1,600.00	1,600.00	1,600.00	1,600.00	5.50	5.50	89.46	0.23	24.78	24.78	17.00	7.78	3.184	
1,700.00	1,700.00	1,700.00	1,700.00	5.86	5.86	89.46	0.23	24.78	24.78	16.49	8.29	2.990	
1,800.00	1,800.00	1,800.00	1,800.00	6.22	6.22	89.46	0.23	24.78	24.78	15.98	8.80	2.817	
1,900.00	1,900.00	1,900.00	1,900.00	6.58	6.58	89.46	0.23	24.78	24.78	15.48	9.30	2.664	
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	89.46	0.23	24.78	24.78	14.97	9.81	2.526	CC, ES
2,100.00	2,099.99	2,099.99	2,099.99	7.29	7.29	168.84	0.23	24.78	26.06	15.75	10.31	2.528	
2,200.00	2,199.91	2,200.65	2,200.64	7.63	7.65	169.63	0.60	23.51	28.65	17.85	10.80	2.653	
2,300.00	2,299.69	2,301.38	2,301.28	7.98	8.00	169.87	1.71	19.68	31.28	20.00	11.28	2.773	
2,400.00	2,399.27	2,402.17	2,401.86	8.34	8.35	169.68	3.56	13.31	33.93	22.18	11.75	2.888	
2,500.00	2,498.57	2,503.03	2,502.29	8.69	8.71	169.16	6.15	4.38	36.62	24.41	12.22	2.998	
2,600.00	2,597.54	2,603.96	2,602.50	9.06	9.07	168.39	9.48	-7.10	39.34	26.67	12.67	3.104	
2,616.45	2,613.78	2,620.57	2,618.96	9.12	9.13	168.24	10.10	-9.24	39.79	27.04	12.75	3.121	
2,700.00	2,696.24	2,704.96	2,702.43	9.43	9.44	167.13	13.54	-21.14	41.21	28.08	13.13	3.139	
2,800.00	2,794.94	2,805.63	2,801.65	9.81	9.82	164.85	18.29	-37.50	40.78	27.19	13.60	3.000	
2,900.00	2,893.64	2,905.61	2,900.08	10.19	10.20	162.23	23.16	-54.30	39.89	25.78	14.11	2.828	
3,000.00	2,992.34	3,005.58	2,998.52	10.58	10.58	159.50	28.03	-71.10	39.07	24.45	14.62	2.672	
3,100.00	3,091.04	3,105.56	3,096.96	10.97	10.98	156.65	32.90	-87.90	38.36	23.21	15.15	2.532	
3,200.00	3,189.74	3,205.54	3,195.39	11.37	11.37	153.71	37.77	-104.71	37.74	22.06	15.68	2.407	
3,300.00	3,288.45	3,305.52	3,293.83	11.77	11.77	150.67	42.64	-121.51	37.22	21.00	16.22	2.294	
3,400.00	3,387.15	3,405.50	3,392.27	12.17	12.18	147.56	47.51	-138.31	36.81	20.03	16.77	2.194	
3,500.00	3,485.85	3,505.48	3,490.70	12.58	12.59	144.39	52.39	-155.11	36.51	19.17	17.34	2.106	
3,600.00	3,584.55	3,605.46	3,589.14	12.98	13.00	141.17	57.26	-171.91	36.32	18.41	17.91	2.028	
3,700.00	3,683.25	3,705.44	3,687.58	13.39	13.41	137.94	62.13	-188.71	36.25	17.75	18.50	1.960	
3,710.77	3,693.88	3,716.20	3,698.18	13.44	13.46	137.59	62.65	-190.52	36.25	17.69	18.56	1.953	
3,800.00	3,781.95	3,805.42	3,786.01	13.80	13.83	134.70	67.00	-205.51	36.30	17.20	19.09	1.901	
3,900.00	3,880.65	3,905.39	3,884.45	14.22	14.25	131.48	71.87	-222.31	36.46	16.76	19.70	1.851	
4,000.00	3,979.35	4,005.37	3,982.89	14.63	14.67	128.29	76.74	-239.12	36.73	16.42	20.32	1.808	
4,100.00	4,078.05	4,105.35	4,081.32	15.05	15.10	125.17	81.61	-255.92	37.12	16.18	20.94	1.773	
4,200.00	4,176.75	4,205.33	4,179.76	15.47	15.52	122.11	86.48	-272.72	37.61	16.04	21.57	1.744	
4,300.00	4,275.45	4,305.31	4,278.20	15.89	15.95	119.15	91.35	-289.52	38.21	16.01	22.20	1.721	
4,400.00	4,374.15	4,405.29	4,376.63	16.31	16.38	116.28	96.22	-306.32	38.91	16.07	22.84	1.703	
4,500.00	4,472.85	4,505.27	4,475.07	16.73	16.81	113.52	101.09	-323.12	39.70	16.22	23.48	1.691	
4,600.00	4,571.55	4,605.25	4,573.51	17.15	17.24	110.88	105.97	-339.92	40.58	16.46	24.12	1.682	
4,700.00	4,670.25	4,705.23	4,671.94	17.57	17.67	108.35	110.84	-356.73	41.55	16.78	24.76	1.678	
4,800.00	4,768.95	4,805.21	4,770.38	18.00	18.11	105.94	115.71	-373.53	42.59	17.18	25.40	1.677	SF
4,900.00	4,867.65	4,905.18	4,868.82	18.42	18.54	103.65	120.58	-390.33	43.70	17.66	26.04	1.678	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - Paul Foster Fed Com 503H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,966.35	5,005.16	4,967.25	18.85	18.98	101.48	125.45	-407.13	44.88	18.20	26.67	1.682	
5,100.00	5,065.05	5,105.14	5,065.69	19.28	19.41	99.42	130.32	-423.93	46.11	18.81	27.30	1.689	
5,200.00	5,163.76	5,205.12	5,164.13	19.70	19.85	97.47	135.19	-440.73	47.41	19.48	27.93	1.697	
5,300.00	5,262.46	5,305.10	5,262.56	20.13	20.29	95.62	140.06	-457.53	48.76	20.20	28.56	1.707	
5,400.00	5,361.16	5,405.08	5,361.00	20.56	20.73	93.88	144.93	-474.34	50.15	20.97	29.18	1.719	
5,500.00	5,459.86	5,505.06	5,459.44	20.99	21.17	92.23	149.80	-491.14	51.59	21.79	29.80	1.731	
5,600.00	5,558.56	5,605.04	5,557.87	21.42	21.61	90.68	154.67	-507.94	53.07	22.65	30.42	1.745	
5,700.00	5,657.26	5,705.02	5,656.31	21.85	22.05	89.21	159.55	-524.74	54.59	23.55	31.03	1.759	
5,800.00	5,755.96	5,804.99	5,754.75	22.28	22.49	87.81	164.42	-541.54	56.14	24.49	31.65	1.774	
5,900.00	5,854.66	5,904.97	5,853.18	22.71	22.93	86.50	169.29	-558.34	57.72	25.46	32.26	1.789	
6,000.00	5,953.36	6,004.95	5,951.62	23.14	23.38	85.25	174.16	-575.14	59.33	26.47	32.86	1.805	
6,100.00	6,052.06	6,104.93	6,050.06	23.57	23.82	84.08	179.03	-591.95	60.97	27.50	33.47	1.822	
6,200.00	6,150.76	6,204.91	6,148.49	24.01	24.26	82.96	183.90	-608.75	62.63	28.56	34.07	1.838	
6,300.00	6,249.46	6,304.89	6,246.93	24.44	24.71	81.90	188.77	-625.55	64.31	29.64	34.68	1.855	
6,400.00	6,348.16	6,404.87	6,345.37	24.87	25.15	80.90	193.64	-642.35	66.02	30.74	35.28	1.871	
6,500.00	6,446.86	6,504.85	6,443.80	25.30	25.60	79.95	198.51	-659.15	67.74	31.87	35.88	1.888	
6,600.00	6,545.56	6,604.83	6,542.24	25.74	26.04	79.04	203.38	-675.95	69.48	33.01	36.47	1.905	
6,700.00	6,644.26	6,704.81	6,640.68	26.17	26.49	78.18	208.25	-692.75	71.24	34.17	37.07	1.922	
6,804.31	6,747.22	6,809.39	6,743.71	26.62	26.95	77.59	213.25	-710.00	72.99	35.29	37.70	1.936	
6,900.00	6,841.85	6,905.62	6,838.86	27.03	27.36	77.79	217.25	-723.78	74.20	35.92	38.29	1.938	
7,000.00	6,941.09	7,006.19	6,938.66	27.44	27.77	77.96	220.71	-735.73	75.25	36.39	38.87	1.936	
7,100.00	7,040.61	7,106.77	7,038.75	27.83	28.16	78.09	223.44	-745.14	76.08	36.66	39.42	1.930	
7,200.00	7,140.36	7,207.35	7,139.07	28.20	28.53	78.18	225.44	-752.02	76.69	36.75	39.94	1.920	
7,300.00	7,240.26	7,307.93	7,239.55	28.55	28.88	78.24	226.70	-756.37	77.07	36.64	40.43	1.906	
7,400.00	7,340.24	7,408.52	7,340.11	28.88	29.22	78.26	227.22	-758.17	77.23	36.34	40.90	1.889	
7,420.77	7,361.00	7,429.40	7,361.00	28.95	29.28	-0.53	227.23	-758.22	77.24	36.25	40.99	1.884	
7,500.00	7,440.24	7,508.64	7,440.24	29.20	29.53	-0.53	227.23	-758.22	77.24	35.89	41.34	1.868	
7,600.00	7,540.24	7,608.64	7,540.24	29.52	29.85	-0.53	227.23	-758.22	77.24	35.44	41.79	1.848	
7,700.00	7,640.24	7,708.64	7,640.24	29.84	30.16	-0.53	227.23	-758.22	77.24	34.99	42.25	1.828	
7,800.00	7,740.24	7,808.64	7,740.24	30.16	30.48	-0.53	227.23	-758.22	77.24	34.54	42.70	1.809	
7,900.00	7,840.24	7,908.64	7,840.24	30.48	30.80	-0.53	227.23	-758.22	77.24	34.09	43.15	1.790	
7,966.81	7,907.04	7,975.44	7,907.04	30.69	31.01	-0.53	227.23	-758.22	77.24	33.78	43.46	1.777	
8,000.00	7,940.22	8,008.62	7,940.22	30.79	31.12	-179.97	227.23	-758.22	78.20	34.59	43.60	1.793	
8,050.00	7,989.94	8,058.34	7,989.94	30.94	31.28	-179.97	227.23	-758.22	83.27	39.44	43.82	1.900	
8,100.00	8,039.04	8,107.44	8,039.04	31.08	31.44	-179.97	227.23	-758.22	92.65	48.61	44.04	2.104	
8,150.00	8,087.13	8,155.53	8,087.13	31.21	31.59	-179.97	227.23	-758.22	106.28	62.02	44.25	2.401	
8,200.00	8,133.85	8,202.25	8,133.85	31.33	31.74	-179.98	227.23	-758.22	124.04	79.58	44.46	2.790	
8,250.00	8,178.84	8,247.25	8,178.84	31.45	31.89	-179.98	227.23	-758.22	145.81	101.16	44.65	3.266	
8,300.00	8,221.77	8,290.17	8,221.77	31.55	32.02	-179.98	227.23	-758.22	171.42	126.59	44.83	3.824	
8,350.00	8,262.30	8,330.70	8,262.30	31.65	32.15	-179.98	227.23	-758.22	200.67	155.67	45.00	4.459	
8,400.00	8,300.13	8,368.53	8,300.13	31.74	32.28	-179.98	227.23	-758.22	233.35	188.19	45.15	5.168	
8,450.00	8,334.96	8,403.36	8,334.96	31.82	32.39	-179.99	227.23	-758.22	269.19	223.90	45.29	5.943	
8,500.00	8,366.54	8,434.94	8,366.54	31.89	32.49	-179.99	227.23	-758.22	307.94	262.52	45.41	6.781	
8,550.00	8,394.62	8,463.02	8,394.62	31.96	32.58	-179.99	227.23	-758.22	349.29	303.77	45.52	7.673	
8,600.00	8,418.99	8,487.39	8,418.99	32.03	32.66	-179.98	227.23	-758.22	392.93	347.32	45.61	8.615	
8,650.00	8,439.47	8,507.87	8,439.47	32.11	32.73	-179.98	227.23	-758.22	438.53	392.84	45.68	9.599	
8,700.00	8,455.89	8,524.29	8,455.89	32.19	32.78	-179.98	227.23	-758.22	485.74	440.00	45.74	10.619	
8,750.00	8,468.13	8,536.53	8,468.13	32.29	32.82	-179.98	227.23	-758.22	534.20	488.42	45.78	11.668	
8,800.00	8,476.11	8,544.51	8,476.11	32.40	32.85	-179.96	227.23	-758.22	583.54	537.73	45.81	12.739	
8,850.00	8,479.75	8,548.15	8,479.75	32.54	32.86	-179.86	227.23	-758.22	633.39	587.57	45.82	13.823	
8,866.81	8,480.00	8,548.40	8,480.00	32.59	32.86	-90.16	227.23	-758.22	650.19	604.37	45.82	14.190	
8,900.00	8,480.00	8,548.40	8,480.00	32.70	32.86	-90.17	227.23	-758.22	683.39	637.57	45.82	14.914	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

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Offset Design PF Fed Com - Paul Foster Fed Com 503H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	8,480.00	8,548.40	8,480.00	33.09	32.86	-90.19	227.23	-758.22	783.39	737.56	45.83	17.094	
9,100.00	8,480.00	8,548.40	8,480.00	33.57	32.86	-90.22	227.23	-758.22	883.39	837.56	45.83	19.274	
9,200.00	8,480.00	8,548.40	8,480.00	34.14	32.86	-90.24	227.23	-758.22	983.39	937.55	45.84	21.454	
9,300.00	8,480.00	8,548.40	8,480.00	34.79	32.86	-90.27	227.23	-758.22	1,083.39	1,037.55	45.84	23.632	
9,400.00	8,480.00	8,548.40	8,480.00	35.50	32.86	-90.29	227.23	-758.22	1,183.39	1,137.54	45.85	25.810	
9,500.00	8,480.00	8,548.40	8,480.00	36.28	32.86	-90.32	227.23	-758.22	1,283.39	1,237.53	45.86	27.987	
9,600.00	8,480.00	8,548.40	8,480.00	37.11	32.86	-90.34	227.23	-758.22	1,383.39	1,337.53	45.86	30.163	
9,700.00	8,480.00	8,548.40	8,480.00	38.01	32.86	-90.37	227.23	-758.22	1,483.39	1,437.52	45.87	32.337	
9,800.00	8,480.00	8,548.40	8,480.00	38.95	32.86	-90.39	227.23	-758.22	1,583.39	1,537.51	45.88	34.511	
9,900.00	8,480.00	8,548.40	8,480.00	39.94	32.86	-90.41	227.23	-758.22	1,683.39	1,637.50	45.89	36.683	
10,000.00	8,480.00	8,548.40	8,480.00	40.97	32.86	-90.44	227.23	-758.22	1,783.39	1,737.49	45.90	38.853	
10,100.00	8,480.00	8,548.40	8,480.00	42.04	32.86	-90.46	227.23	-758.22	1,883.39	1,837.48	45.91	41.022	
10,200.00	8,480.00	12,223.87	10,418.00	43.14	48.24	-180.00	-1,756.06	-738.54	1,938.00	1,904.92	33.08	58.588	
10,300.00	8,480.00	12,323.87	10,418.00	44.29	49.27	-180.00	-1,856.05	-737.54	1,938.00	1,904.19	33.81	57.314	
10,400.00	8,480.00	12,423.87	10,418.00	45.46	50.33	-180.00	-1,956.05	-736.55	1,938.00	1,903.43	34.57	56.061	
10,500.00	8,480.00	12,523.87	10,418.00	46.66	51.43	-180.00	-2,056.04	-735.56	1,938.00	1,902.66	35.34	54.834	
10,600.00	8,480.00	12,623.87	10,418.00	47.89	52.55	-180.00	-2,156.04	-734.57	1,938.00	1,901.87	36.13	53.632	
10,700.00	8,480.00	12,723.87	10,418.00	49.14	53.70	-180.00	-2,256.03	-733.57	1,938.00	1,901.06	36.94	52.459	
10,800.00	8,480.00	12,823.87	10,418.00	50.42	54.87	-180.00	-2,356.03	-732.58	1,938.00	1,900.23	37.77	51.316	
10,900.00	8,480.00	12,923.87	10,418.00	51.72	56.07	-180.00	-2,456.02	-731.59	1,938.00	1,899.40	38.60	50.202	
11,000.00	8,480.00	13,023.87	10,418.00	53.03	57.30	-180.00	-2,556.02	-730.60	1,938.00	1,898.54	39.46	49.119	
11,100.00	8,480.00	13,123.87	10,418.00	54.37	58.54	-180.00	-2,656.01	-729.60	1,938.00	1,897.68	40.32	48.067	
11,200.00	8,480.00	13,223.87	10,418.00	55.72	59.80	-180.00	-2,756.01	-728.61	1,938.00	1,896.81	41.19	47.045	
11,300.00	8,480.00	13,323.87	10,418.00	57.09	61.08	-180.00	-2,856.00	-727.62	1,938.00	1,895.92	42.08	46.054	
11,400.00	8,480.00	13,423.87	10,418.00	58.47	62.38	-180.00	-2,956.00	-726.63	1,938.00	1,895.02	42.98	45.093	
11,500.00	8,480.00	13,523.87	10,418.00	59.86	63.70	-180.00	-3,055.99	-725.63	1,938.00	1,894.12	43.88	44.161	
11,600.00	8,480.00	13,623.87	10,418.00	61.27	65.03	-180.00	-3,155.99	-724.64	1,938.00	1,893.20	44.80	43.258	
11,700.00	8,480.00	13,723.87	10,418.00	62.69	66.37	-180.00	-3,255.98	-723.65	1,938.00	1,892.28	45.72	42.384	
11,800.00	8,480.00	13,823.87	10,418.00	64.13	67.73	-180.00	-3,355.98	-722.66	1,938.00	1,891.34	46.66	41.537	
11,900.00	8,480.00	13,923.87	10,418.00	65.57	69.10	-180.00	-3,455.97	-721.66	1,938.00	1,890.40	47.60	40.716	
12,000.00	8,480.00	14,023.87	10,418.00	67.02	70.48	-180.00	-3,555.97	-720.67	1,938.00	1,889.46	48.55	39.922	
12,100.00	8,480.00	14,123.87	10,418.00	68.48	71.88	-180.00	-3,655.96	-719.68	1,938.00	1,888.50	49.50	39.152	
12,200.00	8,480.00	14,223.87	10,418.00	69.95	73.28	-180.00	-3,755.96	-718.69	1,938.00	1,887.54	50.46	38.407	
12,300.00	8,480.00	14,323.87	10,418.00	71.42	74.70	-180.00	-3,855.95	-717.69	1,938.00	1,886.57	51.43	37.685	
12,400.00	8,480.00	14,423.87	10,418.00	72.91	76.12	-180.00	-3,955.95	-716.70	1,938.00	1,885.60	52.40	36.986	
12,500.00	8,480.00	14,523.87	10,418.00	74.40	77.55	-180.00	-4,055.94	-715.71	1,938.00	1,884.62	53.38	36.309	
12,600.00	8,480.00	14,623.87	10,418.00	75.90	79.00	-180.00	-4,155.94	-714.72	1,938.00	1,883.64	54.36	35.652	
12,700.00	8,480.00	14,723.87	10,418.00	77.40	80.45	-180.00	-4,255.94	-713.72	1,938.00	1,882.65	55.35	35.016	
12,800.00	8,480.00	14,823.87	10,418.00	78.91	81.90	-180.00	-4,355.93	-712.73	1,938.00	1,881.66	56.34	34.400	
12,900.00	8,480.00	14,923.87	10,418.00	80.43	83.37	-180.00	-4,455.93	-711.74	1,938.00	1,880.67	57.33	33.802	
13,000.00	8,480.00	15,023.87	10,418.00	81.95	84.84	-180.00	-4,555.92	-710.75	1,938.00	1,879.67	58.33	33.222	
13,100.00	8,480.00	15,123.87	10,418.00	83.47	86.32	-180.00	-4,655.92	-709.75	1,938.00	1,878.66	59.34	32.660	
13,200.00	8,480.00	15,223.87	10,418.00	85.00	87.80	-180.00	-4,755.91	-708.76	1,938.00	1,877.65	60.35	32.114	
13,300.00	8,480.00	15,323.87	10,418.00	86.54	89.29	-180.00	-4,855.91	-707.77	1,938.00	1,876.64	61.36	31.585	
13,400.00	8,480.00	15,423.87	10,418.00	88.08	90.79	-180.00	-4,955.90	-706.78	1,938.00	1,875.63	62.37	31.071	
13,500.00	8,480.00	15,523.87	10,418.00	89.62	92.29	-180.00	-5,055.90	-705.78	1,938.00	1,874.61	63.39	30.572	
13,600.00	8,480.00	15,623.87	10,418.00	91.17	93.79	-180.00	-5,155.89	-704.79	1,938.00	1,873.59	64.41	30.087	
13,700.00	8,480.00	15,723.87	10,418.00	92.72	95.31	-180.00	-5,255.89	-703.80	1,938.00	1,872.56	65.44	29.616	
13,800.00	8,480.00	15,823.87	10,418.00	94.27	96.82	-180.00	-5,355.88	-702.81	1,938.00	1,871.54	66.46	29.159	
13,900.00	8,480.00	15,923.87	10,418.00	95.83	98.34	-180.00	-5,455.88	-701.81	1,938.00	1,870.51	67.49	28.714	
14,000.00	8,480.00	16,023.87	10,418.00	97.39	99.86	-180.00	-5,555.87	-700.82	1,938.00	1,869.48	68.52	28.282	
14,100.00	8,480.00	16,123.87	10,418.00	98.95	101.39	-180.00	-5,655.87	-699.83	1,938.00	1,868.44	69.56	27.861	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - Paul Foster Fed Com 503H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	8,480.00	16,223.87	10,418.00	100.52	102.92	-180.00	-5,755.86	-698.84	1,938.00	1,867.40	70.60	27.452	
14,300.00	8,480.00	16,323.87	10,418.00	102.09	104.46	-180.00	-5,855.86	-697.84	1,938.00	1,866.37	71.63	27.054	
14,400.00	8,480.00	16,423.87	10,418.00	103.66	106.00	-180.00	-5,955.85	-696.85	1,938.00	1,865.32	72.68	26.667	
14,500.00	8,480.00	16,523.87	10,418.00	105.23	107.54	-180.00	-6,055.85	-695.86	1,938.00	1,864.28	73.72	26.289	
14,600.00	8,480.00	16,623.87	10,418.00	106.81	109.09	-180.00	-6,155.84	-694.87	1,938.00	1,863.24	74.76	25.922	
14,700.00	8,480.00	16,723.87	10,418.00	108.39	110.63	-180.00	-6,255.84	-693.87	1,938.00	1,862.19	75.81	25.564	
14,800.00	8,480.00	16,823.87	10,418.00	109.97	112.18	-180.00	-6,355.83	-692.88	1,938.00	1,861.14	76.86	25.215	
14,900.00	8,480.00	16,923.87	10,418.00	111.55	113.74	-180.00	-6,455.83	-691.89	1,938.00	1,860.09	77.91	24.875	
15,000.00	8,480.00	17,023.87	10,418.00	113.13	115.30	-180.00	-6,555.82	-690.90	1,938.00	1,859.04	78.96	24.544	
15,100.00	8,480.00	17,123.87	10,418.00	114.72	116.86	-180.00	-6,655.82	-689.90	1,938.00	1,857.99	80.01	24.221	
15,200.00	8,480.00	17,223.87	10,418.00	116.31	118.42	-180.00	-6,755.81	-688.91	1,938.00	1,856.93	81.07	23.906	
15,300.00	8,480.00	17,323.87	10,418.00	117.90	119.98	-180.00	-6,855.81	-687.92	1,938.00	1,855.88	82.12	23.598	
15,400.00	8,480.00	17,423.87	10,418.00	119.49	121.55	-180.00	-6,955.80	-686.93	1,938.00	1,854.82	83.18	23.298	
15,500.00	8,480.00	17,523.87	10,418.00	121.08	123.12	-180.00	-7,055.80	-685.93	1,938.00	1,853.76	84.24	23.005	
15,600.00	8,480.00	17,623.87	10,418.00	122.68	124.69	-180.00	-7,155.79	-684.94	1,938.00	1,852.70	85.30	22.719	
15,700.00	8,480.00	17,723.87	10,418.00	124.27	126.26	-180.00	-7,255.79	-683.95	1,938.00	1,851.64	86.36	22.440	
15,800.00	8,480.00	17,823.87	10,418.00	125.87	127.84	-180.00	-7,355.78	-682.96	1,938.00	1,850.57	87.43	22.167	
15,900.00	8,480.00	17,923.87	10,418.00	127.47	129.41	-180.00	-7,455.78	-681.96	1,938.00	1,849.51	88.49	21.901	
16,000.00	8,480.00	18,023.87	10,418.00	129.07	130.99	-180.00	-7,555.77	-680.97	1,938.00	1,848.44	89.56	21.640	
16,100.00	8,480.00	18,123.87	10,418.00	130.67	132.57	-180.00	-7,655.77	-679.98	1,938.00	1,847.38	90.62	21.386	
16,200.00	8,480.00	18,223.87	10,418.00	132.27	134.15	-180.00	-7,755.76	-678.99	1,938.00	1,846.31	91.69	21.137	
16,300.00	8,480.00	18,323.87	10,418.00	133.88	135.74	-180.00	-7,855.76	-677.99	1,938.00	1,845.24	92.76	20.893	
16,400.00	8,480.00	18,423.87	10,418.00	135.48	137.32	-180.00	-7,955.75	-677.00	1,938.00	1,844.17	93.83	20.655	
16,500.00	8,480.00	18,523.87	10,418.00	137.09	138.91	-180.00	-8,055.75	-676.01	1,938.00	1,843.10	94.90	20.422	
16,600.00	8,480.00	18,623.87	10,418.00	138.70	140.50	-180.00	-8,155.74	-675.02	1,938.00	1,842.03	95.97	20.194	
16,700.00	8,480.00	18,723.87	10,418.00	140.30	142.09	-180.00	-8,255.74	-674.02	1,938.00	1,840.96	97.04	19.971	
16,800.00	8,480.00	18,823.87	10,418.00	141.91	143.68	-180.00	-8,355.73	-673.03	1,938.00	1,839.89	98.11	19.753	
16,900.00	8,480.00	18,923.87	10,418.00	143.52	145.27	-180.00	-8,455.73	-672.04	1,938.00	1,838.81	99.19	19.539	
17,000.00	8,480.00	19,023.87	10,418.00	145.13	146.87	-180.00	-8,555.72	-671.05	1,938.00	1,837.74	100.26	19.330	
17,100.00	8,480.00	19,123.87	10,418.00	146.75	148.46	-180.00	-8,655.72	-670.05	1,938.00	1,836.67	101.33	19.125	
17,200.00	8,480.00	19,223.87	10,418.00	148.36	150.06	-180.00	-8,755.71	-669.06	1,938.00	1,835.59	102.41	18.924	
17,300.00	8,480.00	19,323.87	10,418.00	149.97	151.66	-180.00	-8,855.71	-668.07	1,938.00	1,834.51	103.49	18.727	
17,400.00	8,480.00	19,423.87	10,418.00	151.59	153.25	-180.00	-8,955.70	-667.08	1,938.00	1,833.44	104.56	18.534	
17,500.00	8,480.00	19,523.87	10,418.00	153.20	154.85	-180.00	-9,055.70	-666.08	1,938.00	1,832.36	105.64	18.345	
17,600.00	8,480.00	19,623.87	10,418.00	154.82	156.45	-180.00	-9,155.69	-665.09	1,938.00	1,831.28	106.72	18.160	
17,700.00	8,480.00	19,723.87	10,418.00	156.44	158.06	-180.00	-9,255.69	-664.10	1,938.00	1,830.20	107.80	17.978	
17,800.00	8,480.00	19,823.87	10,418.00	158.05	159.66	-180.00	-9,355.68	-663.11	1,938.00	1,829.12	108.88	17.799	
17,900.00	8,480.00	19,923.87	10,418.00	159.67	161.26	-180.00	-9,455.68	-662.11	1,938.00	1,828.04	109.96	17.625	
18,000.00	8,480.00	20,023.87	10,418.00	161.29	162.87	-180.00	-9,555.67	-661.12	1,938.00	1,826.96	111.04	17.453	
18,100.00	8,480.00	20,123.87	10,418.00	162.91	164.47	-180.00	-9,655.67	-660.13	1,938.00	1,825.88	112.12	17.285	
18,200.00	8,480.00	20,223.87	10,418.00	164.53	166.08	-180.00	-9,755.66	-659.14	1,938.00	1,824.80	113.20	17.119	
18,300.00	8,480.00	20,323.87	10,418.00	166.15	167.69	-180.00	-9,855.66	-658.14	1,938.00	1,823.71	114.29	16.957	
18,400.00	8,480.00	20,423.87	10,418.00	167.77	169.30	-180.00	-9,955.65	-657.15	1,938.00	1,822.63	115.37	16.798	
18,500.00	8,480.00	20,523.87	10,418.00	169.40	170.91	-180.00	-10,055.65	-656.16	1,938.00	1,821.55	116.45	16.642	
18,600.00	8,480.00	20,623.87	10,418.00	171.02	172.52	-180.00	-10,155.64	-655.17	1,938.00	1,820.46	117.54	16.488	
18,700.00	8,480.00	20,723.87	10,418.00	172.64	174.13	-180.00	-10,255.64	-654.17	1,938.00	1,819.38	118.62	16.337	
18,800.00	8,480.00	20,823.87	10,418.00	174.26	175.74	-180.00	-10,355.63	-653.18	1,938.00	1,818.29	119.71	16.189	
18,900.00	8,480.00	20,923.87	10,418.00	175.89	177.35	-180.00	-10,455.63	-652.19	1,938.00	1,817.21	120.79	16.044	
19,000.00	8,480.00	21,023.87	10,418.00	177.51	178.96	-180.00	-10,555.62	-651.20	1,938.00	1,816.12	121.88	15.901	
19,100.00	8,480.00	21,123.87	10,418.00	179.14	180.58	-180.00	-10,655.62	-650.20	1,938.00	1,815.03	122.97	15.760	
19,200.00	8,480.00	21,223.87	10,418.00	180.76	182.19	-180.00	-10,755.62	-649.21	1,938.00	1,813.95	124.05	15.622	
19,300.00	8,480.00	21,323.87	10,418.00	182.39	183.81	-180.00	-10,855.61	-648.22	1,938.00	1,812.86	125.14	15.487	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - Paul Foster Fed Com 503H - OH - Plan #1

Survey Program: 0-OWSG (Rev2) MWD

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,400.00	8,480.00	21,423.87	10,418.00	184.02	185.42	-180.00	-10,955.61	-647.23	1,938.00	1,811.77	126.23	15.353	
19,500.00	8,480.00	21,523.87	10,418.00	185.64	187.04	-180.00	-11,055.60	-646.23	1,938.00	1,810.68	127.32	15.222	
19,600.00	8,480.00	21,623.87	10,418.00	187.27	188.65	-180.00	-11,155.60	-645.24	1,938.00	1,809.60	128.40	15.093	
19,700.00	8,480.00	21,723.87	10,418.00	188.90	190.27	-180.00	-11,255.59	-644.25	1,938.00	1,808.51	129.49	14.966	
19,800.00	8,480.00	21,823.87	10,418.00	190.53	191.89	-180.00	-11,355.59	-643.26	1,938.00	1,807.42	130.58	14.841	
19,899.80	8,480.00	21,923.67	10,418.00	192.15	193.51	-180.00	-11,455.38	-642.26	1,938.00	1,806.33	131.67	14.719	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - Paul Foster Fed Com 504H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	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	281.067	
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	168.55	0.47	49.87	51.15	40.84	10.31	4.961	SF
2,200.00	2,199.91	2,199.91	2,199.91	7.63	7.65	169.35	0.47	49.87	55.01	44.20	10.81	5.089	
2,300.00	2,299.69	2,298.19	2,298.18	7.98	8.00	170.03	0.89	51.06	62.64	51.35	11.30	5.546	
2,400.00	2,399.27	2,395.75	2,395.66	8.34	8.34	170.18	2.12	54.60	75.24	63.47	11.77	6.393	
2,500.00	2,498.57	2,492.22	2,491.94	8.69	8.68	169.98	4.15	60.42	92.74	80.50	12.24	7.580	
2,600.00	2,597.54	2,587.27	2,586.61	9.06	9.01	169.62	6.93	68.39	115.06	102.37	12.69	9.067	
2,616.45	2,613.78	2,602.75	2,602.01	9.12	9.07	169.56	7.46	69.90	119.19	106.43	12.76	9.338	
2,700.00	2,696.24	2,680.83	2,679.56	9.43	9.35	169.20	10.42	78.41	141.27	128.13	13.13	10.757	
2,800.00	2,794.94	2,773.14	2,771.00	9.81	9.68	168.66	14.60	90.39	169.72	156.15	13.56	12.512	
2,900.00	2,893.64	2,866.56	2,863.24	10.19	10.03	168.07	19.46	104.33	200.04	186.02	14.02	14.271	
3,000.00	2,992.34	2,961.76	2,957.20	10.58	10.38	167.61	24.50	118.75	230.61	216.12	14.50	15.909	
3,100.00	3,091.04	3,056.95	3,051.17	10.97	10.74	167.26	29.53	133.18	261.20	246.22	14.98	17.440	
3,200.00	3,189.74	3,152.15	3,145.13	11.37	11.11	166.98	34.56	147.60	291.79	276.33	15.46	18.874	
3,300.00	3,288.45	3,247.35	3,239.09	11.77	11.48	166.76	39.59	162.03	322.38	306.44	15.94	20.219	
3,400.00	3,387.15	3,342.55	3,333.06	12.17	11.85	166.57	44.62	176.46	352.98	336.55	16.43	21.482	
3,500.00	3,485.85	3,437.75	3,427.02	12.58	12.22	166.41	49.65	190.88	383.58	366.66	16.92	22.671	
3,600.00	3,584.55	3,532.94	3,520.98	12.98	12.60	166.28	54.68	205.31	414.19	396.78	17.41	23.791	
3,700.00	3,683.25	3,628.14	3,614.95	13.39	12.98	166.16	59.71	219.73	444.79	426.89	17.90	24.848	
3,800.00	3,781.95	3,723.34	3,708.91	13.80	13.36	166.06	64.74	234.16	475.40	457.01	18.39	25.847	
3,900.00	3,880.65	3,818.54	3,802.88	14.22	13.75	165.98	69.78	248.58	506.01	487.12	18.89	26.792	
4,000.00	3,979.35	3,913.73	3,896.84	14.63	14.13	165.90	74.81	263.01	536.62	517.24	19.38	27.688	
4,100.00	4,078.05	4,008.93	3,990.80	15.05	14.52	165.83	79.84	277.43	567.23	547.35	19.88	28.538	
4,200.00	4,176.75	4,104.13	4,084.77	15.47	14.91	165.77	84.87	291.86	597.84	577.47	20.37	29.345	
4,300.00	4,275.45	4,199.33	4,178.73	15.89	15.30	165.71	89.90	306.28	628.45	607.58	20.87	30.112	
4,400.00	4,374.15	4,294.52	4,272.69	16.31	15.70	165.66	94.93	320.71	659.07	637.70	21.37	30.842	
4,500.00	4,472.85	4,389.72	4,366.66	16.73	16.09	165.61	99.96	335.14	689.68	667.81	21.87	31.538	
4,600.00	4,571.55	4,484.92	4,460.62	17.15	16.49	165.57	104.99	349.56	720.29	697.92	22.37	32.202	
4,700.00	4,670.25	4,580.12	4,554.59	17.57	16.88	165.53	110.03	363.99	750.90	728.04	22.87	32.836	
4,800.00	4,768.95	4,675.31	4,648.55	18.00	17.28	165.49	115.06	378.41	781.52	758.15	23.37	33.442	
4,900.00	4,867.65	4,770.51	4,742.51	18.42	17.68	165.46	120.09	392.84	812.13	788.26	23.87	34.022	
5,000.00	4,966.35	4,865.71	4,836.48	18.85	18.08	165.43	125.12	407.26	842.75	818.37	24.37	34.577	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - Paul Foster Fed Com 504H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.05	4,960.91	4,930.44	19.28	18.48	165.40	130.15	421.69	873.36	848.48	24.88	35.109	
5,200.00	5,163.76	5,056.11	5,024.40	19.70	18.88	165.37	135.18	436.11	903.98	878.60	25.38	35.619	
5,300.00	5,262.46	5,151.30	5,118.37	20.13	19.28	165.35	140.21	450.54	934.59	908.71	25.88	36.108	
5,400.00	5,361.16	5,246.50	5,212.33	20.56	19.68	165.32	145.24	464.96	965.21	938.82	26.39	36.578	
5,500.00	5,459.86	5,341.70	5,306.30	20.99	20.09	165.30	150.27	479.39	995.82	968.93	26.89	37.030	
5,600.00	5,558.56	5,436.90	5,400.26	21.42	20.49	165.28	155.31	493.82	1,026.44	999.04	27.40	37.465	
5,700.00	5,657.26	5,532.09	5,494.22	21.85	20.90	165.26	160.34	508.24	1,057.05	1,029.15	27.90	37.883	
5,800.00	5,755.96	5,627.29	5,588.19	22.28	21.30	165.24	165.37	522.67	1,087.67	1,059.26	28.41	38.286	
5,900.00	5,854.66	5,722.49	5,682.15	22.71	21.71	165.23	170.40	537.09	1,118.28	1,089.37	28.92	38.674	
6,000.00	5,953.36	5,817.69	5,776.11	23.14	22.11	165.21	175.43	551.52	1,148.90	1,119.47	29.42	39.049	
6,100.00	6,052.06	5,912.88	5,870.08	23.57	22.52	165.19	180.46	565.94	1,179.51	1,149.58	29.93	39.410	
6,200.00	6,150.76	6,008.08	5,964.04	24.01	22.93	165.18	185.49	580.37	1,210.13	1,179.69	30.44	39.759	
6,300.00	6,249.46	6,103.28	6,058.01	24.44	23.33	165.16	190.52	594.79	1,240.74	1,209.80	30.94	40.096	
6,400.00	6,348.16	6,198.48	6,151.97	24.87	23.74	165.15	195.55	609.22	1,271.36	1,239.91	31.45	40.422	
6,500.00	6,446.86	6,293.67	6,245.93	25.30	24.15	165.14	200.59	623.64	1,301.98	1,270.01	31.96	40.737	
6,600.00	6,545.56	6,388.87	6,339.90	25.74	24.56	165.13	205.62	638.07	1,332.59	1,300.12	32.47	41.042	
6,700.00	6,644.26	6,484.07	6,433.86	26.17	24.97	165.11	210.65	652.50	1,363.21	1,330.23	32.98	41.337	
6,804.31	6,747.22	6,583.37	6,531.87	26.62	25.39	165.10	215.90	667.54	1,395.14	1,361.63	33.51	41.634	
6,900.00	6,841.85	6,674.81	6,622.13	27.03	25.79	165.19	220.73	681.40	1,423.33	1,389.34	34.00	41.867	
7,000.00	6,941.09	6,778.14	6,724.12	27.44	26.23	165.25	226.17	697.01	1,450.39	1,415.84	34.55	41.984	
7,100.00	7,040.61	6,932.43	6,876.98	27.83	26.87	165.26	233.06	716.75	1,472.67	1,437.32	35.36	41.651	
7,200.00	7,140.36	7,089.90	7,033.73	28.20	27.48	165.27	237.98	730.87	1,488.62	1,452.49	36.12	41.208	
7,300.00	7,240.26	7,249.52	7,193.11	28.55	28.05	165.29	240.80	738.94	1,498.09	1,461.25	36.84	40.664	
7,400.00	7,340.24	7,396.67	7,340.24	28.88	28.54	165.31	241.47	740.87	1,501.10	1,463.64	37.47	40.065	
7,420.77	7,361.00	7,417.43	7,361.00	28.95	28.60	86.51	241.47	740.87	1,501.16	1,463.59	37.57	39.959	
7,500.00	7,440.24	7,496.67	7,440.24	29.20	28.86	86.51	241.47	740.87	1,501.16	1,463.21	37.95	39.557	
7,600.00	7,540.24	7,596.67	7,540.24	29.52	29.18	86.51	241.47	740.87	1,501.16	1,462.73	38.43	39.060	
7,700.00	7,640.24	7,696.67	7,640.24	29.84	29.50	86.51	241.47	740.87	1,501.16	1,462.24	38.91	38.575	
7,800.00	7,740.24	7,796.67	7,740.24	30.16	29.83	86.51	241.47	740.87	1,501.16	1,461.76	39.40	38.102	
7,900.00	7,840.24	7,896.67	7,840.24	30.48	30.16	86.51	241.47	740.87	1,501.16	1,461.27	39.88	37.639	
7,966.81	7,907.04	7,963.47	7,907.04	30.69	30.37	86.51	241.47	740.87	1,501.16	1,460.95	40.21	37.336	
8,000.00	7,940.22	7,996.65	7,940.22	30.79	30.48	-92.96	241.47	740.87	1,501.21	1,460.84	40.37	37.191	
8,050.00	7,989.94	8,046.38	7,989.94	30.94	30.64	-93.12	241.47	740.87	1,501.48	1,460.88	40.60	36.986	
8,100.00	8,039.04	8,095.47	8,039.04	31.08	30.80	-93.42	241.47	740.87	1,502.02	1,461.20	40.82	36.797	
8,150.00	8,087.13	8,143.56	8,087.13	31.21	30.96	-93.83	241.47	740.87	1,502.92	1,461.88	41.03	36.625	
8,200.00	8,133.85	8,190.28	8,133.85	31.33	31.12	-94.32	241.47	740.87	1,504.27	1,463.03	41.24	36.474	
8,250.00	8,178.84	8,235.28	8,178.84	31.45	31.26	-94.87	241.47	740.87	1,506.21	1,464.77	41.44	36.346	
8,300.00	8,221.77	8,278.20	8,221.77	31.55	31.40	-95.44	241.47	740.87	1,508.90	1,467.27	41.63	36.245	
8,350.00	8,262.30	8,318.73	8,262.30	31.65	31.54	-95.98	241.47	740.87	1,512.49	1,470.68	41.81	36.174	
8,400.00	8,300.13	8,356.56	8,300.13	31.74	31.66	-96.44	241.47	740.87	1,517.15	1,475.17	41.98	36.138	
8,450.00	8,334.96	8,391.40	8,334.96	31.82	31.78	-96.79	241.47	740.87	1,523.06	1,480.92	42.14	36.139	
8,500.00	8,366.54	8,422.97	8,366.54	31.89	31.88	-96.98	241.47	740.87	1,530.37	1,488.07	42.30	36.182	
8,550.00	8,394.62	8,451.05	8,394.62	31.96	31.97	-96.96	241.47	740.87	1,539.21	1,496.77	42.44	36.269	
8,600.00	8,418.99	8,475.42	8,418.99	32.03	32.05	-96.70	241.47	740.87	1,549.68	1,507.11	42.57	36.403	
8,650.00	8,439.47	8,495.90	8,439.47	32.11	32.12	-96.16	241.47	740.87	1,561.84	1,519.15	42.69	36.586	
8,700.00	8,455.89	8,512.32	8,455.89	32.19	32.17	-95.31	241.47	740.87	1,575.73	1,532.93	42.80	36.819	
8,750.00	8,468.13	8,524.57	8,468.13	32.29	32.22	-94.12	241.47	740.87	1,591.32	1,548.42	42.89	37.102	
8,800.00	8,476.11	8,532.54	8,476.11	32.40	32.24	-92.59	241.47	740.87	1,608.53	1,565.56	42.97	37.434	
8,850.00	8,479.75	8,536.18	8,479.75	32.54	32.25	-90.71	241.47	740.87	1,627.26	1,584.23	43.03	37.814	
8,866.81	8,480.00	8,536.43	8,480.00	32.59	32.25	-90.00	241.47	740.87	1,633.87	1,590.82	43.05	37.952	
8,900.00	8,480.00	8,536.43	8,480.00	32.70	32.25	-90.00	241.47	740.87	1,647.35	1,604.26	43.08	38.235	
9,000.00	8,480.00	8,536.43	8,480.00	33.09	32.25	-90.00	241.47	740.87	1,691.24	1,648.04	43.20	39.150	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - Paul Foster Fed Com 504H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,480.00	8,536.43	8,480.00	33.57	32.25	-90.00	241.47	740.87	1,739.78	1,696.45	43.33	40.154	
9,200.00	8,480.00	8,536.43	8,480.00	34.14	32.25	-90.00	241.47	740.87	1,792.59	1,749.13	43.46	41.243	
9,300.00	8,480.00	8,536.43	8,480.00	34.79	32.25	-90.00	241.47	740.87	1,849.31	1,805.70	43.61	42.410	
9,400.00	8,480.00	8,536.43	8,480.00	35.50	32.25	-90.00	241.47	740.87	1,909.58	1,865.83	43.75	43.649	
9,500.00	8,480.00	8,536.43	8,480.00	36.28	32.25	-90.00	241.47	740.87	1,973.08	1,929.19	43.89	44.954	
9,600.00	8,480.00	8,536.43	8,480.00	37.11	32.25	-90.00	241.47	740.87	2,039.51	1,995.47	44.03	46.319	
9,700.00	8,480.00	8,536.43	8,480.00	38.01	32.25	-90.00	241.47	740.87	2,108.59	2,064.42	44.17	47.740	
9,800.00	8,480.00	8,536.43	8,480.00	38.95	32.25	-90.00	241.47	740.87	2,180.06	2,135.76	44.30	49.211	
9,900.00	8,480.00	8,536.43	8,480.00	39.94	32.25	-90.00	241.47	740.87	2,253.71	2,209.29	44.43	50.728	
10,000.00	8,480.00	8,536.43	8,480.00	40.97	32.25	-90.00	241.47	740.87	2,329.33	2,284.78	44.55	52.287	
10,100.00	8,480.00	12,043.13	10,350.00	42.04	46.81	-141.28	-1,641.05	759.72	2,396.87	2,351.09	45.78	52.351	
10,200.00	8,480.00	12,143.13	10,350.00	43.14	47.81	-141.28	-1,741.05	760.72	2,396.87	2,350.00	46.87	51.134	
10,300.00	8,480.00	12,243.13	10,350.00	44.29	48.85	-141.28	-1,841.04	761.72	2,396.88	2,348.88	48.00	49.936	
10,400.00	8,480.00	12,343.13	10,350.00	45.46	49.92	-141.28	-1,941.04	762.72	2,396.89	2,347.73	49.16	48.761	
10,500.00	8,480.00	12,443.13	10,350.00	46.66	51.02	-141.28	-2,041.03	763.72	2,396.89	2,346.55	50.34	47.613	
10,600.00	8,480.00	12,543.13	10,350.00	47.89	52.15	-141.28	-2,141.03	764.73	2,396.90	2,345.34	51.56	46.492	
10,700.00	8,480.00	12,643.13	10,350.00	49.14	53.31	-141.28	-2,241.02	765.73	2,396.90	2,344.11	52.79	45.400	
10,800.00	8,480.00	12,743.13	10,350.00	50.42	54.49	-141.28	-2,341.02	766.73	2,396.91	2,342.85	54.06	44.339	
10,900.00	8,480.00	12,843.13	10,350.00	51.72	55.69	-141.28	-2,441.01	767.73	2,396.91	2,341.57	55.34	43.311	
11,000.00	8,480.00	12,943.13	10,350.00	53.03	56.92	-141.28	-2,541.01	768.73	2,396.92	2,340.27	56.65	42.313	
11,100.00	8,480.00	13,043.13	10,350.00	54.37	58.17	-141.28	-2,641.00	769.73	2,396.92	2,338.95	57.97	41.346	
11,200.00	8,480.00	13,143.13	10,350.00	55.72	59.44	-141.28	-2,741.00	770.73	2,396.93	2,337.62	59.31	40.412	
11,300.00	8,480.00	13,243.13	10,350.00	57.09	60.73	-141.28	-2,840.99	771.73	2,396.93	2,336.26	60.67	39.509	
11,400.00	8,480.00	13,343.13	10,350.00	58.47	62.03	-141.28	-2,940.99	772.74	2,396.94	2,334.90	62.04	38.635	
11,500.00	8,480.00	13,443.13	10,350.00	59.86	63.35	-141.28	-3,040.98	773.74	2,396.94	2,333.51	63.43	37.790	
11,600.00	8,480.00	13,543.13	10,350.00	61.27	64.69	-141.28	-3,140.98	774.74	2,396.95	2,332.12	64.83	36.973	
11,700.00	8,480.00	13,643.13	10,350.00	62.69	66.04	-141.27	-3,240.97	775.74	2,396.95	2,330.71	66.24	36.184	
11,800.00	8,480.00	13,743.13	10,350.00	64.13	67.40	-141.27	-3,340.97	776.74	2,396.96	2,329.29	67.67	35.422	
11,900.00	8,480.00	13,843.13	10,350.00	65.57	68.78	-141.27	-3,440.96	777.74	2,396.96	2,327.86	69.10	34.686	
12,000.00	8,480.00	13,943.13	10,350.00	67.02	70.16	-141.27	-3,540.96	778.74	2,396.97	2,326.42	70.55	33.976	
12,100.00	8,480.00	14,043.13	10,350.00	68.48	71.56	-141.27	-3,640.95	779.74	2,396.97	2,324.97	72.01	33.289	
12,200.00	8,480.00	14,143.13	10,350.00	69.95	72.97	-141.27	-3,740.95	780.75	2,396.98	2,323.51	73.47	32.626	
12,300.00	8,480.00	14,243.13	10,350.00	71.42	74.39	-141.27	-3,840.94	781.75	2,396.98	2,322.05	74.94	31.986	
12,400.00	8,480.00	14,343.13	10,350.00	72.91	75.82	-141.27	-3,940.94	782.75	2,396.99	2,320.57	76.42	31.366	
12,500.00	8,480.00	14,443.13	10,350.00	74.40	77.26	-141.27	-4,040.93	783.75	2,397.00	2,319.09	77.91	30.768	
12,600.00	8,480.00	14,543.13	10,350.00	75.90	78.70	-141.27	-4,140.93	784.75	2,397.00	2,317.60	79.40	30.189	
12,700.00	8,480.00	14,643.13	10,350.00	77.40	80.16	-141.27	-4,240.92	785.75	2,397.01	2,316.10	80.90	29.628	
12,800.00	8,480.00	14,743.13	10,350.00	78.91	81.62	-141.27	-4,340.92	786.75	2,397.01	2,314.60	82.41	29.086	
12,900.00	8,480.00	14,843.13	10,350.00	80.43	83.09	-141.27	-4,440.91	787.75	2,397.02	2,313.09	83.92	28.563	
13,000.00	8,480.00	14,943.13	10,350.00	81.95	84.56	-141.27	-4,540.91	788.76	2,397.02	2,311.58	85.44	28.056	
13,100.00	8,480.00	15,043.13	10,350.00	83.47	86.04	-141.27	-4,640.90	789.76	2,397.03	2,310.07	86.96	27.564	
13,200.00	8,480.00	15,143.13	10,350.00	85.00	87.53	-141.27	-4,740.90	790.76	2,397.03	2,308.54	88.49	27.088	
13,300.00	8,480.00	15,243.13	10,350.00	86.54	89.02	-141.27	-4,840.89	791.76	2,397.04	2,307.01	90.02	26.627	
13,400.00	8,480.00	15,343.13	10,350.00	88.08	90.52	-141.27	-4,940.89	792.76	2,397.04	2,305.49	91.56	26.181	
13,500.00	8,480.00	15,443.13	10,350.00	89.62	92.03	-141.27	-5,040.88	793.76	2,397.05	2,303.95	93.10	25.747	
13,600.00	8,480.00	15,543.13	10,350.00	91.17	93.53	-141.27	-5,140.88	794.76	2,397.05	2,302.41	94.64	25.327	
13,700.00	8,480.00	15,643.13	10,350.00	92.72	95.05	-141.27	-5,240.87	795.77	2,397.06	2,300.87	96.19	24.920	
13,800.00	8,480.00	15,743.13	10,350.00	94.27	96.57	-141.27	-5,340.87	796.77	2,397.06	2,299.32	97.74	24.525	
13,900.00	8,480.00	15,843.13	10,350.00	95.83	98.09	-141.27	-5,440.86	797.77	2,397.07	2,297.77	99.29	24.141	
14,000.00	8,480.00	15,943.13	10,350.00	97.39	99.62	-141.27	-5,540.86	798.77	2,397.07	2,296.22	100.85	23.768	
14,100.00	8,480.00	16,043.13	10,350.00	98.95	101.15	-141.27	-5,640.85	799.77	2,397.08	2,294.67	102.41	23.407	
14,200.00	8,480.00	16,143.13	10,350.00	100.52	102.68	-141.27	-5,740.85	800.77	2,397.08	2,293.11	103.97	23.055	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - Paul Foster Fed Com 504H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	8,480.00	16,243.13	10,350.00	102.09	104.22	-141.27	-5,840.84	801.77	2,397.09	2,291.55	105.54	22.713	
14,400.00	8,480.00	16,343.13	10,350.00	103.66	105.76	-141.27	-5,940.84	802.77	2,397.09	2,289.99	107.10	22.381	
14,500.00	8,480.00	16,443.13	10,350.00	105.23	107.30	-141.27	-6,040.83	803.78	2,397.10	2,288.43	108.67	22.058	
14,600.00	8,480.00	16,543.13	10,350.00	106.81	108.85	-141.27	-6,140.83	804.78	2,397.11	2,286.86	110.25	21.743	
14,700.00	8,480.00	16,643.13	10,350.00	108.39	110.40	-141.27	-6,240.82	805.78	2,397.11	2,285.29	111.82	21.437	
14,800.00	8,480.00	16,743.13	10,350.00	109.97	111.96	-141.27	-6,340.82	806.78	2,397.12	2,283.72	113.39	21.140	
14,900.00	8,480.00	16,843.13	10,350.00	111.55	113.51	-141.27	-6,440.81	807.78	2,397.12	2,282.15	114.97	20.850	
15,000.00	8,480.00	16,943.13	10,350.00	113.13	115.07	-141.27	-6,540.81	808.78	2,397.13	2,280.58	116.55	20.567	
15,100.00	8,480.00	17,043.13	10,350.00	114.72	116.63	-141.27	-6,640.80	809.78	2,397.13	2,279.00	118.13	20.292	
15,200.00	8,480.00	17,143.13	10,350.00	116.31	118.20	-141.27	-6,740.80	810.78	2,397.14	2,277.42	119.71	20.024	
15,300.00	8,480.00	17,243.13	10,350.00	117.90	119.76	-141.27	-6,840.79	811.79	2,397.14	2,275.85	121.30	19.763	
15,400.00	8,480.00	17,343.13	10,350.00	119.49	121.33	-141.27	-6,940.79	812.79	2,397.15	2,274.27	122.88	19.508	
15,500.00	8,480.00	17,443.13	10,350.00	121.08	122.90	-141.27	-7,040.78	813.79	2,397.15	2,272.69	124.47	19.259	
15,600.00	8,480.00	17,543.13	10,350.00	122.68	124.48	-141.27	-7,140.78	814.79	2,397.16	2,271.10	126.05	19.017	
15,700.00	8,480.00	17,643.13	10,350.00	124.27	126.05	-141.27	-7,240.77	815.79	2,397.16	2,269.52	127.64	18.780	
15,800.00	8,480.00	17,743.13	10,350.00	125.87	127.63	-141.27	-7,340.77	816.79	2,397.17	2,267.94	129.23	18.549	
15,900.00	8,480.00	17,843.13	10,350.00	127.47	129.21	-141.27	-7,440.76	817.79	2,397.17	2,266.35	130.82	18.324	
16,000.00	8,480.00	17,943.13	10,350.00	129.07	130.79	-141.27	-7,540.76	818.79	2,397.18	2,264.77	132.41	18.104	
16,100.00	8,480.00	18,043.13	10,350.00	130.67	132.37	-141.27	-7,640.75	819.80	2,397.18	2,263.18	134.00	17.889	
16,200.00	8,480.00	18,143.13	10,350.00	132.27	133.95	-141.27	-7,740.74	820.80	2,397.19	2,261.59	135.60	17.679	
16,300.00	8,480.00	18,243.13	10,350.00	133.88	135.54	-141.27	-7,840.74	821.80	2,397.19	2,260.00	137.19	17.473	
16,400.00	8,480.00	18,343.13	10,350.00	135.48	137.12	-141.27	-7,940.73	822.80	2,397.20	2,258.41	138.79	17.273	
16,500.00	8,480.00	18,443.13	10,350.00	137.09	138.71	-141.27	-8,040.73	823.80	2,397.21	2,256.82	140.38	17.077	
16,600.00	8,480.00	18,543.13	10,350.00	138.70	140.30	-141.27	-8,140.72	824.80	2,397.21	2,255.23	141.98	16.885	
16,700.00	8,480.00	18,643.13	10,350.00	140.30	141.89	-141.27	-8,240.72	825.80	2,397.22	2,253.64	143.57	16.697	
16,800.00	8,480.00	18,743.13	10,350.00	141.91	143.49	-141.27	-8,340.71	826.80	2,397.22	2,252.05	145.17	16.513	
16,900.00	8,480.00	18,843.13	10,350.00	143.52	145.08	-141.27	-8,440.71	827.81	2,397.23	2,250.46	146.77	16.334	
17,000.00	8,480.00	18,943.13	10,350.00	145.13	146.68	-141.27	-8,540.70	828.81	2,397.23	2,248.87	148.36	16.158	
17,100.00	8,480.00	19,043.13	10,350.00	146.75	148.27	-141.27	-8,640.70	829.81	2,397.24	2,247.27	149.96	15.985	
17,200.00	8,480.00	19,143.13	10,350.00	148.36	149.87	-141.27	-8,740.69	830.81	2,397.24	2,245.68	151.56	15.817	
17,300.00	8,480.00	19,243.13	10,350.00	149.97	151.47	-141.27	-8,840.69	831.81	2,397.25	2,244.09	153.16	15.652	
17,400.00	8,480.00	19,343.13	10,350.00	151.59	153.07	-141.27	-8,940.68	832.81	2,397.25	2,242.49	154.76	15.490	
17,500.00	8,480.00	19,443.13	10,350.00	153.20	154.67	-141.27	-9,040.68	833.81	2,397.26	2,240.90	156.36	15.332	
17,600.00	8,480.00	19,543.13	10,350.00	154.82	156.27	-141.27	-9,140.67	834.81	2,397.26	2,239.30	157.96	15.176	
17,700.00	8,480.00	19,643.13	10,350.00	156.44	157.88	-141.27	-9,240.67	835.82	2,397.27	2,237.71	159.56	15.024	
17,800.00	8,480.00	19,743.13	10,350.00	158.05	159.48	-141.27	-9,340.66	836.82	2,397.27	2,236.11	161.16	14.875	
17,900.00	8,480.00	19,843.13	10,350.00	159.67	161.09	-141.27	-9,440.66	837.82	2,397.28	2,234.52	162.76	14.729	
18,000.00	8,480.00	19,943.13	10,350.00	161.29	162.69	-141.27	-9,540.65	838.82	2,397.28	2,232.92	164.36	14.585	
18,100.00	8,480.00	20,043.13	10,350.00	162.91	164.30	-141.26	-9,640.65	839.82	2,397.29	2,231.33	165.96	14.445	
18,200.00	8,480.00	20,143.13	10,350.00	164.53	165.91	-141.26	-9,740.64	840.82	2,397.29	2,229.73	167.56	14.307	
18,300.00	8,480.00	20,243.13	10,350.00	166.15	167.51	-141.26	-9,840.64	841.82	2,397.30	2,228.14	169.16	14.171	
18,400.00	8,480.00	20,343.13	10,350.00	167.77	169.12	-141.26	-9,940.63	842.83	2,397.30	2,226.54	170.77	14.038	
18,500.00	8,480.00	20,443.13	10,350.00	169.40	170.73	-141.26	-10,040.63	843.83	2,397.31	2,224.94	172.37	13.908	
18,505.37	8,480.00	20,448.50	10,350.00	169.48	170.82	-141.26	-10,046.00	843.88	2,397.31	2,224.86	172.45	13.901	
18,600.00	8,480.00	20,529.73	10,350.00	171.02	172.13	-141.26	-10,127.23	844.69	2,397.35	2,223.51	173.84	13.790	
18,700.00	8,480.00	20,529.73	10,350.00	172.64	172.13	-141.26	-10,127.23	844.69	2,400.00	2,225.67	174.34	13.767	
18,800.00	8,480.00	20,529.73	10,350.00	174.26	172.13	-141.26	-10,127.23	844.69	2,406.80	2,232.26	174.54	13.789	
18,900.00	8,480.00	20,529.73	10,350.00	175.89	172.13	-141.26	-10,127.23	844.69	2,417.73	2,243.27	174.46	13.858	
19,000.00	8,480.00	20,529.73	10,350.00	177.51	172.13	-141.26	-10,127.23	844.69	2,432.72	2,258.62	174.10	13.973	
19,100.00	8,480.00	20,529.73	10,350.00	179.14	172.13	-141.26	-10,127.23	844.69	2,451.70	2,278.22	173.48	14.133	
19,200.00	8,480.00	20,529.73	10,350.00	180.76	172.13	-141.26	-10,127.23	844.69	2,474.58	2,301.97	172.61	14.336	
19,300.00	8,480.00	20,529.73	10,350.00	182.39	172.13	-141.26	-10,127.23	844.69	2,501.25	2,329.74	171.51	14.584	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - Paul Foster Fed Com 504H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,400.00	8,480.00	20,529.73	10,350.00	184.02	172.13	-141.26	-10,127.23	844.69	2,531.59	2,361.39	170.19	14.875	
19,500.00	8,480.00	20,529.73	10,350.00	185.64	172.13	-141.26	-10,127.23	844.69	2,565.47	2,396.77	168.71	15.207	
19,600.00	8,480.00	20,529.73	10,350.00	187.27	172.13	-141.26	-10,127.23	844.69	2,602.76	2,435.71	167.05	15.581	
19,700.00	8,480.00	20,529.73	10,350.00	188.90	172.13	-141.26	-10,127.23	844.69	2,643.30	2,478.04	165.26	15.995	
19,800.00	8,480.00	20,529.73	10,350.00	190.53	172.13	-141.26	-10,127.23	844.69	2,686.96	2,523.60	163.36	16.448	
19,899.80	8,480.00	20,529.73	10,350.00	192.15	172.13	-141.26	-10,127.23	844.69	2,733.48	2,572.11	161.37	16.939	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - Paul Foster Fed Com 804H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	8.85	75.06	11.68	75.96				
100.00	100.00	100.00	100.00	0.13	0.13	8.85	75.06	11.68	75.96	75.79	0.18	428.118	
200.00	200.00	200.00	200.00	0.48	0.48	8.85	75.06	11.68	75.96	75.28	0.68	110.994	
300.00	300.00	300.00	300.00	0.84	0.84	8.85	75.06	11.68	75.96	74.77	1.19	63.762	
400.00	400.00	400.00	400.00	1.20	1.20	8.85	75.06	11.68	75.96	74.26	1.70	44.729	
500.00	500.00	500.00	500.00	1.56	1.56	8.85	75.06	11.68	75.96	73.76	2.21	34.446	
600.00	600.00	600.00	600.00	1.92	1.92	8.85	75.06	11.68	75.96	73.25	2.71	28.008	
700.00	700.00	700.00	700.00	2.28	2.28	8.85	75.06	11.68	75.96	72.74	3.22	23.597	
800.00	800.00	800.00	800.00	2.63	2.63	8.85	75.06	11.68	75.96	72.24	3.73	20.387	
900.00	900.00	900.00	900.00	2.99	2.99	8.85	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	8.85	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	8.85	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	8.85	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	8.85	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	8.85	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	8.85	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	8.85	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	8.85	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	8.85	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	8.85	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	8.85	75.06	11.68	75.96	66.15	9.81	7.744	CC
2,100.00	2,099.99	2,099.77	2,099.76	7.29	7.29	87.65	75.41	10.43	76.06	65.75	10.31	7.380	
2,200.00	2,199.91	2,199.55	2,199.46	7.63	7.63	87.67	76.44	6.66	76.34	65.55	10.80	7.071	
2,300.00	2,299.69	2,299.32	2,299.01	7.98	7.98	87.70	78.17	0.38	76.82	65.53	11.29	6.804	ES
2,400.00	2,399.27	2,399.09	2,398.36	8.34	8.34	87.75	80.59	-8.40	77.49	65.70	11.79	6.573	
2,500.00	2,498.57	2,498.95	2,497.56	8.69	8.69	87.96	83.64	-19.49	78.32	66.02	12.29	6.370	
2,600.00	2,597.54	2,598.91	2,596.80	9.06	9.06	89.72	86.82	-31.03	79.15	66.34	12.81	6.179	
2,616.45	2,613.78	2,615.35	2,613.12	9.12	9.12	90.18	87.35	-32.93	79.29	66.40	12.89	6.149	
2,700.00	2,696.24	2,698.83	2,695.99	9.43	9.42	92.67	90.00	-42.57	80.11	66.78	13.33	6.010	
2,800.00	2,794.94	2,798.73	2,795.18	9.81	9.79	95.57	93.18	-54.11	81.29	67.43	13.86	5.866	
2,900.00	2,893.64	2,898.64	2,894.37	10.19	10.16	98.38	96.36	-65.65	82.66	68.27	14.39	5.745	
3,000.00	2,992.34	2,998.55	2,993.56	10.58	10.54	101.09	99.54	-77.19	84.23	69.31	14.92	5.645	
3,100.00	3,091.04	3,098.46	3,092.75	10.97	10.91	103.70	102.72	-88.73	85.98	70.53	15.46	5.562	
3,200.00	3,189.74	3,198.37	3,191.94	11.37	11.29	106.20	105.89	-100.27	87.91	71.91	16.00	5.496	
3,300.00	3,288.45	3,298.28	3,291.13	11.77	11.67	108.58	109.07	-111.81	89.99	73.46	16.53	5.443	
3,400.00	3,387.15	3,398.19	3,390.32	12.17	12.05	110.86	112.25	-123.34	92.22	75.15	17.07	5.402	
3,500.00	3,485.85	3,498.10	3,489.51	12.58	12.44	113.02	115.43	-134.88	94.59	76.98	17.61	5.372	
3,600.00	3,584.55	3,598.01	3,588.70	12.98	12.82	115.08	118.61	-146.42	97.09	78.94	18.15	5.351	
3,700.00	3,683.25	3,697.92	3,687.89	13.39	13.21	117.03	121.79	-157.96	99.71	81.03	18.68	5.337	
3,800.00	3,781.95	3,797.83	3,787.09	13.80	13.60	118.88	124.96	-169.50	102.43	83.22	19.22	5.330	
3,900.00	3,880.65	3,897.74	3,886.28	14.22	13.98	120.63	128.14	-181.04	105.26	85.51	19.75	5.329	
4,000.00	3,979.35	3,997.65	3,985.47	14.63	14.37	122.29	131.32	-192.58	108.18	87.90	20.29	5.333	
4,100.00	4,078.05	4,097.56	4,084.66	15.05	14.76	123.86	134.50	-204.12	111.19	90.37	20.82	5.341	
4,200.00	4,176.75	4,197.47	4,183.85	15.47	15.15	125.35	137.68	-215.66	114.28	92.93	21.35	5.352	
4,300.00	4,275.45	4,297.38	4,283.04	15.89	15.55	126.76	140.86	-227.20	117.44	95.56	21.88	5.367	
4,400.00	4,374.15	4,397.29	4,382.23	16.31	15.94	128.09	144.03	-238.73	120.66	98.25	22.41	5.384	
4,500.00	4,472.85	4,497.20	4,481.42	16.73	16.33	129.35	147.21	-250.27	123.95	101.01	22.94	5.403	
4,600.00	4,571.55	4,597.11	4,580.61	17.15	16.72	130.55	150.39	-261.81	127.30	103.83	23.47	5.423	
4,700.00	4,670.25	4,697.02	4,679.80	17.57	17.12	131.69	153.57	-273.35	130.70	106.70	24.00	5.446	
4,800.00	4,768.95	4,796.93	4,778.99	18.00	17.51	132.77	156.75	-284.89	134.14	109.62	24.53	5.469	
4,900.00	4,867.65	4,896.84	4,878.18	18.42	17.91	133.79	159.93	-296.43	137.64	112.58	25.06	5.493	
5,000.00	4,966.35	4,996.74	4,977.37	18.85	18.30	134.76	163.10	-307.97	141.17	115.59	25.58	5.518	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - Paul Foster Fed Com 804H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.05	5,096.65	5,076.56	19.28	18.70	135.69	166.28	-319.51	144.74	118.63	26.11	5.543	
5,200.00	5,163.76	5,196.56	5,175.75	19.70	19.10	136.57	169.46	-331.05	148.35	121.71	26.64	5.569	
5,300.00	5,262.46	5,296.47	5,274.94	20.13	19.49	137.40	172.64	-342.59	151.99	124.83	27.16	5.596	
5,400.00	5,361.16	5,396.38	5,374.13	20.56	19.89	138.20	175.82	-354.12	155.67	127.98	27.69	5.622	
5,500.00	5,459.86	5,496.29	5,473.32	20.99	20.29	138.96	178.99	-365.66	159.37	131.15	28.21	5.648	
5,600.00	5,558.56	5,596.20	5,572.51	21.42	20.69	139.69	182.17	-377.20	163.10	134.36	28.74	5.675	
5,700.00	5,657.26	5,696.11	5,671.70	21.85	21.08	140.39	185.35	-388.74	166.85	137.58	29.27	5.701	
5,800.00	5,755.96	5,796.02	5,770.89	22.28	21.48	141.05	188.53	-400.28	170.63	140.83	29.79	5.727	
5,900.00	5,854.66	5,895.93	5,870.08	22.71	21.88	141.69	191.71	-411.82	174.42	144.11	30.32	5.754	
6,000.00	5,953.36	5,995.84	5,969.27	23.14	22.28	142.29	194.89	-423.36	178.24	147.40	30.84	5.779	
6,100.00	6,052.06	6,095.75	6,068.46	23.57	22.68	142.88	198.06	-434.90	182.08	150.72	31.37	5.805	
6,200.00	6,150.76	6,195.66	6,167.65	24.01	23.08	143.43	201.24	-446.44	185.94	154.05	31.89	5.830	
6,300.00	6,249.46	6,295.57	6,266.84	24.44	23.48	143.97	204.42	-457.98	189.81	157.40	32.42	5.856	
6,400.00	6,348.16	6,395.48	6,366.03	24.87	23.88	144.48	207.60	-469.51	193.70	160.76	32.94	5.880	
6,500.00	6,446.86	6,495.39	6,465.22	25.30	24.28	144.98	210.78	-481.05	197.61	164.14	33.47	5.905	
6,600.00	6,545.56	6,595.30	6,564.41	25.74	24.68	145.45	213.96	-492.59	201.52	167.53	33.99	5.929	
6,700.00	6,644.26	6,695.21	6,663.60	26.17	25.08	145.91	217.13	-504.13	205.45	170.94	34.52	5.953	
6,804.31	6,747.22	6,799.42	6,767.06	26.62	25.50	146.37	220.45	-516.17	209.57	174.51	35.06	5.977	
6,900.00	6,841.85	6,895.07	6,862.02	27.03	25.88	146.62	223.49	-527.21	212.35	176.78	35.57	5.970	
7,000.00	6,941.09	6,992.50	6,958.80	27.44	26.27	146.56	226.48	-538.05	213.49	177.39	36.10	5.913	
7,100.00	7,040.61	7,088.26	7,054.14	27.83	26.64	146.49	228.82	-546.57	214.27	177.65	36.62	5.852	
7,200.00	7,140.36	7,184.00	7,149.67	28.20	26.99	146.44	230.53	-552.78	214.85	177.75	37.10	5.790	
7,300.00	7,240.26	7,279.74	7,245.32	28.55	27.33	146.41	231.61	-556.69	215.23	177.66	37.57	5.729	
7,400.00	7,340.24	7,375.47	7,341.04	28.88	27.66	146.41	232.05	-558.28	215.41	177.41	38.01	5.668	
7,420.77	7,361.00	7,395.44	7,361.00	28.95	27.73	67.61	232.06	-558.32	215.42	177.33	38.09	5.655	
7,500.00	7,440.24	7,474.67	7,440.24	29.20	27.99	67.61	232.06	-558.32	215.42	176.95	38.47	5.599	
7,600.00	7,540.24	7,574.67	7,540.24	29.52	28.32	67.61	232.06	-558.32	215.42	176.47	38.95	5.531	
7,700.00	7,640.24	7,674.67	7,640.24	29.84	28.66	67.61	232.06	-558.32	215.42	176.00	39.43	5.464	
7,800.00	7,740.24	7,774.67	7,740.24	30.16	28.99	67.61	232.06	-558.32	215.42	175.52	39.91	5.398	
7,900.00	7,840.24	7,874.67	7,840.24	30.48	29.32	67.61	232.06	-558.32	215.42	175.04	40.39	5.334	
7,966.81	7,907.04	7,941.48	7,907.04	30.69	29.55	67.61	232.06	-558.32	215.42	174.72	40.71	5.292	
8,000.00	7,940.22	7,974.65	7,940.22	30.79	29.66	-112.03	232.06	-558.32	215.78	174.91	40.87	5.279	SF
8,050.00	7,989.94	8,024.38	7,989.94	30.94	29.82	-113.08	232.06	-558.32	217.74	176.59	41.15	5.291	
8,100.00	8,039.04	8,073.48	8,039.04	31.08	29.99	-114.92	232.06	-558.32	221.62	180.16	41.46	5.345	
8,150.00	8,087.13	8,121.57	8,087.13	31.21	30.15	-117.38	232.06	-558.32	227.82	186.02	41.80	5.451	
8,200.00	8,133.85	8,168.29	8,133.85	31.33	30.31	-120.23	232.06	-558.32	236.84	194.69	42.15	5.618	
8,250.00	8,178.84	8,213.28	8,178.84	31.45	30.46	-123.20	232.06	-558.32	249.18	206.67	42.52	5.861	
8,300.00	8,221.77	8,256.21	8,221.77	31.55	30.60	-126.06	232.06	-558.32	265.26	222.39	42.87	6.188	
8,350.00	8,262.30	8,296.74	8,262.30	31.65	30.74	-128.60	232.06	-558.32	285.33	242.14	43.19	6.606	
8,400.00	8,300.13	8,334.56	8,300.13	31.74	30.87	-130.67	232.06	-558.32	309.48	266.00	43.49	7.117	
8,450.00	8,334.96	8,369.40	8,334.96	31.82	30.98	-132.13	232.06	-558.32	337.63	293.90	43.74	7.720	
8,500.00	8,366.54	8,400.98	8,366.54	31.89	31.09	-132.87	232.06	-558.32	369.56	325.62	43.95	8.409	
8,550.00	8,394.62	8,429.06	8,394.62	31.96	31.18	-132.76	232.06	-558.32	404.96	360.84	44.12	9.179	
8,600.00	8,418.99	8,453.43	8,418.99	32.03	31.27	-131.62	232.06	-558.32	443.43	399.17	44.26	10.020	
8,650.00	8,439.47	8,473.90	8,439.47	32.11	31.34	-129.19	232.06	-558.32	484.56	440.20	44.36	10.923	
8,700.00	8,455.89	8,490.33	8,455.89	32.19	31.39	-125.04	232.06	-558.32	527.92	483.49	44.44	11.881	
8,750.00	8,468.13	8,502.57	8,468.13	32.29	31.43	-118.53	232.06	-558.32	573.07	528.58	44.49	12.882	
8,800.00	8,476.11	8,510.54	8,476.11	32.40	31.46	-108.83	232.06	-558.32	619.55	575.03	44.52	13.917	
8,850.00	8,479.75	8,514.19	8,479.75	32.54	31.47	-95.33	232.06	-558.32	666.92	622.40	44.53	14.978	
8,866.81	8,480.00	8,514.44	8,480.00	32.59	31.47	-90.00	232.06	-558.32	682.97	638.44	44.53	15.338	
8,900.00	8,480.00	8,514.44	8,480.00	32.70	31.47	-90.00	232.06	-558.32	714.78	670.25	44.52	16.054	
9,000.00	8,480.00	8,514.44	8,480.00	33.09	31.47	-90.00	232.06	-558.32	811.27	766.75	44.52	18.224	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - Paul Foster Fed Com 804H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,480.00	8,514.44	8,480.00	33.57	31.47	-90.00	232.06	-558.32	908.51	864.01	44.51	20.412	
9,200.00	8,480.00	8,514.44	8,480.00	34.14	31.47	-90.00	232.06	-558.32	1,006.30	961.80	44.50	22.613	
9,300.00	8,480.00	8,514.44	8,480.00	34.79	31.47	-90.00	232.06	-558.32	1,104.49	1,059.99	44.50	24.822	
9,400.00	8,480.00	8,514.44	8,480.00	35.50	31.47	-90.00	232.06	-558.32	1,202.97	1,158.48	44.49	27.038	
9,500.00	8,480.00	8,514.44	8,480.00	36.28	31.47	-90.00	232.06	-558.32	1,301.68	1,257.20	44.49	29.258	
9,600.00	8,480.00	8,514.44	8,480.00	37.11	31.47	-90.00	232.06	-558.32	1,400.58	1,356.09	44.49	31.481	
9,700.00	8,480.00	8,514.44	8,480.00	38.01	31.47	-90.00	232.06	-558.32	1,499.63	1,455.14	44.49	33.707	
9,800.00	8,480.00	8,514.44	8,480.00	38.95	31.47	-90.00	232.06	-558.32	1,598.79	1,554.30	44.49	35.934	
9,900.00	8,480.00	8,514.44	8,480.00	39.94	31.47	-90.00	232.06	-558.32	1,698.05	1,653.55	44.50	38.162	
10,000.00	8,480.00	8,514.44	8,480.00	40.97	31.47	-90.00	232.06	-558.32	1,797.39	1,752.89	44.50	40.390	
10,100.00	8,480.00	8,514.44	8,480.00	42.04	31.47	-90.00	232.06	-558.32	1,896.80	1,852.30	44.51	42.619	
10,200.00	8,480.00	8,514.44	8,480.00	43.14	31.47	-90.00	232.06	-558.32	1,996.27	1,951.76	44.51	44.846	
10,300.00	8,480.00	8,514.44	8,480.00	44.29	31.47	-90.00	232.06	-558.32	2,095.79	2,051.27	44.52	47.074	
10,400.00	8,480.00	8,514.44	8,480.00	45.46	31.47	-90.00	232.06	-558.32	2,195.36	2,150.83	44.53	49.300	
10,500.00	8,480.00	8,514.44	8,480.00	46.66	31.47	-90.00	232.06	-558.32	2,294.96	2,250.42	44.54	51.525	
10,600.00	8,480.00	8,514.44	8,480.00	47.89	31.47	-90.00	232.06	-558.32	2,394.60	2,350.04	44.55	53.749	
10,700.00	8,480.00	8,514.44	8,480.00	49.14	31.47	-90.00	232.06	-558.32	2,494.26	2,449.70	44.56	55.971	
10,800.00	8,480.00	8,514.44	8,480.00	50.42	31.47	-90.00	232.06	-558.32	2,593.95	2,549.37	44.58	58.191	
10,900.00	8,480.00	8,514.44	8,480.00	51.72	31.47	-90.00	232.06	-558.32	2,693.66	2,649.07	44.59	60.410	
11,000.00	8,480.00	8,514.44	8,480.00	53.03	31.47	-90.00	232.06	-558.32	2,793.40	2,748.79	44.60	62.626	
11,100.00	8,480.00	8,514.44	8,480.00	54.37	31.47	-90.00	232.06	-558.32	2,893.15	2,848.53	44.62	64.840	
11,200.00	8,480.00	8,514.44	8,480.00	55.72	31.47	-90.00	232.06	-558.32	2,992.92	2,948.28	44.64	67.052	
11,300.00	8,480.00	8,514.44	8,480.00	57.09	31.47	-90.00	232.06	-558.32	3,092.70	3,048.05	44.65	69.262	
11,400.00	8,480.00	8,514.44	8,480.00	58.47	31.47	-90.00	232.06	-558.32	3,192.50	3,147.83	44.67	71.468	
11,500.00	8,480.00	8,514.44	8,480.00	59.86	31.47	-90.00	232.06	-558.32	3,292.31	3,247.62	44.69	73.672	
11,600.00	8,480.00	8,514.44	8,480.00	61.27	31.47	-90.00	232.06	-558.32	3,392.13	3,347.42	44.71	75.874	
11,700.00	8,480.00	8,514.44	8,480.00	62.69	31.47	-90.00	232.06	-558.32	3,491.96	3,447.23	44.73	78.072	
11,800.00	8,480.00	8,514.44	8,480.00	64.13	31.47	-90.00	232.06	-558.32	3,591.80	3,547.05	44.75	80.267	
11,900.00	8,480.00	8,514.44	8,480.00	65.57	31.47	-90.00	232.06	-558.32	3,691.65	3,646.88	44.77	82.459	
12,000.00	8,480.00	8,514.44	8,480.00	67.02	31.47	-90.00	232.06	-558.32	3,791.51	3,746.72	44.79	84.647	
12,100.00	8,480.00	8,514.44	8,480.00	68.48	31.47	-90.00	232.06	-558.32	3,891.37	3,846.56	44.81	86.833	
12,200.00	8,480.00	16,173.75	12,399.00	69.95	77.33	-177.08	-3,753.97	-518.68	3,924.10	3,870.22	53.88	72.826	
12,300.00	8,480.00	16,273.75	12,399.00	71.42	78.68	-177.08	-3,853.97	-517.68	3,924.10	3,869.31	54.80	71.613	
12,400.00	8,480.00	16,373.75	12,399.00	72.91	80.05	-177.08	-3,953.96	-516.69	3,924.10	3,868.39	55.72	70.430	
12,500.00	8,480.00	16,473.75	12,399.00	74.40	81.43	-177.08	-4,053.96	-515.69	3,924.10	3,867.46	56.64	69.277	
12,600.00	8,480.00	16,573.75	12,399.00	75.90	82.82	-177.08	-4,153.95	-514.70	3,924.10	3,866.53	57.58	68.154	
12,700.00	8,480.00	16,673.75	12,399.00	77.40	84.22	-177.08	-4,253.95	-513.70	3,924.10	3,865.59	58.52	67.059	
12,800.00	8,480.00	16,773.75	12,399.00	78.91	85.63	-177.08	-4,353.94	-512.71	3,924.10	3,864.64	59.46	65.992	
12,900.00	8,480.00	16,873.75	12,399.00	80.43	87.05	-177.08	-4,453.94	-511.71	3,924.10	3,863.69	60.42	64.952	
13,000.00	8,480.00	16,973.75	12,399.00	81.95	88.47	-177.08	-4,553.93	-510.72	3,924.10	3,862.73	61.37	63.939	
13,100.00	8,480.00	17,073.75	12,399.00	83.47	89.90	-177.08	-4,653.93	-509.72	3,924.10	3,861.77	62.33	62.952	
13,200.00	8,480.00	17,173.75	12,399.00	85.00	91.35	-177.08	-4,753.92	-508.73	3,924.10	3,860.80	63.30	61.990	
13,300.00	8,480.00	17,273.75	12,399.00	86.54	92.79	-177.08	-4,853.92	-507.74	3,924.10	3,859.83	64.27	61.052	
13,400.00	8,480.00	17,373.75	12,399.00	88.08	94.25	-177.08	-4,953.91	-506.74	3,924.10	3,858.85	65.25	60.138	
13,500.00	8,480.00	17,473.75	12,399.00	89.62	95.71	-177.08	-5,053.91	-505.75	3,924.10	3,857.87	66.23	59.248	
13,600.00	8,480.00	17,573.75	12,399.00	91.17	97.17	-177.08	-5,153.90	-504.75	3,924.10	3,856.89	67.22	58.379	
13,700.00	8,480.00	17,673.75	12,399.00	92.72	98.64	-177.08	-5,253.90	-503.76	3,924.10	3,855.90	68.21	57.533	
13,800.00	8,480.00	17,773.75	12,399.00	94.27	100.12	-177.08	-5,353.89	-502.76	3,924.10	3,854.90	69.20	56.707	
13,900.00	8,480.00	17,873.75	12,399.00	95.83	101.61	-177.08	-5,453.89	-501.77	3,924.10	3,853.91	70.20	55.902	
14,000.00	8,480.00	17,973.75	12,399.00	97.39	103.09	-177.08	-5,553.88	-500.77	3,924.10	3,852.91	71.20	55.117	
14,100.00	8,480.00	18,073.75	12,399.00	98.95	104.59	-177.08	-5,653.88	-499.78	3,924.10	3,851.90	72.20	54.351	
14,200.00	8,480.00	18,173.75	12,399.00	100.52	106.08	-177.08	-5,753.87	-498.79	3,924.10	3,850.90	73.20	53.605	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - Paul Foster Fed Com 804H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	8,480.00	18,273.75	12,399.00	102.09	107.59	-177.08	-5,853.87	-497.79	3,924.10	3,849.89	74.21	52.875	
14,400.00	8,480.00	18,373.75	12,399.00	103.66	109.09	-177.08	-5,953.86	-496.80	3,924.10	3,848.88	75.23	52.163	
14,500.00	8,480.00	18,473.75	12,399.00	105.23	110.60	-177.08	-6,053.86	-495.80	3,924.10	3,847.86	76.24	51.468	
14,600.00	8,480.00	18,573.75	12,399.00	106.81	112.12	-177.08	-6,153.85	-494.81	3,924.10	3,846.84	77.26	50.790	
14,700.00	8,480.00	18,673.75	12,399.00	108.39	113.64	-177.08	-6,253.85	-493.81	3,924.10	3,845.82	78.28	50.128	
14,800.00	8,480.00	18,773.75	12,399.00	109.97	115.16	-177.08	-6,353.84	-492.82	3,924.10	3,844.80	79.31	49.481	
14,900.00	8,480.00	18,873.75	12,399.00	111.55	116.69	-177.08	-6,453.84	-491.82	3,924.10	3,843.77	80.33	48.849	
15,000.00	8,480.00	18,973.75	12,399.00	113.13	118.21	-177.08	-6,553.83	-490.83	3,924.10	3,842.75	81.36	48.232	
15,100.00	8,480.00	19,073.75	12,399.00	114.72	119.75	-177.08	-6,653.83	-489.84	3,924.11	3,841.71	82.39	47.628	
15,200.00	8,480.00	19,173.75	12,399.00	116.31	121.28	-177.08	-6,753.82	-488.84	3,924.11	3,840.68	83.42	47.039	
15,300.00	8,480.00	19,273.75	12,399.00	117.90	122.82	-177.08	-6,853.82	-487.85	3,924.11	3,839.65	84.46	46.463	
15,400.00	8,480.00	19,373.75	12,399.00	119.49	124.36	-177.08	-6,953.81	-486.85	3,924.11	3,838.61	85.49	45.899	
15,500.00	8,480.00	19,473.75	12,399.00	121.08	125.91	-177.08	-7,053.81	-485.86	3,924.11	3,837.57	86.53	45.348	
15,600.00	8,480.00	19,573.75	12,399.00	122.68	127.45	-177.08	-7,153.80	-484.86	3,924.11	3,836.53	87.57	44.810	
15,700.00	8,480.00	19,673.75	12,399.00	124.27	129.00	-177.08	-7,253.80	-483.87	3,924.11	3,835.49	88.62	44.283	
15,800.00	8,480.00	19,773.75	12,399.00	125.87	130.55	-177.08	-7,353.79	-482.87	3,924.11	3,834.45	89.66	43.767	
15,900.00	8,480.00	19,873.75	12,399.00	127.47	132.11	-177.08	-7,453.79	-481.88	3,924.11	3,833.40	90.70	43.262	
16,000.00	8,480.00	19,973.75	12,399.00	129.07	133.67	-177.08	-7,553.78	-480.89	3,924.11	3,832.35	91.75	42.769	
16,100.00	8,480.00	20,073.75	12,399.00	130.67	135.22	-177.08	-7,653.78	-479.89	3,924.11	3,831.31	92.80	42.285	
16,200.00	8,480.00	20,173.75	12,399.00	132.27	136.79	-177.08	-7,753.77	-478.90	3,924.11	3,830.26	93.85	41.812	
16,300.00	8,480.00	20,273.75	12,399.00	133.88	138.35	-177.08	-7,853.77	-477.90	3,924.11	3,829.20	94.90	41.349	
16,400.00	8,480.00	20,373.75	12,399.00	135.48	139.91	-177.08	-7,953.76	-476.91	3,924.11	3,828.15	95.95	40.896	
16,500.00	8,480.00	20,473.75	12,399.00	137.09	141.48	-177.08	-8,053.76	-475.91	3,924.11	3,827.10	97.01	40.451	
16,600.00	8,480.00	20,573.75	12,399.00	138.70	143.05	-177.08	-8,153.75	-474.92	3,924.11	3,826.04	98.06	40.016	
16,700.00	8,480.00	20,673.75	12,399.00	140.30	144.62	-177.08	-8,253.75	-473.92	3,924.11	3,824.99	99.12	39.589	
16,800.00	8,480.00	20,773.75	12,399.00	141.91	146.19	-177.08	-8,353.74	-472.93	3,924.11	3,823.93	100.18	39.171	
16,900.00	8,480.00	20,873.75	12,399.00	143.52	147.77	-177.08	-8,453.74	-471.93	3,924.11	3,822.87	101.24	38.762	
17,000.00	8,480.00	20,973.75	12,399.00	145.13	149.34	-177.08	-8,553.73	-470.94	3,924.11	3,821.81	102.30	38.360	
17,100.00	8,480.00	21,073.75	12,399.00	146.75	150.92	-177.08	-8,653.73	-469.95	3,924.11	3,820.75	103.36	37.966	
17,200.00	8,480.00	21,173.75	12,399.00	148.36	152.50	-177.08	-8,753.72	-468.95	3,924.11	3,819.69	104.42	37.580	
17,300.00	8,480.00	21,273.75	12,399.00	149.97	154.08	-177.08	-8,853.72	-467.96	3,924.11	3,818.62	105.48	37.201	
17,400.00	8,480.00	21,373.75	12,399.00	151.59	155.66	-177.08	-8,953.71	-466.96	3,924.11	3,817.56	106.55	36.829	
17,500.00	8,480.00	21,473.75	12,399.00	153.20	157.25	-177.08	-9,053.71	-465.97	3,924.11	3,816.49	107.61	36.465	
17,600.00	8,480.00	21,573.75	12,399.00	154.82	158.83	-177.08	-9,153.70	-464.97	3,924.11	3,815.43	108.68	36.107	
17,700.00	8,480.00	21,673.75	12,399.00	156.44	160.42	-177.08	-9,253.70	-463.98	3,924.11	3,814.36	109.75	35.756	
17,800.00	8,480.00	21,773.75	12,399.00	158.05	162.01	-177.08	-9,353.69	-462.98	3,924.11	3,813.29	110.82	35.411	
17,900.00	8,480.00	21,873.75	12,399.00	159.67	163.60	-177.08	-9,453.69	-461.99	3,924.11	3,812.22	111.88	35.073	
18,000.00	8,480.00	21,973.75	12,399.00	161.29	165.19	-177.08	-9,553.68	-461.00	3,924.11	3,811.15	112.95	34.741	
18,100.00	8,480.00	22,073.75	12,399.00	162.91	166.78	-177.08	-9,653.68	-460.00	3,924.11	3,810.08	114.03	34.414	
18,200.00	8,480.00	22,173.75	12,399.00	164.53	168.37	-177.08	-9,753.67	-459.01	3,924.11	3,809.01	115.10	34.094	
18,300.00	8,480.00	22,273.75	12,399.00	166.15	169.96	-177.08	-9,853.67	-458.01	3,924.11	3,807.94	116.17	33.779	
18,400.00	8,480.00	22,373.75	12,399.00	167.77	171.56	-177.08	-9,953.66	-457.02	3,924.11	3,806.87	117.24	33.470	
18,500.00	8,480.00	22,473.75	12,399.00	169.40	173.15	-177.08	-10,053.66	-456.02	3,924.11	3,805.79	118.32	33.166	
18,600.00	8,480.00	22,573.75	12,399.00	171.02	174.75	-177.08	-10,153.65	-455.03	3,924.11	3,804.72	119.39	32.868	
18,700.00	8,480.00	22,673.75	12,399.00	172.64	176.35	-177.08	-10,253.65	-454.03	3,924.11	3,803.64	120.47	32.574	
18,800.00	8,480.00	22,773.75	12,399.00	174.26	177.95	-177.08	-10,353.64	-453.04	3,924.11	3,802.57	121.54	32.286	
18,900.00	8,480.00	22,873.75	12,399.00	175.89	179.55	-177.08	-10,453.64	-452.05	3,924.11	3,801.49	122.62	32.002	
19,000.00	8,480.00	22,973.75	12,399.00	177.51	181.15	-177.08	-10,553.63	-451.05	3,924.11	3,800.41	123.70	31.724	
19,100.00	8,480.00	23,073.75	12,399.00	179.14	182.75	-177.08	-10,653.63	-450.06	3,924.11	3,799.33	124.77	31.450	
19,200.00	8,480.00	23,173.75	12,399.00	180.76	184.35	-177.08	-10,753.62	-449.06	3,924.11	3,798.26	125.85	31.180	
19,300.00	8,480.00	23,273.75	12,399.00	182.39	185.95	-177.08	-10,853.62	-448.07	3,924.11	3,797.18	126.93	30.915	
19,400.00	8,480.00	23,373.75	12,399.00	184.02	187.56	-177.08	-10,953.61	-447.07	3,924.11	3,796.10	128.01	30.654	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - Paul Foster Fed Com 804H - OH - Plan #1

Survey Program: 0-OWSG (Rev2) MWD

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,500.00	8,480.00	23,473.75	12,399.00	185.64	189.16	-177.08	-11,053.61	-446.08	3,924.11	3,795.02	129.09	30.398	
19,600.00	8,480.00	23,573.75	12,399.00	187.27	190.77	-177.08	-11,153.60	-445.08	3,924.11	3,793.94	130.17	30.145	
19,700.00	8,480.00	23,673.75	12,399.00	188.90	192.38	-177.08	-11,253.60	-444.09	3,924.11	3,792.85	131.25	29.897	
19,800.00	8,480.00	23,773.75	12,399.00	190.53	193.98	-177.08	-11,353.59	-443.10	3,924.11	3,791.77	132.34	29.652	
19,899.80	8,480.00	23,873.55	12,399.00	192.15	195.59	-177.08	-11,453.39	-442.10	3,924.11	3,790.69	133.42	29.412	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	26.03	75.30	36.77	83.80				
100.00	100.00	100.00	100.00	0.13	0.13	26.03	75.30	36.77	83.80	83.62	0.18	472.260	
200.00	200.00	200.00	200.00	0.48	0.48	26.03	75.30	36.77	83.80	83.11	0.68	122.438	
300.00	300.00	300.00	300.00	0.84	0.84	26.03	75.30	36.77	83.80	82.60	1.19	70.337	
400.00	400.00	400.00	400.00	1.20	1.20	26.03	75.30	36.77	83.80	82.10	1.70	49.341	
500.00	500.00	500.00	500.00	1.56	1.56	26.03	75.30	36.77	83.80	81.59	2.21	37.998	
600.00	600.00	600.00	600.00	1.92	1.92	26.03	75.30	36.77	83.80	81.08	2.71	30.896	
700.00	700.00	700.00	700.00	2.28	2.28	26.03	75.30	36.77	83.80	80.58	3.22	26.030	
800.00	800.00	800.00	800.00	2.63	2.63	26.03	75.30	36.77	83.80	80.07	3.73	22.489	
900.00	900.00	900.00	900.00	2.99	2.99	26.03	75.30	36.77	83.80	79.56	4.23	19.795	
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	26.03	75.30	36.77	83.80	79.06	4.74	17.678	
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	26.03	75.30	36.77	83.80	78.55	5.25	15.970	
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	26.03	75.30	36.77	83.80	78.04	5.75	14.563	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	26.03	75.30	36.77	83.80	77.53	6.26	13.384	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	26.03	75.30	36.77	83.80	77.03	6.77	12.381	
1,500.00	1,500.00	1,500.00	1,500.00	5.14	5.14	26.03	75.30	36.77	83.80	76.52	7.27	11.519	
1,600.00	1,600.00	1,600.00	1,600.00	5.50	5.50	26.03	75.30	36.77	83.80	76.01	7.78	10.768	
1,700.00	1,700.00	1,700.00	1,700.00	5.86	5.86	26.03	75.30	36.77	83.80	75.51	8.29	10.110	
1,800.00	1,800.00	1,800.00	1,800.00	6.22	6.22	26.03	75.30	36.77	83.80	75.00	8.80	9.527	
1,900.00	1,900.00	1,900.00	1,900.00	6.58	6.58	26.03	75.30	36.77	83.80	74.49	9.30	9.008	
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	26.03	75.30	36.77	83.80	73.99	9.81	8.542	CC
2,100.00	2,099.99	2,099.99	2,099.99	7.29	7.29	105.69	75.30	36.77	84.14	73.83	10.31	8.160	ES
2,200.00	2,199.91	2,199.91	2,199.91	7.63	7.65	108.21	75.30	36.77	85.29	74.48	10.81	7.890	
2,300.00	2,299.69	2,297.70	2,297.69	7.98	8.00	112.53	75.88	37.87	88.68	77.38	11.30	7.849	SF
2,400.00	2,399.27	2,394.81	2,394.72	8.34	8.34	118.39	77.64	41.15	96.11	84.34	11.78	8.162	
2,500.00	2,498.57	2,491.43	2,491.15	8.69	8.68	124.80	80.51	46.53	108.31	96.06	12.25	8.841	
2,600.00	2,597.54	2,589.35	2,588.83	9.06	9.03	130.89	83.79	52.66	124.13	111.39	12.74	9.743	
2,616.45	2,613.78	2,605.41	2,604.85	9.12	9.08	131.82	84.32	53.67	127.02	114.20	12.82	9.907	
2,700.00	2,696.24	2,686.93	2,686.16	9.43	9.37	136.17	87.05	58.77	142.30	129.07	13.23	10.756	
2,800.00	2,794.94	2,784.50	2,783.48	9.81	9.72	140.27	90.32	64.88	161.42	147.70	13.72	11.765	
2,900.00	2,893.64	2,882.07	2,880.80	10.19	10.07	143.50	93.58	70.99	181.17	166.96	14.21	12.748	
3,000.00	2,992.34	2,979.64	2,978.12	10.58	10.42	146.09	96.85	77.10	201.38	186.67	14.70	13.695	
3,100.00	3,091.04	3,077.20	3,075.45	10.97	10.77	148.21	100.12	83.22	221.91	206.71	15.20	14.602	
3,200.00	3,189.74	3,174.77	3,172.77	11.37	11.12	149.97	103.38	89.33	242.68	226.99	15.69	15.465	
3,300.00	3,288.45	3,272.34	3,270.09	11.77	11.48	151.46	106.65	95.44	263.63	247.45	16.19	16.286	
3,400.00	3,387.15	3,369.91	3,367.41	12.17	11.83	152.72	109.91	101.55	284.74	268.05	16.68	17.067	
3,500.00	3,485.85	3,467.48	3,464.73	12.58	12.19	153.81	113.18	107.66	305.95	288.77	17.18	17.807	
3,600.00	3,584.55	3,565.05	3,562.06	12.98	12.54	154.76	116.45	113.77	327.26	309.58	17.68	18.511	
3,700.00	3,683.25	3,662.62	3,659.38	13.39	12.90	155.59	119.71	119.88	348.65	330.47	18.18	19.179	
3,800.00	3,781.95	3,760.18	3,756.70	13.80	13.25	156.33	122.98	125.99	370.09	351.41	18.68	19.814	
3,900.00	3,880.65	3,857.75	3,854.02	14.22	13.61	156.99	126.24	132.10	391.59	372.41	19.18	20.418	
4,000.00	3,979.35	3,955.32	3,951.35	14.63	13.97	157.58	129.51	138.21	413.13	393.45	19.68	20.993	
4,100.00	4,078.05	4,052.89	4,048.67	15.05	14.32	158.11	132.77	144.32	434.71	414.53	20.18	21.540	
4,200.00	4,176.75	4,150.46	4,145.99	15.47	14.68	158.59	136.04	150.44	456.33	435.64	20.68	22.062	
4,300.00	4,275.45	4,248.03	4,243.31	15.89	15.04	159.02	139.31	156.55	477.97	456.78	21.19	22.560	
4,400.00	4,374.15	4,345.60	4,340.63	16.31	15.40	159.42	142.57	162.66	499.63	477.94	21.69	23.035	
4,500.00	4,472.85	4,443.16	4,437.96	16.73	15.76	159.79	145.84	168.77	521.32	499.12	22.19	23.489	
4,600.00	4,571.55	4,540.73	4,535.28	17.15	16.12	160.12	149.10	174.88	543.02	520.32	22.70	23.924	
4,700.00	4,670.25	4,638.30	4,632.60	17.57	16.48	160.43	152.37	180.99	564.74	541.54	23.20	24.339	
4,800.00	4,768.95	4,735.87	4,729.92	18.00	16.84	160.72	155.64	187.10	586.48	562.77	23.71	24.738	
4,900.00	4,867.65	4,833.44	4,827.25	18.42	17.20	160.99	158.90	193.21	608.23	584.01	24.21	25.120	
5,000.00	4,966.35	4,931.01	4,924.57	18.85	17.56	161.24	162.17	199.32	629.99	605.27	24.72	25.486	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.05	5,028.58	5,021.89	19.28	17.92	161.47	165.43	205.43	651.76	626.53	25.23	25.838	
5,200.00	5,163.76	5,126.14	5,119.21	19.70	18.28	161.68	168.70	211.55	673.54	647.81	25.73	26.175	
5,300.00	5,262.46	5,223.71	5,216.53	20.13	18.64	161.89	171.96	217.66	695.33	669.09	26.24	26.500	
5,400.00	5,361.16	5,321.28	5,313.86	20.56	19.00	162.08	175.23	223.77	717.12	690.38	26.75	26.813	
5,500.00	5,459.86	5,418.85	5,411.18	20.99	19.36	162.26	178.50	229.88	738.93	711.67	27.25	27.114	
5,600.00	5,558.56	5,516.42	5,508.50	21.42	19.72	162.43	181.76	235.99	760.74	732.98	27.76	27.404	
5,700.00	5,657.26	5,613.99	5,605.82	21.85	20.08	162.59	185.03	242.10	782.55	754.28	28.27	27.683	
5,800.00	5,755.96	5,711.56	5,703.15	22.28	20.45	162.74	188.29	248.21	804.37	775.60	28.78	27.953	
5,900.00	5,854.66	5,809.12	5,800.47	22.71	20.81	162.88	191.56	254.32	826.20	796.92	29.28	28.213	
6,000.00	5,953.36	5,906.69	5,897.79	23.14	21.17	163.02	194.83	260.43	848.03	818.24	29.79	28.464	
6,100.00	6,052.06	6,004.26	5,995.11	23.57	21.53	163.15	198.09	266.54	869.87	839.57	30.30	28.707	
6,200.00	6,150.76	6,101.83	6,092.43	24.01	21.89	163.27	201.36	272.65	891.71	860.90	30.81	28.941	
6,300.00	6,249.46	6,199.40	6,189.76	24.44	22.26	163.39	204.62	278.77	913.55	882.23	31.32	29.168	
6,400.00	6,348.16	6,296.97	6,287.08	24.87	22.62	163.50	207.89	284.88	935.40	903.57	31.83	29.388	
6,500.00	6,446.86	6,394.53	6,384.40	25.30	22.98	163.61	211.15	290.99	957.25	924.91	32.34	29.600	
6,600.00	6,545.56	6,492.10	6,481.72	25.74	23.34	163.71	214.42	297.10	979.10	946.25	32.85	29.806	
6,700.00	6,644.26	6,589.67	6,579.05	26.17	23.71	163.80	217.69	303.21	1,000.96	967.60	33.36	30.006	
6,804.31	6,747.22	6,691.45	6,680.56	26.62	24.08	163.90	221.09	309.58	1,023.76	989.87	33.89	30.208	
6,900.00	6,841.85	6,785.06	6,773.94	27.03	24.43	164.05	224.23	315.45	1,043.55	1,009.17	34.38	30.355	
7,000.00	6,941.09	6,883.37	6,872.00	27.44	24.80	164.16	227.52	321.60	1,061.82	1,026.93	34.89	30.436	
7,100.00	7,040.61	6,982.11	6,970.50	27.83	25.17	164.21	230.82	327.79	1,077.61	1,042.21	35.40	30.445	
7,200.00	7,140.36	7,085.34	7,073.47	28.20	25.55	164.22	234.26	334.23	1,090.88	1,054.96	35.92	30.367	
7,300.00	7,240.26	7,220.48	7,208.43	28.55	26.04	164.20	237.40	340.09	1,099.69	1,063.10	36.59	30.054	
7,400.00	7,340.24	7,352.30	7,340.24	28.88	26.51	164.21	238.30	341.77	1,102.76	1,065.55	37.21	29.639	
7,420.77	7,361.00	7,373.07	7,361.00	28.95	26.58	85.41	238.30	341.77	1,102.81	1,065.51	37.31	29.560	
7,500.00	7,440.24	7,452.30	7,440.24	29.20	26.86	85.41	238.30	341.77	1,102.81	1,065.12	37.69	29.257	
7,600.00	7,540.24	7,552.30	7,540.24	29.52	27.20	85.41	238.30	341.77	1,102.81	1,064.63	38.18	28.883	
7,700.00	7,640.24	7,652.30	7,640.24	29.84	27.55	85.41	238.30	341.77	1,102.81	1,064.14	38.67	28.517	
7,800.00	7,740.24	7,752.30	7,740.24	30.16	27.90	85.41	238.30	341.77	1,102.81	1,063.65	39.16	28.161	
7,900.00	7,840.24	7,852.30	7,840.24	30.48	28.25	85.41	238.30	341.77	1,102.81	1,063.16	39.65	27.813	
7,966.81	7,907.04	7,919.11	7,907.04	30.69	28.48	85.41	238.30	341.77	1,102.81	1,062.83	39.98	27.585	
8,000.00	7,940.22	7,952.28	7,940.22	30.79	28.59	-94.07	238.30	341.77	1,102.88	1,062.74	40.14	27.477	
8,050.00	7,989.94	8,002.01	7,989.94	30.94	28.77	-94.29	238.30	341.77	1,103.25	1,062.88	40.37	27.326	
8,100.00	8,039.04	8,051.11	8,039.04	31.08	28.94	-94.69	238.30	341.77	1,104.00	1,063.40	40.60	27.190	
8,150.00	8,087.13	8,099.20	8,087.13	31.21	29.11	-95.25	238.30	341.77	1,105.23	1,064.40	40.83	27.071	
8,200.00	8,133.85	8,145.92	8,133.85	31.33	29.27	-95.92	238.30	341.77	1,107.08	1,066.04	41.04	26.973	
8,250.00	8,178.84	8,190.91	8,178.84	31.45	29.43	-96.66	238.30	341.77	1,109.73	1,068.48	41.25	26.900	
8,300.00	8,221.77	8,233.84	8,221.77	31.55	29.58	-97.42	238.30	341.77	1,113.39	1,071.94	41.45	26.859	
8,350.00	8,262.30	8,274.37	8,262.30	31.65	29.72	-98.15	238.30	341.77	1,118.27	1,076.63	41.65	26.852	
8,400.00	8,300.13	8,312.19	8,300.13	31.74	29.85	-98.78	238.30	341.77	1,124.60	1,082.77	41.83	26.887	
8,450.00	8,334.96	8,347.03	8,334.96	31.82	29.97	-99.25	238.30	341.77	1,132.58	1,090.59	42.00	26.968	
8,500.00	8,366.54	8,378.61	8,366.54	31.89	30.08	-99.50	238.30	341.77	1,142.42	1,100.26	42.16	27.099	
8,550.00	8,394.62	8,406.69	8,394.62	31.96	30.18	-99.47	238.30	341.77	1,154.26	1,111.95	42.30	27.286	
8,600.00	8,418.99	8,431.06	8,418.99	32.03	30.27	-99.11	238.30	341.77	1,168.21	1,125.77	42.43	27.529	
8,650.00	8,439.47	8,451.53	8,439.47	32.11	30.34	-98.38	238.30	341.77	1,184.33	1,141.78	42.55	27.833	
8,700.00	8,455.89	8,467.95	8,455.89	32.19	30.39	-97.23	238.30	341.77	1,202.62	1,159.96	42.65	28.197	
8,750.00	8,468.13	8,480.20	8,468.13	32.29	30.44	-95.62	238.30	341.77	1,223.00	1,180.27	42.73	28.620	
8,800.00	8,476.11	8,488.17	8,476.11	32.40	30.46	-93.53	238.30	341.77	1,245.35	1,202.55	42.79	29.100	
8,850.00	8,479.75	8,491.82	8,479.75	32.54	30.48	-90.97	238.30	341.77	1,269.48	1,226.64	42.84	29.635	
8,866.81	8,480.00	8,492.06	8,480.00	32.59	30.48	-90.00	238.30	341.77	1,277.95	1,235.10	42.85	29.826	
8,900.00	8,480.00	8,492.06	8,480.00	32.70	30.48	-90.00	238.30	341.77	1,295.15	1,252.29	42.86	30.215	
9,000.00	8,480.00	8,492.06	8,480.00	33.09	30.48	-90.00	238.30	341.77	1,350.60	1,307.68	42.92	31.468	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,480.00	8,492.06	8,480.00	33.57	30.48	-90.00	238.30	341.77	1,410.97	1,367.99	42.98	32.830	
9,200.00	8,480.00	8,492.06	8,480.00	34.14	30.48	-90.00	238.30	341.77	1,475.65	1,432.61	43.04	34.288	
9,300.00	8,480.00	8,492.06	8,480.00	34.79	30.48	-90.00	238.30	341.77	1,544.10	1,501.01	43.09	35.831	
9,400.00	8,480.00	8,492.06	8,480.00	35.50	30.48	-90.00	238.30	341.77	1,615.84	1,572.69	43.15	37.447	
9,500.00	8,480.00	8,492.06	8,480.00	36.28	30.48	-90.00	238.30	341.77	1,690.46	1,647.26	43.20	39.127	
9,600.00	8,480.00	8,492.06	8,480.00	37.11	30.48	-90.00	238.30	341.77	1,767.59	1,724.33	43.26	40.864	
9,700.00	8,480.00	8,492.06	8,480.00	38.01	30.48	-90.00	238.30	341.77	1,846.91	1,803.60	43.30	42.650	
9,800.00	8,480.00	8,492.06	8,480.00	38.95	30.48	-90.00	238.30	341.77	1,928.15	1,884.80	43.35	44.478	
9,900.00	8,480.00	8,492.06	8,480.00	39.94	30.48	-90.00	238.30	341.77	2,011.09	1,967.69	43.39	46.344	
10,000.00	8,480.00	8,492.06	8,480.00	40.97	30.48	-90.00	238.30	341.77	2,095.52	2,052.08	43.44	48.243	
10,100.00	8,480.00	8,492.06	8,480.00	42.04	30.48	-90.00	238.30	341.77	2,181.26	2,137.78	43.48	50.170	
10,200.00	8,480.00	8,492.06	8,480.00	43.14	30.48	-90.00	238.30	341.77	2,268.17	2,224.65	43.52	52.123	
10,300.00	8,480.00	8,492.06	8,480.00	44.29	30.48	-90.00	238.30	341.77	2,356.12	2,312.57	43.55	54.098	
10,400.00	8,480.00	8,492.06	8,480.00	45.46	30.48	-90.00	238.30	341.77	2,445.00	2,401.41	43.59	56.092	
10,500.00	8,480.00	8,492.06	8,480.00	46.66	30.48	-90.00	238.30	341.77	2,534.70	2,491.08	43.62	58.103	
10,600.00	8,480.00	8,492.06	8,480.00	47.89	30.48	-90.00	238.30	341.77	2,625.15	2,581.49	43.66	60.130	
10,700.00	8,480.00	8,492.06	8,480.00	49.14	30.48	-90.00	238.30	341.77	2,716.27	2,672.58	43.69	62.170	
10,800.00	8,480.00	8,492.06	8,480.00	50.42	30.48	-90.00	238.30	341.77	2,807.99	2,764.27	43.72	64.221	
10,900.00	8,480.00	8,492.06	8,480.00	51.72	30.48	-90.00	238.30	341.77	2,900.27	2,856.51	43.76	66.284	
11,000.00	8,480.00	8,492.06	8,480.00	53.03	30.48	-90.00	238.30	341.77	2,993.03	2,949.25	43.79	68.356	
11,100.00	8,480.00	8,492.06	8,480.00	54.37	30.48	-90.00	238.30	341.77	3,086.25	3,042.44	43.82	70.435	
11,200.00	8,480.00	8,492.06	8,480.00	55.72	30.48	-90.00	238.30	341.77	3,179.88	3,136.04	43.85	72.521	
11,300.00	8,480.00	8,492.06	8,480.00	57.09	30.48	-90.00	238.30	341.77	3,273.89	3,230.01	43.88	74.614	
11,400.00	8,480.00	8,492.06	8,480.00	58.47	30.48	-90.00	238.30	341.77	3,368.24	3,324.34	43.91	76.711	
11,500.00	8,480.00	8,492.06	8,480.00	59.86	30.48	-90.00	238.30	341.77	3,462.91	3,418.98	43.94	78.813	
11,600.00	8,480.00	8,492.06	8,480.00	61.27	30.48	-90.00	238.30	341.77	3,557.88	3,513.91	43.97	80.918	
11,700.00	8,480.00	8,492.06	8,480.00	62.69	30.48	-90.00	238.30	341.77	3,653.11	3,609.11	44.00	83.027	
11,800.00	8,480.00	8,492.06	8,480.00	64.13	30.48	-90.00	238.30	341.77	3,748.59	3,704.56	44.03	85.138	
11,900.00	8,480.00	8,492.06	8,480.00	65.57	30.48	-90.00	238.30	341.77	3,844.29	3,800.23	44.06	87.250	
12,000.00	8,480.00	8,492.06	8,480.00	67.02	30.48	-90.00	238.30	341.77	3,940.22	3,896.13	44.09	89.365	
12,100.00	8,480.00	8,492.06	8,480.00	68.48	30.48	-90.00	238.30	341.77	4,036.34	3,992.21	44.12	91.480	
12,200.00	8,480.00	8,492.06	8,480.00	69.95	30.48	-90.00	238.30	341.77	4,132.64	4,088.49	44.15	93.596	
12,300.00	8,480.00	8,492.06	8,480.00	71.42	30.48	-90.00	238.30	341.77	4,229.12	4,184.93	44.19	95.712	
12,400.00	8,480.00	8,492.06	8,480.00	72.91	30.48	-90.00	238.30	341.77	4,325.75	4,281.53	44.22	97.829	
12,500.00	8,480.00	16,789.68	12,740.00	74.40	81.82	-165.52	-4,045.03	384.29	4,399.75	4,338.16	61.59	71.434	
12,600.00	8,480.00	16,889.68	12,740.00	75.90	83.20	-165.52	-4,145.02	385.28	4,399.75	4,337.14	62.61	70.272	
12,700.00	8,480.00	16,989.68	12,740.00	77.40	84.59	-165.52	-4,245.02	386.27	4,399.75	4,336.11	63.63	69.142	
12,800.00	8,480.00	17,089.68	12,740.00	78.91	85.99	-165.52	-4,345.01	387.26	4,399.75	4,335.08	64.66	68.041	
12,900.00	8,480.00	17,189.68	12,740.00	80.43	87.40	-165.52	-4,445.01	388.26	4,399.75	4,334.05	65.70	66.967	
13,000.00	8,480.00	17,289.68	12,740.00	81.95	88.82	-165.52	-4,545.00	389.25	4,399.75	4,333.00	66.74	65.922	
13,100.00	8,480.00	17,389.68	12,740.00	83.47	90.25	-165.52	-4,645.00	390.24	4,399.75	4,331.96	67.79	64.902	
13,200.00	8,480.00	17,489.68	12,740.00	85.00	91.68	-165.52	-4,744.99	391.23	4,399.75	4,330.90	68.85	63.907	
13,300.00	8,480.00	17,589.68	12,740.00	86.54	93.12	-165.52	-4,844.99	392.23	4,399.75	4,329.84	69.91	62.937	
13,400.00	8,480.00	17,689.68	12,740.00	88.08	94.57	-165.52	-4,944.98	393.22	4,399.75	4,328.77	70.97	61.993	
13,500.00	8,480.00	17,789.68	12,740.00	89.62	96.02	-165.52	-5,044.98	394.21	4,399.75	4,327.70	72.04	61.072	
13,600.00	8,480.00	17,889.68	12,740.00	91.17	97.48	-165.52	-5,144.97	395.20	4,399.75	4,326.63	73.12	60.175	
13,700.00	8,480.00	17,989.68	12,740.00	92.72	98.95	-165.52	-5,244.97	396.20	4,399.75	4,325.55	74.19	59.301	
13,800.00	8,480.00	18,089.68	12,740.00	94.27	100.42	-165.52	-5,344.96	397.19	4,399.75	4,324.47	75.27	58.450	
13,900.00	8,480.00	18,189.68	12,740.00	95.83	101.90	-165.52	-5,444.96	398.18	4,399.75	4,323.39	76.36	57.620	
14,000.00	8,480.00	18,289.68	12,740.00	97.39	103.38	-165.52	-5,544.95	399.17	4,399.75	4,322.30	77.45	56.810	
14,100.00	8,480.00	18,389.68	12,740.00	98.95	104.87	-165.52	-5,644.95	400.17	4,399.75	4,321.21	78.54	56.020	
14,200.00	8,480.00	18,489.68	12,740.00	100.52	106.37	-165.52	-5,744.94	401.16	4,399.75	4,320.11	79.64	55.249	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	8,480.00	18,589.68	12,740.00	102.09	107.86	-165.52	-5,844.94	402.15	4,399.75	4,319.01	80.73	54.496	
14,400.00	8,480.00	18,689.68	12,740.00	103.66	109.37	-165.52	-5,944.93	403.14	4,399.75	4,317.91	81.84	53.762	
14,500.00	8,480.00	18,789.68	12,740.00	105.23	110.87	-165.52	-6,044.93	404.14	4,399.75	4,316.80	82.94	53.046	
14,600.00	8,480.00	18,889.68	12,740.00	106.81	112.38	-165.52	-6,144.92	405.13	4,399.74	4,315.69	84.05	52.346	
14,700.00	8,480.00	18,989.68	12,740.00	108.39	113.90	-165.52	-6,244.92	406.12	4,399.74	4,314.58	85.16	51.663	
14,800.00	8,480.00	19,089.68	12,740.00	109.97	115.41	-165.52	-6,344.91	407.11	4,399.74	4,313.47	86.28	50.995	
14,900.00	8,480.00	19,189.68	12,740.00	111.55	116.94	-165.52	-6,444.91	408.11	4,399.74	4,312.35	87.39	50.343	
15,000.00	8,480.00	19,289.68	12,740.00	113.13	118.46	-165.52	-6,544.90	409.10	4,399.74	4,311.23	88.51	49.708	
15,100.00	8,480.00	19,389.68	12,740.00	114.72	119.99	-165.52	-6,644.90	410.09	4,399.74	4,310.11	89.63	49.086	
15,200.00	8,480.00	19,489.68	12,740.00	116.31	121.52	-165.52	-6,744.89	411.08	4,399.74	4,308.99	90.75	48.479	
15,300.00	8,480.00	19,589.68	12,740.00	117.90	123.06	-165.52	-6,844.89	412.08	4,399.74	4,307.86	91.88	47.886	
15,400.00	8,480.00	19,689.68	12,740.00	119.49	124.59	-165.52	-6,944.88	413.07	4,399.74	4,306.74	93.01	47.306	
15,500.00	8,480.00	19,789.68	12,740.00	121.08	126.13	-165.52	-7,044.88	414.06	4,399.74	4,305.61	94.14	46.738	
15,600.00	8,480.00	19,889.68	12,740.00	122.68	127.68	-165.52	-7,144.87	415.05	4,399.74	4,304.48	95.27	46.184	
15,700.00	8,480.00	19,989.68	12,740.00	124.27	129.22	-165.52	-7,244.87	416.05	4,399.74	4,303.34	96.40	45.641	
15,800.00	8,480.00	20,089.68	12,740.00	125.87	130.77	-165.52	-7,344.86	417.04	4,399.74	4,302.21	97.53	45.110	
15,900.00	8,480.00	20,189.68	12,740.00	127.47	132.32	-165.52	-7,444.86	418.03	4,399.74	4,301.07	98.67	44.590	
16,000.00	8,480.00	20,289.68	12,740.00	129.07	133.88	-165.52	-7,544.85	419.02	4,399.74	4,299.93	99.81	44.082	
16,100.00	8,480.00	20,389.68	12,740.00	130.67	135.43	-165.52	-7,644.85	420.02	4,399.74	4,298.79	100.95	43.584	
16,200.00	8,480.00	20,489.68	12,740.00	132.27	136.99	-165.52	-7,744.84	421.01	4,399.74	4,297.65	102.09	43.095	
16,300.00	8,480.00	20,589.68	12,740.00	133.88	138.55	-165.52	-7,844.84	422.00	4,399.74	4,296.51	103.23	42.619	
16,400.00	8,480.00	20,689.68	12,740.00	135.48	140.11	-165.52	-7,944.83	422.99	4,399.74	4,295.37	104.38	42.152	
16,500.00	8,480.00	20,789.68	12,740.00	137.09	141.68	-165.52	-8,044.83	423.99	4,399.74	4,294.22	105.52	41.695	
16,600.00	8,480.00	20,889.68	12,740.00	138.70	143.24	-165.52	-8,144.82	424.98	4,399.74	4,293.07	106.67	41.247	
16,700.00	8,480.00	20,989.68	12,740.00	140.30	144.81	-165.52	-8,244.82	425.97	4,399.74	4,291.93	107.82	40.808	
16,800.00	8,480.00	21,089.68	12,740.00	141.91	146.38	-165.52	-8,344.81	426.96	4,399.74	4,290.78	108.96	40.378	
16,900.00	8,480.00	21,189.68	12,740.00	143.52	147.95	-165.52	-8,444.81	427.96	4,399.74	4,289.63	110.12	39.956	
17,000.00	8,480.00	21,289.68	12,740.00	145.13	149.53	-165.52	-8,544.80	428.95	4,399.74	4,288.48	111.27	39.542	
17,100.00	8,480.00	21,389.68	12,740.00	146.75	151.10	-165.52	-8,644.80	429.94	4,399.74	4,287.32	112.42	39.137	
17,200.00	8,480.00	21,489.68	12,740.00	148.36	152.68	-165.52	-8,744.79	430.93	4,399.74	4,286.17	113.57	38.739	
17,300.00	8,480.00	21,589.68	12,740.00	149.97	154.26	-165.52	-8,844.79	431.93	4,399.74	4,285.01	114.73	38.349	
17,400.00	8,480.00	21,689.68	12,740.00	151.59	155.84	-165.52	-8,944.79	432.92	4,399.74	4,283.86	115.88	37.967	
17,500.00	8,480.00	21,789.68	12,740.00	153.20	157.42	-165.52	-9,044.78	433.91	4,399.74	4,282.70	117.04	37.591	
17,600.00	8,480.00	21,889.68	12,740.00	154.82	159.00	-165.52	-9,144.78	434.90	4,399.74	4,281.54	118.20	37.223	
17,700.00	8,480.00	21,989.68	12,740.00	156.44	160.59	-165.52	-9,244.77	435.90	4,399.74	4,280.38	119.36	36.862	
17,800.00	8,480.00	22,089.68	12,740.00	158.05	162.17	-165.52	-9,344.77	436.89	4,399.74	4,279.23	120.52	36.508	
17,900.00	8,480.00	22,189.68	12,740.00	159.67	163.76	-165.52	-9,444.76	437.88	4,399.74	4,278.07	121.68	36.160	
18,000.00	8,480.00	22,289.68	12,740.00	161.29	165.35	-165.52	-9,544.76	438.87	4,399.74	4,276.91	122.84	35.818	
18,100.00	8,480.00	22,389.68	12,740.00	162.91	166.94	-165.52	-9,644.75	439.87	4,399.74	4,275.74	124.00	35.483	
18,200.00	8,480.00	22,489.68	12,740.00	164.53	168.53	-165.52	-9,744.75	440.86	4,399.74	4,274.58	125.16	35.153	
18,300.00	8,480.00	22,589.68	12,740.00	166.15	170.12	-165.52	-9,844.74	441.85	4,399.74	4,273.42	126.32	34.829	
18,400.00	8,480.00	22,689.68	12,740.00	167.77	171.71	-165.52	-9,944.74	442.84	4,399.74	4,272.25	127.49	34.511	
18,500.00	8,480.00	22,789.68	12,740.00	169.40	173.30	-165.52	-10,044.73	443.84	4,399.74	4,271.09	128.65	34.199	
18,584.05	8,480.00	22,873.73	12,740.00	170.76	174.64	-165.52	-10,128.78	444.67	4,399.74	4,270.11	129.63	33.941	
18,600.00	8,480.00	22,874.14	12,740.00	171.02	174.65	-165.52	-10,129.18	444.68	4,399.77	4,270.07	129.70	33.923	
18,700.00	8,480.00	22,874.14	12,740.00	172.64	174.65	-165.52	-10,129.18	444.68	4,401.26	4,271.17	130.09	33.833	
18,800.00	8,480.00	22,874.14	12,740.00	174.26	174.65	-165.52	-10,129.18	444.68	4,405.02	4,274.60	130.42	33.776	
18,900.00	8,480.00	22,874.14	12,740.00	175.89	174.65	-165.52	-10,129.18	444.68	4,411.04	4,280.34	130.70	33.748	
19,000.00	8,480.00	22,874.14	12,740.00	177.51	174.65	-165.52	-10,129.18	444.68	4,419.32	4,288.38	130.94	33.752	
19,100.00	8,480.00	22,874.14	12,740.00	179.14	174.65	-165.52	-10,129.18	444.68	4,429.84	4,298.72	131.12	33.785	
19,200.00	8,480.00	22,874.14	12,740.00	180.76	174.65	-165.52	-10,129.18	444.68	4,442.59	4,311.34	131.25	33.847	
19,300.00	8,480.00	22,874.14	12,740.00	182.39	174.65	-165.52	-10,129.18	444.68	4,457.55	4,326.22	131.33	33.941	

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 103H
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 103H	**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

Survey Program: 0-OWSG (Rev2) MWD

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,400.00	8,480.00	22,874.14	12,740.00	184.02	174.65	-165.52	-10,129.18	444.68	4,474.69	4,343.32	131.37	34.062	
19,500.00	8,480.00	22,874.14	12,740.00	185.64	174.65	-165.52	-10,129.18	444.68	4,493.99	4,362.63	131.35	34.213	
19,600.00	8,480.00	22,874.14	12,740.00	187.27	174.65	-165.52	-10,129.18	444.68	4,515.42	4,384.13	131.29	34.392	
19,700.00	8,480.00	22,874.14	12,740.00	188.90	174.65	-165.52	-10,129.18	444.68	4,538.96	4,407.78	131.18	34.600	
19,800.00	8,480.00	22,874.14	12,740.00	190.53	174.65	-165.52	-10,129.18	444.68	4,564.57	4,433.54	131.03	34.837	
19,899.80	8,480.00	22,874.14	12,740.00	192.15	174.65	-165.52	-10,129.18	444.68	4,592.15	4,461.31	130.84	35.098	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	39.18	75.53	61.55	97.43				
100.00	100.00	100.00	100.00	0.13	0.13	39.18	75.53	61.55	97.43	97.26	0.18	549.124	
200.00	200.00	200.00	200.00	0.48	0.48	39.18	75.53	61.55	97.43	96.75	0.68	142.366	
300.00	300.00	300.00	300.00	0.84	0.84	39.18	75.53	61.55	97.43	96.24	1.19	81.785	
400.00	400.00	400.00	400.00	1.20	1.20	39.18	75.53	61.55	97.43	95.74	1.70	57.371	
500.00	500.00	500.00	500.00	1.56	1.56	39.18	75.53	61.55	97.43	95.23	2.21	44.182	
600.00	600.00	600.00	600.00	1.92	1.92	39.18	75.53	61.55	97.43	94.72	2.71	35.924	
700.00	700.00	700.00	700.00	2.28	2.28	39.18	75.53	61.55	97.43	94.21	3.22	30.267	
800.00	800.00	800.00	800.00	2.63	2.63	39.18	75.53	61.55	97.43	93.71	3.73	26.149	
900.00	900.00	900.00	900.00	2.99	2.99	39.18	75.53	61.55	97.43	93.20	4.23	23.017	
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	39.18	75.53	61.55	97.43	92.69	4.74	20.555	
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	39.18	75.53	61.55	97.43	92.19	5.25	18.569	
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	39.18	75.53	61.55	97.43	91.68	5.75	16.933	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	39.18	75.53	61.55	97.43	91.17	6.26	15.562	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	39.18	75.53	61.55	97.43	90.67	6.77	14.397	
1,500.00	1,500.00	1,500.00	1,500.00	5.14	5.14	39.18	75.53	61.55	97.43	90.16	7.27	13.393	
1,600.00	1,600.00	1,600.00	1,600.00	5.50	5.50	39.18	75.53	61.55	97.43	89.65	7.78	12.521	
1,700.00	1,700.00	1,700.00	1,700.00	5.86	5.86	39.18	75.53	61.55	97.43	89.14	8.29	11.755	
1,800.00	1,800.00	1,800.00	1,800.00	6.22	6.22	39.18	75.53	61.55	97.43	88.64	8.80	11.077	
1,900.00	1,900.00	1,900.00	1,900.00	6.58	6.58	39.18	75.53	61.55	97.43	88.13	9.30	10.474	
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	39.18	75.53	61.55	97.43	87.62	9.81	9.932	CC, ES
2,100.00	2,099.99	2,099.99	2,099.99	7.29	7.29	118.64	75.53	61.55	98.05	87.74	10.31	9.509	
2,200.00	2,199.91	2,197.73	2,197.72	7.63	7.64	120.92	75.86	62.76	101.07	90.28	10.80	9.361	SF
2,300.00	2,299.69	2,294.93	2,294.84	7.98	7.98	124.80	76.86	66.34	107.94	96.67	11.27	9.575	
2,400.00	2,399.27	2,391.21	2,390.92	8.34	8.31	129.58	78.49	72.25	119.23	107.49	11.74	10.154	
2,500.00	2,498.57	2,486.23	2,485.57	8.69	8.65	134.54	80.73	80.36	135.42	123.22	12.20	11.101	
2,600.00	2,597.54	2,579.66	2,578.40	9.06	8.98	139.16	83.55	90.54	156.79	144.15	12.64	12.401	
2,616.45	2,613.78	2,594.86	2,593.48	9.12	9.04	139.86	84.07	92.40	160.81	148.09	12.72	12.646	
2,700.00	2,696.24	2,674.78	2,672.71	9.43	9.33	143.30	86.85	102.48	182.01	168.90	13.11	13.881	
2,800.00	2,794.94	2,770.75	2,767.85	9.81	9.68	146.51	90.20	114.58	208.03	194.44	13.59	15.306	
2,900.00	2,893.64	2,866.72	2,863.00	10.19	10.03	149.01	93.55	126.69	234.53	220.46	14.07	16.665	
3,000.00	2,992.34	2,962.69	2,958.15	10.58	10.39	151.00	96.90	138.79	261.37	246.81	14.56	17.955	
3,100.00	3,091.04	3,058.67	3,053.30	10.97	10.75	152.62	100.25	150.90	288.44	273.40	15.04	19.176	
3,200.00	3,189.74	3,154.64	3,148.44	11.37	11.11	153.97	103.60	163.01	315.70	300.17	15.53	20.330	
3,300.00	3,288.45	3,250.61	3,243.59	11.77	11.48	155.10	106.95	175.11	343.08	327.07	16.02	21.420	
3,400.00	3,387.15	3,346.58	3,338.74	12.17	11.84	156.06	110.30	187.22	370.58	354.07	16.51	22.451	
3,500.00	3,485.85	3,442.56	3,433.88	12.58	12.21	156.89	113.65	199.32	398.16	381.16	17.00	23.425	
3,600.00	3,584.55	3,538.53	3,529.03	12.98	12.58	157.61	116.99	211.43	425.80	408.31	17.49	24.347	
3,700.00	3,683.25	3,634.50	3,624.18	13.39	12.96	158.25	120.34	223.53	453.50	435.52	17.98	25.220	
3,800.00	3,781.95	3,730.47	3,719.32	13.80	13.33	158.81	123.69	235.64	481.25	462.77	18.48	26.047	
3,900.00	3,880.65	3,826.45	3,814.47	14.22	13.71	159.31	127.04	247.74	509.04	490.06	18.97	26.832	
4,000.00	3,979.35	3,922.42	3,909.62	14.63	14.08	159.76	130.39	259.85	536.85	517.39	19.47	27.578	
4,100.00	4,078.05	4,018.39	4,004.76	15.05	14.46	160.17	133.74	271.95	564.70	544.73	19.96	28.287	
4,200.00	4,176.75	4,114.36	4,099.91	15.47	14.84	160.53	137.09	284.06	592.56	572.10	20.46	28.961	
4,300.00	4,275.45	4,210.33	4,195.06	15.89	15.22	160.87	140.44	296.16	620.45	599.49	20.96	29.604	
4,400.00	4,374.15	4,306.31	4,290.21	16.31	15.60	161.17	143.79	308.27	648.36	626.90	21.46	30.216	
4,500.00	4,472.85	4,402.28	4,385.35	16.73	15.98	161.45	147.14	320.37	676.28	654.33	21.96	30.801	
4,600.00	4,571.55	4,498.25	4,480.50	17.15	16.36	161.71	150.49	332.48	704.22	681.76	22.46	31.359	
4,700.00	4,670.25	4,594.22	4,575.65	17.57	16.74	161.95	153.84	344.59	732.17	709.21	22.96	31.893	
4,800.00	4,768.95	4,690.20	4,670.79	18.00	17.13	162.17	157.18	356.69	760.12	736.67	23.46	32.404	
4,900.00	4,867.65	4,786.17	4,765.94	18.42	17.51	162.37	160.53	368.80	788.09	764.13	23.96	32.893	
5,000.00	4,966.35	4,882.14	4,861.09	18.85	17.89	162.56	163.88	380.90	816.07	791.61	24.46	33.362	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.05	4,978.11	4,956.23	19.28	18.28	162.74	167.23	393.01	844.05	819.09	24.96	33.811	
5,200.00	5,163.76	5,074.09	5,051.38	19.70	18.66	162.91	170.58	405.11	872.05	846.58	25.47	34.243	
5,300.00	5,262.46	5,170.06	5,146.53	20.13	19.05	163.07	173.93	417.22	900.04	874.07	25.97	34.658	
5,400.00	5,361.16	5,266.03	5,241.67	20.56	19.44	163.21	177.28	429.32	928.05	901.58	26.47	35.056	
5,500.00	5,459.86	5,362.00	5,336.82	20.99	19.82	163.35	180.63	441.43	956.06	929.08	26.98	35.439	
5,600.00	5,558.56	5,457.98	5,431.97	21.42	20.21	163.48	183.98	453.53	984.07	956.59	27.48	35.808	
5,700.00	5,657.26	5,553.95	5,527.12	21.85	20.60	163.61	187.33	465.64	1,012.09	984.10	27.99	36.164	
5,800.00	5,755.96	5,649.92	5,622.26	22.28	20.99	163.72	190.68	477.74	1,040.11	1,011.62	28.49	36.507	
5,900.00	5,854.66	5,745.89	5,717.41	22.71	21.38	163.83	194.03	489.85	1,068.14	1,039.14	29.00	36.837	
6,000.00	5,953.36	5,841.86	5,812.56	23.14	21.76	163.94	197.37	501.96	1,096.17	1,066.67	29.50	37.156	
6,100.00	6,052.06	5,937.84	5,907.70	23.57	22.15	164.04	200.72	514.06	1,124.20	1,094.20	30.01	37.464	
6,200.00	6,150.76	6,033.81	6,002.85	24.01	22.54	164.13	204.07	526.17	1,152.24	1,121.73	30.51	37.761	
6,300.00	6,249.46	6,129.78	6,098.00	24.44	22.93	164.22	207.42	538.27	1,180.28	1,149.26	31.02	38.048	
6,400.00	6,348.16	6,225.75	6,193.14	24.87	23.32	164.31	210.77	550.38	1,208.32	1,176.79	31.53	38.326	
6,500.00	6,446.86	6,321.73	6,288.29	25.30	23.71	164.39	214.12	562.48	1,236.36	1,204.33	32.03	38.595	
6,600.00	6,545.56	6,417.70	6,383.44	25.74	24.10	164.47	217.47	574.59	1,264.41	1,231.87	32.54	38.856	
6,700.00	6,644.26	6,513.67	6,478.58	26.17	24.49	164.55	220.82	586.69	1,292.46	1,259.41	33.05	39.108	
6,804.31	6,747.22	6,613.78	6,577.83	26.62	24.90	164.62	224.31	599.32	1,321.72	1,288.14	33.58	39.362	
6,900.00	6,841.85	6,705.94	6,669.20	27.03	25.27	164.78	227.53	610.94	1,347.45	1,313.39	34.06	39.557	
7,000.00	6,941.09	6,802.88	6,765.31	27.44	25.67	164.90	230.91	623.17	1,371.95	1,337.38	34.57	39.685	
7,100.00	7,040.61	6,925.03	6,886.48	27.83	26.16	164.98	235.01	637.98	1,393.60	1,358.39	35.21	39.580	
7,200.00	7,140.36	7,079.11	7,039.89	28.20	26.76	165.04	238.83	651.78	1,409.50	1,373.52	35.97	39.180	
7,300.00	7,240.26	7,235.27	7,195.82	28.55	27.32	165.08	241.01	659.67	1,418.94	1,382.25	36.69	38.673	
7,400.00	7,340.24	7,379.71	7,340.24	28.88	27.81	165.11	241.53	661.55	1,421.95	1,384.63	37.32	38.103	
7,420.77	7,361.00	7,400.47	7,361.00	28.95	27.88	86.31	241.53	661.55	1,422.00	1,384.58	37.42	38.002	
7,500.00	7,440.24	7,479.71	7,440.24	29.20	28.14	86.31	241.53	661.55	1,422.00	1,384.20	37.80	37.616	
7,600.00	7,540.24	7,579.71	7,540.24	29.52	28.47	86.31	241.53	661.55	1,422.00	1,383.71	38.29	37.140	
7,700.00	7,640.24	7,679.71	7,640.24	29.84	28.80	86.31	241.53	661.55	1,422.00	1,383.23	38.77	36.676	
7,800.00	7,740.24	7,779.71	7,740.24	30.16	29.13	86.31	241.53	661.55	1,422.00	1,382.74	39.26	36.222	
7,900.00	7,840.24	7,879.71	7,840.24	30.48	29.47	86.31	241.53	661.55	1,422.00	1,382.26	39.74	35.779	
7,966.81	7,907.04	7,946.51	7,907.04	30.69	29.69	86.31	241.53	661.55	1,422.00	1,381.93	40.07	35.489	
8,000.00	7,940.22	7,979.69	7,940.22	30.79	29.80	-93.15	241.53	661.55	1,422.05	1,381.83	40.23	35.350	
8,050.00	7,989.94	8,029.41	7,989.94	30.94	29.96	-93.33	241.53	661.55	1,422.34	1,381.88	40.46	35.155	
8,100.00	8,039.04	8,078.51	8,039.04	31.08	30.13	-93.64	241.53	661.55	1,422.92	1,382.24	40.69	34.973	
8,150.00	8,087.13	8,126.60	8,087.13	31.21	30.29	-94.07	241.53	661.55	1,423.88	1,382.97	40.91	34.809	
8,200.00	8,133.85	8,173.32	8,133.85	31.33	30.45	-94.59	241.53	661.55	1,425.32	1,384.20	41.12	34.664	
8,250.00	8,178.84	8,218.32	8,178.84	31.45	30.60	-95.17	241.53	661.55	1,427.38	1,386.06	41.32	34.543	
8,300.00	8,221.77	8,261.24	8,221.77	31.55	30.74	-95.77	241.53	661.55	1,430.22	1,388.71	41.52	34.449	
8,350.00	8,262.30	8,301.77	8,262.30	31.65	30.87	-96.33	241.53	661.55	1,434.03	1,392.32	41.70	34.386	
8,400.00	8,300.13	8,339.60	8,300.13	31.74	31.00	-96.82	241.53	661.55	1,438.97	1,397.09	41.88	34.358	
8,450.00	8,334.96	8,374.43	8,334.96	31.82	31.12	-97.19	241.53	661.55	1,445.22	1,403.17	42.05	34.369	
8,500.00	8,366.54	8,406.01	8,366.54	31.89	31.22	-97.39	241.53	661.55	1,452.94	1,410.73	42.21	34.423	
8,550.00	8,394.62	8,434.09	8,394.62	31.96	31.32	-97.37	241.53	661.55	1,462.27	1,419.91	42.36	34.522	
8,600.00	8,418.99	8,458.46	8,418.99	32.03	31.40	-97.09	241.53	661.55	1,473.31	1,430.81	42.49	34.671	
8,650.00	8,439.47	8,478.94	8,439.47	32.11	31.47	-96.51	241.53	661.55	1,486.13	1,443.51	42.62	34.870	
8,700.00	8,455.89	8,495.36	8,455.89	32.19	31.52	-95.61	241.53	661.55	1,500.74	1,458.01	42.73	35.122	
8,750.00	8,468.13	8,507.60	8,468.13	32.29	31.57	-94.36	241.53	661.55	1,517.12	1,474.30	42.83	35.425	
8,800.00	8,476.11	8,515.58	8,476.11	32.40	31.59	-92.74	241.53	661.55	1,535.20	1,492.29	42.91	35.780	
8,850.00	8,479.75	8,519.22	8,479.75	32.54	31.60	-90.75	241.53	661.55	1,554.84	1,511.87	42.97	36.184	
8,866.81	8,480.00	8,519.47	8,480.00	32.59	31.61	-90.00	241.53	661.55	1,561.76	1,518.77	42.99	36.330	
8,900.00	8,480.00	8,519.47	8,480.00	32.70	31.61	-90.00	241.53	661.55	1,575.88	1,532.85	43.02	36.631	
9,000.00	8,480.00	8,519.47	8,480.00	33.09	31.61	-90.00	241.53	661.55	1,621.76	1,578.63	43.13	37.601	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,480.00	8,519.47	8,480.00	33.57	31.61	-90.00	241.53	661.55	1,672.37	1,629.12	43.25	38.667	
9,200.00	8,480.00	8,519.47	8,480.00	34.14	31.61	-90.00	241.53	661.55	1,727.29	1,683.92	43.37	39.823	
9,300.00	8,480.00	8,519.47	8,480.00	34.79	31.61	-90.00	241.53	661.55	1,786.13	1,742.63	43.50	41.059	
9,400.00	8,480.00	8,519.47	8,480.00	35.50	31.61	-90.00	241.53	661.55	1,848.50	1,804.88	43.63	42.370	
9,500.00	8,480.00	8,519.47	8,480.00	36.28	31.61	-90.00	241.53	661.55	1,914.08	1,870.32	43.75	43.749	
9,600.00	8,480.00	8,519.47	8,480.00	37.11	31.61	-90.00	241.53	661.55	1,982.53	1,938.65	43.87	45.189	
9,700.00	8,480.00	8,519.47	8,480.00	38.01	31.61	-90.00	241.53	661.55	2,053.56	2,009.57	43.99	46.684	
9,800.00	8,480.00	8,519.47	8,480.00	38.95	31.61	-90.00	241.53	661.55	2,126.93	2,082.83	44.10	48.229	
9,900.00	8,480.00	8,519.47	8,480.00	39.94	31.61	-90.00	241.53	661.55	2,202.40	2,158.19	44.21	49.820	
10,000.00	8,480.00	8,519.47	8,480.00	40.97	31.61	-90.00	241.53	661.55	2,279.75	2,235.45	44.31	51.452	
10,100.00	8,480.00	8,519.47	8,480.00	42.04	31.61	-90.00	241.53	661.55	2,358.81	2,314.41	44.40	53.121	
10,200.00	8,480.00	8,519.47	8,480.00	43.14	31.61	-90.00	241.53	661.55	2,439.41	2,394.91	44.50	54.823	
10,300.00	8,480.00	8,519.47	8,480.00	44.29	31.61	-90.00	241.53	661.55	2,521.39	2,476.81	44.58	56.557	
10,400.00	8,480.00	8,519.47	8,480.00	45.46	31.61	-90.00	241.53	661.55	2,604.64	2,559.98	44.66	58.317	
10,500.00	8,480.00	8,519.47	8,480.00	46.66	31.61	-90.00	241.53	661.55	2,689.03	2,644.29	44.74	60.103	
10,600.00	8,480.00	8,519.47	8,480.00	47.89	31.61	-90.00	241.53	661.55	2,774.45	2,729.64	44.81	61.910	
10,700.00	8,480.00	8,519.47	8,480.00	49.14	31.61	-90.00	241.53	661.55	2,860.82	2,815.94	44.89	63.736	
10,800.00	8,480.00	8,519.47	8,480.00	50.42	31.61	-90.00	241.53	661.55	2,948.05	2,903.10	44.95	65.581	
10,900.00	8,480.00	8,519.47	8,480.00	51.72	31.61	-90.00	241.53	661.55	3,036.07	2,991.05	45.02	67.442	
11,000.00	8,480.00	8,519.47	8,480.00	53.03	31.61	-90.00	241.53	661.55	3,124.81	3,079.73	45.08	69.317	
11,100.00	8,480.00	8,519.47	8,480.00	54.37	31.61	-90.00	241.53	661.55	3,214.21	3,169.07	45.14	71.205	
11,200.00	8,480.00	8,519.47	8,480.00	55.72	31.61	-90.00	241.53	661.55	3,304.22	3,259.02	45.20	73.106	
11,300.00	8,480.00	8,519.47	8,480.00	57.09	31.61	-90.00	241.53	661.55	3,394.79	3,349.54	45.25	75.017	
11,400.00	8,480.00	8,519.47	8,480.00	58.47	31.61	-90.00	241.53	661.55	3,485.87	3,440.57	45.31	76.937	
11,500.00	8,480.00	8,519.47	8,480.00	59.86	31.61	-90.00	241.53	661.55	3,577.43	3,532.07	45.36	78.866	
11,600.00	8,480.00	8,519.47	8,480.00	61.27	31.61	-90.00	241.53	661.55	3,669.44	3,624.02	45.41	80.803	
11,700.00	8,480.00	8,519.47	8,480.00	62.69	31.61	-90.00	241.53	661.55	3,761.84	3,716.38	45.46	82.747	
11,800.00	8,480.00	8,519.47	8,480.00	64.13	31.61	-90.00	241.53	661.55	3,854.63	3,809.12	45.51	84.697	
11,900.00	8,480.00	8,519.47	8,480.00	65.57	31.61	-90.00	241.53	661.55	3,947.77	3,902.21	45.56	86.652	
12,000.00	8,480.00	8,519.47	8,480.00	67.02	31.61	-90.00	241.53	661.55	4,041.24	3,995.63	45.61	88.611	
12,100.00	8,480.00	8,519.47	8,480.00	68.48	31.61	-90.00	241.53	661.55	4,135.01	4,089.36	45.65	90.575	
12,200.00	8,480.00	16,161.35	12,380.00	69.95	77.62	-158.96	-3,741.14	781.60	4,178.66	4,116.61	62.05	67.346	
12,300.00	8,480.00	16,261.35	12,380.00	71.42	78.97	-158.96	-3,841.13	782.59	4,178.65	4,115.51	63.15	66.170	
12,400.00	8,480.00	16,361.35	12,380.00	72.91	80.34	-158.96	-3,941.13	783.58	4,178.65	4,114.39	64.26	65.027	
12,500.00	8,480.00	16,461.35	12,380.00	74.40	81.72	-158.96	-4,041.12	784.56	4,178.65	4,113.27	65.38	63.914	
12,600.00	8,480.00	16,561.35	12,380.00	75.90	83.11	-158.96	-4,141.12	785.55	4,178.65	4,112.14	66.51	62.831	
12,700.00	8,480.00	16,661.35	12,380.00	77.40	84.50	-158.96	-4,241.11	786.54	4,178.65	4,111.01	67.64	61.777	
12,800.00	8,480.00	16,761.35	12,380.00	78.91	85.91	-158.96	-4,341.11	787.53	4,178.65	4,109.86	68.78	60.753	
12,900.00	8,480.00	16,861.35	12,380.00	80.43	87.32	-158.96	-4,441.10	788.52	4,178.64	4,108.72	69.93	59.756	
13,000.00	8,480.00	16,961.35	12,380.00	81.95	88.74	-158.96	-4,541.10	789.50	4,178.64	4,107.56	71.08	58.787	
13,100.00	8,480.00	17,061.35	12,380.00	83.47	90.17	-158.96	-4,641.09	790.49	4,178.64	4,106.40	72.24	57.847	
13,200.00	8,480.00	17,161.35	12,380.00	85.00	91.61	-158.96	-4,741.09	791.48	4,178.64	4,105.24	73.40	56.931	
13,300.00	8,480.00	17,261.35	12,380.00	86.54	93.06	-158.96	-4,841.08	792.47	4,178.64	4,104.07	74.56	56.041	
13,400.00	8,480.00	17,361.35	12,380.00	88.08	94.51	-158.96	-4,941.08	793.46	4,178.64	4,102.90	75.74	55.174	
13,500.00	8,480.00	17,461.35	12,380.00	89.62	95.97	-158.96	-5,041.07	794.44	4,178.63	4,101.72	76.91	54.330	
13,600.00	8,480.00	17,561.35	12,380.00	91.17	97.43	-158.96	-5,141.07	795.43	4,178.63	4,100.54	78.09	53.508	
13,700.00	8,480.00	17,661.35	12,380.00	92.72	98.90	-158.96	-5,241.06	796.42	4,178.63	4,099.35	79.28	52.708	
13,800.00	8,480.00	17,761.35	12,380.00	94.27	100.38	-158.96	-5,341.06	797.41	4,178.63	4,098.16	80.47	51.929	
13,900.00	8,480.00	17,861.35	12,380.00	95.83	101.86	-158.96	-5,441.05	798.40	4,178.63	4,096.97	81.66	51.170	
14,000.00	8,480.00	17,961.35	12,380.00	97.39	103.34	-158.96	-5,541.05	799.38	4,178.62	4,095.77	82.86	50.431	
14,100.00	8,480.00	18,061.35	12,380.00	98.95	104.83	-158.96	-5,641.04	800.37	4,178.62	4,094.56	84.06	49.711	
14,200.00	8,480.00	18,161.35	12,380.00	100.52	106.33	-158.96	-5,741.04	801.36	4,178.62	4,093.36	85.26	49.009	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	8,480.00	18,261.35	12,380.00	102.09	107.83	-158.96	-5,841.03	802.35	4,178.62	4,092.15	86.47	48.324	
14,400.00	8,480.00	18,361.35	12,380.00	103.66	109.34	-158.96	-5,941.03	803.34	4,178.62	4,090.94	87.68	47.658	
14,500.00	8,480.00	18,461.35	12,380.00	105.23	110.85	-158.96	-6,041.02	804.32	4,178.62	4,089.73	88.89	47.009	
14,600.00	8,480.00	18,561.35	12,380.00	106.81	112.36	-158.96	-6,141.02	805.31	4,178.61	4,088.51	90.10	46.376	
14,700.00	8,480.00	18,661.35	12,380.00	108.39	113.88	-158.96	-6,241.01	806.30	4,178.61	4,087.29	91.32	45.757	
14,800.00	8,480.00	18,761.35	12,380.00	109.97	115.40	-158.96	-6,341.01	807.29	4,178.61	4,086.07	92.54	45.154	
14,900.00	8,480.00	18,861.35	12,380.00	111.55	116.92	-158.96	-6,441.01	808.27	4,178.61	4,084.84	93.77	44.564	
15,000.00	8,480.00	18,961.35	12,380.00	113.13	118.45	-158.96	-6,541.00	809.26	4,178.61	4,083.62	94.99	43.991	
15,100.00	8,480.00	19,061.35	12,380.00	114.72	119.98	-158.96	-6,641.00	810.25	4,178.60	4,082.39	96.21	43.430	
15,200.00	8,480.00	19,161.35	12,380.00	116.31	121.51	-158.96	-6,740.99	811.24	4,178.60	4,081.16	97.44	42.883	
15,300.00	8,480.00	19,261.35	12,380.00	117.90	123.05	-158.96	-6,840.99	812.23	4,178.60	4,079.93	98.67	42.349	
15,400.00	8,480.00	19,361.35	12,380.00	119.49	124.59	-158.96	-6,940.98	813.21	4,178.60	4,078.70	99.90	41.826	
15,500.00	8,480.00	19,461.35	12,380.00	121.08	126.13	-158.96	-7,040.98	814.20	4,178.60	4,077.46	101.14	41.316	
15,600.00	8,480.00	19,561.35	12,380.00	122.68	127.68	-158.96	-7,140.97	815.19	4,178.60	4,076.22	102.37	40.817	
15,700.00	8,480.00	19,661.35	12,380.00	124.27	129.23	-158.96	-7,240.97	816.18	4,178.59	4,074.98	103.61	40.330	
15,800.00	8,480.00	19,761.35	12,380.00	125.87	130.78	-158.96	-7,340.96	817.17	4,178.59	4,073.74	104.85	39.853	
15,900.00	8,480.00	19,861.35	12,380.00	127.47	132.33	-158.96	-7,440.96	818.15	4,178.59	4,072.50	106.09	39.386	
16,000.00	8,480.00	19,961.35	12,380.00	129.07	133.88	-158.96	-7,540.95	819.14	4,178.59	4,071.25	107.34	38.930	
16,100.00	8,480.00	20,061.35	12,380.00	130.67	135.44	-158.96	-7,640.95	820.13	4,178.59	4,070.01	108.58	38.484	
16,200.00	8,480.00	20,161.35	12,380.00	132.27	137.00	-158.96	-7,740.94	821.12	4,178.59	4,068.76	109.83	38.047	
16,300.00	8,480.00	20,261.35	12,380.00	133.88	138.56	-158.96	-7,840.94	822.11	4,178.58	4,067.51	111.07	37.620	
16,400.00	8,480.00	20,361.35	12,380.00	135.48	140.13	-158.96	-7,940.93	823.09	4,178.58	4,066.26	112.32	37.203	
16,500.00	8,480.00	20,461.35	12,380.00	137.09	141.69	-158.96	-8,040.93	824.08	4,178.58	4,065.01	113.57	36.794	
16,600.00	8,480.00	20,561.35	12,380.00	138.70	143.26	-158.96	-8,140.92	825.07	4,178.58	4,063.76	114.82	36.394	
16,700.00	8,480.00	20,661.35	12,380.00	140.30	144.83	-158.96	-8,240.92	826.06	4,178.58	4,062.51	116.07	36.000	
16,800.00	8,480.00	20,761.35	12,380.00	141.91	146.40	-158.96	-8,340.91	827.05	4,178.57	4,061.25	117.32	35.616	
16,900.00	8,480.00	20,861.35	12,380.00	143.52	147.98	-158.96	-8,440.91	828.03	4,178.57	4,060.00	118.58	35.240	
17,000.00	8,480.00	20,961.35	12,380.00	145.13	149.55	-158.96	-8,540.90	829.02	4,178.57	4,058.74	119.83	34.871	
17,100.00	8,480.00	21,061.35	12,380.00	146.75	151.13	-158.96	-8,640.90	830.01	4,178.57	4,057.49	121.08	34.510	
17,200.00	8,480.00	21,161.35	12,380.00	148.36	152.71	-158.96	-8,740.89	831.00	4,178.57	4,056.23	122.34	34.156	
17,300.00	8,480.00	21,261.35	12,380.00	149.97	154.29	-158.96	-8,840.89	831.98	4,178.57	4,054.97	123.59	33.809	
17,400.00	8,480.00	21,361.35	12,380.00	151.59	155.87	-158.96	-8,940.88	832.97	4,178.56	4,053.71	124.85	33.468	
17,500.00	8,480.00	21,461.35	12,380.00	153.20	157.45	-158.96	-9,040.88	833.96	4,178.56	4,052.45	126.11	33.134	
17,600.00	8,480.00	21,561.35	12,380.00	154.82	159.03	-158.96	-9,140.87	834.95	4,178.56	4,051.19	127.37	32.806	
17,700.00	8,480.00	21,661.35	12,380.00	156.44	160.62	-158.96	-9,240.87	835.94	4,178.56	4,049.93	128.63	32.485	
17,800.00	8,480.00	21,761.35	12,380.00	158.05	162.21	-158.96	-9,340.86	836.92	4,178.56	4,048.66	129.89	32.169	
17,900.00	8,480.00	21,861.35	12,380.00	159.67	163.79	-158.96	-9,440.86	837.91	4,178.55	4,047.40	131.16	31.860	
18,000.00	8,480.00	21,961.35	12,380.00	161.29	165.38	-158.96	-9,540.85	838.90	4,178.55	4,046.13	132.42	31.556	
18,100.00	8,480.00	22,061.35	12,380.00	162.91	166.97	-158.96	-9,640.85	839.89	4,178.55	4,044.87	133.68	31.257	
18,200.00	8,480.00	22,161.35	12,380.00	164.53	168.57	-158.96	-9,740.84	840.88	4,178.55	4,043.60	134.94	30.965	
18,300.00	8,480.00	22,261.35	12,380.00	166.15	170.16	-158.96	-9,840.84	841.86	4,178.55	4,042.34	136.21	30.678	
18,400.00	8,480.00	22,361.35	12,380.00	167.77	171.75	-158.96	-9,940.83	842.85	4,178.55	4,041.08	137.47	30.396	
18,500.00	8,480.00	22,461.35	12,380.00	169.40	173.35	-158.96	-10,040.83	843.84	4,178.54	4,039.81	138.74	30.119	
18,586.18	8,480.00	22,547.53	12,380.00	170.79	174.72	-158.96	-10,127.00	844.69	4,178.54	4,038.72	139.83	29.884	
18,600.00	8,480.00	22,548.65	12,380.00	171.02	174.75	-158.96	-10,128.13	844.70	4,178.56	4,038.65	139.91	29.865	
18,700.00	8,480.00	22,548.65	12,380.00	172.64	174.75	-158.96	-10,128.13	844.70	4,180.06	4,039.61	140.45	29.761	
18,800.00	8,480.00	22,548.65	12,380.00	174.26	174.75	-158.96	-10,128.13	844.70	4,183.95	4,043.01	140.94	29.686	
18,900.00	8,480.00	22,548.65	12,380.00	175.89	174.75	-158.96	-10,128.13	844.70	4,190.22	4,048.86	141.36	29.643	
19,000.00	8,480.00	22,548.65	12,380.00	177.51	174.75	-158.96	-10,128.13	844.70	4,198.87	4,057.16	141.71	29.630	
19,100.00	8,480.00	22,548.65	12,380.00	179.14	174.75	-158.96	-10,128.13	844.70	4,209.87	4,067.88	141.99	29.648	
19,200.00	8,480.00	22,548.65	12,380.00	180.76	174.75	-158.96	-10,128.13	844.70	4,223.21	4,080.99	142.22	29.695	
19,300.00	8,480.00	22,548.65	12,380.00	182.39	174.75	-158.96	-10,128.13	844.70	4,238.87	4,096.49	142.38	29.772	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,400.00	8,480.00	22,548.65	12,380.00	184.02	174.75	-158.96	-10,128.13	844.70	4,256.83	4,114.34	142.49	29.875	
19,500.00	8,480.00	22,548.65	12,380.00	185.64	174.75	-158.96	-10,128.13	844.70	4,277.04	4,134.52	142.52	30.009	
19,600.00	8,480.00	22,548.65	12,380.00	187.27	174.75	-158.96	-10,128.13	844.70	4,299.49	4,156.98	142.51	30.170	
19,700.00	8,480.00	22,548.65	12,380.00	188.90	174.75	-158.96	-10,128.13	844.70	4,324.14	4,181.69	142.44	30.357	
19,800.00	8,480.00	22,548.65	12,380.00	190.53	174.75	-158.96	-10,128.13	844.70	4,350.94	4,208.63	142.31	30.574	
19,899.80	8,480.00	22,548.65	12,380.00	192.15	174.75	-158.96	-10,128.13	844.70	4,379.80	4,237.67	142.13	30.815	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	22.00	22.00	0.00	0.03	-97.73	-392.01	-2,886.81	2,913.31				
100.00	100.00	122.00	122.00	0.13	0.20	-97.73	-392.01	-2,886.81	2,913.31	2,913.07	0.24	N/A	
200.00	200.00	222.00	222.00	0.48	0.56	-97.73	-392.01	-2,886.81	2,913.31	2,912.56	0.74	3,924.953	
300.00	300.00	322.00	322.00	0.84	0.92	-97.73	-392.01	-2,886.81	2,913.31	2,912.06	1.25	2,333.714	
400.00	400.00	422.00	422.00	1.20	1.28	-97.73	-392.01	-2,886.81	2,913.31	2,911.55	1.75	1,660.050	
500.00	500.00	522.00	522.00	1.56	1.64	-97.73	-392.01	-2,886.81	2,913.31	2,911.05	2.26	1,288.100	
600.00	600.00	622.00	622.00	1.92	2.00	-97.73	-392.01	-2,886.81	2,913.31	2,910.54	2.77	1,052.291	
700.00	700.00	722.00	722.00	2.28	2.36	-97.73	-392.01	-2,886.81	2,913.31	2,910.03	3.28	889.449	
800.00	800.00	822.00	822.00	2.63	2.71	-97.73	-392.01	-2,886.81	2,913.31	2,909.52	3.78	770.248	
900.00	900.00	922.00	922.00	2.99	3.07	-97.73	-392.01	-2,886.81	2,913.31	2,909.02	4.29	679.218	
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-97.73	-392.01	-2,886.81	2,913.31	2,908.51	4.80	607.430	
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-97.73	-392.01	-2,886.81	2,913.31	2,908.00	5.30	549.365	
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-97.73	-392.01	-2,886.81	2,913.31	2,907.50	5.81	501.432	
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-97.73	-392.01	-2,886.81	2,913.31	2,906.99	6.32	461.192	
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-97.73	-392.01	-2,886.81	2,913.31	2,906.48	6.82	426.930	
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-97.73	-392.01	-2,886.81	2,913.31	2,905.98	7.33	397.407	
1,600.00	1,600.00	1,622.00	1,622.00	5.50	5.58	-97.73	-392.01	-2,886.81	2,913.31	2,905.47	7.84	371.703	
1,700.00	1,700.00	1,722.00	1,722.00	5.86	5.94	-97.73	-392.01	-2,886.81	2,913.31	2,904.96	8.34	349.122	
1,800.00	1,800.00	1,822.00	1,822.00	6.22	6.30	-97.73	-392.01	-2,886.81	2,913.31	2,904.46	8.85	329.127	
1,900.00	1,900.00	1,922.00	1,922.00	6.58	6.66	-97.73	-392.01	-2,886.81	2,913.31	2,903.95	9.36	311.299	
1,907.27	1,907.27	1,929.27	1,929.27	6.60	6.68	-97.73	-392.01	-2,886.81	2,913.31	2,903.91	9.40	310.078	
2,000.00	2,000.00	2,016.09	2,016.09	6.94	6.99	-97.73	-391.98	-2,886.83	2,913.33	2,903.48	9.85	295.764	
2,100.00	2,099.99	2,100.00	2,099.99	7.29	7.29	-18.92	-390.96	-2,887.59	2,912.78	2,902.47	10.31	282.529	
2,200.00	2,199.91	2,162.29	2,162.24	7.63	7.51	-18.91	-389.24	-2,888.86	2,910.63	2,899.92	10.71	271.806	
2,300.00	2,299.69	2,235.33	2,235.18	7.98	7.78	-18.89	-386.19	-2,891.13	2,906.95	2,895.82	11.13	261.068	
2,400.00	2,399.27	2,300.00	2,299.69	8.34	8.01	-18.88	-382.55	-2,893.82	2,901.74	2,890.20	11.54	251.451	
2,500.00	2,498.57	2,381.16	2,380.53	8.69	8.30	-18.85	-376.74	-2,898.13	2,894.95	2,882.96	11.99	241.472	
2,600.00	2,597.54	2,453.92	2,452.85	9.06	8.56	-18.82	-370.37	-2,902.85	2,886.63	2,874.22	12.42	232.475	
2,616.45	2,613.78	2,465.88	2,464.72	9.12	8.60	-18.81	-369.21	-2,903.71	2,885.12	2,872.63	12.49	231.033	
2,700.00	2,696.24	2,541.13	2,539.37	9.43	8.88	-18.72	-361.57	-2,909.37	2,877.51	2,864.62	12.89	223.313	
2,800.00	2,794.94	2,640.54	2,637.98	9.81	9.24	-18.60	-351.42	-2,916.90	2,868.46	2,855.07	13.39	214.229	
2,900.00	2,893.64	2,739.95	2,736.58	10.19	9.61	-18.48	-341.26	-2,924.43	2,859.42	2,845.52	13.90	205.755	
3,000.00	2,992.34	2,839.36	2,835.18	10.58	9.98	-18.36	-331.10	-2,931.95	2,850.39	2,835.98	14.41	197.839	
3,100.00	3,091.04	2,938.77	2,933.79	10.97	10.35	-18.24	-320.94	-2,939.48	2,841.38	2,826.46	14.92	190.432	
3,200.00	3,189.74	3,038.19	3,032.39	11.37	10.73	-18.12	-310.79	-2,947.01	2,832.38	2,816.94	15.44	183.490	
3,300.00	3,288.45	3,137.60	3,131.00	11.77	11.11	-18.00	-300.63	-2,954.54	2,823.39	2,807.44	15.95	176.974	
3,400.00	3,387.15	3,237.01	3,229.60	12.17	11.49	-17.87	-290.47	-2,962.06	2,814.41	2,797.94	16.47	170.849	
3,500.00	3,485.85	3,336.42	3,328.21	12.58	11.87	-17.75	-280.32	-2,969.59	2,805.45	2,788.46	16.99	165.082	
3,600.00	3,584.55	3,435.83	3,426.81	12.98	12.26	-17.62	-270.16	-2,977.12	2,796.50	2,778.99	17.52	159.646	
3,700.00	3,683.25	3,535.24	3,525.42	13.39	12.64	-17.50	-260.00	-2,984.64	2,787.57	2,769.53	18.04	154.514	
3,800.00	3,781.95	3,634.66	3,624.02	13.80	13.03	-17.37	-249.85	-2,992.17	2,778.65	2,760.08	18.57	149.662	
3,900.00	3,880.65	3,734.07	3,722.62	14.22	13.42	-17.24	-239.69	-2,999.70	2,769.74	2,750.64	19.09	145.069	
4,000.00	3,979.35	3,833.48	3,821.23	14.63	13.80	-17.12	-229.53	-3,007.23	2,760.84	2,741.22	19.62	140.717	
4,100.00	4,078.05	3,932.89	3,919.83	15.05	14.19	-16.99	-219.37	-3,014.75	2,751.96	2,731.81	20.15	136.586	
4,200.00	4,176.75	4,032.30	4,018.44	15.47	14.58	-16.86	-209.22	-3,022.28	2,743.09	2,722.42	20.68	132.663	
4,300.00	4,275.45	4,131.71	4,117.04	15.89	14.98	-16.73	-199.06	-3,029.81	2,734.24	2,713.04	21.21	128.931	
4,400.00	4,374.15	4,231.13	4,215.65	16.31	15.37	-16.59	-188.90	-3,037.34	2,725.40	2,703.67	21.74	125.378	
4,500.00	4,472.85	4,330.54	4,314.25	16.73	15.76	-16.46	-178.75	-3,044.86	2,716.58	2,694.31	22.27	121.991	
4,600.00	4,571.55	4,429.95	4,412.86	17.15	16.16	-16.33	-168.59	-3,052.39	2,707.77	2,684.97	22.80	118.760	
4,700.00	4,670.25	4,529.36	4,511.46	17.57	16.55	-16.19	-158.43	-3,059.92	2,698.98	2,675.64	23.33	115.675	
4,800.00	4,768.95	4,628.77	4,610.06	18.00	16.94	-16.06	-148.28	-3,067.45	2,690.20	2,666.33	23.87	112.725	
4,900.00	4,867.65	4,728.18	4,708.67	18.42	17.34	-15.92	-138.12	-3,074.97	2,681.43	2,657.03	24.40	109.904	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,966.35	4,827.60	4,807.27	18.85	17.74	-15.79	-127.96	-3,082.50	2,672.68	2,647.75	24.93	107.202	
5,100.00	5,065.05	4,927.01	4,905.88	19.28	18.13	-15.65	-117.80	-3,090.03	2,663.95	2,638.48	25.46	104.612	
5,200.00	5,163.76	5,026.42	5,004.48	19.70	18.53	-15.51	-107.65	-3,097.56	2,655.23	2,629.23	26.00	102.128	
5,300.00	5,262.46	5,125.83	5,103.09	20.13	18.93	-15.37	-97.49	-3,105.08	2,646.53	2,619.99	26.53	99.744	
5,400.00	5,361.16	5,225.24	5,201.69	20.56	19.32	-15.23	-87.33	-3,112.61	2,637.84	2,610.77	27.07	97.454	
5,500.00	5,459.86	5,324.65	5,300.30	20.99	19.72	-15.09	-77.18	-3,120.14	2,629.17	2,601.56	27.60	95.252	
5,600.00	5,558.56	5,424.07	5,398.90	21.42	20.12	-14.95	-67.02	-3,127.67	2,620.51	2,592.37	28.14	93.134	
5,700.00	5,657.26	5,523.48	5,497.51	21.85	20.52	-14.80	-56.86	-3,135.19	2,611.87	2,583.20	28.67	91.095	
5,800.00	5,755.96	5,622.89	5,596.11	22.28	20.92	-14.66	-46.71	-3,142.72	2,603.25	2,574.04	29.21	89.131	
5,900.00	5,854.66	5,722.30	5,694.71	22.71	21.32	-14.51	-36.55	-3,150.25	2,594.64	2,564.90	29.74	87.238	
6,000.00	5,953.36	5,821.71	5,793.32	23.14	21.72	-14.37	-26.39	-3,157.78	2,586.05	2,555.78	30.28	85.412	
6,100.00	6,052.06	5,921.12	5,891.92	23.57	22.12	-14.22	-16.23	-3,165.30	2,577.48	2,546.67	30.81	83.650	
6,200.00	6,150.76	6,020.54	5,990.53	24.01	22.52	-14.07	-6.08	-3,172.83	2,568.93	2,537.58	31.35	81.948	
6,300.00	6,249.46	6,119.95	6,089.13	24.44	22.92	-13.92	4.08	-3,180.36	2,560.39	2,528.50	31.88	80.305	
6,400.00	6,348.16	6,219.36	6,187.74	24.87	23.32	-13.77	14.24	-3,187.89	2,551.87	2,519.45	32.42	78.715	
6,500.00	6,446.86	6,318.77	6,286.34	25.30	23.72	-13.62	24.39	-3,195.41	2,543.36	2,510.41	32.95	77.178	
6,600.00	6,545.56	6,418.18	6,384.95	25.74	24.12	-13.47	34.55	-3,202.94	2,534.88	2,501.39	33.49	75.691	
6,700.00	6,644.26	6,517.59	6,483.55	26.17	24.52	-13.32	44.71	-3,210.47	2,526.41	2,492.39	34.03	74.251	
6,804.31	6,747.22	6,621.29	6,586.41	26.62	24.94	-13.15	55.30	-3,218.32	2,517.60	2,483.01	34.58	72.797	
6,900.00	6,841.85	6,716.49	6,680.83	27.03	25.32	-12.98	65.03	-3,225.53	2,510.69	2,475.60	35.09	71.540	
7,000.00	6,941.09	6,816.08	6,779.61	27.44	25.72	-12.79	75.20	-3,233.07	2,505.99	2,470.37	35.63	70.342	
7,100.00	7,040.61	6,915.71	6,878.43	27.83	26.13	-12.59	85.38	-3,240.61	2,503.87	2,467.72	36.15	69.256	
7,132.22	7,072.73	6,947.80	6,910.26	27.95	26.26	-12.53	88.66	-3,243.04	2,503.74	2,467.41	36.32	68.930	CC
7,200.00	7,140.36	7,054.39	7,016.15	28.20	26.68	-12.33	98.45	-3,250.30	2,503.83	2,467.06	36.78	68.083	
7,300.00	7,240.26	7,215.83	7,177.07	28.55	27.29	-12.13	108.76	-3,257.94	2,504.09	2,466.66	37.43	66.907	
7,400.00	7,340.24	7,377.71	7,338.82	28.88	27.86	-12.03	113.59	-3,261.52	2,504.45	2,466.41	38.04	65.838	
7,420.77	7,361.00	7,411.34	7,372.46	28.95	27.98	-90.83	113.91	-3,261.75	2,504.54	2,466.37	38.16	65.629	
7,500.00	7,440.24	7,501.12	7,462.24	29.20	28.28	-90.82	113.99	-3,261.81	2,504.57	2,466.01	38.56	64.955	
7,600.00	7,540.24	7,601.12	7,562.24	29.52	28.61	-90.82	113.99	-3,261.81	2,504.57	2,465.53	39.04	64.156	
7,700.00	7,640.24	7,701.12	7,662.24	29.84	28.94	-90.82	113.99	-3,261.81	2,504.57	2,465.05	39.52	63.375	
7,800.00	7,740.24	7,801.12	7,762.24	30.16	29.28	-90.82	113.99	-3,261.81	2,504.57	2,464.57	40.00	62.613	
7,900.00	7,840.24	7,901.12	7,862.24	30.48	29.61	-90.82	113.99	-3,261.81	2,504.57	2,464.09	40.48	61.867	
7,966.81	7,907.04	7,967.93	7,929.04	30.69	29.84	-90.82	113.99	-3,261.81	2,504.57	2,463.77	40.81	61.378	
8,000.00	7,940.22	8,001.10	7,962.22	30.79	29.95	89.77	113.99	-3,261.81	2,504.57	2,463.60	40.96	61.143	
8,050.00	7,989.94	8,050.64	8,011.75	30.94	30.11	89.88	113.65	-3,261.81	2,504.55	2,463.37	41.19	60.811	
8,096.59	8,035.72	8,096.69	8,057.65	31.07	30.24	89.99	110.22	-3,261.78	2,504.55	2,463.17	41.37	60.536	
8,100.00	8,039.04	8,100.07	8,061.02	31.08	30.25	90.00	109.82	-3,261.77	2,504.55	2,463.16	41.39	60.516	
8,150.00	8,087.13	8,149.99	8,110.25	31.21	30.37	90.13	101.66	-3,261.69	2,504.55	2,462.98	41.57	60.246	
8,200.00	8,133.85	8,200.40	8,159.05	31.33	30.48	90.26	89.11	-3,261.57	2,504.57	2,462.83	41.74	60.002	
8,250.00	8,178.84	8,251.31	8,207.03	31.45	30.58	90.38	72.13	-3,261.40	2,504.61	2,462.71	41.90	59.779	
8,300.00	8,221.77	8,302.75	8,253.78	31.55	30.66	90.50	50.72	-3,261.19	2,504.65	2,462.61	42.04	59.577	
8,350.00	8,262.30	8,354.69	8,298.85	31.65	30.72	90.62	24.92	-3,260.94	2,504.71	2,462.53	42.17	59.390	
8,400.00	8,300.13	8,407.16	8,341.81	31.74	30.77	90.74	-5.16	-3,260.64	2,504.77	2,462.47	42.30	59.216	
8,450.00	8,334.96	8,460.13	8,382.21	31.82	30.80	90.85	-39.38	-3,260.31	2,504.84	2,462.42	42.42	59.049	
8,500.00	8,366.54	8,513.60	8,419.61	31.89	30.82	90.95	-77.56	-3,259.93	2,504.92	2,462.38	42.54	58.884	
8,550.00	8,394.62	8,567.54	8,453.57	31.96	30.83	91.05	-119.45	-3,259.52	2,505.00	2,462.33	42.66	58.717	
8,600.00	8,418.99	8,621.93	8,483.68	32.03	30.83	91.14	-164.72	-3,259.08	2,505.07	2,462.28	42.79	58.544	
8,650.00	8,439.47	8,676.74	8,509.53	32.11	30.82	91.22	-213.02	-3,258.60	2,505.15	2,462.23	42.92	58.362	
8,700.00	8,455.89	8,731.92	8,530.78	32.19	30.81	91.29	-263.92	-3,258.10	2,505.22	2,462.15	43.07	58.166	
8,750.00	8,468.13	8,787.43	8,547.12	32.29	30.79	91.35	-316.95	-3,257.58	2,505.29	2,462.06	43.23	57.955	
8,800.00	8,476.11	8,843.22	8,558.30	32.40	30.79	91.39	-371.58	-3,257.04	2,505.34	2,461.94	43.40	57.728	
8,850.00	8,479.75	8,899.23	8,564.12	32.54	30.80	91.43	-427.26	-3,256.50	2,505.39	2,461.80	43.58	57.486	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,866.81	8,480.00	8,918.10	8,564.85	32.59	30.81	91.44	-446.11	-3,256.31	2,505.40	2,461.75	43.65	57.401	
8,900.00	8,480.00	8,952.70	8,565.00	32.70	30.85	91.44	-480.71	-3,255.97	2,505.40	2,461.62	43.78	57.223	
9,000.00	8,480.00	9,052.70	8,565.00	33.09	31.09	91.44	-580.71	-3,254.99	2,505.42	2,461.15	44.27	56.594	
9,100.00	8,480.00	9,152.70	8,565.00	33.57	31.44	91.44	-680.70	-3,254.01	2,505.43	2,460.56	44.87	55.839	
9,200.00	8,480.00	9,252.70	8,565.00	34.14	31.87	91.44	-780.70	-3,253.03	2,505.44	2,459.86	45.58	54.970	
9,300.00	8,480.00	9,352.70	8,565.00	34.79	32.37	91.44	-880.69	-3,252.05	2,505.45	2,459.05	46.39	54.003	
9,400.00	8,480.00	9,452.70	8,565.00	35.50	32.94	91.44	-980.69	-3,251.06	2,505.46	2,458.15	47.31	52.956	
9,500.00	8,480.00	9,552.70	8,565.00	36.28	33.58	91.44	-1,080.68	-3,250.08	2,505.47	2,457.15	48.33	51.846	
9,600.00	8,480.00	9,652.70	8,565.00	37.11	34.29	91.44	-1,180.68	-3,249.10	2,505.48	2,456.05	49.43	50.689	
9,700.00	8,480.00	9,752.70	8,565.00	38.01	35.06	91.44	-1,280.67	-3,248.12	2,505.49	2,454.88	50.62	49.500	
9,800.00	8,480.00	9,852.70	8,565.00	38.95	35.88	91.44	-1,380.67	-3,247.14	2,505.50	2,453.62	51.88	48.295	
9,900.00	8,480.00	9,952.70	8,565.00	39.94	36.76	91.44	-1,480.67	-3,246.16	2,505.52	2,452.30	53.22	47.082	
10,000.00	8,480.00	10,052.70	8,565.00	40.97	37.69	91.44	-1,580.66	-3,245.17	2,505.53	2,450.91	54.62	45.873	
10,100.00	8,480.00	10,152.70	8,565.00	42.04	38.67	91.44	-1,680.66	-3,244.19	2,505.54	2,449.45	56.09	44.674	
10,200.00	8,480.00	10,252.70	8,565.00	43.14	39.69	91.44	-1,780.65	-3,243.21	2,505.55	2,447.94	57.61	43.493	
10,300.00	8,480.00	10,352.70	8,565.00	44.29	40.75	91.44	-1,880.65	-3,242.23	2,505.56	2,446.38	59.18	42.335	
10,400.00	8,480.00	10,452.70	8,565.00	45.46	41.85	91.44	-1,980.64	-3,241.25	2,505.57	2,444.76	60.81	41.204	
10,500.00	8,480.00	10,552.70	8,565.00	46.66	42.99	91.44	-2,080.64	-3,240.26	2,505.58	2,443.10	62.48	40.103	
10,600.00	8,480.00	10,652.70	8,565.00	47.89	44.15	91.44	-2,180.63	-3,239.28	2,505.59	2,441.40	64.19	39.034	
10,700.00	8,480.00	10,752.70	8,565.00	49.14	45.35	91.44	-2,280.63	-3,238.30	2,505.60	2,439.66	65.94	37.998	
10,800.00	8,480.00	10,852.70	8,565.00	50.42	46.57	91.44	-2,380.62	-3,237.32	2,505.62	2,437.89	67.73	36.997	
10,900.00	8,480.00	10,952.70	8,565.00	51.72	47.82	91.44	-2,480.62	-3,236.34	2,505.63	2,436.08	69.54	36.030	
11,000.00	8,480.00	11,052.70	8,565.00	53.03	49.10	91.44	-2,580.61	-3,235.36	2,505.64	2,434.25	71.39	35.098	
11,100.00	8,480.00	11,152.70	8,565.00	54.37	50.39	91.44	-2,680.61	-3,234.37	2,505.65	2,432.38	73.27	34.199	
11,200.00	8,480.00	11,252.70	8,565.00	55.72	51.71	91.44	-2,780.60	-3,233.39	2,505.66	2,430.49	75.17	33.334	
11,300.00	8,480.00	11,352.70	8,565.00	57.09	53.04	91.44	-2,880.60	-3,232.41	2,505.67	2,428.58	77.09	32.502	
11,400.00	8,480.00	11,452.70	8,565.00	58.47	54.40	91.44	-2,980.59	-3,231.43	2,505.68	2,426.64	79.04	31.702	
11,500.00	8,480.00	11,552.70	8,565.00	59.86	55.76	91.44	-3,080.59	-3,230.45	2,505.69	2,424.69	81.01	30.932	
11,600.00	8,480.00	11,652.70	8,565.00	61.27	57.15	91.44	-3,180.58	-3,229.46	2,505.70	2,422.71	82.99	30.191	
11,700.00	8,480.00	11,752.70	8,565.00	62.69	58.54	91.44	-3,280.58	-3,228.48	2,505.72	2,420.72	85.00	29.479	
11,800.00	8,480.00	11,852.70	8,565.00	64.13	59.95	91.44	-3,380.57	-3,227.50	2,505.73	2,418.71	87.02	28.795	
11,900.00	8,480.00	11,952.70	8,565.00	65.57	61.37	91.44	-3,480.57	-3,226.52	2,505.74	2,416.68	89.06	28.137	
12,000.00	8,480.00	12,052.70	8,565.00	67.02	62.80	91.44	-3,580.56	-3,225.54	2,505.75	2,414.64	91.11	27.503	
12,100.00	8,480.00	12,152.70	8,565.00	68.48	64.25	91.44	-3,680.56	-3,224.56	2,505.76	2,412.59	93.17	26.894	
12,200.00	8,480.00	12,252.70	8,565.00	69.95	65.70	91.44	-3,780.55	-3,223.57	2,505.77	2,410.52	95.25	26.308	
12,300.00	8,480.00	12,352.70	8,565.00	71.42	67.16	91.44	-3,880.55	-3,222.59	2,505.78	2,408.45	97.34	25.744	
12,400.00	8,480.00	12,452.70	8,565.00	72.91	68.63	91.44	-3,980.54	-3,221.61	2,505.79	2,406.36	99.43	25.200	
12,500.00	8,480.00	12,552.70	8,565.00	74.40	70.11	91.44	-4,080.54	-3,220.63	2,505.80	2,404.26	101.54	24.677	
12,600.00	8,480.00	12,652.70	8,565.00	75.90	71.60	91.44	-4,180.54	-3,219.65	2,505.81	2,402.15	103.66	24.173	
12,700.00	8,480.00	12,752.70	8,565.00	77.40	73.09	91.44	-4,280.53	-3,218.66	2,505.83	2,400.03	105.79	23.686	
12,800.00	8,480.00	12,852.70	8,565.00	78.91	74.59	91.44	-4,380.53	-3,217.68	2,505.84	2,397.91	107.93	23.218	
12,900.00	8,480.00	12,952.70	8,565.00	80.43	76.10	91.44	-4,480.52	-3,216.70	2,505.85	2,395.77	110.07	22.765	
13,000.00	8,480.00	13,052.70	8,565.00	81.95	77.61	91.44	-4,580.52	-3,215.72	2,505.86	2,393.63	112.23	22.329	
13,100.00	8,480.00	13,152.70	8,565.00	83.47	79.13	91.44	-4,680.51	-3,214.74	2,505.87	2,391.48	114.39	21.907	
13,200.00	8,480.00	13,252.70	8,565.00	85.00	80.65	91.44	-4,780.51	-3,213.76	2,505.88	2,389.33	116.55	21.500	
13,300.00	8,480.00	13,352.70	8,565.00	86.54	82.18	91.44	-4,880.50	-3,212.77	2,505.89	2,387.17	118.72	21.107	
13,400.00	8,480.00	13,452.70	8,565.00	88.08	83.71	91.44	-4,980.50	-3,211.79	2,505.90	2,385.00	120.90	20.726	
13,500.00	8,480.00	13,552.70	8,565.00	89.62	85.25	91.44	-5,080.49	-3,210.81	2,505.91	2,382.83	123.09	20.359	
13,600.00	8,480.00	13,652.70	8,565.00	91.17	86.79	91.44	-5,180.49	-3,209.83	2,505.93	2,380.65	125.28	20.003	
13,700.00	8,480.00	13,752.70	8,565.00	92.72	88.33	91.44	-5,280.48	-3,208.85	2,505.94	2,378.46	127.47	19.659	
13,800.00	8,480.00	13,852.70	8,565.00	94.27	89.88	91.44	-5,380.48	-3,207.86	2,505.95	2,376.27	129.67	19.325	
13,900.00	8,480.00	13,952.70	8,565.00	95.83	91.43	91.44	-5,480.47	-3,206.88	2,505.96	2,374.08	131.88	19.002	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	8,480.00	14,052.70	8,565.00	97.39	92.99	91.44	-5,580.47	-3,205.90	2,505.97	2,371.88	134.09	18.689	
14,100.00	8,480.00	14,152.70	8,565.00	98.95	94.55	91.44	-5,680.46	-3,204.92	2,505.98	2,369.68	136.30	18.386	
14,200.00	8,480.00	14,252.70	8,565.00	100.52	96.11	91.44	-5,780.46	-3,203.94	2,505.99	2,367.48	138.52	18.092	
14,300.00	8,480.00	14,352.70	8,565.00	102.09	97.68	91.44	-5,880.45	-3,202.96	2,506.00	2,365.27	140.74	17.806	
14,400.00	8,480.00	14,452.70	8,565.00	103.66	99.24	91.44	-5,980.45	-3,201.97	2,506.01	2,363.05	142.96	17.529	
14,500.00	8,480.00	14,552.70	8,565.00	105.23	100.81	91.44	-6,080.44	-3,200.99	2,506.03	2,360.83	145.19	17.260	
14,600.00	8,480.00	14,652.70	8,565.00	106.81	102.39	91.44	-6,180.44	-3,200.01	2,506.04	2,358.61	147.42	16.999	
14,700.00	8,480.00	14,752.70	8,565.00	108.39	103.96	91.44	-6,280.43	-3,199.03	2,506.05	2,356.39	149.66	16.745	
14,800.00	8,480.00	14,852.70	8,565.00	109.97	105.54	91.44	-6,380.43	-3,198.05	2,506.06	2,354.16	151.89	16.499	
14,900.00	8,480.00	14,952.70	8,565.00	111.55	107.12	91.44	-6,480.42	-3,197.06	2,506.07	2,351.94	154.14	16.259	
15,000.00	8,480.00	15,052.70	8,565.00	113.13	108.70	91.44	-6,580.42	-3,196.08	2,506.08	2,349.70	156.38	16.026	
15,100.00	8,480.00	15,152.70	8,565.00	114.72	110.29	91.44	-6,680.41	-3,195.10	2,506.09	2,347.47	158.62	15.799	
15,200.00	8,480.00	15,252.70	8,565.00	116.31	111.87	91.44	-6,780.41	-3,194.12	2,506.10	2,345.23	160.87	15.578	
15,300.00	8,480.00	15,352.70	8,565.00	117.90	113.46	91.44	-6,880.40	-3,193.14	2,506.11	2,342.99	163.12	15.363	
15,400.00	8,480.00	15,452.70	8,565.00	119.49	115.05	91.44	-6,980.40	-3,192.16	2,506.13	2,340.75	165.38	15.154	
15,500.00	8,480.00	15,552.70	8,565.00	121.08	116.64	91.44	-7,080.40	-3,191.17	2,506.14	2,338.50	167.63	14.950	
15,600.00	8,480.00	15,652.70	8,565.00	122.68	118.23	91.44	-7,180.39	-3,190.19	2,506.15	2,336.26	169.89	14.752	
15,700.00	8,480.00	15,752.70	8,565.00	124.27	119.83	91.44	-7,280.39	-3,189.21	2,506.16	2,334.01	172.15	14.558	
15,800.00	8,480.00	15,852.70	8,565.00	125.87	121.43	91.44	-7,380.38	-3,188.23	2,506.17	2,331.76	174.41	14.369	
15,900.00	8,480.00	15,952.70	8,565.00	127.47	123.02	91.44	-7,480.38	-3,187.25	2,506.18	2,329.51	176.67	14.185	
16,000.00	8,480.00	16,052.70	8,565.00	129.07	124.62	91.44	-7,580.37	-3,186.27	2,506.19	2,327.25	178.94	14.006	
16,100.00	8,480.00	16,152.70	8,565.00	130.67	126.22	91.44	-7,680.37	-3,185.28	2,506.20	2,325.00	181.21	13.831	
16,200.00	8,480.00	16,252.70	8,565.00	132.27	127.82	91.44	-7,780.36	-3,184.30	2,506.21	2,322.74	183.48	13.660	
16,300.00	8,480.00	16,352.70	8,565.00	133.88	129.43	91.44	-7,880.36	-3,183.32	2,506.23	2,320.48	185.75	13.493	
16,400.00	8,480.00	16,452.70	8,565.00	135.48	131.03	91.44	-7,980.35	-3,182.34	2,506.24	2,318.22	188.02	13.330	
16,500.00	8,480.00	16,552.70	8,565.00	137.09	132.64	91.44	-8,080.35	-3,181.36	2,506.25	2,315.96	190.29	13.171	
16,600.00	8,480.00	16,652.70	8,565.00	138.70	134.24	91.44	-8,180.34	-3,180.37	2,506.26	2,313.69	192.57	13.015	
16,700.00	8,480.00	16,752.70	8,565.00	140.30	135.85	91.44	-8,280.34	-3,179.39	2,506.27	2,311.43	194.84	12.863	
16,800.00	8,480.00	16,852.70	8,565.00	141.91	137.46	91.44	-8,380.33	-3,178.41	2,506.28	2,309.16	197.12	12.714	
16,900.00	8,480.00	16,952.70	8,565.00	143.52	139.07	91.44	-8,480.33	-3,177.43	2,506.29	2,306.89	199.40	12.569	
17,000.00	8,480.00	17,052.70	8,565.00	145.13	140.68	91.44	-8,580.32	-3,176.45	2,506.30	2,304.62	201.68	12.427	
17,100.00	8,480.00	17,152.70	8,565.00	146.75	142.29	91.44	-8,680.32	-3,175.47	2,506.31	2,302.35	203.96	12.288	
17,200.00	8,480.00	17,252.70	8,565.00	148.36	143.90	91.44	-8,780.31	-3,174.48	2,506.33	2,300.08	206.24	12.152	
17,300.00	8,480.00	17,352.70	8,565.00	149.97	145.52	91.44	-8,880.31	-3,173.50	2,506.34	2,297.81	208.53	12.019	
17,400.00	8,480.00	17,452.70	8,565.00	151.59	147.13	91.44	-8,980.30	-3,172.52	2,506.35	2,295.53	210.81	11.889	
17,500.00	8,480.00	17,552.70	8,565.00	153.20	148.75	91.44	-9,080.30	-3,171.54	2,506.36	2,293.26	213.10	11.761	
17,600.00	8,480.00	17,652.70	8,565.00	154.82	150.36	91.44	-9,180.29	-3,170.56	2,506.37	2,290.98	215.39	11.637	
17,700.00	8,480.00	17,752.70	8,565.00	156.44	151.98	91.44	-9,280.29	-3,169.57	2,506.38	2,288.71	217.68	11.514	
17,800.00	8,480.00	17,852.70	8,565.00	158.05	153.59	91.44	-9,380.28	-3,168.59	2,506.39	2,286.43	219.96	11.395	
17,900.00	8,480.00	17,952.70	8,565.00	159.67	155.21	91.44	-9,480.28	-3,167.61	2,506.40	2,284.15	222.25	11.277	
18,000.00	8,480.00	18,052.70	8,565.00	161.29	156.83	91.44	-9,580.27	-3,166.63	2,506.41	2,281.87	224.55	11.162	
18,100.00	8,480.00	18,152.70	8,565.00	162.91	158.45	91.44	-9,680.27	-3,165.65	2,506.43	2,279.59	226.84	11.049	
18,200.00	8,480.00	18,252.70	8,565.00	164.53	160.07	91.44	-9,780.27	-3,164.67	2,506.44	2,277.31	229.13	10.939	
18,300.00	8,480.00	18,352.70	8,565.00	166.15	161.69	91.44	-9,880.26	-3,163.68	2,506.45	2,275.02	231.42	10.831	
18,400.00	8,480.00	18,452.70	8,565.00	167.77	163.31	91.44	-9,980.26	-3,162.70	2,506.46	2,272.74	233.72	10.724	
18,500.00	8,480.00	18,552.70	8,565.00	169.40	164.93	91.44	-10,080.25	-3,161.72	2,506.47	2,270.46	236.01	10.620	
18,502.73	8,480.00	18,555.43	8,565.00	169.44	164.98	91.44	-10,082.98	-3,161.69	2,506.47	2,270.39	236.08	10.617	
18,600.00	8,480.00	18,634.72	8,565.00	171.02	166.26	91.44	-10,162.26	-3,160.91	2,506.55	2,268.37	238.18	10.524	ES
18,700.00	8,480.00	18,634.72	8,565.00	172.64	166.26	91.44	-10,162.26	-3,160.91	2,509.27	2,269.77	239.50	10.477	
18,800.00	8,480.00	18,634.72	8,565.00	174.26	166.26	91.44	-10,162.26	-3,160.91	2,515.96	2,275.53	240.43	10.464	SF
18,900.00	8,480.00	18,634.72	8,565.00	175.89	166.26	91.44	-10,162.26	-3,160.91	2,526.60	2,285.64	240.96	10.485	
19,000.00	8,480.00	18,634.72	8,565.00	177.51	166.26	91.44	-10,162.26	-3,160.91	2,541.14	2,300.03	241.11	10.539	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,100.00	8,480.00	18,634.72	8,565.00	179.14	166.26	91.44	-10,162.26	-3,160.91	2,559.50	2,318.62	240.88	10.626	
19,200.00	8,480.00	18,634.72	8,565.00	180.76	166.26	91.44	-10,162.26	-3,160.91	2,581.60	2,341.31	240.29	10.744	
19,300.00	8,480.00	18,634.72	8,565.00	182.39	166.26	91.44	-10,162.26	-3,160.91	2,607.36	2,367.99	239.37	10.893	
19,400.00	8,480.00	18,634.72	8,565.00	184.02	166.26	91.44	-10,162.26	-3,160.91	2,636.66	2,398.52	238.14	11.072	
19,500.00	8,480.00	18,634.72	8,565.00	185.64	166.26	91.44	-10,162.26	-3,160.91	2,669.39	2,432.76	236.62	11.281	
19,600.00	8,480.00	18,634.72	8,565.00	187.27	166.26	91.44	-10,162.26	-3,160.91	2,705.42	2,470.56	234.86	11.519	
19,700.00	8,480.00	18,634.72	8,565.00	188.90	166.26	91.44	-10,162.26	-3,160.91	2,744.62	2,511.74	232.88	11.786	
19,800.00	8,480.00	18,634.72	8,565.00	190.53	166.26	91.44	-10,162.26	-3,160.91	2,786.86	2,556.16	230.70	12.080	
19,899.80	8,480.00	18,634.72	8,565.00	192.15	166.26	91.44	-10,162.26	-3,160.91	2,831.91	2,603.55	228.37	12.401	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	22.00	22.00	0.00	0.03	-97.92	-391.31	-2,811.85	2,838.95				
100.00	100.00	122.00	122.00	0.13	0.20	-97.92	-391.31	-2,811.85	2,838.95	2,838.71	0.24	N/A	
200.00	200.00	222.00	222.00	0.48	0.56	-97.92	-391.31	-2,811.85	2,838.95	2,838.21	0.74	3,824.777	
300.00	300.00	322.00	322.00	0.84	0.92	-97.92	-391.31	-2,811.85	2,838.95	2,837.70	1.25	2,274.151	
400.00	400.00	422.00	422.00	1.20	1.28	-97.92	-391.31	-2,811.85	2,838.95	2,837.20	1.75	1,617.680	
500.00	500.00	522.00	522.00	1.56	1.64	-97.92	-391.31	-2,811.85	2,838.95	2,836.69	2.26	1,255.224	
600.00	600.00	622.00	622.00	1.92	2.00	-97.92	-391.31	-2,811.85	2,838.95	2,836.18	2.77	1,025.433	
700.00	700.00	722.00	722.00	2.28	2.36	-97.92	-391.31	-2,811.85	2,838.95	2,835.68	3.28	866.748	
800.00	800.00	822.00	822.00	2.63	2.71	-97.92	-391.31	-2,811.85	2,838.95	2,835.17	3.78	750.589	
900.00	900.00	922.00	922.00	2.99	3.07	-97.92	-391.31	-2,811.85	2,838.95	2,834.66	4.29	661.883	
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-97.92	-391.31	-2,811.85	2,838.95	2,834.16	4.80	591.926	
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-97.92	-391.31	-2,811.85	2,838.95	2,833.65	5.30	535.344	
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-97.92	-391.31	-2,811.85	2,838.95	2,833.14	5.81	488.634	
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-97.92	-391.31	-2,811.85	2,838.95	2,832.63	6.32	449.421	
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-97.92	-391.31	-2,811.85	2,838.95	2,832.13	6.82	416.034	
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-97.92	-391.31	-2,811.85	2,838.95	2,831.62	7.33	387.264	
1,600.00	1,600.00	1,622.00	1,622.00	5.50	5.58	-97.92	-391.31	-2,811.85	2,838.95	2,831.11	7.84	362.216	
1,700.00	1,700.00	1,722.00	1,722.00	5.86	5.94	-97.92	-391.31	-2,811.85	2,838.95	2,830.61	8.34	340.211	
1,800.00	1,800.00	1,822.00	1,822.00	6.22	6.30	-97.92	-391.31	-2,811.85	2,838.95	2,830.10	8.85	320.727	
1,900.00	1,900.00	1,922.00	1,922.00	6.58	6.66	-97.92	-391.31	-2,811.85	2,838.95	2,829.59	9.36	303.353	
2,000.00	2,000.00	2,022.00	2,022.00	6.94	7.02	-97.92	-391.31	-2,811.85	2,838.95	2,829.09	9.87	287.765	
2,100.00	2,099.99	2,121.99	2,121.99	7.29	7.37	-19.14	-391.31	-2,811.85	2,837.71	2,827.35	10.37	273.718	
2,200.00	2,199.91	2,264.88	2,264.88	7.63	7.88	-19.19	-391.00	-2,811.40	2,833.84	2,822.87	10.97	258.279	
2,300.00	2,299.69	2,558.12	2,557.59	7.98	8.92	-19.23	-381.75	-2,798.07	2,822.73	2,810.80	11.93	236.611	
2,400.00	2,399.27	2,843.71	2,840.67	8.34	9.96	-19.16	-360.48	-2,767.38	2,802.50	2,789.66	12.84	218.278	
2,500.00	2,498.57	3,011.26	3,005.27	8.69	10.59	-19.13	-342.65	-2,741.67	2,774.66	2,761.19	13.47	205.928	
2,600.00	2,597.54	3,106.35	3,098.51	9.06	10.96	-19.20	-332.04	-2,726.36	2,743.98	2,730.03	13.95	196.635	
2,616.45	2,613.78	3,121.93	3,113.79	9.12	11.02	-19.21	-330.30	-2,723.85	2,738.71	2,724.68	14.04	195.133	
2,700.00	2,696.24	3,200.96	3,191.29	9.43	11.34	-19.15	-321.47	-2,711.13	2,711.78	2,697.35	14.44	187.854	
2,800.00	2,794.94	3,295.56	3,284.05	9.81	11.72	-19.07	-310.91	-2,695.89	2,679.55	2,664.63	14.92	179.620	
2,900.00	2,893.64	3,390.16	3,376.81	10.19	12.10	-18.99	-300.35	-2,680.66	2,647.33	2,631.92	15.40	171.868	
3,000.00	2,992.34	3,484.75	3,469.58	10.58	12.49	-18.90	-289.79	-2,665.43	2,615.10	2,599.21	15.89	164.561	
3,100.00	3,091.04	3,579.35	3,562.34	10.97	12.88	-18.82	-279.23	-2,650.19	2,582.89	2,566.51	16.38	157.666	
3,200.00	3,189.74	3,673.95	3,655.10	11.37	13.28	-18.73	-268.67	-2,634.96	2,550.68	2,533.80	16.88	151.151	
3,300.00	3,288.45	3,768.54	3,747.87	11.77	13.68	-18.64	-258.10	-2,619.73	2,518.47	2,501.10	17.37	144.988	
3,400.00	3,387.15	3,863.14	3,840.63	12.17	14.08	-18.55	-247.54	-2,604.49	2,486.28	2,468.41	17.87	139.151	
3,500.00	3,485.85	3,957.74	3,933.39	12.58	14.48	-18.45	-236.98	-2,589.26	2,454.08	2,435.72	18.37	133.618	
3,600.00	3,584.55	4,052.34	4,026.16	12.98	14.89	-18.36	-226.42	-2,574.03	2,421.90	2,403.03	18.87	128.365	
3,700.00	3,683.25	4,146.93	4,118.92	13.39	15.30	-18.26	-215.86	-2,558.80	2,389.72	2,370.35	19.37	123.375	
3,800.00	3,781.95	4,241.53	4,211.68	13.80	15.71	-18.15	-205.30	-2,543.56	2,357.54	2,337.67	19.87	118.628	
3,900.00	3,880.65	4,336.13	4,304.45	14.22	16.13	-18.05	-194.73	-2,528.33	2,325.37	2,305.00	20.38	114.108	
4,000.00	3,979.35	4,430.73	4,397.21	14.63	16.54	-17.94	-184.17	-2,513.10	2,293.22	2,272.33	20.89	109.800	
4,100.00	4,078.05	4,525.32	4,489.97	15.05	16.96	-17.83	-173.61	-2,497.86	2,261.06	2,239.67	21.39	105.691	
4,200.00	4,176.75	4,619.92	4,582.74	15.47	17.38	-17.71	-163.05	-2,482.63	2,228.92	2,207.02	21.90	101.767	
4,300.00	4,275.45	4,714.52	4,675.50	15.89	17.80	-17.60	-152.49	-2,467.40	2,196.78	2,174.37	22.41	98.016	
4,400.00	4,374.15	4,809.12	4,768.26	16.31	18.22	-17.47	-141.93	-2,452.16	2,164.66	2,141.73	22.92	94.428	
4,500.00	4,472.85	4,903.71	4,861.03	16.73	18.64	-17.35	-131.36	-2,436.93	2,132.54	2,109.10	23.44	90.994	
4,600.00	4,571.55	4,998.31	4,953.79	17.15	19.07	-17.22	-120.80	-2,421.70	2,100.43	2,076.48	23.95	87.703	
4,700.00	4,670.25	5,092.91	5,046.55	17.57	19.49	-17.09	-110.24	-2,406.46	2,068.33	2,043.87	24.46	84.547	
4,800.00	4,768.95	5,187.50	5,139.32	18.00	19.92	-16.95	-99.68	-2,391.23	2,036.24	2,011.26	24.98	81.518	
4,900.00	4,867.65	5,282.10	5,232.08	18.42	20.35	-16.81	-89.12	-2,376.00	2,004.16	1,978.67	25.50	78.609	
5,000.00	4,966.35	5,376.70	5,324.85	18.85	20.77	-16.66	-78.56	-2,360.77	1,972.10	1,946.09	26.01	75.814	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.05	5,471.30	5,417.61	19.28	21.20	-16.51	-68.00	-2,345.53	1,940.04	1,913.51	26.53	73.126	
5,200.00	5,163.76	5,565.89	5,510.37	19.70	21.63	-16.36	-57.43	-2,330.30	1,908.00	1,880.95	27.05	70.539	
5,300.00	5,262.46	5,660.49	5,603.14	20.13	22.06	-16.20	-46.87	-2,315.07	1,875.97	1,848.40	27.57	68.047	
5,400.00	5,361.16	5,755.09	5,695.90	20.56	22.49	-16.03	-36.31	-2,299.83	1,843.96	1,815.87	28.09	65.648	
5,500.00	5,459.86	5,849.69	5,788.66	20.99	22.93	-15.86	-25.75	-2,284.60	1,811.96	1,783.35	28.61	63.334	
5,600.00	5,558.56	5,944.28	5,881.43	21.42	23.36	-15.68	-15.19	-2,269.37	1,779.97	1,750.84	29.13	61.102	
5,700.00	5,657.26	6,038.88	5,974.19	21.85	23.79	-15.49	-4.63	-2,254.13	1,748.00	1,718.35	29.65	58.947	
5,800.00	5,755.96	6,133.48	6,066.95	22.28	24.22	-15.30	5.94	-2,238.90	1,716.05	1,685.87	30.18	56.865	
5,900.00	5,854.66	6,228.08	6,159.72	22.71	24.66	-15.10	16.50	-2,223.67	1,684.12	1,653.41	30.70	54.854	
6,000.00	5,953.36	6,322.67	6,252.48	23.14	25.09	-14.89	27.06	-2,208.43	1,652.20	1,620.97	31.23	52.909	
6,100.00	6,052.06	6,417.27	6,345.24	23.57	25.53	-14.68	37.62	-2,193.20	1,620.31	1,588.55	31.75	51.029	
6,200.00	6,150.76	6,511.87	6,438.01	24.01	25.96	-14.45	48.18	-2,177.97	1,588.43	1,556.15	32.28	49.209	
6,300.00	6,249.46	6,606.46	6,530.77	24.44	26.40	-14.22	58.74	-2,162.74	1,556.58	1,523.78	32.81	47.446	
6,400.00	6,348.16	6,701.06	6,623.53	24.87	26.84	-13.98	69.31	-2,147.50	1,524.76	1,491.42	33.34	45.739	
6,500.00	6,446.86	6,795.66	6,716.30	25.30	27.27	-13.72	79.87	-2,132.27	1,492.96	1,459.09	33.87	44.084	
6,600.00	6,545.56	6,881.67	6,800.65	25.74	27.67	-13.49	89.42	-2,118.49	1,461.29	1,426.89	34.40	42.484	
6,700.00	6,644.26	6,953.76	6,871.57	26.17	27.99	-13.31	96.80	-2,107.84	1,430.85	1,395.93	34.92	40.972	
6,804.31	6,747.22	7,029.81	6,946.63	26.62	28.32	-13.14	103.77	-2,097.79	1,400.75	1,365.28	35.46	39.497	
6,900.00	6,841.85	7,100.00	7,016.11	27.03	28.62	-12.92	109.44	-2,089.62	1,375.75	1,339.80	35.96	38.263	
7,000.00	6,941.09	7,175.54	7,091.08	27.44	28.92	-12.72	114.73	-2,081.99	1,353.61	1,317.15	36.46	37.126	
7,100.00	7,040.61	7,251.50	7,166.63	27.83	29.22	-12.54	119.20	-2,075.54	1,335.60	1,298.65	36.96	36.140	
7,200.00	7,140.36	7,328.23	7,243.09	28.20	29.51	-12.39	122.84	-2,070.29	1,321.77	1,284.33	37.44	35.304	
7,300.00	7,240.26	7,400.00	7,314.72	28.55	29.77	-12.28	125.45	-2,066.52	1,312.17	1,274.27	37.90	34.620	
7,400.00	7,340.24	7,483.21	7,397.84	28.88	30.05	-12.19	127.52	-2,063.54	1,306.77	1,268.41	38.37	34.060	
7,420.77	7,361.00	7,500.00	7,414.63	28.95	30.11	-90.97	127.81	-2,063.12	1,306.19	1,267.73	38.46	33.962	
7,500.00	7,440.24	7,561.06	7,475.67	29.20	30.30	-90.94	128.52	-2,062.09	1,304.84	1,266.04	38.80	33.627	
7,584.95	7,525.19	7,632.58	7,547.19	29.47	30.53	-90.94	128.69	-2,061.85	1,304.53	1,265.35	39.18	33.298	
7,600.00	7,540.24	7,647.62	7,562.24	29.52	30.58	-90.94	128.69	-2,061.85	1,304.53	1,265.28	39.25	33.237	
7,700.00	7,640.24	7,747.62	7,662.24	29.84	30.89	-90.94	128.69	-2,061.85	1,304.53	1,264.80	39.72	32.840	
7,800.00	7,740.24	7,847.62	7,762.24	30.16	31.20	-90.94	128.69	-2,061.85	1,304.53	1,264.33	40.20	32.451	
7,900.00	7,840.24	7,947.62	7,862.24	30.48	31.51	-90.94	128.69	-2,061.85	1,304.53	1,263.85	40.68	32.071	
7,966.81	7,907.04	8,014.43	7,929.04	30.69	31.72	-90.94	128.69	-2,061.85	1,304.53	1,263.53	40.99	31.822	
8,000.00	7,940.22	8,047.60	7,962.22	30.79	31.83	89.68	128.69	-2,061.85	1,304.52	1,263.37	41.15	31.700	
8,050.00	7,989.94	8,097.33	8,011.94	30.94	31.99	89.90	128.69	-2,061.85	1,304.50	1,263.12	41.38	31.522	
8,064.55	8,004.31	8,111.70	8,026.31	30.98	32.03	90.00	128.69	-2,061.85	1,304.50	1,263.05	41.45	31.471 CC	
8,100.00	8,039.04	8,146.43	8,061.04	31.08	32.14	90.30	128.69	-2,061.85	1,304.52	1,262.90	41.62	31.347	
8,150.00	8,087.13	8,195.90	8,110.48	31.21	32.29	90.82	127.26	-2,061.84	1,304.64	1,262.80	41.84	31.181	
8,200.00	8,133.85	8,246.60	8,160.83	31.33	32.42	91.34	121.45	-2,061.78	1,304.88	1,262.84	42.05	31.033	
8,250.00	8,178.84	8,298.49	8,211.62	31.45	32.53	91.87	110.92	-2,061.68	1,305.24	1,263.00	42.24	30.899	
8,300.00	8,221.77	8,351.64	8,262.44	31.55	32.63	92.38	95.42	-2,061.53	1,305.70	1,263.28	42.42	30.781	
8,350.00	8,262.30	8,406.11	8,312.80	31.65	32.71	92.88	74.72	-2,061.32	1,306.25	1,263.67	42.58	30.678	
8,400.00	8,300.13	8,461.94	8,362.14	31.74	32.78	93.37	48.64	-2,061.07	1,306.88	1,264.16	42.72	30.589	
8,450.00	8,334.96	8,519.17	8,409.84	31.82	32.82	93.83	17.06	-2,060.76	1,307.57	1,264.71	42.85	30.512	
8,500.00	8,366.54	8,577.80	8,455.19	31.89	32.85	94.27	-20.06	-2,060.40	1,308.29	1,265.32	42.97	30.447	
8,550.00	8,394.62	8,637.83	8,497.43	31.96	32.85	94.68	-62.66	-2,059.98	1,309.03	1,265.95	43.08	30.389	
8,600.00	8,418.99	8,699.20	8,535.78	32.03	32.84	95.05	-110.54	-2,059.51	1,309.74	1,266.57	43.18	30.335	
8,650.00	8,439.47	8,761.82	8,569.40	32.11	32.81	95.38	-163.33	-2,058.99	1,310.41	1,267.14	43.28	30.280	
8,700.00	8,455.89	8,825.58	8,597.51	32.19	32.76	95.66	-220.52	-2,058.43	1,311.01	1,267.63	43.38	30.219	
8,750.00	8,468.13	8,890.31	8,619.37	32.29	32.71	95.88	-281.40	-2,057.84	1,311.51	1,268.00	43.51	30.146	
8,800.00	8,476.11	8,955.80	8,634.36	32.40	32.65	96.04	-345.12	-2,057.21	1,311.88	1,268.24	43.65	30.057	
8,850.00	8,479.75	9,021.84	8,642.01	32.54	32.60	96.14	-410.67	-2,056.57	1,312.12	1,268.31	43.81	29.949	
8,866.81	8,480.00	9,044.11	8,642.89	32.59	32.59	96.16	-432.92	-2,056.35	1,312.17	1,268.29	43.87	29.909	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	8,480.00	9,080.09	8,643.00	32.70	32.58	96.17	-468.90	-2,056.00	1,312.18	1,268.18	44.00	29.820	
9,000.00	8,480.00	9,180.09	8,643.00	33.09	32.62	96.17	-568.89	-2,055.02	1,312.19	1,267.71	44.48	29.502	
9,100.00	8,480.00	9,280.09	8,643.00	33.57	32.79	96.17	-668.89	-2,054.04	1,312.21	1,267.14	45.07	29.117	
9,200.00	8,480.00	9,380.09	8,643.00	34.14	33.11	96.17	-768.88	-2,053.06	1,312.22	1,266.46	45.76	28.673	
9,300.00	8,480.00	9,480.09	8,643.00	34.79	33.55	96.17	-868.88	-2,052.08	1,312.23	1,265.66	46.57	28.178	
9,400.00	8,480.00	9,580.09	8,643.00	35.50	34.08	96.17	-968.88	-2,051.10	1,312.25	1,264.77	47.47	27.642	
9,500.00	8,480.00	9,680.09	8,643.00	36.28	34.69	96.17	-1,068.87	-2,050.12	1,312.26	1,263.79	48.47	27.072	
9,600.00	8,480.00	9,780.09	8,643.00	37.11	35.37	96.17	-1,168.87	-2,049.15	1,312.27	1,262.71	49.56	26.478	
9,700.00	8,480.00	9,880.09	8,643.00	38.01	36.11	96.17	-1,268.86	-2,048.17	1,312.29	1,261.56	50.73	25.867	
9,800.00	8,480.00	9,980.09	8,643.00	38.95	36.92	96.17	-1,368.86	-2,047.19	1,312.30	1,260.32	51.98	25.246	
9,900.00	8,480.00	10,080.09	8,643.00	39.94	37.77	96.17	-1,468.85	-2,046.21	1,312.31	1,259.01	53.30	24.621	
10,000.00	8,480.00	10,180.09	8,643.00	40.97	38.68	96.17	-1,568.85	-2,045.23	1,312.33	1,257.64	54.69	23.996	
10,100.00	8,480.00	10,280.09	8,643.00	42.04	39.63	96.17	-1,668.84	-2,044.25	1,312.34	1,256.20	56.14	23.376	
10,200.00	8,480.00	10,380.09	8,643.00	43.14	40.63	96.17	-1,768.84	-2,043.27	1,312.35	1,254.71	57.65	22.766	
10,300.00	8,480.00	10,480.09	8,643.00	44.29	41.67	96.17	-1,868.83	-2,042.29	1,312.37	1,253.16	59.21	22.166	
10,400.00	8,480.00	10,580.09	8,643.00	45.46	42.74	96.17	-1,968.83	-2,041.31	1,312.38	1,251.57	60.82	21.580	
10,500.00	8,480.00	10,680.09	8,643.00	46.66	43.85	96.17	-2,068.82	-2,040.33	1,312.40	1,249.93	62.47	21.008	
10,600.00	8,480.00	10,780.09	8,643.00	47.89	44.99	96.17	-2,168.82	-2,039.35	1,312.41	1,248.24	64.17	20.454	
10,700.00	8,480.00	10,880.09	8,643.00	49.14	46.17	96.17	-2,268.81	-2,038.37	1,312.42	1,246.52	65.90	19.916	
10,800.00	8,480.00	10,980.09	8,643.00	50.42	47.37	96.17	-2,368.81	-2,037.39	1,312.44	1,244.77	67.67	19.395	
10,900.00	8,480.00	11,080.09	8,643.00	51.72	48.59	96.17	-2,468.80	-2,036.41	1,312.45	1,242.98	69.47	18.892	
11,000.00	8,480.00	11,180.09	8,643.00	53.03	49.85	96.17	-2,568.80	-2,035.43	1,312.46	1,241.16	71.30	18.407	
11,100.00	8,480.00	11,280.09	8,643.00	54.37	51.12	96.17	-2,668.79	-2,034.46	1,312.48	1,239.31	73.16	17.939	
11,200.00	8,480.00	11,380.09	8,643.00	55.72	52.41	96.17	-2,768.79	-2,033.48	1,312.49	1,237.44	75.05	17.488	
11,300.00	8,480.00	11,480.09	8,643.00	57.09	53.73	96.17	-2,868.78	-2,032.50	1,312.50	1,235.54	76.96	17.054	
11,400.00	8,480.00	11,580.09	8,643.00	58.47	55.06	96.17	-2,968.78	-2,031.52	1,312.52	1,233.62	78.89	16.637	
11,500.00	8,480.00	11,680.09	8,643.00	59.86	56.40	96.17	-3,068.77	-2,030.54	1,312.53	1,231.68	80.85	16.235	
11,600.00	8,480.00	11,780.09	8,643.00	61.27	57.77	96.17	-3,168.77	-2,029.56	1,312.54	1,229.73	82.82	15.849	
11,700.00	8,480.00	11,880.09	8,643.00	62.69	59.15	96.17	-3,268.76	-2,028.58	1,312.56	1,227.75	84.81	15.477	
11,800.00	8,480.00	11,980.09	8,643.00	64.13	60.54	96.17	-3,368.76	-2,027.60	1,312.57	1,225.76	86.81	15.119	
11,900.00	8,480.00	12,080.09	8,643.00	65.57	61.94	96.17	-3,468.76	-2,026.62	1,312.58	1,223.75	88.84	14.775	
12,000.00	8,480.00	12,180.09	8,643.00	67.02	63.36	96.17	-3,568.75	-2,025.64	1,312.60	1,221.72	90.87	14.444	
12,100.00	8,480.00	12,280.09	8,643.00	68.48	64.78	96.17	-3,668.75	-2,024.66	1,312.61	1,219.69	92.92	14.126	
12,200.00	8,480.00	12,380.09	8,643.00	69.95	66.22	96.17	-3,768.74	-2,023.68	1,312.62	1,217.64	94.99	13.819	
12,300.00	8,480.00	12,480.09	8,643.00	71.42	67.67	96.17	-3,868.74	-2,022.70	1,312.64	1,215.58	97.06	13.524	
12,400.00	8,480.00	12,580.09	8,643.00	72.91	69.12	96.17	-3,968.73	-2,021.72	1,312.65	1,213.51	99.15	13.240	
12,500.00	8,480.00	12,680.09	8,643.00	74.40	70.59	96.17	-4,068.73	-2,020.75	1,312.67	1,211.42	101.24	12.966	
12,600.00	8,480.00	12,780.09	8,643.00	75.90	72.06	96.17	-4,168.72	-2,019.77	1,312.68	1,209.33	103.35	12.702	
12,700.00	8,480.00	12,880.09	8,643.00	77.40	73.54	96.17	-4,268.72	-2,018.79	1,312.69	1,207.23	105.46	12.447	
12,800.00	8,480.00	12,980.09	8,643.00	78.91	75.03	96.17	-4,368.71	-2,017.81	1,312.71	1,205.12	107.58	12.202	
12,900.00	8,480.00	13,080.09	8,643.00	80.43	76.52	96.17	-4,468.71	-2,016.83	1,312.72	1,203.00	109.72	11.965	
13,000.00	8,480.00	13,180.09	8,643.00	81.95	78.02	96.17	-4,568.70	-2,015.85	1,312.73	1,200.88	111.85	11.736	
13,100.00	8,480.00	13,280.09	8,643.00	83.47	79.53	96.17	-4,668.70	-2,014.87	1,312.75	1,198.75	114.00	11.515	
13,200.00	8,480.00	13,380.09	8,643.00	85.00	81.04	96.17	-4,768.69	-2,013.89	1,312.76	1,196.61	116.15	11.302	
13,300.00	8,480.00	13,480.09	8,643.00	86.54	82.56	96.17	-4,868.69	-2,012.91	1,312.77	1,194.46	118.31	11.096	
13,400.00	8,480.00	13,580.09	8,643.00	88.08	84.08	96.17	-4,968.68	-2,011.93	1,312.79	1,192.31	120.48	10.896	
13,500.00	8,480.00	13,680.09	8,643.00	89.62	85.60	96.17	-5,068.68	-2,010.95	1,312.80	1,190.15	122.65	10.704	
13,600.00	8,480.00	13,780.09	8,643.00	91.17	87.14	96.17	-5,168.67	-2,009.97	1,312.81	1,187.99	124.83	10.517	
13,700.00	8,480.00	13,880.09	8,643.00	92.72	88.67	96.17	-5,268.67	-2,008.99	1,312.83	1,185.82	127.01	10.336	
13,800.00	8,480.00	13,980.09	8,643.00	94.27	90.21	96.17	-5,368.66	-2,008.01	1,312.84	1,183.64	129.20	10.162	
13,900.00	8,480.00	14,080.09	8,643.00	95.83	91.75	96.17	-5,468.66	-2,007.03	1,312.85	1,181.47	131.39	9.992	
14,000.00	8,480.00	14,180.09	8,643.00	97.39	93.30	96.17	-5,568.65	-2,006.06	1,312.87	1,179.28	133.58	9.828	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	8,480.00	14,280.09	8,643.00	98.95	94.85	96.17	-5,668.65	-2,005.08	1,312.88	1,177.10	135.78	9.669	
14,200.00	8,480.00	14,380.09	8,643.00	100.52	96.41	96.17	-5,768.64	-2,004.10	1,312.89	1,174.91	137.99	9.515	
14,300.00	8,480.00	14,480.09	8,643.00	102.09	97.96	96.17	-5,868.64	-2,003.12	1,312.91	1,172.71	140.19	9.365	
14,400.00	8,480.00	14,580.09	8,643.00	103.66	99.52	96.17	-5,968.64	-2,002.14	1,312.92	1,170.52	142.41	9.220	
14,500.00	8,480.00	14,680.09	8,643.00	105.23	101.09	96.17	-6,068.63	-2,001.16	1,312.94	1,168.31	144.62	9.078	
14,600.00	8,480.00	14,780.09	8,643.00	106.81	102.65	96.16	-6,168.63	-2,000.18	1,312.95	1,166.11	146.84	8.941	
14,700.00	8,480.00	14,880.09	8,643.00	108.39	104.22	96.16	-6,268.62	-1,999.20	1,312.96	1,163.90	149.06	8.808	
14,800.00	8,480.00	14,980.09	8,643.00	109.97	105.79	96.16	-6,368.62	-1,998.22	1,312.98	1,161.69	151.29	8.679	
14,900.00	8,480.00	15,080.09	8,643.00	111.55	107.37	96.16	-6,468.61	-1,997.24	1,312.99	1,159.48	153.51	8.553	
15,000.00	8,480.00	15,180.09	8,643.00	113.13	108.94	96.16	-6,568.61	-1,996.26	1,313.00	1,157.26	155.74	8.431	
15,100.00	8,480.00	15,280.09	8,643.00	114.72	110.52	96.16	-6,668.60	-1,995.28	1,313.02	1,155.04	157.98	8.311	
15,200.00	8,480.00	15,380.09	8,643.00	116.31	112.10	96.16	-6,768.60	-1,994.30	1,313.03	1,152.82	160.21	8.196	
15,300.00	8,480.00	15,480.09	8,643.00	117.90	113.68	96.16	-6,868.59	-1,993.32	1,313.04	1,150.59	162.45	8.083	
15,400.00	8,480.00	15,580.09	8,643.00	119.49	115.26	96.16	-6,968.59	-1,992.34	1,313.06	1,148.37	164.69	7.973	
15,500.00	8,480.00	15,680.09	8,643.00	121.08	116.85	96.16	-7,068.58	-1,991.37	1,313.07	1,146.14	166.93	7.866	
15,600.00	8,480.00	15,780.09	8,643.00	122.68	118.44	96.16	-7,168.58	-1,990.39	1,313.08	1,143.91	169.18	7.762	
15,700.00	8,480.00	15,880.09	8,643.00	124.27	120.03	96.16	-7,268.57	-1,989.41	1,313.10	1,141.67	171.42	7.660	
15,800.00	8,480.00	15,980.09	8,643.00	125.87	121.62	96.16	-7,368.57	-1,988.43	1,313.11	1,139.44	173.67	7.561	
15,900.00	8,480.00	16,080.09	8,643.00	127.47	123.21	96.16	-7,468.56	-1,987.45	1,313.12	1,137.20	175.92	7.464	
16,000.00	8,480.00	16,180.09	8,643.00	129.07	124.80	96.16	-7,568.56	-1,986.47	1,313.14	1,134.96	178.17	7.370	
16,100.00	8,480.00	16,280.09	8,643.00	130.67	126.40	96.16	-7,668.55	-1,985.49	1,313.15	1,132.72	180.43	7.278	
16,200.00	8,480.00	16,380.09	8,643.00	132.27	128.00	96.16	-7,768.55	-1,984.51	1,313.16	1,130.48	182.68	7.188	
16,300.00	8,480.00	16,480.09	8,643.00	133.88	129.59	96.16	-7,868.54	-1,983.53	1,313.18	1,128.24	184.94	7.101	
16,400.00	8,480.00	16,580.09	8,643.00	135.48	131.19	96.16	-7,968.54	-1,982.55	1,313.19	1,125.99	187.20	7.015	
16,500.00	8,480.00	16,680.09	8,643.00	137.09	132.80	96.16	-8,068.53	-1,981.57	1,313.20	1,123.75	189.46	6.931	
16,600.00	8,480.00	16,780.09	8,643.00	138.70	134.40	96.16	-8,168.53	-1,980.59	1,313.22	1,121.50	191.72	6.850	
16,700.00	8,480.00	16,880.09	8,643.00	140.30	136.00	96.16	-8,268.53	-1,979.61	1,313.23	1,119.25	193.98	6.770	
16,800.00	8,480.00	16,980.09	8,643.00	141.91	137.60	96.16	-8,368.52	-1,978.63	1,313.25	1,117.00	196.25	6.692	
16,900.00	8,480.00	17,080.09	8,643.00	143.52	139.21	96.16	-8,468.52	-1,977.65	1,313.26	1,114.74	198.51	6.615	
17,000.00	8,480.00	17,180.09	8,643.00	145.13	140.82	96.16	-8,568.51	-1,976.68	1,313.27	1,112.49	200.78	6.541	
17,100.00	8,480.00	17,280.09	8,643.00	146.75	142.42	96.16	-8,668.51	-1,975.70	1,313.29	1,110.24	203.05	6.468	
17,200.00	8,480.00	17,380.09	8,643.00	148.36	144.03	96.16	-8,768.50	-1,974.72	1,313.30	1,107.98	205.32	6.396	
17,300.00	8,480.00	17,480.09	8,643.00	149.97	145.64	96.16	-8,868.50	-1,973.74	1,313.31	1,105.72	207.59	6.326	
17,400.00	8,480.00	17,580.09	8,643.00	151.59	147.25	96.16	-8,968.49	-1,972.76	1,313.33	1,103.46	209.86	6.258	
17,500.00	8,480.00	17,680.09	8,643.00	153.20	148.86	96.16	-9,068.49	-1,971.78	1,313.34	1,101.20	212.14	6.191	
17,600.00	8,480.00	17,780.09	8,643.00	154.82	150.48	96.16	-9,168.48	-1,970.80	1,313.35	1,098.94	214.41	6.125	
17,700.00	8,480.00	17,880.09	8,643.00	156.44	152.09	96.16	-9,268.48	-1,969.82	1,313.37	1,096.68	216.68	6.061	
17,800.00	8,480.00	17,980.09	8,643.00	158.05	153.70	96.16	-9,368.47	-1,968.84	1,313.38	1,094.42	218.96	5.998	
17,900.00	8,480.00	18,080.09	8,643.00	159.67	155.32	96.16	-9,468.47	-1,967.86	1,313.39	1,092.16	221.24	5.937	
18,000.00	8,480.00	18,180.09	8,643.00	161.29	156.93	96.16	-9,568.46	-1,966.88	1,313.41	1,089.89	223.51	5.876	
18,100.00	8,480.00	18,280.09	8,643.00	162.91	158.55	96.16	-9,668.46	-1,965.90	1,313.42	1,087.63	225.79	5.817	
18,200.00	8,480.00	18,380.09	8,643.00	164.53	160.17	96.16	-9,768.45	-1,964.92	1,313.43	1,085.36	228.07	5.759	
18,300.00	8,480.00	18,480.09	8,643.00	166.15	161.78	96.16	-9,868.45	-1,963.94	1,313.45	1,083.10	230.35	5.702	
18,400.00	8,480.00	18,580.09	8,643.00	167.77	163.40	96.16	-9,968.44	-1,962.96	1,313.46	1,080.83	232.63	5.646	
18,500.00	8,480.00	18,680.09	8,643.00	169.40	165.02	96.16	-10,068.44	-1,961.99	1,313.47	1,078.56	234.91	5.591	
18,600.00	8,480.00	18,780.09	8,643.00	171.02	166.64	96.16	-10,168.43	-1,961.01	1,313.49	1,076.29	237.19	5.538	
18,700.00	8,480.00	18,880.09	8,643.00	172.64	168.26	96.16	-10,268.43	-1,960.03	1,313.50	1,074.02	239.48	5.485	
18,800.00	8,480.00	18,980.09	8,643.00	174.26	169.88	96.16	-10,368.42	-1,959.05	1,313.52	1,071.75	241.76	5.433	
18,900.00	8,480.00	19,080.09	8,643.00	175.89	171.50	96.16	-10,468.42	-1,958.07	1,313.53	1,069.48	244.05	5.382	
19,000.00	8,480.00	19,180.09	8,643.00	177.51	173.12	96.16	-10,568.41	-1,957.09	1,313.54	1,067.21	246.33	5.332	
19,100.00	8,480.00	19,280.09	8,643.00	179.14	174.75	96.16	-10,668.41	-1,956.11	1,313.56	1,064.94	248.62	5.283	
19,200.00	8,480.00	19,380.09	8,643.00	180.76	176.37	96.16	-10,768.41	-1,955.13	1,313.57	1,062.67	250.90	5.235	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,300.00	8,480.00	19,480.09	8,643.00	182.39	177.99	96.16	-10,868.40	-1,954.15	1,313.58	1,060.39	253.19	5.188	
19,400.00	8,480.00	19,580.09	8,643.00	184.02	179.62	96.16	-10,968.40	-1,953.17	1,313.60	1,058.12	255.48	5.142	
19,500.00	8,480.00	19,680.09	8,643.00	185.64	181.24	96.16	-11,068.39	-1,952.19	1,313.61	1,055.84	257.77	5.096	
19,600.00	8,480.00	19,780.09	8,643.00	187.27	182.87	96.16	-11,168.39	-1,951.21	1,313.62	1,053.57	260.05	5.051	
19,700.00	8,480.00	19,880.09	8,643.00	188.90	184.49	96.16	-11,268.38	-1,950.23	1,313.64	1,051.29	262.34	5.007	
19,800.00	8,480.00	19,980.09	8,643.00	190.53	186.12	96.16	-11,368.38	-1,949.25	1,313.65	1,049.02	264.63	4.964	
19,804.48	8,480.00	19,984.56	8,643.00	190.60	186.19	96.16	-11,372.85	-1,949.21	1,313.65	1,048.91	264.74	4.962	
19,899.80	8,480.00	20,078.25	8,643.00	192.15	187.71	96.16	-11,466.54	-1,948.29	1,313.66	1,046.76	266.90	4.922	ES, SF

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	22.00	22.00	0.00	0.03	-97.79	-391.78	-2,862.03	2,888.72				
100.00	100.00	122.00	122.00	0.13	0.20	-97.79	-391.78	-2,862.03	2,888.72	2,888.48	0.24	N/A	
200.00	200.00	222.00	222.00	0.48	0.56	-97.79	-391.78	-2,862.03	2,888.72	2,887.98	0.74	3,891.832	
300.00	300.00	322.00	322.00	0.84	0.92	-97.79	-391.78	-2,862.03	2,888.72	2,887.47	1.25	2,314.021	
400.00	400.00	422.00	422.00	1.20	1.28	-97.79	-391.78	-2,862.03	2,888.72	2,886.97	1.75	1,646.041	
500.00	500.00	522.00	522.00	1.56	1.64	-97.79	-391.78	-2,862.03	2,888.72	2,886.46	2.26	1,277.231	
600.00	600.00	622.00	622.00	1.92	2.00	-97.79	-391.78	-2,862.03	2,888.72	2,885.95	2.77	1,043.411	
700.00	700.00	722.00	722.00	2.28	2.36	-97.79	-391.78	-2,862.03	2,888.72	2,885.45	3.28	881.943	
800.00	800.00	822.00	822.00	2.63	2.71	-97.79	-391.78	-2,862.03	2,888.72	2,884.94	3.78	763.748	
900.00	900.00	922.00	922.00	2.99	3.07	-97.79	-391.78	-2,862.03	2,888.72	2,884.43	4.29	673.487	
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-97.79	-391.78	-2,862.03	2,888.72	2,883.93	4.80	602.304	
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-97.79	-391.78	-2,862.03	2,888.72	2,883.42	5.30	544.729	
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-97.79	-391.78	-2,862.03	2,888.72	2,882.91	5.81	497.201	
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-97.79	-391.78	-2,862.03	2,888.72	2,882.41	6.32	457.300	
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-97.79	-391.78	-2,862.03	2,888.72	2,881.90	6.82	423.328	
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-97.79	-391.78	-2,862.03	2,888.72	2,881.39	7.33	394.054	
1,600.00	1,600.00	1,622.00	1,622.00	5.50	5.58	-97.79	-391.78	-2,862.03	2,888.72	2,880.89	7.84	368.566	
1,700.00	1,700.00	1,722.00	1,722.00	5.86	5.94	-97.79	-391.78	-2,862.03	2,888.72	2,880.38	8.34	346.176	
1,800.00	1,800.00	1,822.00	1,822.00	6.22	6.30	-97.79	-391.78	-2,862.03	2,888.72	2,879.87	8.85	326.350	
1,900.00	1,900.00	1,922.00	1,922.00	6.58	6.66	-97.79	-391.78	-2,862.03	2,888.72	2,879.36	9.36	308.672	
2,000.00	2,000.00	2,022.00	2,022.00	6.94	7.02	-97.79	-391.78	-2,862.03	2,888.72	2,878.86	9.87	292.810	
2,100.00	2,099.99	2,116.51	2,116.51	7.29	7.35	-19.01	-391.75	-2,862.05	2,887.51	2,877.15	10.35	278.903	
2,200.00	2,199.91	2,200.00	2,199.99	7.63	7.65	-19.02	-390.69	-2,862.76	2,884.43	2,873.62	10.81	266.897	
2,300.00	2,299.69	2,266.55	2,266.50	7.98	7.89	-19.03	-388.77	-2,864.06	2,879.71	2,868.50	11.22	256.710	
2,400.00	2,399.27	2,341.51	2,341.34	8.34	8.16	-19.04	-385.44	-2,866.29	2,873.40	2,861.75	11.65	246.645	
2,500.00	2,498.57	2,416.37	2,416.01	8.69	8.42	-19.04	-380.91	-2,869.33	2,865.49	2,853.41	12.08	237.160	
2,600.00	2,597.54	2,500.00	2,499.27	9.06	8.72	-19.02	-374.41	-2,873.69	2,855.99	2,843.45	12.54	227.769	
2,616.45	2,613.78	2,500.00	2,499.27	9.12	8.72	-19.03	-374.41	-2,873.69	2,854.25	2,841.68	12.58	226.914	
2,700.00	2,696.24	2,565.80	2,564.64	9.43	8.96	-18.96	-368.23	-2,877.84	2,845.72	2,832.77	12.95	219.740	
2,800.00	2,794.94	2,640.44	2,638.64	9.81	9.23	-18.86	-360.09	-2,883.30	2,836.30	2,822.91	13.39	211.877	
2,900.00	2,893.64	2,727.92	2,725.15	10.19	9.55	-18.72	-349.31	-2,890.54	2,827.65	2,813.79	13.86	204.008	
3,000.00	2,992.34	2,827.21	2,823.31	10.58	9.92	-18.55	-336.92	-2,898.85	2,819.13	2,804.76	14.37	196.176	
3,100.00	3,091.04	2,926.50	2,921.48	10.97	10.30	-18.38	-324.53	-2,907.16	2,810.63	2,795.74	14.88	188.837	
3,200.00	3,189.74	3,025.79	3,019.64	11.37	10.68	-18.21	-312.15	-2,915.48	2,802.15	2,786.75	15.40	181.951	
3,300.00	3,288.45	3,125.08	3,117.80	11.77	11.06	-18.04	-299.76	-2,923.79	2,793.70	2,777.78	15.92	175.483	
3,400.00	3,387.15	3,224.37	3,215.96	12.17	11.44	-17.87	-287.37	-2,932.11	2,785.27	2,768.83	16.44	169.399	
3,500.00	3,485.85	3,323.66	3,314.12	12.58	11.83	-17.69	-274.98	-2,940.42	2,776.87	2,759.91	16.97	163.670	
3,600.00	3,584.55	3,422.95	3,412.29	12.98	12.22	-17.52	-262.60	-2,948.73	2,768.50	2,751.01	17.49	158.266	
3,700.00	3,683.25	3,522.24	3,510.45	13.39	12.61	-17.34	-250.21	-2,957.05	2,760.15	2,742.13	18.02	153.165	
3,800.00	3,781.95	3,621.52	3,608.61	13.80	13.01	-17.16	-237.82	-2,965.36	2,751.83	2,733.28	18.55	148.342	
3,900.00	3,880.65	3,720.81	3,706.77	14.22	13.40	-16.99	-225.43	-2,973.68	2,743.53	2,724.45	19.08	143.777	
4,000.00	3,979.35	3,820.10	3,804.93	14.63	13.80	-16.81	-213.04	-2,981.99	2,735.26	2,715.65	19.61	139.452	
4,100.00	4,078.05	3,919.39	3,903.10	15.05	14.20	-16.63	-200.66	-2,990.30	2,727.02	2,706.87	20.15	135.348	
4,200.00	4,176.75	4,018.68	4,001.26	15.47	14.60	-16.45	-188.27	-2,998.62	2,718.80	2,698.12	20.68	131.451	
4,300.00	4,275.45	4,117.97	4,099.42	15.89	15.00	-16.26	-175.88	-3,006.93	2,710.62	2,689.40	21.22	127.746	
4,400.00	4,374.15	4,217.26	4,197.58	16.31	15.41	-16.08	-163.49	-3,015.24	2,702.45	2,680.70	21.76	124.220	
4,500.00	4,472.85	4,316.55	4,295.74	16.73	15.81	-15.90	-151.11	-3,023.56	2,694.32	2,672.03	22.29	120.861	
4,600.00	4,571.55	4,415.84	4,393.91	17.15	16.22	-15.71	-138.72	-3,031.87	2,686.22	2,663.39	22.83	117.657	
4,700.00	4,670.25	4,515.13	4,492.07	17.57	16.62	-15.52	-126.33	-3,040.19	2,678.14	2,654.77	23.37	114.599	
4,800.00	4,768.95	4,614.42	4,590.23	18.00	17.03	-15.34	-113.94	-3,048.50	2,670.09	2,646.18	23.91	111.678	
4,900.00	4,867.65	4,713.71	4,688.39	18.42	17.44	-15.15	-101.55	-3,056.81	2,662.07	2,637.63	24.45	108.885	
5,000.00	4,966.35	4,813.00	4,786.55	18.85	17.85	-14.96	-89.17	-3,065.13	2,654.08	2,629.10	24.99	106.211	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.05	4,912.29	4,884.72	19.28	18.26	-14.77	-76.78	-3,073.44	2,646.12	2,620.59	25.53	103.651	
5,200.00	5,163.76	5,011.57	4,982.88	19.70	18.67	-14.57	-64.39	-3,081.76	2,638.19	2,612.12	26.07	101.196	
5,300.00	5,262.46	5,110.86	5,081.04	20.13	19.08	-14.38	-52.00	-3,090.07	2,630.29	2,603.68	26.61	98.841	
5,400.00	5,361.16	5,210.15	5,179.20	20.56	19.49	-14.19	-39.62	-3,098.38	2,622.42	2,595.27	27.15	96.581	
5,500.00	5,459.86	5,309.44	5,277.36	20.99	19.90	-13.99	-27.23	-3,106.70	2,614.58	2,586.89	27.69	94.409	
5,600.00	5,558.56	5,408.73	5,375.53	21.42	20.31	-13.79	-14.84	-3,115.01	2,606.77	2,578.54	28.24	92.321	
5,700.00	5,657.26	5,508.02	5,473.69	21.85	20.73	-13.60	-2.45	-3,123.33	2,598.99	2,570.22	28.78	90.312	
5,800.00	5,755.96	5,607.31	5,571.85	22.28	21.14	-13.40	9.93	-3,131.64	2,591.25	2,561.93	29.32	88.378	
5,900.00	5,854.66	5,706.60	5,670.01	22.71	21.55	-13.20	22.32	-3,139.95	2,583.53	2,553.67	29.86	86.516	
6,000.00	5,953.36	5,805.89	5,768.17	23.14	21.97	-12.99	34.71	-3,148.27	2,575.85	2,545.44	30.40	84.720	
6,100.00	6,052.06	5,905.18	5,866.34	23.57	22.38	-12.79	47.10	-3,156.58	2,568.20	2,537.25	30.95	82.988	
6,200.00	6,150.76	6,004.47	5,964.50	24.01	22.80	-12.59	59.49	-3,164.90	2,560.58	2,529.09	31.49	81.317	
6,300.00	6,249.46	6,103.76	6,062.66	24.44	23.21	-12.38	71.87	-3,173.21	2,552.99	2,520.96	32.03	79.704	
6,400.00	6,348.16	6,203.05	6,160.82	24.87	23.63	-12.18	84.26	-3,181.52	2,545.44	2,512.87	32.57	78.145	
6,500.00	6,446.86	6,302.34	6,258.98	25.30	24.05	-11.97	96.65	-3,189.84	2,537.92	2,504.80	33.12	76.639	
6,600.00	6,545.56	6,401.62	6,357.15	25.74	24.46	-11.76	109.04	-3,198.15	2,530.43	2,496.78	33.66	75.182	
6,700.00	6,644.26	6,500.91	6,455.31	26.17	24.88	-11.55	121.42	-3,206.47	2,522.98	2,488.78	34.20	73.773	
6,804.31	6,747.22	6,604.48	6,557.70	26.62	25.31	-11.33	134.35	-3,215.14	2,515.24	2,480.48	34.76	72.350	
6,900.00	6,841.85	6,699.55	6,651.69	27.03	25.71	-11.10	146.21	-3,223.10	2,509.35	2,474.07	35.28	71.123	
7,000.00	6,941.09	6,798.97	6,749.98	27.44	26.13	-10.86	158.61	-3,231.42	2,505.75	2,469.93	35.82	69.954	
7,100.00	7,040.61	6,911.79	6,861.54	27.83	26.60	-10.59	172.55	-3,240.78	2,504.69	2,468.30	36.39	68.826	
7,192.72	7,133.10	7,059.42	7,008.06	28.17	27.20	-10.29	187.48	-3,250.80	2,504.59	2,467.57	37.02	67.649	CC
7,200.00	7,140.36	7,071.03	7,019.62	28.20	27.24	-10.27	188.45	-3,251.45	2,504.59	2,467.52	37.07	67.561	
7,300.00	7,240.26	7,231.00	7,179.08	28.55	27.85	-10.07	198.91	-3,258.47	2,504.71	2,466.99	37.72	66.411	
7,400.00	7,340.24	7,391.41	7,339.37	28.88	28.41	-9.97	203.82	-3,261.76	2,505.00	2,466.68	38.32	65.370	
7,420.77	7,361.00	7,424.75	7,372.71	28.95	28.52	-88.76	204.14	-3,261.98	2,505.08	2,466.64	38.44	65.168	
7,500.00	7,440.24	7,514.28	7,462.24	29.20	28.81	-88.76	204.22	-3,262.03	2,505.12	2,466.29	38.83	64.509	
7,600.00	7,540.24	7,614.28	7,562.24	29.52	29.14	-88.76	204.22	-3,262.03	2,505.12	2,465.81	39.31	63.727	
7,700.00	7,640.24	7,714.28	7,662.24	29.84	29.47	-88.76	204.22	-3,262.03	2,505.12	2,465.33	39.79	62.962	
7,800.00	7,740.24	7,814.28	7,762.24	30.16	29.80	-88.76	204.22	-3,262.03	2,505.12	2,464.85	40.27	62.214	
7,900.00	7,840.24	7,914.28	7,862.24	30.48	30.13	-88.76	204.22	-3,262.03	2,505.12	2,464.37	40.74	61.483	
7,966.81	7,907.04	7,981.09	7,929.04	30.69	30.35	-88.76	204.22	-3,262.03	2,505.12	2,464.05	41.06	61.004	
8,000.00	7,940.22	8,014.26	7,962.22	30.79	30.46	91.83	204.22	-3,262.03	2,505.15	2,463.93	41.22	60.774	
8,050.00	7,989.94	8,063.99	8,011.94	30.94	30.62	91.93	204.22	-3,262.03	2,505.32	2,463.87	41.45	60.448	ES
8,100.00	8,039.04	8,113.08	8,061.04	31.08	30.78	92.10	204.22	-3,262.03	2,505.65	2,463.99	41.66	60.141	
8,150.00	8,087.13	8,161.17	8,109.13	31.21	30.94	92.35	204.22	-3,262.03	2,506.20	2,464.33	41.87	59.855	
8,200.00	8,133.85	8,207.90	8,155.85	31.33	31.10	92.64	204.22	-3,262.03	2,507.03	2,464.96	42.07	59.590	
8,250.00	8,178.84	8,252.89	8,200.84	31.45	31.25	92.97	204.22	-3,262.03	2,508.22	2,465.96	42.26	59.348	
8,300.00	8,221.77	8,295.82	8,243.77	31.55	31.39	93.31	204.22	-3,262.03	2,509.86	2,467.41	42.45	59.130	
8,350.00	8,262.30	8,336.35	8,284.30	31.65	31.52	93.63	204.22	-3,262.03	2,512.05	2,469.42	42.62	58.934	
8,400.00	8,300.13	8,374.17	8,322.13	31.74	31.65	93.91	204.22	-3,262.03	2,514.89	2,472.09	42.80	58.762	
8,450.00	8,334.96	8,409.01	8,356.96	31.82	31.77	94.12	204.22	-3,262.03	2,518.50	2,475.53	42.97	58.613	
8,500.00	8,366.54	8,440.59	8,388.54	31.89	31.87	94.23	204.22	-3,262.03	2,522.96	2,479.82	43.14	58.487	
8,550.00	8,394.62	8,468.67	8,416.62	31.96	31.97	94.21	204.22	-3,262.03	2,528.37	2,485.07	43.31	58.385	
8,600.00	8,418.99	8,493.04	8,440.99	32.03	32.05	94.05	204.22	-3,262.03	2,534.80	2,491.33	43.47	58.306	
8,650.00	8,439.47	8,513.51	8,461.47	32.11	32.11	93.72	204.22	-3,262.03	2,542.30	2,498.66	43.65	58.249	
8,700.00	8,455.89	8,529.93	8,477.89	32.19	32.17	93.20	204.22	-3,262.03	2,550.90	2,507.08	43.82	58.215	
8,750.00	8,468.13	8,542.18	8,490.13	32.29	32.21	92.48	204.22	-3,262.03	2,560.61	2,516.61	43.99	58.204	
8,800.00	8,476.11	8,550.15	8,498.11	32.40	32.24	91.56	204.22	-3,262.03	2,571.39	2,527.22	44.17	58.215	
8,850.00	8,479.75	8,553.80	8,501.75	32.54	32.25	90.43	204.22	-3,262.03	2,583.20	2,538.85	44.35	58.249	
8,866.81	8,480.00	8,554.04	8,502.00	32.59	32.25	90.00	204.22	-3,262.03	2,587.38	2,542.97	44.41	58.265	
8,900.00	8,480.00	8,554.04	8,502.00	32.70	32.25	90.00	204.22	-3,262.03	2,595.94	2,551.42	44.53	58.300	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	8,480.00	8,554.04	8,502.00	33.09	32.25	90.00	204.22	-3,262.03	2,624.11	2,579.18	44.94	58.396	
9,100.00	8,480.00	8,554.04	8,502.00	33.57	32.25	90.00	204.22	-3,262.03	2,655.75	2,610.35	45.40	58.494	
9,200.00	8,480.00	8,554.04	8,502.00	34.14	32.25	90.00	204.22	-3,262.03	2,690.74	2,644.82	45.92	58.602	
9,300.00	8,480.00	8,554.04	8,502.00	34.79	32.25	90.00	204.22	-3,262.03	2,728.94	2,682.47	46.47	58.730	
9,400.00	8,480.00	8,554.04	8,502.00	35.50	32.25	90.00	204.22	-3,262.03	2,770.23	2,723.18	47.05	58.883	
9,500.00	8,480.00	8,554.04	8,502.00	36.28	32.25	90.00	204.22	-3,262.03	2,814.46	2,766.82	47.65	59.069	
9,600.00	8,480.00	8,554.04	8,502.00	37.11	32.25	90.00	204.22	-3,262.03	2,861.51	2,813.25	48.26	59.293	
9,700.00	8,480.00	8,554.04	8,502.00	38.01	32.25	90.00	204.22	-3,262.03	2,911.24	2,862.36	48.88	59.558	
9,800.00	8,480.00	8,554.04	8,502.00	38.95	32.25	90.00	204.22	-3,262.03	2,963.50	2,914.00	49.50	59.866	
9,900.00	8,480.00	8,554.04	8,502.00	39.94	32.25	90.00	204.22	-3,262.03	3,018.18	2,968.06	50.12	60.219	
10,000.00	8,480.00	8,554.04	8,502.00	40.97	32.25	90.00	204.22	-3,262.03	3,075.13	3,024.40	50.73	60.618	
10,100.00	8,480.00	8,554.04	8,502.00	42.04	32.25	90.00	204.22	-3,262.03	3,134.24	3,082.92	51.33	61.063	
10,200.00	8,480.00	8,554.04	8,502.00	43.14	32.25	90.00	204.22	-3,262.03	3,195.39	3,143.48	51.91	61.553	
10,300.00	8,480.00	8,554.04	8,502.00	44.29	32.25	90.00	204.22	-3,262.03	3,258.46	3,205.99	52.48	62.091	
10,400.00	8,480.00	12,609.93	10,619.00	45.46	47.69	130.21	-1,980.47	-3,240.72	3,279.17	3,227.02	52.16	62.873	
10,500.00	8,480.00	12,709.93	10,619.00	46.66	48.70	130.21	-2,080.47	-3,239.75	3,279.19	3,225.75	53.44	61.361	
10,600.00	8,480.00	12,809.93	10,619.00	47.89	49.74	130.21	-2,180.47	-3,238.77	3,279.20	3,224.44	54.76	59.880	
10,700.00	8,480.00	12,909.93	10,619.00	49.14	50.82	130.21	-2,280.46	-3,237.80	3,279.21	3,223.09	56.12	58.434	
10,800.00	8,480.00	13,009.93	10,619.00	50.42	51.93	130.21	-2,380.46	-3,236.82	3,279.23	3,221.72	57.50	57.026	
10,900.00	8,480.00	13,109.93	10,619.00	51.72	53.06	130.21	-2,480.45	-3,235.85	3,279.24	3,220.32	58.92	55.657	
11,000.00	8,480.00	13,209.93	10,619.00	53.03	54.22	130.21	-2,580.45	-3,234.87	3,279.25	3,218.89	60.36	54.327	
11,100.00	8,480.00	13,309.93	10,619.00	54.37	55.41	130.21	-2,680.44	-3,233.89	3,279.27	3,217.44	61.83	53.037	
11,200.00	8,480.00	13,409.93	10,619.00	55.72	56.62	130.21	-2,780.44	-3,232.92	3,279.28	3,215.96	63.32	51.787	
11,300.00	8,480.00	13,509.93	10,619.00	57.09	57.85	130.21	-2,880.43	-3,231.94	3,279.29	3,214.46	64.84	50.578	
11,400.00	8,480.00	13,609.93	10,619.00	58.47	59.10	130.21	-2,980.43	-3,230.97	3,279.31	3,212.94	66.37	49.409	
11,500.00	8,480.00	13,709.93	10,619.00	59.86	60.37	130.21	-3,080.42	-3,229.99	3,279.32	3,211.40	67.92	48.279	
11,600.00	8,480.00	13,809.93	10,619.00	61.27	61.66	130.21	-3,180.42	-3,229.02	3,279.33	3,209.84	69.50	47.187	
11,700.00	8,480.00	13,909.93	10,619.00	62.69	62.96	130.21	-3,280.41	-3,228.04	3,279.35	3,208.26	71.08	46.134	
11,800.00	8,480.00	14,009.93	10,619.00	64.13	64.28	130.21	-3,380.41	-3,227.07	3,279.36	3,206.68	72.68	45.118	
11,900.00	8,480.00	14,109.93	10,619.00	65.57	65.62	130.21	-3,480.40	-3,226.09	3,279.37	3,205.07	74.30	44.137	
12,000.00	8,480.00	14,209.93	10,619.00	67.02	66.97	130.21	-3,580.40	-3,225.12	3,279.39	3,203.46	75.93	43.189	
12,100.00	8,480.00	14,309.93	10,619.00	68.48	68.33	130.21	-3,680.39	-3,224.14	3,279.40	3,201.83	77.57	42.275	
12,200.00	8,480.00	14,409.93	10,619.00	69.95	69.71	130.21	-3,780.39	-3,223.17	3,279.41	3,200.19	79.23	41.392	
12,300.00	8,480.00	14,509.93	10,619.00	71.42	71.10	130.21	-3,880.38	-3,222.19	3,279.43	3,198.53	80.89	40.540	
12,400.00	8,480.00	14,609.93	10,619.00	72.91	72.49	130.21	-3,980.38	-3,221.21	3,279.44	3,196.87	82.57	39.717	
12,500.00	8,480.00	14,709.93	10,619.00	74.40	73.90	130.21	-4,080.37	-3,220.24	3,279.45	3,195.20	84.25	38.923	
12,600.00	8,480.00	14,809.93	10,619.00	75.90	75.32	130.21	-4,180.37	-3,219.26	3,279.47	3,193.52	85.95	38.157	
12,700.00	8,480.00	14,909.93	10,619.00	77.40	76.75	130.21	-4,280.37	-3,218.29	3,279.48	3,191.83	87.65	37.416	
12,800.00	8,480.00	15,009.93	10,619.00	78.91	78.19	130.21	-4,380.36	-3,217.31	3,279.49	3,190.13	89.36	36.699	
12,900.00	8,480.00	15,109.93	10,619.00	80.43	79.63	130.20	-4,480.36	-3,216.34	3,279.51	3,188.43	91.08	36.007	
13,000.00	8,480.00	15,209.93	10,619.00	81.95	81.08	130.20	-4,580.35	-3,215.36	3,279.52	3,186.72	92.81	35.338	
13,100.00	8,480.00	15,309.93	10,619.00	83.47	82.54	130.20	-4,680.35	-3,214.39	3,279.53	3,185.00	94.54	34.690	
13,200.00	8,480.00	15,409.93	10,619.00	85.00	84.01	130.20	-4,780.34	-3,213.41	3,279.55	3,183.27	96.28	34.064	
13,300.00	8,480.00	15,509.93	10,619.00	86.54	85.48	130.20	-4,880.34	-3,212.44	3,279.56	3,181.54	98.02	33.459	
13,400.00	8,480.00	15,609.93	10,619.00	88.08	86.97	130.20	-4,980.33	-3,211.46	3,279.57	3,179.81	99.77	32.872	
13,500.00	8,480.00	15,709.93	10,619.00	89.62	88.45	130.20	-5,080.33	-3,210.49	3,279.59	3,178.06	101.52	32.304	
13,600.00	8,480.00	15,809.93	10,619.00	91.17	89.94	130.20	-5,180.32	-3,209.51	3,279.60	3,176.32	103.28	31.754	
13,700.00	8,480.00	15,909.93	10,619.00	92.72	91.44	130.20	-5,280.32	-3,208.53	3,279.61	3,174.57	105.05	31.220	
13,800.00	8,480.00	16,009.93	10,619.00	94.27	92.94	130.20	-5,380.31	-3,207.56	3,279.63	3,172.81	106.82	30.703	
13,900.00	8,480.00	16,109.93	10,619.00	95.83	94.45	130.20	-5,480.31	-3,206.58	3,279.64	3,171.05	108.59	30.202	
14,000.00	8,480.00	16,209.93	10,619.00	97.39	95.96	130.20	-5,580.30	-3,205.61	3,279.65	3,169.29	110.37	29.716	
14,100.00	8,480.00	16,309.93	10,619.00	98.95	97.48	130.20	-5,680.30	-3,204.63	3,279.67	3,167.52	112.15	29.244	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	8,480.00	16,409.93	10,619.00	100.52	99.00	130.20	-5,780.29	-3,203.66	3,279.68	3,165.75	113.93	28.786	
14,300.00	8,480.00	16,509.93	10,619.00	102.09	100.53	130.20	-5,880.29	-3,202.68	3,279.69	3,163.97	115.72	28.341	
14,400.00	8,480.00	16,609.93	10,619.00	103.66	102.06	130.20	-5,980.28	-3,201.71	3,279.71	3,162.19	117.51	27.909	
14,500.00	8,480.00	16,709.93	10,619.00	105.23	103.59	130.20	-6,080.28	-3,200.73	3,279.72	3,160.41	119.31	27.489	
14,600.00	8,480.00	16,809.93	10,619.00	106.81	105.13	130.20	-6,180.27	-3,199.76	3,279.73	3,158.63	121.11	27.082	
14,700.00	8,480.00	16,909.93	10,619.00	108.39	106.67	130.20	-6,280.27	-3,198.78	3,279.75	3,156.84	122.90	26.685	
14,800.00	8,480.00	17,009.93	10,619.00	109.97	108.21	130.20	-6,380.27	-3,197.81	3,279.76	3,155.05	124.71	26.300	
14,900.00	8,480.00	17,109.93	10,619.00	111.55	109.76	130.20	-6,480.26	-3,196.83	3,279.77	3,153.26	126.51	25.925	
15,000.00	8,480.00	17,209.93	10,619.00	113.13	111.31	130.20	-6,580.26	-3,195.85	3,279.79	3,151.47	128.32	25.559	
15,100.00	8,480.00	17,309.93	10,619.00	114.72	112.86	130.20	-6,680.25	-3,194.88	3,279.80	3,149.67	130.13	25.204	
15,200.00	8,480.00	17,409.93	10,619.00	116.31	114.41	130.20	-6,780.25	-3,193.90	3,279.82	3,147.87	131.94	24.858	
15,300.00	8,480.00	17,509.93	10,619.00	117.90	115.97	130.20	-6,880.24	-3,192.93	3,279.83	3,146.07	133.76	24.521	
15,400.00	8,480.00	17,609.93	10,619.00	119.49	117.53	130.20	-6,980.24	-3,191.95	3,279.84	3,144.27	135.57	24.192	
15,500.00	8,480.00	17,709.93	10,619.00	121.08	119.09	130.20	-7,080.23	-3,190.98	3,279.86	3,142.46	137.39	23.872	
15,600.00	8,480.00	17,809.93	10,619.00	122.68	120.66	130.20	-7,180.23	-3,190.00	3,279.87	3,140.66	139.21	23.560	
15,700.00	8,480.00	17,909.93	10,619.00	124.27	122.23	130.20	-7,280.22	-3,189.03	3,279.88	3,138.85	141.03	23.256	
15,800.00	8,480.00	18,009.93	10,619.00	125.87	123.80	130.20	-7,380.22	-3,188.05	3,279.90	3,137.04	142.86	22.959	
15,900.00	8,480.00	18,109.93	10,619.00	127.47	125.37	130.20	-7,480.21	-3,187.08	3,279.91	3,135.23	144.68	22.670	
16,000.00	8,480.00	18,209.93	10,619.00	129.07	126.94	130.20	-7,580.21	-3,186.10	3,279.92	3,133.42	146.50	22.388	
16,100.00	8,480.00	18,309.93	10,619.00	130.67	128.52	130.20	-7,680.20	-3,185.13	3,279.94	3,131.60	148.33	22.112	
16,200.00	8,480.00	18,409.93	10,619.00	132.27	130.09	130.20	-7,780.20	-3,184.15	3,279.95	3,129.79	150.16	21.843	
16,300.00	8,480.00	18,509.93	10,619.00	133.88	131.67	130.20	-7,880.19	-3,183.17	3,279.96	3,127.97	151.99	21.580	
16,400.00	8,480.00	18,609.93	10,619.00	135.48	133.26	130.20	-7,980.19	-3,182.20	3,279.98	3,126.15	153.82	21.323	
16,500.00	8,480.00	18,709.93	10,619.00	137.09	134.84	130.20	-8,080.18	-3,181.22	3,279.99	3,124.33	155.66	21.072	
16,600.00	8,480.00	18,809.93	10,619.00	138.70	136.42	130.20	-8,180.18	-3,180.25	3,280.00	3,122.51	157.49	20.827	
16,700.00	8,480.00	18,909.93	10,619.00	140.30	138.01	130.20	-8,280.18	-3,179.27	3,280.02	3,120.69	159.32	20.587	
16,800.00	8,480.00	19,009.93	10,619.00	141.91	139.60	130.20	-8,380.17	-3,178.30	3,280.03	3,118.87	161.16	20.353	
16,900.00	8,480.00	19,109.93	10,619.00	143.52	141.18	130.20	-8,480.17	-3,177.32	3,280.04	3,117.05	163.00	20.123	
17,000.00	8,480.00	19,209.93	10,619.00	145.13	142.77	130.20	-8,580.16	-3,176.35	3,280.06	3,115.22	164.83	19.899	
17,100.00	8,480.00	19,309.93	10,619.00	146.75	144.37	130.20	-8,680.16	-3,175.37	3,280.07	3,113.40	166.67	19.680	
17,200.00	8,480.00	19,409.93	10,619.00	148.36	145.96	130.20	-8,780.15	-3,174.40	3,280.08	3,111.57	168.51	19.465	
17,300.00	8,480.00	19,509.93	10,619.00	149.97	147.55	130.20	-8,880.15	-3,173.42	3,280.10	3,109.74	170.35	19.255	
17,400.00	8,480.00	19,609.93	10,619.00	151.59	149.15	130.20	-8,980.14	-3,172.45	3,280.11	3,107.92	172.19	19.049	
17,500.00	8,480.00	19,709.93	10,619.00	153.20	150.75	130.20	-9,080.14	-3,171.47	3,280.12	3,106.09	174.03	18.848	
17,600.00	8,480.00	19,809.93	10,619.00	154.82	152.34	130.20	-9,180.13	-3,170.49	3,280.14	3,104.26	175.88	18.650	
17,700.00	8,480.00	19,909.93	10,619.00	156.44	153.94	130.20	-9,280.13	-3,169.52	3,280.15	3,102.43	177.72	18.457	
17,800.00	8,480.00	20,009.93	10,619.00	158.05	155.54	130.20	-9,380.12	-3,168.54	3,280.16	3,100.60	179.56	18.267	
17,900.00	8,480.00	20,109.93	10,619.00	159.67	157.14	130.20	-9,480.12	-3,167.57	3,280.18	3,098.77	181.41	18.082	
18,000.00	8,480.00	20,209.93	10,619.00	161.29	158.75	130.19	-9,580.11	-3,166.59	3,280.19	3,096.94	183.25	17.900	
18,100.00	8,480.00	20,309.93	10,619.00	162.91	160.35	130.19	-9,680.11	-3,165.62	3,280.20	3,095.11	185.10	17.722	
18,200.00	8,480.00	20,409.93	10,619.00	164.53	161.95	130.19	-9,780.10	-3,164.64	3,280.22	3,093.28	186.94	17.547	
18,300.00	8,480.00	20,509.93	10,619.00	166.15	163.56	130.19	-9,880.10	-3,163.67	3,280.23	3,091.44	188.79	17.375	
18,400.00	8,480.00	20,609.93	10,619.00	167.77	165.17	130.19	-9,980.09	-3,162.69	3,280.24	3,089.61	190.63	17.207	
18,500.00	8,480.00	20,709.93	10,619.00	169.40	166.75	130.19	-10,080.09	-3,161.72	3,280.26	3,087.79	192.46	17.043	
18,502.16	8,480.00	20,712.08	10,619.00	169.43	166.78	130.19	-10,082.25	-3,161.70	3,280.26	3,087.76	192.50	17.040	
18,600.00	8,480.00	20,792.10	10,619.00	171.02	167.92	130.19	-10,162.26	-3,160.91	3,280.32	3,086.27	194.05	16.904	
18,700.00	8,480.00	20,792.10	10,619.00	172.64	167.92	130.19	-10,162.26	-3,160.91	3,282.40	3,087.29	195.11	16.824	
18,800.00	8,480.00	20,792.10	10,619.00	174.26	167.92	130.19	-10,162.26	-3,160.91	3,287.52	3,091.53	195.99	16.774	
18,900.00	8,480.00	20,792.10	10,619.00	175.89	167.92	130.19	-10,162.26	-3,160.91	3,295.67	3,098.96	196.71	16.754	SF
19,000.00	8,480.00	20,792.10	10,619.00	177.51	167.92	130.19	-10,162.26	-3,160.91	3,306.83	3,109.58	197.25	16.765	
19,100.00	8,480.00	20,792.10	10,619.00	179.14	167.92	130.19	-10,162.26	-3,160.91	3,320.96	3,123.33	197.63	16.804	
19,200.00	8,480.00	20,792.10	10,619.00	180.76	167.92	130.19	-10,162.26	-3,160.91	3,338.02	3,140.18	197.84	16.872	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,300.00	8,480.00	20,792.10	10,619.00	182.39	167.92	130.19	-10,162.26	-3,160.91	3,357.98	3,160.09	197.89	16.969	
19,400.00	8,480.00	20,792.10	10,619.00	184.02	167.92	130.19	-10,162.26	-3,160.91	3,380.78	3,183.00	197.78	17.093	
19,500.00	8,480.00	20,792.10	10,619.00	185.64	167.92	130.19	-10,162.26	-3,160.91	3,406.37	3,208.83	197.54	17.244	
19,600.00	8,480.00	20,792.10	10,619.00	187.27	167.92	130.19	-10,162.26	-3,160.91	3,434.68	3,237.53	197.14	17.422	
19,700.00	8,480.00	20,792.10	10,619.00	188.90	167.92	130.19	-10,162.26	-3,160.91	3,465.64	3,269.02	196.62	17.626	
19,800.00	8,480.00	20,792.10	10,619.00	190.53	167.92	130.19	-10,162.26	-3,160.91	3,499.19	3,303.22	195.97	17.856	
19,899.80	8,480.00	20,792.10	10,619.00	192.15	167.92	130.19	-10,162.26	-3,160.91	3,535.17	3,339.96	195.21	18.109	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	22.00	22.00	0.00	0.03	-97.86	-391.55	-2,836.94	2,863.84				
100.00	100.00	122.00	122.00	0.13	0.20	-97.86	-391.55	-2,836.94	2,863.84	2,863.60	0.24	N/A	
200.00	200.00	222.00	222.00	0.48	0.56	-97.86	-391.55	-2,836.94	2,863.84	2,863.09	0.74	3,858.302	
300.00	300.00	322.00	322.00	0.84	0.92	-97.86	-391.55	-2,836.94	2,863.84	2,862.59	1.25	2,294.085	
400.00	400.00	422.00	422.00	1.20	1.28	-97.86	-391.55	-2,836.94	2,863.84	2,862.08	1.75	1,631.860	
500.00	500.00	522.00	522.00	1.56	1.64	-97.86	-391.55	-2,836.94	2,863.84	2,861.57	2.26	1,266.227	
600.00	600.00	622.00	622.00	1.92	2.00	-97.86	-391.55	-2,836.94	2,863.84	2,861.07	2.77	1,034.422	
700.00	700.00	722.00	722.00	2.28	2.36	-97.86	-391.55	-2,836.94	2,863.84	2,860.56	3.28	874.345	
800.00	800.00	822.00	822.00	2.63	2.71	-97.86	-391.55	-2,836.94	2,863.84	2,860.05	3.78	757.168	
900.00	900.00	922.00	922.00	2.99	3.07	-97.86	-391.55	-2,836.94	2,863.84	2,859.55	4.29	667.684	
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-97.86	-391.55	-2,836.94	2,863.84	2,859.04	4.80	597.115	
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-97.86	-391.55	-2,836.94	2,863.84	2,858.53	5.30	540.036	
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-97.86	-391.55	-2,836.94	2,863.84	2,858.03	5.81	492.917	
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-97.86	-391.55	-2,836.94	2,863.84	2,857.52	6.32	453.360	
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-97.86	-391.55	-2,836.94	2,863.84	2,857.01	6.82	419.681	
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-97.86	-391.55	-2,836.94	2,863.84	2,856.50	7.33	390.659	
1,600.00	1,600.00	1,622.00	1,622.00	5.50	5.58	-97.86	-391.55	-2,836.94	2,863.84	2,856.00	7.84	365.391	
1,700.00	1,700.00	1,722.00	1,722.00	5.86	5.94	-97.86	-391.55	-2,836.94	2,863.84	2,855.49	8.34	343.193	
1,800.00	1,800.00	1,822.00	1,822.00	6.22	6.30	-97.86	-391.55	-2,836.94	2,863.84	2,854.98	8.85	323.538	
1,900.00	1,900.00	1,922.00	1,922.00	6.58	6.66	-97.86	-391.55	-2,836.94	2,863.84	2,854.48	9.36	306.012	
2,000.00	2,000.00	2,022.00	2,022.00	6.94	7.02	-97.86	-391.55	-2,836.94	2,863.84	2,853.97	9.87	290.288	
2,100.00	2,099.99	2,121.99	2,121.99	7.29	7.37	-19.07	-391.55	-2,836.94	2,862.60	2,852.23	10.37	276.118	
2,200.00	2,199.91	2,221.91	2,221.91	7.63	7.73	-19.12	-391.55	-2,836.94	2,858.89	2,848.02	10.86	263.137	
2,300.00	2,299.69	2,360.02	2,360.02	7.98	8.23	-19.21	-391.25	-2,836.58	2,852.56	2,841.10	11.46	248.952	
2,400.00	2,399.27	2,633.32	2,632.90	8.34	9.19	-19.29	-382.37	-2,825.67	2,839.54	2,827.17	12.37	229.539	
2,500.00	2,498.57	2,899.57	2,897.11	8.69	10.15	-19.26	-361.89	-2,800.53	2,818.13	2,804.89	13.24	212.869	
2,600.00	2,597.54	3,142.96	3,136.14	9.06	11.07	-19.15	-333.05	-2,765.12	2,788.70	2,774.67	14.03	198.707	
2,616.45	2,613.78	3,158.46	3,151.26	9.12	11.13	-19.15	-330.92	-2,762.51	2,783.26	2,769.15	14.11	197.194	
2,700.00	2,696.24	3,237.10	3,228.03	9.43	11.44	-19.05	-320.15	-2,749.29	2,755.47	2,740.96	14.51	189.851	
2,800.00	2,794.94	3,331.22	3,319.91	9.81	11.82	-18.92	-307.25	-2,733.45	2,722.22	2,707.23	15.00	181.536	
2,900.00	2,893.64	3,425.35	3,411.80	10.19	12.21	-18.78	-294.35	-2,717.62	2,688.98	2,673.50	15.48	173.697	
3,000.00	2,992.34	3,519.47	3,503.68	10.58	12.60	-18.65	-281.46	-2,701.78	2,655.76	2,639.79	15.97	166.299	
3,100.00	3,091.04	3,613.60	3,595.56	10.97	12.99	-18.51	-268.56	-2,685.95	2,622.55	2,606.09	16.46	159.310	
3,200.00	3,189.74	3,707.72	3,687.44	11.37	13.39	-18.36	-255.66	-2,670.11	2,589.35	2,572.39	16.96	152.701	
3,300.00	3,288.45	3,801.85	3,779.33	11.77	13.80	-18.21	-242.76	-2,654.28	2,556.17	2,538.72	17.45	146.445	
3,400.00	3,387.15	3,895.97	3,871.21	12.17	14.21	-18.06	-229.87	-2,638.44	2,523.00	2,505.05	17.96	140.516	
3,500.00	3,485.85	3,990.10	3,963.09	12.58	14.62	-17.91	-216.97	-2,622.61	2,489.86	2,471.40	18.46	134.892	
3,600.00	3,584.55	4,084.22	4,054.98	12.98	15.03	-17.75	-204.07	-2,606.78	2,456.72	2,437.76	18.96	129.551	
3,700.00	3,683.25	4,178.35	4,146.86	13.39	15.45	-17.58	-191.17	-2,590.94	2,423.61	2,404.14	19.47	124.475	
3,800.00	3,781.95	4,272.47	4,238.74	13.80	15.87	-17.41	-178.28	-2,575.11	2,390.51	2,370.53	19.98	119.646	
3,900.00	3,880.65	4,366.60	4,330.63	14.22	16.29	-17.24	-165.38	-2,559.27	2,357.43	2,336.94	20.49	115.047	
4,000.00	3,979.35	4,460.72	4,422.51	14.63	16.72	-17.06	-152.48	-2,543.44	2,324.38	2,303.37	21.00	110.664	
4,100.00	4,078.05	4,554.85	4,514.39	15.05	17.15	-16.88	-139.58	-2,527.60	2,291.34	2,269.82	21.52	106.482	
4,200.00	4,176.75	4,648.98	4,606.28	15.47	17.58	-16.69	-126.69	-2,511.77	2,258.32	2,236.29	22.03	102.489	
4,300.00	4,275.45	4,743.10	4,698.16	15.89	18.01	-16.49	-113.79	-2,495.94	2,225.33	2,202.78	22.55	98.672	
4,400.00	4,374.15	4,837.23	4,790.04	16.31	18.44	-16.29	-100.89	-2,480.10	2,192.36	2,169.29	23.07	95.022	
4,500.00	4,472.85	4,931.35	4,881.92	16.73	18.88	-16.09	-87.99	-2,464.27	2,159.42	2,135.83	23.59	91.527	
4,600.00	4,571.55	5,025.48	4,973.81	17.15	19.31	-15.87	-75.10	-2,448.43	2,126.50	2,102.39	24.12	88.179	
4,700.00	4,670.25	5,119.60	5,065.69	17.57	19.75	-15.65	-62.20	-2,432.60	2,093.61	2,068.97	24.64	84.970	
4,800.00	4,768.95	5,213.73	5,157.57	18.00	20.19	-15.43	-49.30	-2,416.76	2,060.75	2,035.58	25.16	81.890	
4,900.00	4,867.65	5,307.85	5,249.46	18.42	20.63	-15.19	-36.41	-2,400.93	2,027.92	2,002.22	25.69	78.933	
5,000.00	4,966.35	5,401.98	5,341.34	18.85	21.07	-14.95	-23.51	-2,385.09	1,995.11	1,968.90	26.22	76.093	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.05	5,496.10	5,433.22	19.28	21.52	-14.70	-10.61	-2,369.26	1,962.35	1,935.60	26.75	73.361	
5,200.00	5,163.76	5,590.23	5,525.11	19.70	21.96	-14.45	2.29	-2,353.43	1,929.61	1,902.33	27.28	70.735	
5,300.00	5,262.46	5,684.35	5,616.99	20.13	22.40	-14.18	15.18	-2,337.59	1,896.92	1,869.10	27.81	68.207	
5,400.00	5,361.16	5,778.48	5,708.87	20.56	22.85	-13.90	28.08	-2,321.76	1,864.26	1,835.91	28.34	65.771	
5,500.00	5,459.86	5,872.60	5,800.76	20.99	23.30	-13.62	40.98	-2,305.92	1,831.64	1,802.76	28.88	63.424	
5,600.00	5,558.56	5,966.73	5,892.64	21.42	23.74	-13.32	53.88	-2,290.09	1,799.06	1,769.64	29.42	61.160	
5,700.00	5,657.26	6,060.86	5,984.52	21.85	24.19	-13.02	66.77	-2,274.25	1,766.53	1,736.57	29.95	58.975	
5,800.00	5,755.96	6,154.98	6,076.41	22.28	24.64	-12.70	79.67	-2,258.42	1,734.04	1,703.55	30.49	56.866	
5,900.00	5,854.66	6,249.11	6,168.29	22.71	25.09	-12.37	92.57	-2,242.58	1,701.61	1,670.58	31.03	54.830	
6,000.00	5,953.36	6,343.23	6,260.17	23.14	25.54	-12.03	105.47	-2,226.75	1,669.23	1,637.65	31.58	52.862	
6,100.00	6,052.06	6,437.36	6,352.05	23.57	25.99	-11.67	118.36	-2,210.92	1,636.90	1,604.78	32.12	50.959	
6,200.00	6,150.76	6,531.48	6,443.94	24.01	26.44	-11.30	131.26	-2,195.08	1,604.64	1,571.97	32.67	49.119	
6,300.00	6,249.46	6,625.61	6,535.82	24.44	26.89	-10.91	144.16	-2,179.25	1,572.44	1,539.22	33.22	47.339	
6,400.00	6,348.16	6,719.26	6,627.24	24.87	27.34	-10.52	156.99	-2,163.49	1,540.30	1,506.53	33.77	45.617	
6,500.00	6,446.86	6,800.00	6,706.24	25.30	27.73	-10.18	167.53	-2,150.56	1,508.95	1,474.64	34.31	43.980	
6,600.00	6,545.56	6,865.00	6,770.08	25.74	28.02	-9.93	175.24	-2,141.09	1,478.99	1,444.15	34.84	42.452	
6,700.00	6,644.26	6,938.95	6,842.95	26.17	28.35	-9.68	183.18	-2,131.34	1,450.51	1,415.14	35.37	41.014	
6,804.31	6,747.22	7,016.92	6,920.03	26.62	28.68	-9.45	190.59	-2,122.24	1,422.34	1,386.44	35.91	39.611	
6,900.00	6,841.85	7,100.00	7,002.41	27.03	29.02	-9.17	197.39	-2,113.90	1,399.10	1,362.70	36.41	38.429	
7,000.00	6,941.09	7,166.13	7,068.14	27.44	29.28	-8.97	201.99	-2,108.25	1,378.63	1,341.73	36.90	37.362	
7,100.00	7,040.61	7,243.80	7,145.48	27.83	29.58	-8.79	206.47	-2,102.75	1,362.26	1,324.87	37.39	36.434	
7,200.00	7,140.36	7,322.17	7,223.66	28.20	29.86	-8.64	209.99	-2,098.43	1,349.97	1,312.10	37.87	35.649	
7,300.00	7,240.26	7,400.00	7,301.38	28.55	30.13	-8.53	212.48	-2,095.37	1,341.79	1,303.46	38.33	35.005	
7,400.00	7,340.24	7,480.28	7,381.62	28.88	30.39	-8.46	214.00	-2,093.50	1,337.73	1,298.95	38.78	34.495	
7,420.77	7,361.00	7,500.00	7,401.34	28.95	30.46	-87.25	214.21	-2,093.25	1,337.41	1,298.54	38.88	34.400	
7,500.00	7,440.24	7,560.90	7,462.24	29.20	30.65	-87.24	214.45	-2,092.94	1,337.00	1,297.79	39.21	34.097	
7,600.00	7,540.24	7,660.90	7,562.24	29.52	30.95	-87.24	214.45	-2,092.94	1,337.00	1,297.32	39.68	33.693	
7,700.00	7,640.24	7,760.90	7,662.24	29.84	31.26	-87.24	214.45	-2,092.94	1,337.00	1,296.85	40.15	33.298	
7,800.00	7,740.24	7,860.90	7,762.24	30.16	31.57	-87.24	214.45	-2,092.94	1,337.00	1,296.37	40.62	32.912	
7,900.00	7,840.24	7,960.90	7,862.24	30.48	31.88	-87.24	214.45	-2,092.94	1,337.00	1,295.90	41.10	32.534	
7,966.81	7,907.04	8,027.70	7,929.04	30.69	32.09	-87.24	214.45	-2,092.94	1,337.00	1,295.59	41.41	32.286	CC
8,000.00	7,940.22	8,060.88	7,962.22	30.79	32.19	93.37	214.45	-2,092.94	1,337.05	1,295.49	41.57	32.166	ES
8,050.00	7,989.94	8,110.60	8,011.94	30.94	32.35	93.55	214.45	-2,092.94	1,337.36	1,295.56	41.80	31.994	
8,100.00	8,039.04	8,159.70	8,061.04	31.08	32.50	93.88	214.45	-2,092.94	1,337.98	1,295.95	42.04	31.829	
8,150.00	8,087.13	8,207.79	8,109.13	31.21	32.65	94.34	214.45	-2,092.94	1,339.00	1,296.73	42.27	31.675	
8,200.00	8,133.85	8,254.51	8,155.85	31.33	32.80	94.90	214.45	-2,092.94	1,340.53	1,298.02	42.51	31.533	
8,250.00	8,178.84	8,299.51	8,200.84	31.45	32.94	95.51	214.45	-2,092.94	1,342.73	1,299.98	42.75	31.407	
8,300.00	8,221.77	8,342.43	8,243.77	31.55	33.07	96.14	214.45	-2,092.94	1,345.76	1,302.76	43.00	31.299	
8,350.00	8,262.30	8,382.96	8,284.30	31.65	33.20	96.74	214.45	-2,092.94	1,349.81	1,306.56	43.25	31.213	
8,400.00	8,300.13	8,420.79	8,322.13	31.74	33.32	97.26	214.45	-2,092.94	1,355.06	1,311.56	43.50	31.151	
8,450.00	8,334.96	8,455.62	8,356.96	31.82	33.43	97.65	214.45	-2,092.94	1,361.71	1,317.95	43.76	31.117	
8,500.00	8,366.54	8,487.20	8,388.54	31.89	33.53	97.86	214.45	-2,092.94	1,369.91	1,325.88	44.03	31.114	
8,550.00	8,394.62	8,515.28	8,416.62	31.96	33.62	97.84	214.45	-2,092.94	1,379.80	1,335.50	44.30	31.144	
8,600.00	8,418.99	8,539.65	8,440.99	32.03	33.70	97.54	214.45	-2,092.94	1,391.51	1,346.92	44.59	31.209	
8,650.00	8,439.47	8,560.13	8,461.47	32.11	33.76	96.93	214.45	-2,092.94	1,405.08	1,360.20	44.87	31.312	
8,700.00	8,455.89	8,576.55	8,477.89	32.19	33.81	95.97	214.45	-2,092.94	1,420.54	1,375.37	45.16	31.454	
8,750.00	8,468.13	8,588.79	8,490.13	32.29	33.85	94.64	214.45	-2,092.94	1,437.84	1,392.39	45.45	31.635	
8,800.00	8,476.11	8,596.77	8,498.11	32.40	33.88	92.91	214.45	-2,092.94	1,456.91	1,411.18	45.74	31.854	
8,850.00	8,479.75	8,600.41	8,501.75	32.54	33.89	90.80	214.45	-2,092.94	1,477.60	1,431.59	46.02	32.111	
8,866.81	8,480.00	8,600.66	8,502.00	32.59	33.89	90.00	214.45	-2,092.94	1,484.89	1,438.78	46.11	32.205	
8,900.00	8,480.00	8,600.66	8,502.00	32.70	33.89	90.00	214.45	-2,092.94	1,499.73	1,453.44	46.29	32.401	
9,000.00	8,480.00	8,600.66	8,502.00	33.09	33.89	90.00	214.45	-2,092.94	1,547.89	1,501.05	46.84	33.049	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.00	8,480.00	8,600.66	8,502.00	33.57	33.89	90.00	214.45	-2,092.94	1,600.86	1,553.47	47.38	33.786	
9,200.00	8,480.00	8,600.66	8,502.00	34.14	33.89	90.00	214.45	-2,092.94	1,658.16	1,610.25	47.91	34.608	
9,300.00	8,480.00	8,600.66	8,502.00	34.79	33.89	90.00	214.45	-2,092.94	1,719.38	1,670.96	48.42	35.509	
9,400.00	8,480.00	8,600.66	8,502.00	35.50	33.89	90.00	214.45	-2,092.94	1,784.11	1,735.21	48.90	36.485	
9,500.00	8,480.00	8,600.66	8,502.00	36.28	33.89	90.00	214.45	-2,092.94	1,851.98	1,802.63	49.35	37.529	
9,600.00	8,480.00	8,600.66	8,502.00	37.11	33.89	90.00	214.45	-2,092.94	1,922.65	1,872.89	49.76	38.635	
9,700.00	8,480.00	8,600.66	8,502.00	38.01	33.89	90.00	214.45	-2,092.94	1,995.84	1,945.69	50.15	39.798	
9,800.00	8,480.00	8,600.66	8,502.00	38.95	33.89	90.00	214.45	-2,092.94	2,071.27	2,020.77	50.50	41.014	
9,900.00	8,480.00	8,600.66	8,502.00	39.94	33.89	90.00	214.45	-2,092.94	2,148.70	2,097.88	50.82	42.277	
10,000.00	8,480.00	8,600.66	8,502.00	40.97	33.89	90.00	214.45	-2,092.94	2,227.93	2,176.81	51.12	43.582	
10,100.00	8,480.00	8,600.66	8,502.00	42.04	33.89	90.00	214.45	-2,092.94	2,308.78	2,257.39	51.39	44.926	
10,200.00	8,480.00	8,600.66	8,502.00	43.14	33.89	90.00	214.45	-2,092.94	2,391.07	2,339.44	51.64	46.303	
10,300.00	8,480.00	12,448.08	10,511.00	44.29	46.99	147.00	-1,868.78	-2,041.94	2,395.33	2,350.47	44.86	53.398	
10,400.00	8,480.00	12,548.08	10,511.00	45.46	47.96	147.00	-1,968.78	-2,040.96	2,395.34	2,349.44	45.89	52.195	
10,500.00	8,480.00	12,648.08	10,511.00	46.66	48.96	147.00	-2,068.77	-2,039.99	2,395.35	2,348.39	46.95	51.014	
10,600.00	8,480.00	12,748.08	10,511.00	47.89	50.00	147.00	-2,168.77	-2,039.01	2,395.36	2,347.31	48.05	49.856	
10,700.00	8,480.00	12,848.08	10,511.00	49.14	51.07	147.00	-2,268.76	-2,038.04	2,395.36	2,346.20	49.16	48.725	
10,800.00	8,480.00	12,948.08	10,511.00	50.42	52.17	147.00	-2,368.76	-2,037.06	2,395.37	2,345.07	50.30	47.621	
10,900.00	8,480.00	13,048.08	10,511.00	51.72	53.29	147.00	-2,468.75	-2,036.08	2,395.38	2,343.92	51.46	46.547	
11,000.00	8,480.00	13,148.08	10,511.00	53.03	54.45	147.00	-2,568.75	-2,035.11	2,395.39	2,342.75	52.64	45.501	
11,100.00	8,480.00	13,248.08	10,511.00	54.37	55.63	147.00	-2,668.74	-2,034.13	2,395.40	2,341.56	53.85	44.487	
11,200.00	8,480.00	13,348.08	10,511.00	55.72	56.83	147.00	-2,768.74	-2,033.16	2,395.41	2,340.35	55.06	43.504	
11,300.00	8,480.00	13,448.08	10,511.00	57.09	58.05	147.00	-2,868.73	-2,032.18	2,395.42	2,339.12	56.30	42.550	
11,400.00	8,480.00	13,548.08	10,511.00	58.47	59.29	147.00	-2,968.73	-2,031.21	2,395.43	2,337.88	57.55	41.625	
11,500.00	8,480.00	13,648.08	10,511.00	59.86	60.56	147.00	-3,068.72	-2,030.23	2,395.44	2,336.63	58.81	40.730	
11,600.00	8,480.00	13,748.08	10,511.00	61.27	61.84	147.00	-3,168.72	-2,029.25	2,395.45	2,335.36	60.09	39.864	
11,700.00	8,480.00	13,848.08	10,511.00	62.69	63.13	147.00	-3,268.71	-2,028.28	2,395.46	2,334.08	61.38	39.027	
11,800.00	8,480.00	13,948.08	10,511.00	64.13	64.45	147.00	-3,368.71	-2,027.30	2,395.47	2,332.79	62.68	38.216	
11,900.00	8,480.00	14,048.08	10,511.00	65.57	65.78	147.00	-3,468.70	-2,026.33	2,395.48	2,331.48	64.00	37.432	
12,000.00	8,480.00	14,148.08	10,511.00	67.02	67.12	147.00	-3,568.70	-2,025.35	2,395.49	2,330.17	65.32	36.673	
12,100.00	8,480.00	14,248.08	10,511.00	68.48	68.48	147.00	-3,668.69	-2,024.38	2,395.50	2,328.84	66.65	35.939	
12,200.00	8,480.00	14,348.08	10,511.00	69.95	69.84	147.00	-3,768.69	-2,023.40	2,395.51	2,327.51	67.99	35.231	
12,300.00	8,480.00	14,448.08	10,511.00	71.42	71.23	147.00	-3,868.69	-2,022.43	2,395.51	2,326.17	69.34	34.545	
12,400.00	8,480.00	14,548.08	10,511.00	72.91	72.62	147.00	-3,968.68	-2,021.45	2,395.52	2,324.82	70.70	33.882	
12,500.00	8,480.00	14,648.08	10,511.00	74.40	74.02	147.00	-4,068.68	-2,020.47	2,395.53	2,323.46	72.07	33.239	
12,600.00	8,480.00	14,748.08	10,511.00	75.90	75.43	147.00	-4,168.67	-2,019.50	2,395.54	2,322.10	73.44	32.618	
12,700.00	8,480.00	14,848.08	10,511.00	77.40	76.85	147.00	-4,268.67	-2,018.52	2,395.55	2,320.73	74.82	32.017	
12,800.00	8,480.00	14,948.08	10,511.00	78.91	78.29	147.00	-4,368.66	-2,017.55	2,395.56	2,319.36	76.21	31.435	
12,900.00	8,480.00	15,048.08	10,511.00	80.43	79.72	147.00	-4,468.66	-2,016.57	2,395.57	2,317.97	77.60	30.872	
13,000.00	8,480.00	15,148.08	10,511.00	81.95	81.17	147.00	-4,568.65	-2,015.60	2,395.58	2,316.59	79.00	30.325	
13,100.00	8,480.00	15,248.08	10,511.00	83.47	82.63	147.00	-4,668.65	-2,014.62	2,395.59	2,315.19	80.40	29.797	
13,200.00	8,480.00	15,348.08	10,511.00	85.00	84.09	146.99	-4,768.64	-2,013.64	2,395.60	2,313.80	81.80	29.285	
13,300.00	8,480.00	15,448.08	10,511.00	86.54	85.56	146.99	-4,868.64	-2,012.67	2,395.61	2,312.39	83.21	28.788	
13,400.00	8,480.00	15,548.08	10,511.00	88.08	87.03	146.99	-4,968.63	-2,011.69	2,395.62	2,310.99	84.63	28.307	
13,500.00	8,480.00	15,648.08	10,511.00	89.62	88.52	146.99	-5,068.63	-2,010.72	2,395.63	2,309.58	86.05	27.840	
13,600.00	8,480.00	15,748.08	10,511.00	91.17	90.00	146.99	-5,168.62	-2,009.74	2,395.64	2,308.16	87.47	27.387	
13,700.00	8,480.00	15,848.08	10,511.00	92.72	91.50	146.99	-5,268.62	-2,008.77	2,395.65	2,306.75	88.90	26.948	
13,800.00	8,480.00	15,948.08	10,511.00	94.27	92.99	146.99	-5,368.61	-2,007.79	2,395.66	2,305.33	90.33	26.521	
13,900.00	8,480.00	16,048.08	10,511.00	95.83	94.50	146.99	-5,468.61	-2,006.81	2,395.67	2,303.90	91.77	26.106	
14,000.00	8,480.00	16,148.08	10,511.00	97.39	96.01	146.99	-5,568.60	-2,005.84	2,395.67	2,302.47	93.20	25.704	
14,100.00	8,480.00	16,248.08	10,511.00	98.95	97.52	146.99	-5,668.60	-2,004.86	2,395.68	2,301.04	94.64	25.313	
14,200.00	8,480.00	16,348.08	10,511.00	100.52	99.04	146.99	-5,768.59	-2,003.89	2,395.69	2,299.61	96.08	24.933	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	8,480.00	16,448.08	10,511.00	102.09	100.56	146.99	-5,868.59	-2,002.91	2,395.70	2,298.17	97.53	24.564	
14,400.00	8,480.00	16,548.08	10,511.00	103.66	102.08	146.99	-5,968.59	-2,001.94	2,395.71	2,296.73	98.98	24.204	
14,500.00	8,480.00	16,648.08	10,511.00	105.23	103.61	146.99	-6,068.58	-2,000.96	2,395.72	2,295.29	100.43	23.855	
14,600.00	8,480.00	16,748.08	10,511.00	106.81	105.15	146.99	-6,168.58	-1,999.99	2,395.73	2,293.85	101.88	23.516	
14,700.00	8,480.00	16,848.08	10,511.00	108.39	106.68	146.99	-6,268.57	-1,999.01	2,395.74	2,292.41	103.33	23.185	
14,800.00	8,480.00	16,948.08	10,511.00	109.97	108.22	146.99	-6,368.57	-1,998.03	2,395.75	2,290.96	104.79	22.863	
14,900.00	8,480.00	17,048.08	10,511.00	111.55	109.77	146.99	-6,468.56	-1,997.06	2,395.76	2,289.51	106.25	22.549	
15,000.00	8,480.00	17,148.08	10,511.00	113.13	111.31	146.99	-6,568.56	-1,996.08	2,395.77	2,288.06	107.71	22.244	
15,100.00	8,480.00	17,248.08	10,511.00	114.72	112.86	146.99	-6,668.55	-1,995.11	2,395.78	2,286.61	109.17	21.946	
15,200.00	8,480.00	17,348.08	10,511.00	116.31	114.41	146.99	-6,768.55	-1,994.13	2,395.79	2,285.16	110.63	21.656	
15,300.00	8,480.00	17,448.08	10,511.00	117.90	115.97	146.99	-6,868.54	-1,993.16	2,395.80	2,283.70	112.09	21.373	
15,400.00	8,480.00	17,548.08	10,511.00	119.49	117.53	146.99	-6,968.54	-1,992.18	2,395.81	2,282.25	113.56	21.097	
15,500.00	8,480.00	17,648.08	10,511.00	121.08	119.09	146.99	-7,068.53	-1,991.20	2,395.82	2,280.79	115.02	20.829	
15,600.00	8,480.00	17,748.08	10,511.00	122.68	120.65	146.99	-7,168.53	-1,990.23	2,395.82	2,279.33	116.49	20.567	
15,700.00	8,480.00	17,848.08	10,511.00	124.27	122.21	146.99	-7,268.52	-1,989.25	2,395.83	2,277.87	117.96	20.310	
15,800.00	8,480.00	17,948.08	10,511.00	125.87	123.78	146.99	-7,368.52	-1,988.28	2,395.84	2,276.41	119.43	20.060	
15,900.00	8,480.00	18,048.08	10,511.00	127.47	125.35	146.99	-7,468.51	-1,987.30	2,395.85	2,274.95	120.90	19.816	
16,000.00	8,480.00	18,148.08	10,511.00	129.07	126.92	146.99	-7,568.51	-1,986.33	2,395.86	2,273.49	122.38	19.578	
16,100.00	8,480.00	18,248.08	10,511.00	130.67	128.49	146.98	-7,668.50	-1,985.35	2,395.87	2,272.02	123.85	19.345	
16,200.00	8,480.00	18,348.08	10,511.00	132.27	130.07	146.98	-7,768.50	-1,984.37	2,395.88	2,270.56	125.32	19.117	
16,300.00	8,480.00	18,448.08	10,511.00	133.88	131.65	146.98	-7,868.49	-1,983.40	2,395.89	2,269.09	126.80	18.895	
16,400.00	8,480.00	18,548.08	10,511.00	135.48	133.22	146.98	-7,968.49	-1,982.42	2,395.90	2,267.63	128.27	18.678	
16,500.00	8,480.00	18,648.08	10,511.00	137.09	134.80	146.98	-8,068.49	-1,981.45	2,395.91	2,266.16	129.75	18.465	
16,600.00	8,480.00	18,748.08	10,511.00	138.70	136.39	146.98	-8,168.48	-1,980.47	2,395.92	2,264.69	131.23	18.258	
16,700.00	8,480.00	18,848.08	10,511.00	140.30	137.97	146.98	-8,268.48	-1,979.50	2,395.93	2,263.22	132.71	18.054	
16,800.00	8,480.00	18,948.08	10,511.00	141.91	139.56	146.98	-8,368.47	-1,978.52	2,395.94	2,261.75	134.18	17.856	
16,900.00	8,480.00	19,048.08	10,511.00	143.52	141.14	146.98	-8,468.47	-1,977.55	2,395.95	2,260.28	135.66	17.661	
17,000.00	8,480.00	19,148.08	10,511.00	145.13	142.73	146.98	-8,568.46	-1,976.57	2,395.96	2,258.81	137.14	17.471	
17,100.00	8,480.00	19,248.08	10,511.00	146.75	144.32	146.98	-8,668.46	-1,975.59	2,395.97	2,257.34	138.62	17.284	
17,200.00	8,480.00	19,348.08	10,511.00	148.36	145.91	146.98	-8,768.45	-1,974.62	2,395.98	2,255.87	140.10	17.101	
17,300.00	8,480.00	19,448.08	10,511.00	149.97	147.50	146.98	-8,868.45	-1,973.64	2,395.98	2,254.40	141.58	16.923	
17,400.00	8,480.00	19,548.08	10,511.00	151.59	149.10	146.98	-8,968.44	-1,972.67	2,395.99	2,252.93	143.06	16.748	
17,500.00	8,480.00	19,648.08	10,511.00	153.20	150.69	146.98	-9,068.44	-1,971.69	2,396.00	2,251.46	144.55	16.576	
17,600.00	8,480.00	19,748.08	10,511.00	154.82	152.29	146.98	-9,168.43	-1,970.72	2,396.01	2,249.98	146.03	16.408	
17,700.00	8,480.00	19,848.08	10,511.00	156.44	153.89	146.98	-9,268.43	-1,969.74	2,396.02	2,248.51	147.51	16.243	
17,800.00	8,480.00	19,948.08	10,511.00	158.05	155.49	146.98	-9,368.42	-1,968.76	2,396.03	2,247.04	148.99	16.082	
17,900.00	8,480.00	20,048.08	10,511.00	159.67	157.08	146.98	-9,468.42	-1,967.79	2,396.04	2,245.57	150.48	15.923	
18,000.00	8,480.00	20,148.08	10,511.00	161.29	158.69	146.98	-9,568.41	-1,966.81	2,396.05	2,244.09	151.96	15.768	
18,100.00	8,480.00	20,248.08	10,511.00	162.91	160.29	146.98	-9,668.41	-1,965.84	2,396.06	2,242.62	153.44	15.615	
18,200.00	8,480.00	20,348.08	10,511.00	164.53	161.89	146.98	-9,768.40	-1,964.86	2,396.07	2,241.14	154.92	15.466	
18,300.00	8,480.00	20,448.08	10,511.00	166.15	163.49	146.98	-9,868.40	-1,963.89	2,396.08	2,239.67	156.41	15.319	
18,400.00	8,480.00	20,548.08	10,511.00	167.77	165.10	146.98	-9,968.39	-1,962.91	2,396.09	2,238.20	157.89	15.176	
18,500.00	8,480.00	20,648.08	10,511.00	169.40	166.70	146.98	-10,068.39	-1,961.93	2,396.10	2,236.72	159.38	15.034	
18,600.00	8,480.00	20,748.08	10,511.00	171.02	168.31	146.98	-10,168.39	-1,960.96	2,396.11	2,235.25	160.86	14.896	
18,700.00	8,480.00	20,848.08	10,511.00	172.64	169.92	146.98	-10,268.38	-1,959.98	2,396.12	2,233.77	162.34	14.760	
18,800.00	8,480.00	20,948.08	10,511.00	174.26	171.52	146.98	-10,368.38	-1,959.01	2,396.13	2,232.30	163.83	14.626	
18,900.00	8,480.00	21,048.08	10,511.00	175.89	173.13	146.98	-10,468.37	-1,958.03	2,396.13	2,230.82	165.31	14.495	
19,000.00	8,480.00	21,148.08	10,511.00	177.51	174.74	146.97	-10,568.37	-1,957.06	2,396.14	2,229.35	166.79	14.366	
19,100.00	8,480.00	21,248.08	10,511.00	179.14	176.35	146.97	-10,668.36	-1,956.08	2,396.15	2,227.88	168.28	14.239	
19,200.00	8,480.00	21,348.08	10,511.00	180.76	177.96	146.97	-10,768.36	-1,955.10	2,396.16	2,226.40	169.76	14.115	
19,300.00	8,480.00	21,448.08	10,511.00	182.39	179.58	146.97	-10,868.35	-1,954.13	2,396.17	2,224.93	171.25	13.993	
19,400.00	8,480.00	21,548.08	10,511.00	184.02	181.19	146.97	-10,968.35	-1,953.15	2,396.18	2,223.45	172.73	13.872	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,500.00	8,480.00	21,648.08	10,511.00	185.64	182.80	146.97	-11,068.34	-1,952.18	2,396.19	2,221.98	174.21	13.754	
19,600.00	8,480.00	21,748.08	10,511.00	187.27	184.42	146.97	-11,168.34	-1,951.20	2,396.20	2,220.50	175.70	13.638	
19,700.00	8,480.00	21,848.08	10,511.00	188.90	186.03	146.97	-11,268.33	-1,950.23	2,396.21	2,219.03	177.18	13.524	
19,800.00	8,480.00	21,948.08	10,511.00	190.53	187.65	146.97	-11,368.33	-1,949.25	2,396.22	2,217.56	178.66	13.412	
19,802.31	8,480.00	21,950.39	10,511.00	190.56	187.68	146.97	-11,370.64	-1,949.23	2,396.22	2,217.52	178.70	13.409	
19,899.80	8,480.00	22,046.30	10,511.00	192.15	189.23	146.97	-11,466.54	-1,948.29	2,396.23	2,216.10	180.13	13.303	SF

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - PF Fed Com 801H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	22.00	22.00	0.00	0.03	-96.29	-316.95	-2,875.12	2,892.54				
100.00	100.00	122.00	122.00	0.13	0.20	-96.29	-316.95	-2,875.12	2,892.54	2,892.30	0.24	N/A	
200.00	200.00	222.00	222.00	0.48	0.56	-96.29	-316.95	-2,875.12	2,892.54	2,891.80	0.74	3,896.974	
300.00	300.00	322.00	322.00	0.84	0.92	-96.29	-316.95	-2,875.12	2,892.54	2,891.29	1.25	2,317.079	
400.00	400.00	422.00	422.00	1.20	1.28	-96.29	-316.95	-2,875.12	2,892.54	2,890.79	1.75	1,648.216	
500.00	500.00	522.00	522.00	1.56	1.64	-96.29	-316.95	-2,875.12	2,892.54	2,890.28	2.26	1,278.918	
600.00	600.00	622.00	622.00	1.92	2.00	-96.29	-316.95	-2,875.12	2,892.54	2,889.77	2.77	1,044.790	
700.00	700.00	722.00	722.00	2.28	2.36	-96.29	-316.95	-2,875.12	2,892.54	2,889.26	3.28	883.109	
800.00	800.00	822.00	822.00	2.63	2.71	-96.29	-316.95	-2,875.12	2,892.54	2,888.76	3.78	764.757	
900.00	900.00	922.00	922.00	2.99	3.07	-96.29	-316.95	-2,875.12	2,892.54	2,888.25	4.29	674.377	
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-96.29	-316.95	-2,875.12	2,892.54	2,887.74	4.80	603.100	
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-96.29	-316.95	-2,875.12	2,892.54	2,887.24	5.30	545.449	
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-96.29	-316.95	-2,875.12	2,892.54	2,886.73	5.81	497.858	
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-96.29	-316.95	-2,875.12	2,892.54	2,886.22	6.32	457.904	
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-96.29	-316.95	-2,875.12	2,892.54	2,885.72	6.82	423.887	
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-96.29	-316.95	-2,875.12	2,892.54	2,885.21	7.33	394.574	
1,600.00	1,600.00	1,622.00	1,622.00	5.50	5.58	-96.29	-316.95	-2,875.12	2,892.54	2,884.70	7.84	369.053	
1,700.00	1,700.00	1,722.00	1,722.00	5.86	5.94	-96.29	-316.95	-2,875.12	2,892.54	2,884.20	8.34	346.633	
1,800.00	1,800.00	1,822.00	1,822.00	6.22	6.30	-96.29	-316.95	-2,875.12	2,892.54	2,883.69	8.85	326.781	
1,900.00	1,900.00	1,922.00	1,922.00	6.58	6.66	-96.29	-316.95	-2,875.12	2,892.54	2,883.18	9.36	309.080	
1,907.26	1,907.26	1,929.26	1,929.26	6.60	6.68	-96.29	-316.95	-2,875.12	2,892.54	2,883.14	9.40	307.868	
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	-96.29	-316.95	-2,875.12	2,892.62	2,882.81	9.81	294.884	
2,100.00	2,099.99	2,083.90	2,083.90	7.29	7.24	-17.48	-316.28	-2,875.75	2,892.10	2,881.83	10.27	281.653	
2,200.00	2,199.91	2,152.66	2,152.62	7.63	7.48	-17.48	-314.73	-2,877.21	2,890.21	2,879.52	10.68	270.543	
2,300.00	2,299.69	2,221.39	2,221.26	7.98	7.72	-17.46	-312.27	-2,879.51	2,886.90	2,875.80	11.10	260.140	
2,400.00	2,399.27	2,300.00	2,299.69	8.34	8.00	-17.44	-308.36	-2,883.17	2,882.21	2,870.67	11.54	249.805	
2,500.00	2,498.57	2,358.70	2,358.17	8.69	8.21	-17.43	-304.67	-2,886.63	2,876.05	2,864.13	11.93	241.135	
2,600.00	2,597.54	2,427.26	2,426.37	9.06	8.46	-17.41	-299.53	-2,891.44	2,868.51	2,856.17	12.34	232.408	
2,616.45	2,613.78	2,438.54	2,437.57	9.12	8.50	-17.41	-298.60	-2,892.31	2,867.14	2,854.73	12.41	231.008	
2,700.00	2,696.24	2,500.00	2,498.57	9.43	8.72	-17.35	-293.10	-2,897.46	2,860.44	2,847.67	12.77	223.993	
2,800.00	2,794.94	2,566.29	2,564.21	9.81	8.97	-17.26	-286.37	-2,903.76	2,853.42	2,840.23	13.18	216.462	
2,900.00	2,893.64	2,665.83	2,662.70	10.19	9.33	-17.12	-275.76	-2,913.70	2,846.88	2,833.20	13.69	207.987	
3,000.00	2,992.34	2,765.38	2,761.18	10.58	9.71	-16.99	-265.15	-2,923.64	2,840.37	2,826.17	14.20	200.070	
3,100.00	3,091.04	2,864.93	2,859.66	10.97	10.08	-16.85	-254.53	-2,933.58	2,833.87	2,819.16	14.71	192.661	
3,200.00	3,189.74	2,964.48	2,958.14	11.37	10.47	-16.71	-243.92	-2,943.52	2,827.39	2,812.16	15.22	185.719	
3,300.00	3,288.45	3,064.03	3,056.62	11.77	10.85	-16.56	-233.31	-2,953.46	2,820.92	2,805.18	15.74	179.204	
3,400.00	3,387.15	3,163.58	3,155.10	12.17	11.24	-16.42	-222.69	-2,963.40	2,814.48	2,798.22	16.26	173.081	
3,500.00	3,485.85	3,263.13	3,253.58	12.58	11.63	-16.28	-212.08	-2,973.34	2,808.05	2,791.27	16.78	167.319	
3,600.00	3,584.55	3,362.67	3,352.06	12.98	12.02	-16.14	-201.47	-2,983.28	2,801.64	2,784.33	17.31	161.889	
3,700.00	3,683.25	3,462.22	3,450.54	13.39	12.41	-15.99	-190.85	-2,993.22	2,795.24	2,777.41	17.83	156.765	
3,800.00	3,781.95	3,561.77	3,549.02	13.80	12.81	-15.85	-180.24	-3,003.16	2,788.86	2,770.51	18.36	151.923	
3,900.00	3,880.65	3,661.32	3,647.50	14.22	13.20	-15.71	-169.63	-3,013.10	2,782.50	2,763.62	18.88	147.343	
4,000.00	3,979.35	3,760.87	3,745.98	14.63	13.60	-15.56	-159.01	-3,023.04	2,776.16	2,756.75	19.41	143.003	
4,100.00	4,078.05	3,860.42	3,844.47	15.05	14.00	-15.41	-148.40	-3,032.98	2,769.84	2,749.90	19.94	138.888	
4,200.00	4,176.75	3,959.97	3,942.95	15.47	14.40	-15.27	-137.79	-3,042.92	2,763.53	2,743.06	20.47	134.980	
4,300.00	4,275.45	4,059.51	4,041.43	15.89	14.81	-15.12	-127.17	-3,052.86	2,757.25	2,736.24	21.01	131.266	
4,400.00	4,374.15	4,159.06	4,139.91	16.31	15.21	-14.97	-116.56	-3,062.80	2,750.98	2,729.44	21.54	127.731	
4,500.00	4,472.85	4,258.61	4,238.39	16.73	15.61	-14.82	-105.95	-3,072.74	2,744.73	2,722.66	22.07	124.364	
4,600.00	4,571.55	4,358.16	4,336.87	17.15	16.02	-14.67	-95.33	-3,082.68	2,738.50	2,715.89	22.60	121.153	
4,700.00	4,670.25	4,457.71	4,435.35	17.57	16.43	-14.52	-84.72	-3,092.62	2,732.28	2,709.14	23.14	118.088	
4,800.00	4,768.95	4,557.26	4,533.83	18.00	16.83	-14.37	-74.11	-3,102.56	2,726.09	2,702.42	23.67	115.160	
4,900.00	4,867.65	4,656.81	4,632.31	18.42	17.24	-14.22	-63.49	-3,112.50	2,719.91	2,695.71	24.21	112.360	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - PF Fed Com 801H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,966.35	4,756.35	4,730.79	18.85	17.65	-14.07	-52.88	-3,122.44	2,713.76	2,689.02	24.74	109.681	
5,100.00	5,065.05	4,855.90	4,829.27	19.28	18.06	-13.92	-42.27	-3,132.38	2,707.62	2,682.34	25.28	107.114	
5,200.00	5,163.76	4,955.45	4,927.75	19.70	18.47	-13.76	-31.65	-3,142.32	2,701.50	2,675.69	25.81	104.653	
5,300.00	5,262.46	5,055.00	5,026.24	20.13	18.88	-13.61	-21.04	-3,152.26	2,695.41	2,669.06	26.35	102.292	
5,400.00	5,361.16	5,154.55	5,124.72	20.56	19.29	-13.45	-10.43	-3,162.20	2,689.33	2,662.44	26.89	100.025	
5,500.00	5,459.86	5,254.10	5,223.20	20.99	19.70	-13.30	0.19	-3,172.14	2,683.27	2,655.85	27.42	97.847	
5,600.00	5,558.56	5,353.65	5,321.68	21.42	20.12	-13.14	10.80	-3,182.08	2,677.23	2,649.27	27.96	95.753	
5,700.00	5,657.26	5,453.19	5,420.16	21.85	20.53	-12.98	21.41	-3,192.02	2,671.21	2,642.72	28.50	93.737	
5,800.00	5,755.96	5,552.74	5,518.64	22.28	20.94	-12.83	32.03	-3,201.96	2,665.22	2,636.18	29.03	91.797	
5,900.00	5,854.66	5,652.29	5,617.12	22.71	21.36	-12.67	42.64	-3,211.90	2,659.24	2,629.67	29.57	89.927	
6,000.00	5,953.36	5,751.84	5,715.60	23.14	21.77	-12.51	53.25	-3,221.84	2,653.28	2,623.17	30.11	88.125	
6,100.00	6,052.06	5,851.39	5,814.08	23.57	22.18	-12.35	63.87	-3,231.78	2,647.34	2,616.70	30.65	86.387	
6,200.00	6,150.76	5,950.94	5,912.56	24.01	22.60	-12.19	74.48	-3,241.72	2,641.43	2,610.25	31.18	84.708	
6,300.00	6,249.46	6,050.49	6,011.04	24.44	23.01	-12.03	85.09	-3,251.65	2,635.53	2,603.81	31.72	83.088	
6,400.00	6,348.16	6,150.03	6,109.52	24.87	23.43	-11.86	95.71	-3,261.59	2,629.66	2,597.40	32.26	81.522	
6,500.00	6,446.86	6,249.58	6,208.01	25.30	23.84	-11.70	106.32	-3,271.53	2,623.81	2,591.01	32.79	80.008	
6,600.00	6,545.56	6,349.13	6,306.49	25.74	24.26	-11.54	116.93	-3,281.47	2,617.98	2,584.64	33.33	78.543	
6,700.00	6,644.26	6,448.68	6,404.97	26.17	24.67	-11.37	127.55	-3,291.41	2,612.17	2,578.30	33.87	77.126	
6,804.31	6,747.22	6,552.52	6,507.69	26.62	25.11	-11.20	138.62	-3,301.78	2,606.13	2,571.70	34.43	75.695	
6,900.00	6,841.85	6,647.82	6,601.97	27.03	25.51	-11.02	148.78	-3,311.30	2,601.79	2,566.84	34.94	74.460	
7,000.00	6,941.09	6,747.45	6,700.53	27.44	25.92	-10.84	159.40	-3,321.25	2,599.79	2,564.31	35.47	73.285	
7,027.01	6,967.94	6,774.36	6,727.15	27.54	26.04	-10.79	162.27	-3,323.93	2,599.69	2,564.07	35.62	72.989	CC, ES
7,100.00	7,040.61	6,847.06	6,799.07	27.83	26.34	-10.65	170.02	-3,331.19	2,600.38	2,564.38	36.00	72.225	
7,200.00	7,140.36	7,009.97	6,960.55	28.20	27.01	-10.36	185.70	-3,345.88	2,602.73	2,566.03	36.70	70.915	
7,300.00	7,240.26	7,200.15	7,150.00	28.55	27.73	-10.13	197.72	-3,357.13	2,604.37	2,566.95	37.42	69.594	
7,400.00	7,340.24	7,390.93	7,340.63	28.88	28.40	-10.04	202.85	-3,361.94	2,605.12	2,567.04	38.08	68.406	
7,420.77	7,361.00	7,430.58	7,380.27	28.95	28.53	-88.83	203.04	-3,362.12	2,605.16	2,566.95	38.21	68.175	
7,500.00	7,440.24	7,512.54	7,462.24	29.20	28.80	-88.83	203.05	-3,362.12	2,605.16	2,566.57	38.60	67.499	
7,600.00	7,540.24	7,612.54	7,562.24	29.52	29.13	-88.83	203.05	-3,362.12	2,605.16	2,566.09	39.07	66.672	
7,700.00	7,640.24	7,712.54	7,662.24	29.84	29.45	-88.83	203.05	-3,362.12	2,605.16	2,565.61	39.55	65.864	
7,800.00	7,740.24	7,812.54	7,762.24	30.16	29.78	-88.83	203.05	-3,362.12	2,605.16	2,565.13	40.03	65.074	
7,900.00	7,840.24	7,912.54	7,862.24	30.48	30.11	-88.83	203.05	-3,362.12	2,605.16	2,564.65	40.51	64.302	
7,966.81	7,907.04	7,979.34	7,929.04	30.69	30.33	-88.83	203.05	-3,362.12	2,605.16	2,564.33	40.84	63.796	
8,000.00	7,940.22	8,012.52	7,962.22	30.79	30.44	91.75	203.05	-3,362.12	2,605.19	2,564.20	40.99	63.553	
8,050.00	7,989.94	8,062.25	8,011.94	30.94	30.61	91.85	203.05	-3,362.12	2,605.35	2,564.13	41.22	63.208	
8,100.00	8,039.04	8,111.34	8,061.04	31.08	30.77	92.02	203.05	-3,362.12	2,605.67	2,564.24	41.44	62.883	
8,150.00	8,087.13	8,159.43	8,109.13	31.21	30.93	92.25	203.05	-3,362.12	2,606.20	2,564.56	41.65	62.580	
8,200.00	8,133.85	8,206.15	8,155.85	31.33	31.08	92.54	203.05	-3,362.12	2,607.00	2,565.15	41.85	62.300	
8,250.00	8,178.84	8,251.15	8,200.84	31.45	31.23	92.85	203.05	-3,362.12	2,608.14	2,566.10	42.04	62.042	
8,300.00	8,221.77	8,294.07	8,243.77	31.55	31.38	93.18	203.05	-3,362.12	2,609.71	2,567.49	42.22	61.808	
8,350.00	8,262.30	8,334.60	8,284.30	31.65	31.51	93.49	203.05	-3,362.12	2,611.82	2,569.42	42.40	61.597	
8,400.00	8,300.13	8,372.43	8,322.13	31.74	31.64	93.76	203.05	-3,362.12	2,614.55	2,571.98	42.58	61.409	
8,450.00	8,334.96	8,407.27	8,356.96	31.82	31.75	93.96	203.05	-3,362.12	2,618.02	2,575.27	42.75	61.245	
8,500.00	8,366.54	8,438.84	8,388.54	31.89	31.86	94.06	203.05	-3,362.12	2,622.31	2,579.39	42.92	61.103	
8,550.00	8,394.62	8,466.93	8,416.62	31.96	31.95	94.05	203.05	-3,362.12	2,627.51	2,584.43	43.09	60.984	
8,600.00	8,418.99	8,491.30	8,440.99	32.03	32.03	93.89	203.05	-3,362.12	2,633.70	2,590.44	43.26	60.887	
8,650.00	8,439.47	8,511.77	8,461.47	32.11	32.10	93.57	203.05	-3,362.12	2,640.91	2,597.49	43.43	60.813	
8,700.00	8,455.89	8,528.19	8,477.89	32.19	32.15	93.08	203.05	-3,362.12	2,649.19	2,605.59	43.60	60.759	
8,750.00	8,468.13	8,540.44	8,490.13	32.29	32.20	92.39	203.05	-3,362.12	2,658.53	2,614.76	43.78	60.728	
8,800.00	8,476.11	8,548.41	8,498.11	32.40	32.22	91.50	203.05	-3,362.12	2,668.92	2,624.96	43.96	60.718	
8,850.00	8,479.75	8,552.06	8,501.75	32.54	32.23	90.41	203.05	-3,362.12	2,680.29	2,636.15	44.13	60.730	
8,866.81	8,480.00	8,552.30	8,502.00	32.59	32.24	90.00	203.05	-3,362.12	2,684.32	2,640.13	44.19	60.739	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - PF Fed Com 801H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	8,480.00	8,552.30	8,502.00	32.70	32.24	90.00	203.05	-3,362.12	2,692.57	2,648.26	44.32	60.758	
9,000.00	8,480.00	8,552.30	8,502.00	33.09	32.24	90.00	203.05	-3,362.12	2,719.74	2,675.01	44.73	60.803	
9,100.00	8,480.00	8,552.30	8,502.00	33.57	32.24	90.00	203.05	-3,362.12	2,750.27	2,705.06	45.20	60.842	
9,200.00	8,480.00	8,552.30	8,502.00	34.14	32.24	90.00	203.05	-3,362.12	2,784.06	2,738.33	45.73	60.886	
9,300.00	8,480.00	8,552.30	8,502.00	34.79	32.24	90.00	203.05	-3,362.12	2,820.99	2,774.70	46.29	60.944	
9,400.00	8,480.00	8,552.30	8,502.00	35.50	32.24	90.00	203.05	-3,362.12	2,860.95	2,814.06	46.88	61.024	
9,500.00	8,480.00	8,552.30	8,502.00	36.28	32.24	90.00	203.05	-3,362.12	2,903.79	2,856.29	47.50	61.133	
9,600.00	8,480.00	8,552.30	8,502.00	37.11	32.24	90.00	203.05	-3,362.12	2,949.41	2,901.28	48.13	61.277	
9,700.00	8,480.00	8,552.30	8,502.00	38.01	32.24	90.00	203.05	-3,362.12	2,997.67	2,948.90	48.77	61.460	
9,800.00	8,480.00	8,552.30	8,502.00	38.95	32.24	90.00	203.05	-3,362.12	3,048.45	2,999.03	49.42	61.686	
9,900.00	8,480.00	8,552.30	8,502.00	39.94	32.24	90.00	203.05	-3,362.12	3,101.62	3,051.56	50.06	61.956	
10,000.00	8,480.00	8,552.30	8,502.00	40.97	32.24	90.00	203.05	-3,362.12	3,157.07	3,106.37	50.70	62.272	
10,100.00	8,480.00	8,552.30	8,502.00	42.04	32.24	90.00	203.05	-3,362.12	3,214.67	3,163.34	51.32	62.634	
10,200.00	8,480.00	8,552.30	8,502.00	43.14	32.24	90.00	203.05	-3,362.12	3,274.31	3,222.37	51.94	63.041	
10,300.00	8,480.00	8,552.30	8,502.00	44.29	32.24	90.00	203.05	-3,362.12	3,335.88	3,283.35	52.54	63.496	
10,400.00	8,480.00	8,552.30	8,502.00	45.46	32.24	90.00	203.05	-3,362.12	3,399.28	3,346.17	53.12	63.997	
10,500.00	8,480.00	8,552.30	8,502.00	46.66	32.24	90.00	203.05	-3,362.12	3,464.41	3,410.73	53.68	64.540	
10,600.00	8,480.00	8,552.30	8,502.00	47.89	32.24	90.00	203.05	-3,362.12	3,531.17	3,476.95	54.22	65.125	
10,700.00	8,480.00	8,552.30	8,502.00	49.14	32.24	90.00	203.05	-3,362.12	3,599.47	3,544.72	54.75	65.748	
10,800.00	8,480.00	8,552.30	8,502.00	50.42	32.24	90.00	203.05	-3,362.12	3,669.22	3,613.97	55.25	66.410	
10,900.00	8,480.00	8,552.30	8,502.00	51.72	32.24	90.00	203.05	-3,362.12	3,740.35	3,684.61	55.74	67.107	
11,000.00	8,480.00	8,552.30	8,502.00	53.03	32.24	90.00	203.05	-3,362.12	3,812.77	3,756.56	56.20	67.838	
11,100.00	8,480.00	8,552.30	8,502.00	54.37	32.24	90.00	203.05	-3,362.12	3,886.41	3,829.76	56.65	68.601	
11,200.00	8,480.00	8,552.30	8,502.00	55.72	32.24	90.00	203.05	-3,362.12	3,961.21	3,904.13	57.08	69.394	
11,300.00	8,480.00	8,552.30	8,502.00	57.09	32.24	90.00	203.05	-3,362.12	4,037.11	3,979.61	57.49	70.217	
11,400.00	8,480.00	8,552.30	8,502.00	58.47	32.24	90.00	203.05	-3,362.12	4,114.03	4,056.14	57.89	71.066	
11,500.00	8,480.00	8,552.30	8,502.00	59.86	32.24	90.00	203.05	-3,362.12	4,191.93	4,133.66	58.27	71.941	
11,600.00	8,480.00	8,552.30	8,502.00	61.27	32.24	90.00	203.05	-3,362.12	4,270.75	4,212.11	58.63	72.842	
11,700.00	8,480.00	8,552.30	8,502.00	62.69	32.24	90.00	203.05	-3,362.12	4,350.43	4,291.46	58.98	73.766	
11,800.00	8,480.00	8,552.30	8,502.00	64.13	32.24	90.00	203.05	-3,362.12	4,430.95	4,371.64	59.31	74.714	
11,900.00	8,480.00	8,552.30	8,502.00	65.57	32.24	90.00	203.05	-3,362.12	4,512.24	4,452.62	59.62	75.682	
12,000.00	8,480.00	8,552.30	8,502.00	67.02	32.24	90.00	203.05	-3,362.12	4,594.27	4,534.35	59.92	76.670	
12,100.00	8,480.00	8,552.30	8,502.00	68.48	32.24	90.00	203.05	-3,362.12	4,677.00	4,616.79	60.21	77.675	
12,200.00	8,480.00	8,552.30	8,502.00	69.95	32.24	90.00	203.05	-3,362.12	4,760.39	4,699.90	60.49	78.698	
12,300.00	8,480.00	16,432.99	12,544.00	71.42	75.51	147.20	-3,881.36	-3,322.28	4,808.55	4,739.00	69.55	69.138	
12,400.00	8,480.00	16,532.99	12,544.00	72.91	76.84	147.20	-3,981.36	-3,321.30	4,808.55	4,737.69	70.87	67.855	
12,500.00	8,480.00	16,632.99	12,544.00	74.40	78.19	147.20	-4,081.35	-3,320.33	4,808.56	4,736.37	72.19	66.610	
12,600.00	8,480.00	16,732.99	12,544.00	75.90	79.54	147.20	-4,181.35	-3,319.35	4,808.57	4,735.05	73.52	65.402	
12,700.00	8,480.00	16,832.99	12,544.00	77.40	80.91	147.20	-4,281.34	-3,318.37	4,808.58	4,733.72	74.87	64.229	
12,800.00	8,480.00	16,932.99	12,544.00	78.91	82.29	147.20	-4,381.34	-3,317.40	4,808.59	4,732.37	76.22	63.090	
12,900.00	8,480.00	17,032.99	12,544.00	80.43	83.68	147.20	-4,481.34	-3,316.42	4,808.60	4,731.03	77.58	61.985	
13,000.00	8,480.00	17,132.99	12,544.00	81.95	85.07	147.20	-4,581.33	-3,315.45	4,808.61	4,729.67	78.94	60.913	
13,100.00	8,480.00	17,232.99	12,544.00	83.47	86.48	147.20	-4,681.33	-3,314.47	4,808.62	4,728.31	80.31	59.874	
13,200.00	8,480.00	17,332.99	12,544.00	85.00	87.90	147.20	-4,781.32	-3,313.50	4,808.63	4,726.94	81.69	58.865	
13,300.00	8,480.00	17,432.99	12,544.00	86.54	89.32	147.20	-4,881.32	-3,312.52	4,808.64	4,725.57	83.07	57.885	
13,400.00	8,480.00	17,532.99	12,544.00	88.08	90.75	147.20	-4,981.31	-3,311.55	4,808.65	4,724.19	84.46	56.934	
13,500.00	8,480.00	17,632.99	12,544.00	89.62	92.19	147.20	-5,081.31	-3,310.57	4,808.66	4,722.80	85.86	56.009	
13,600.00	8,480.00	17,732.99	12,544.00	91.17	93.63	147.20	-5,181.30	-3,309.59	4,808.67	4,721.41	87.26	55.110	
13,700.00	8,480.00	17,832.99	12,544.00	92.72	95.08	147.20	-5,281.30	-3,308.62	4,808.68	4,720.02	88.66	54.236	
13,800.00	8,480.00	17,932.99	12,544.00	94.27	96.54	147.20	-5,381.29	-3,307.64	4,808.69	4,718.61	90.07	53.387	
13,900.00	8,480.00	18,032.99	12,544.00	95.83	98.01	147.20	-5,481.29	-3,306.67	4,808.70	4,717.21	91.49	52.561	
14,000.00	8,480.00	18,132.99	12,544.00	97.39	99.48	147.20	-5,581.28	-3,305.69	4,808.71	4,715.80	92.91	51.758	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - PF Fed Com 801H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	8,480.00	18,232.99	12,544.00	98.95	100.95	147.20	-5,681.28	-3,304.72	4,808.71	4,714.38	94.33	50.977	
14,200.00	8,480.00	18,332.99	12,544.00	100.52	102.43	147.20	-5,781.27	-3,303.74	4,808.72	4,712.96	95.76	50.216	
14,300.00	8,480.00	18,432.99	12,544.00	102.09	103.92	147.20	-5,881.27	-3,302.77	4,808.73	4,711.54	97.19	49.476	
14,400.00	8,480.00	18,532.99	12,544.00	103.66	105.41	147.20	-5,981.26	-3,301.79	4,808.74	4,710.11	98.63	48.756	
14,500.00	8,480.00	18,632.99	12,544.00	105.23	106.91	147.20	-6,081.26	-3,300.81	4,808.75	4,708.68	100.07	48.054	
14,600.00	8,480.00	18,732.99	12,544.00	106.81	108.41	147.20	-6,181.25	-3,299.84	4,808.76	4,707.25	101.51	47.373	
14,700.00	8,480.00	18,832.99	12,544.00	108.39	109.91	147.20	-6,281.25	-3,298.86	4,808.77	4,705.82	102.95	46.709	
14,800.00	8,480.00	18,932.99	12,544.00	109.97	111.42	147.20	-6,381.24	-3,297.89	4,808.78	4,704.38	104.40	46.061	
14,900.00	8,480.00	19,032.99	12,544.00	111.55	112.93	147.20	-6,481.24	-3,296.91	4,808.79	4,702.94	105.85	45.430	
15,000.00	8,480.00	19,132.99	12,544.00	113.13	114.45	147.20	-6,581.24	-3,295.94	4,808.80	4,701.50	107.30	44.816	
15,100.00	8,480.00	19,232.99	12,544.00	114.72	115.97	147.20	-6,681.23	-3,294.96	4,808.81	4,700.06	108.75	44.217	
15,200.00	8,480.00	19,332.99	12,544.00	116.31	117.49	147.20	-6,781.23	-3,293.99	4,808.82	4,698.61	110.21	43.633	
15,300.00	8,480.00	19,432.99	12,544.00	117.90	119.02	147.20	-6,881.22	-3,293.01	4,808.83	4,697.16	111.67	43.063	
15,400.00	8,480.00	19,532.99	12,544.00	119.49	120.55	147.20	-6,981.22	-3,292.03	4,808.84	4,695.71	113.13	42.507	
15,500.00	8,480.00	19,632.99	12,544.00	121.08	122.09	147.20	-7,081.21	-3,291.06	4,808.85	4,694.25	114.59	41.964	
15,600.00	8,480.00	19,732.99	12,544.00	122.68	123.62	147.20	-7,181.21	-3,290.08	4,808.86	4,692.80	116.06	41.434	
15,700.00	8,480.00	19,832.99	12,544.00	124.27	125.16	147.20	-7,281.20	-3,289.11	4,808.87	4,691.34	117.53	40.917	
15,800.00	8,480.00	19,932.99	12,544.00	125.87	126.70	147.20	-7,381.20	-3,288.13	4,808.87	4,689.88	119.00	40.411	
15,900.00	8,480.00	20,032.99	12,544.00	127.47	128.25	147.20	-7,481.19	-3,287.16	4,808.88	4,688.41	120.47	39.918	
16,000.00	8,480.00	20,132.99	12,544.00	129.07	129.80	147.20	-7,581.19	-3,286.18	4,808.89	4,686.95	121.94	39.435	
16,100.00	8,480.00	20,232.99	12,544.00	130.67	131.35	147.20	-7,681.18	-3,285.21	4,808.90	4,685.48	123.42	38.964	
16,200.00	8,480.00	20,332.99	12,544.00	132.27	132.90	147.20	-7,781.18	-3,284.23	4,808.91	4,684.01	124.90	38.503	
16,300.00	8,480.00	20,432.99	12,544.00	133.88	134.46	147.20	-7,881.17	-3,283.26	4,808.92	4,682.54	126.38	38.052	
16,400.00	8,480.00	20,532.99	12,544.00	135.48	136.01	147.20	-7,981.17	-3,282.28	4,808.93	4,681.07	127.86	37.612	
16,500.00	8,480.00	20,632.99	12,544.00	137.09	137.57	147.19	-8,081.16	-3,281.30	4,808.94	4,679.60	129.34	37.182	
16,600.00	8,480.00	20,732.99	12,544.00	138.70	139.13	147.19	-8,181.16	-3,280.33	4,808.95	4,678.13	130.82	36.760	
16,700.00	8,480.00	20,832.99	12,544.00	140.30	140.70	147.19	-8,281.15	-3,279.35	4,808.96	4,676.66	132.30	36.348	
16,800.00	8,480.00	20,932.99	12,544.00	141.91	142.26	147.19	-8,381.15	-3,278.38	4,808.97	4,675.18	133.78	35.946	
16,900.00	8,480.00	21,032.99	12,544.00	143.52	143.83	147.19	-8,481.14	-3,277.40	4,808.98	4,673.71	135.27	35.551	
17,000.00	8,480.00	21,132.99	12,544.00	145.13	145.40	147.19	-8,581.14	-3,276.43	4,808.99	4,672.23	136.75	35.165	
17,100.00	8,480.00	21,232.99	12,544.00	146.75	146.97	147.19	-8,681.14	-3,275.45	4,809.00	4,670.76	138.24	34.787	
17,200.00	8,480.00	21,332.99	12,544.00	148.36	148.54	147.19	-8,781.13	-3,274.48	4,809.01	4,669.28	139.73	34.417	
17,300.00	8,480.00	21,432.99	12,544.00	149.97	150.12	147.19	-8,881.13	-3,273.50	4,809.02	4,667.80	141.22	34.054	
17,400.00	8,480.00	21,532.99	12,544.00	151.59	151.70	147.19	-8,981.12	-3,272.52	4,809.03	4,666.32	142.71	33.698	
17,500.00	8,480.00	21,632.99	12,544.00	153.20	153.27	147.19	-9,081.12	-3,271.55	4,809.03	4,664.83	144.20	33.350	
17,600.00	8,480.00	21,732.99	12,544.00	154.82	154.85	147.19	-9,181.11	-3,270.57	4,809.04	4,663.35	145.69	33.008	
17,700.00	8,480.00	21,832.99	12,544.00	156.44	156.43	147.19	-9,281.11	-3,269.60	4,809.05	4,661.87	147.19	32.673	
17,800.00	8,480.00	21,932.99	12,544.00	158.05	158.02	147.19	-9,381.10	-3,268.62	4,809.06	4,660.38	148.68	32.344	
17,900.00	8,480.00	22,032.99	12,544.00	159.67	159.60	147.19	-9,481.10	-3,267.65	4,809.07	4,658.89	150.18	32.022	
18,000.00	8,480.00	22,132.99	12,544.00	161.29	161.18	147.19	-9,581.09	-3,266.67	4,809.08	4,657.41	151.68	31.706	
18,100.00	8,480.00	22,232.99	12,544.00	162.91	162.77	147.19	-9,681.09	-3,265.70	4,809.09	4,655.92	153.17	31.396	
18,200.00	8,480.00	22,332.99	12,544.00	164.53	164.36	147.19	-9,781.08	-3,264.72	4,809.10	4,654.43	154.67	31.093	
18,300.00	8,480.00	22,432.99	12,544.00	166.15	165.95	147.19	-9,881.08	-3,263.74	4,809.11	4,652.94	156.17	30.795	
18,400.00	8,480.00	22,532.99	12,544.00	167.77	167.54	147.19	-9,981.07	-3,262.77	4,809.12	4,651.46	157.66	30.503	
18,500.00	8,480.00	22,632.99	12,544.00	169.40	169.13	147.19	-10,081.07	-3,261.79	4,809.13	4,649.97	159.16	30.216	
18,502.24	8,480.00	22,635.23	12,544.00	169.43	169.16	147.19	-10,083.30	-3,261.77	4,809.13	4,649.94	159.19	30.209	
18,600.00	8,480.00	22,715.49	12,544.00	171.02	170.44	147.19	-10,163.56	-3,260.99	4,809.17	4,648.63	160.54	29.956	
18,700.00	8,480.00	22,715.49	12,544.00	172.64	170.44	147.19	-10,163.56	-3,260.99	4,810.58	4,649.26	161.32	29.820	
18,800.00	8,480.00	22,715.49	12,544.00	174.26	170.44	147.19	-10,163.56	-3,260.99	4,814.07	4,652.03	162.05	29.708	
18,900.00	8,480.00	22,715.49	12,544.00	175.89	170.44	147.19	-10,163.56	-3,260.99	4,819.64	4,656.93	162.71	29.621	
19,000.00	8,480.00	22,715.49	12,544.00	177.51	170.44	147.19	-10,163.56	-3,260.99	4,827.26	4,663.94	163.32	29.557	
19,100.00	8,480.00	22,715.49	12,544.00	179.14	170.44	147.19	-10,163.56	-3,260.99	4,836.95	4,673.08	163.87	29.517	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.15 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design PF Fed Com - PF Fed Com 801H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,200.00	8,480.00	22,715.49	12,544.00	180.76	170.44	147.19	-10,163.56	-3,260.99	4,848.68	4,684.32	164.36	29.500 SF	
19,300.00	8,480.00	22,715.49	12,544.00	182.39	170.44	147.19	-10,163.56	-3,260.99	4,862.43	4,697.64	164.79	29.507	
19,400.00	8,480.00	22,715.49	12,544.00	184.02	170.44	147.19	-10,163.56	-3,260.99	4,878.20	4,713.04	165.16	29.537	
19,500.00	8,480.00	22,715.49	12,544.00	185.64	170.44	147.19	-10,163.56	-3,260.99	4,895.96	4,730.49	165.47	29.587	
19,600.00	8,480.00	22,715.49	12,544.00	187.27	170.44	147.19	-10,163.56	-3,260.99	4,915.69	4,749.95	165.74	29.659	
19,700.00	8,480.00	22,715.49	12,544.00	188.90	170.44	147.19	-10,163.56	-3,260.99	4,937.37	4,771.44	165.93	29.755	
19,800.00	8,480.00	22,715.49	12,544.00	190.53	170.44	147.19	-10,163.56	-3,260.99	4,960.97	4,794.89	166.08	29.871	
19,899.80	8,480.00	22,715.49	12,544.00	192.15	170.44	147.19	-10,163.56	-3,260.99	4,986.41	4,820.23	166.18	30.007	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	22.00	22.00	0.00	0.03	-96.34	-316.72	-2,850.03	2,867.58				
100.00	100.00	122.00	122.00	0.13	0.20	-96.34	-316.72	-2,850.03	2,867.58	2,867.34	0.24	N/A	
200.00	200.00	222.00	222.00	0.48	0.56	-96.34	-316.72	-2,850.03	2,867.58	2,866.83	0.74	3,863.343	
300.00	300.00	322.00	322.00	0.84	0.92	-96.34	-316.72	-2,850.03	2,867.58	2,866.33	1.25	2,297.082	
400.00	400.00	422.00	422.00	1.20	1.28	-96.34	-316.72	-2,850.03	2,867.58	2,865.82	1.75	1,633.992	
500.00	500.00	522.00	522.00	1.56	1.64	-96.34	-316.72	-2,850.03	2,867.58	2,865.32	2.26	1,267.881	
600.00	600.00	622.00	622.00	1.92	2.00	-96.34	-316.72	-2,850.03	2,867.58	2,864.81	2.77	1,035.773	
700.00	700.00	722.00	722.00	2.28	2.36	-96.34	-316.72	-2,850.03	2,867.58	2,864.30	3.28	875.487	
800.00	800.00	822.00	822.00	2.63	2.71	-96.34	-316.72	-2,850.03	2,867.58	2,863.79	3.78	758.157	
900.00	900.00	922.00	922.00	2.99	3.07	-96.34	-316.72	-2,850.03	2,867.58	2,863.29	4.29	668.557	
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-96.34	-316.72	-2,850.03	2,867.58	2,862.78	4.80	597.895	
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-96.34	-316.72	-2,850.03	2,867.58	2,862.27	5.30	540.742	
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-96.34	-316.72	-2,850.03	2,867.58	2,861.77	5.81	493.561	
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-96.34	-316.72	-2,850.03	2,867.58	2,861.26	6.32	453.953	
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-96.34	-316.72	-2,850.03	2,867.58	2,860.75	6.82	420.229	
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-96.34	-316.72	-2,850.03	2,867.58	2,860.25	7.33	391.169	
1,600.00	1,600.00	1,622.00	1,622.00	5.50	5.58	-96.34	-316.72	-2,850.03	2,867.58	2,859.74	7.84	365.868	
1,700.00	1,700.00	1,722.00	1,722.00	5.86	5.94	-96.34	-316.72	-2,850.03	2,867.58	2,859.23	8.34	343.642	
1,800.00	1,800.00	1,822.00	1,822.00	6.22	6.30	-96.34	-316.72	-2,850.03	2,867.58	2,858.73	8.85	323.961	
1,900.00	1,900.00	1,922.00	1,922.00	6.58	6.66	-96.34	-316.72	-2,850.03	2,867.58	2,858.22	9.36	306.412	
2,000.00	2,000.00	2,022.00	2,022.00	6.94	7.02	-96.34	-316.72	-2,850.03	2,867.58	2,857.71	9.87	290.667	
2,100.00	2,099.99	2,121.99	2,121.99	7.29	7.37	-17.56	-316.72	-2,850.03	2,866.33	2,855.96	10.37	276.478	
2,200.00	2,199.91	2,238.92	2,238.92	7.63	7.79	-17.60	-316.55	-2,849.94	2,862.52	2,851.61	10.91	262.434	
2,300.00	2,299.69	2,415.77	2,415.66	7.98	8.42	-17.61	-311.41	-2,847.05	2,854.35	2,842.75	11.60	246.145	
2,400.00	2,399.27	2,590.86	2,590.18	8.34	9.05	-17.54	-299.30	-2,840.25	2,841.02	2,828.75	12.28	231.438	
2,500.00	2,498.57	2,730.00	2,728.33	8.69	9.55	-17.45	-284.93	-2,832.19	2,822.89	2,810.03	12.87	219.395	
2,600.00	2,597.54	2,827.59	2,825.14	9.06	9.91	-17.42	-274.14	-2,826.13	2,801.94	2,788.58	13.36	209.727	
2,616.45	2,613.78	2,843.61	2,841.02	9.12	9.97	-17.42	-272.37	-2,825.13	2,798.26	2,784.82	13.44	208.171	
2,700.00	2,696.24	2,924.87	2,921.63	9.43	10.27	-17.32	-263.38	-2,820.09	2,779.41	2,765.56	13.85	200.622	
2,800.00	2,794.94	3,022.14	3,018.12	9.81	10.63	-17.20	-252.62	-2,814.05	2,756.86	2,742.51	14.35	192.121	
2,900.00	2,893.64	3,119.41	3,114.60	10.19	10.99	-17.09	-241.86	-2,808.01	2,734.33	2,719.48	14.85	184.155	
3,000.00	2,992.34	3,216.68	3,211.09	10.58	11.35	-16.97	-231.10	-2,801.97	2,711.80	2,696.45	15.35	176.677	
3,100.00	3,091.04	3,313.95	3,307.57	10.97	11.72	-16.84	-220.35	-2,795.93	2,689.28	2,673.43	15.85	169.649	
3,200.00	3,189.74	3,411.22	3,404.05	11.37	12.09	-16.72	-209.59	-2,789.89	2,666.78	2,650.42	16.36	163.034	
3,300.00	3,288.45	3,508.49	3,500.54	11.77	12.46	-16.59	-198.83	-2,783.85	2,644.28	2,627.42	16.86	156.798	
3,400.00	3,387.15	3,605.76	3,597.02	12.17	12.84	-16.46	-188.07	-2,777.81	2,621.80	2,604.43	17.37	150.911	
3,500.00	3,485.85	3,703.03	3,693.51	12.58	13.21	-16.33	-177.32	-2,771.77	2,599.34	2,581.45	17.88	145.348	
3,600.00	3,584.55	3,800.30	3,789.99	12.98	13.58	-16.20	-166.56	-2,765.73	2,576.88	2,558.49	18.40	140.083	
3,700.00	3,683.25	3,897.57	3,886.48	13.39	13.96	-16.07	-155.80	-2,759.69	2,554.44	2,535.53	18.91	135.094	
3,800.00	3,781.95	3,994.84	3,982.96	13.80	14.34	-15.93	-145.04	-2,753.65	2,532.02	2,512.59	19.42	130.361	
3,900.00	3,880.65	4,092.11	4,079.44	14.22	14.72	-15.79	-134.29	-2,747.61	2,509.60	2,489.66	19.94	125.866	
4,000.00	3,979.35	4,189.38	4,175.93	14.63	15.10	-15.65	-123.53	-2,741.57	2,487.20	2,466.75	20.46	121.592	
4,100.00	4,078.05	4,286.65	4,272.41	15.05	15.48	-15.50	-112.77	-2,735.53	2,464.82	2,443.85	20.97	117.523	
4,200.00	4,176.75	4,383.92	4,368.90	15.47	15.86	-15.35	-102.01	-2,729.49	2,442.45	2,420.96	21.49	113.646	
4,300.00	4,275.45	4,481.19	4,465.38	15.89	16.24	-15.20	-91.26	-2,723.45	2,420.10	2,398.09	22.01	109.949	
4,400.00	4,374.15	4,578.46	4,561.87	16.31	16.62	-15.05	-80.50	-2,717.41	2,397.77	2,375.23	22.53	106.418	
4,500.00	4,472.85	4,675.73	4,658.35	16.73	17.01	-14.89	-69.74	-2,711.37	2,375.45	2,352.39	23.05	103.044	
4,600.00	4,571.55	4,773.00	4,754.83	17.15	17.39	-14.73	-58.98	-2,705.33	2,353.15	2,329.57	23.57	99.817	
4,700.00	4,670.25	4,870.27	4,851.32	17.57	17.77	-14.57	-48.23	-2,699.29	2,330.86	2,306.76	24.10	96.728	
4,800.00	4,768.95	4,967.54	4,947.80	18.00	18.16	-14.40	-37.47	-2,693.25	2,308.60	2,283.98	24.62	93.768	
4,900.00	4,867.65	5,064.81	5,044.29	18.42	18.54	-14.24	-26.71	-2,687.21	2,286.35	2,261.20	25.14	90.930	
5,000.00	4,966.35	5,162.08	5,140.77	18.85	18.93	-14.06	-15.95	-2,681.17	2,264.12	2,238.45	25.67	88.206	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.05	5,259.35	5,237.26	19.28	19.32	-13.89	-5.19	-2,675.13	2,241.91	2,215.72	26.19	85.591	
5,200.00	5,163.76	5,356.62	5,333.74	19.70	19.70	-13.71	5.56	-2,669.09	2,219.72	2,193.01	26.72	83.077	
5,300.00	5,262.46	5,453.89	5,430.23	20.13	20.09	-13.53	16.32	-2,663.05	2,197.56	2,170.31	27.25	80.659	
5,400.00	5,361.16	5,551.16	5,526.71	20.56	20.48	-13.34	27.08	-2,657.01	2,175.41	2,147.64	27.77	78.332	
5,500.00	5,459.86	5,648.43	5,623.19	20.99	20.86	-13.15	37.84	-2,650.97	2,153.29	2,124.99	28.30	76.091	
5,600.00	5,558.56	5,745.70	5,719.68	21.42	21.25	-12.96	48.59	-2,644.93	2,131.19	2,102.37	28.83	73.932	
5,700.00	5,657.26	5,842.97	5,816.16	21.85	21.64	-12.76	59.35	-2,638.89	2,109.12	2,079.76	29.35	71.850	
5,800.00	5,755.96	5,940.24	5,912.65	22.28	22.03	-12.56	70.11	-2,632.85	2,087.06	2,057.18	29.88	69.842	
5,900.00	5,854.66	6,037.51	6,009.13	22.71	22.42	-12.35	80.87	-2,626.81	2,065.04	2,034.63	30.41	67.903	
6,000.00	5,953.36	6,134.78	6,105.62	23.14	22.81	-12.14	91.62	-2,620.77	2,043.04	2,012.10	30.94	66.030	
6,100.00	6,052.06	6,232.05	6,202.10	23.57	23.20	-11.93	102.38	-2,614.73	2,021.07	1,989.60	31.47	64.220	
6,200.00	6,150.76	6,329.32	6,298.58	24.01	23.59	-11.71	113.14	-2,608.69	1,999.12	1,967.12	32.00	62.470	
6,300.00	6,249.46	6,426.59	6,395.07	24.44	23.98	-11.48	123.90	-2,602.66	1,977.21	1,944.67	32.53	60.778	
6,400.00	6,348.16	6,523.86	6,491.55	24.87	24.37	-11.25	134.65	-2,596.62	1,955.32	1,922.26	33.06	59.139	
6,500.00	6,446.86	6,621.13	6,588.04	25.30	24.76	-11.02	145.41	-2,590.58	1,933.47	1,899.87	33.59	57.553	
6,600.00	6,545.56	6,718.40	6,684.52	25.74	25.15	-10.78	156.17	-2,584.54	1,911.64	1,877.52	34.13	56.017	
6,700.00	6,644.26	6,815.67	6,781.01	26.17	25.54	-10.53	166.93	-2,578.50	1,889.85	1,855.19	34.66	54.528	
6,804.31	6,747.22	6,917.13	6,881.65	26.62	25.94	-10.27	178.15	-2,572.20	1,867.16	1,831.94	35.21	53.023	
6,900.00	6,841.85	7,000.00	6,963.85	27.03	26.28	-9.99	187.28	-2,567.07	1,847.58	1,811.87	35.71	51.741	
7,000.00	6,941.09	7,085.37	7,048.70	27.44	26.61	-9.74	195.56	-2,562.42	1,830.32	1,794.11	36.22	50.538	
7,100.00	7,040.61	7,166.25	7,129.25	27.83	26.92	-9.54	201.87	-2,558.88	1,816.62	1,779.91	36.71	49.487	
7,200.00	7,140.36	7,247.72	7,210.52	28.20	27.22	-9.39	206.73	-2,556.15	1,806.48	1,769.29	37.19	48.570	
7,300.00	7,240.26	7,329.62	7,292.33	28.55	27.52	-9.29	210.09	-2,554.27	1,799.91	1,762.24	37.67	47.784	
7,400.00	7,340.24	7,411.77	7,374.45	28.88	27.81	-9.23	211.92	-2,553.24	1,796.90	1,758.77	38.13	47.124	
7,420.77	7,361.00	7,428.84	7,391.53	28.95	27.86	-88.02	212.10	-2,553.13	1,796.73	1,758.50	38.23	47.004	
7,487.75	7,427.99	7,487.31	7,449.99	29.16	28.06	-88.01	212.28	-2,553.03	1,796.61	1,758.08	38.53	46.626	
7,500.00	7,440.24	7,499.55	7,462.24	29.20	28.10	-88.01	212.28	-2,553.03	1,796.61	1,758.02	38.59	46.555	
7,600.00	7,540.24	7,599.55	7,562.24	29.52	28.44	-88.01	212.28	-2,553.03	1,796.61	1,757.54	39.07	45.983	
7,700.00	7,640.24	7,699.55	7,662.24	29.84	28.77	-88.01	212.28	-2,553.03	1,796.61	1,757.06	39.55	45.424	
7,800.00	7,740.24	7,799.55	7,762.24	30.16	29.11	-88.01	212.28	-2,553.03	1,796.61	1,756.58	40.03	44.878	
7,900.00	7,840.24	7,899.55	7,862.24	30.48	29.45	-88.01	212.28	-2,553.03	1,796.61	1,756.10	40.52	44.344	
7,966.81	7,907.04	7,966.36	7,929.04	30.69	29.67	-88.01	212.28	-2,553.03	1,796.61	1,755.77	40.84	43.994	CC
8,000.00	7,940.22	7,999.53	7,962.22	30.79	29.79	92.58	212.28	-2,553.03	1,796.66	1,755.66	41.00	43.826	ES
8,050.00	7,989.94	8,049.26	8,011.94	30.94	29.95	92.72	212.28	-2,553.03	1,796.89	1,755.66	41.23	43.585	
8,100.00	8,039.04	8,098.36	8,061.04	31.08	30.12	92.96	212.28	-2,553.03	1,797.37	1,755.91	41.45	43.358	
8,150.00	8,087.13	8,146.45	8,109.13	31.21	30.28	93.30	212.28	-2,553.03	1,798.14	1,756.47	41.68	43.145	
8,200.00	8,133.85	8,193.17	8,155.85	31.33	30.44	93.72	212.28	-2,553.03	1,799.31	1,757.41	41.89	42.949	
8,250.00	8,178.84	8,238.16	8,200.84	31.45	30.59	94.17	212.28	-2,553.03	1,800.97	1,758.87	42.11	42.771	
8,300.00	8,221.77	8,281.09	8,243.77	31.55	30.74	94.64	212.28	-2,553.03	1,803.27	1,760.95	42.32	42.613	
8,350.00	8,262.30	8,321.62	8,284.30	31.65	30.88	95.08	212.28	-2,553.03	1,806.33	1,763.81	42.53	42.477	
8,400.00	8,300.13	8,359.44	8,322.13	31.74	31.00	95.47	212.28	-2,553.03	1,810.30	1,767.57	42.73	42.363	
8,450.00	8,334.96	8,394.28	8,356.96	31.82	31.12	95.76	212.28	-2,553.03	1,815.33	1,772.39	42.94	42.275	
8,500.00	8,366.54	8,425.86	8,388.54	31.89	31.23	95.91	212.28	-2,553.03	1,821.54	1,778.39	43.15	42.213	
8,550.00	8,394.62	8,453.94	8,416.62	31.96	31.33	95.88	212.28	-2,553.03	1,829.05	1,785.68	43.36	42.179	
8,600.00	8,418.99	8,478.31	8,440.99	32.03	31.41	95.65	212.28	-2,553.03	1,837.95	1,794.37	43.58	42.174	
8,650.00	8,439.47	8,498.78	8,461.47	32.11	31.48	95.19	212.28	-2,553.03	1,848.30	1,804.50	43.80	42.199	
8,700.00	8,455.89	8,515.21	8,477.89	32.19	31.53	94.47	212.28	-2,553.03	1,860.14	1,816.12	44.02	42.254	
8,750.00	8,468.13	8,527.45	8,490.13	32.29	31.58	93.47	212.28	-2,553.03	1,873.46	1,829.21	44.25	42.340	
8,800.00	8,476.11	8,535.43	8,498.11	32.40	31.60	92.18	212.28	-2,553.03	1,888.19	1,843.72	44.47	42.457	
8,850.00	8,479.75	8,539.07	8,501.75	32.54	31.62	90.60	212.28	-2,553.03	1,904.27	1,859.57	44.70	42.604	
8,866.81	8,480.00	8,539.32	8,502.00	32.59	31.62	90.00	212.28	-2,553.03	1,909.95	1,865.17	44.77	42.660	
8,900.00	8,480.00	8,539.32	8,502.00	32.70	31.62	90.00	212.28	-2,553.03	1,921.55	1,876.63	44.92	42.777	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	8,480.00	8,539.32	8,502.00	33.09	31.62	90.00	212.28	-2,553.03	1,959.49	1,914.09	45.40	43.161	
9,100.00	8,480.00	8,539.32	8,502.00	33.57	31.62	90.00	212.28	-2,553.03	2,001.71	1,955.80	45.91	43.598	
9,200.00	8,480.00	8,539.32	8,502.00	34.14	31.62	90.00	212.28	-2,553.03	2,047.95	2,001.50	46.45	44.092	
9,300.00	8,480.00	8,539.32	8,502.00	34.79	31.62	90.00	212.28	-2,553.03	2,097.94	2,050.95	46.99	44.646	
9,400.00	8,480.00	8,539.32	8,502.00	35.50	31.62	90.00	212.28	-2,553.03	2,151.42	2,103.89	47.53	45.260	
9,500.00	8,480.00	8,539.32	8,502.00	36.28	31.62	90.00	212.28	-2,553.03	2,208.14	2,160.06	48.07	45.934	
9,600.00	8,480.00	8,539.32	8,502.00	37.11	31.62	90.00	212.28	-2,553.03	2,267.84	2,219.25	48.60	46.667	
9,700.00	8,480.00	8,539.32	8,502.00	38.01	31.62	90.00	212.28	-2,553.03	2,330.31	2,281.21	49.10	47.456	
9,800.00	8,480.00	8,539.32	8,502.00	38.95	31.62	90.00	212.28	-2,553.03	2,395.33	2,345.74	49.59	48.300	
9,900.00	8,480.00	8,539.32	8,502.00	39.94	31.62	90.00	212.28	-2,553.03	2,462.70	2,412.64	50.06	49.195	
10,000.00	8,480.00	8,539.32	8,502.00	40.97	31.62	90.00	212.28	-2,553.03	2,532.22	2,481.72	50.50	50.142	
10,100.00	8,480.00	8,539.32	8,502.00	42.04	31.62	90.00	212.28	-2,553.03	2,603.72	2,552.80	50.92	51.135	
10,200.00	8,480.00	8,539.32	8,502.00	43.14	31.62	90.00	212.28	-2,553.03	2,677.06	2,625.74	51.31	52.170	
10,300.00	8,480.00	8,539.32	8,502.00	44.29	31.62	90.00	212.28	-2,553.03	2,752.07	2,700.38	51.69	53.245	
10,400.00	8,480.00	8,539.32	8,502.00	45.46	31.62	90.00	212.28	-2,553.03	2,828.63	2,776.59	52.04	54.357	
10,500.00	8,480.00	8,539.32	8,502.00	46.66	31.62	90.00	212.28	-2,553.03	2,906.61	2,854.24	52.37	55.503	
10,600.00	8,480.00	8,539.32	8,502.00	47.89	31.62	90.00	212.28	-2,553.03	2,985.91	2,933.23	52.68	56.680	
10,700.00	8,480.00	8,539.32	8,502.00	49.14	31.62	90.00	212.28	-2,553.03	3,066.41	3,013.44	52.97	57.886	
10,800.00	8,480.00	8,539.32	8,502.00	50.42	31.62	90.00	212.28	-2,553.03	3,148.04	3,094.79	53.25	59.120	
10,900.00	8,480.00	8,539.32	8,502.00	51.72	31.62	90.00	212.28	-2,553.03	3,230.69	3,177.19	53.51	60.378	
11,000.00	8,480.00	8,539.32	8,502.00	53.03	31.62	90.00	212.28	-2,553.03	3,314.31	3,260.56	53.75	61.660	
11,100.00	8,480.00	8,539.32	8,502.00	54.37	31.62	90.00	212.28	-2,553.03	3,398.81	3,344.83	53.98	62.963	
11,200.00	8,480.00	8,539.32	8,502.00	55.72	31.62	90.00	212.28	-2,553.03	3,484.13	3,429.93	54.20	64.288	
11,300.00	8,480.00	8,539.32	8,502.00	57.09	31.62	90.00	212.28	-2,553.03	3,570.21	3,515.81	54.40	65.632	
11,400.00	8,480.00	8,539.32	8,502.00	58.47	31.62	90.00	212.28	-2,553.03	3,657.00	3,602.41	54.59	66.992	
11,500.00	8,480.00	8,539.32	8,502.00	59.86	31.62	90.00	212.28	-2,553.03	3,744.45	3,689.68	54.77	68.368	
11,600.00	8,480.00	8,539.32	8,502.00	61.27	31.62	90.00	212.28	-2,553.03	3,832.51	3,777.57	54.94	69.759	
11,700.00	8,480.00	8,539.32	8,502.00	62.69	31.62	90.00	212.28	-2,553.03	3,921.15	3,866.05	55.10	71.163	
11,800.00	8,480.00	8,539.32	8,502.00	64.13	31.62	90.00	212.28	-2,553.03	4,010.32	3,955.06	55.25	72.579	
11,900.00	8,480.00	8,539.32	8,502.00	65.57	31.62	90.00	212.28	-2,553.03	4,099.99	4,044.59	55.40	74.006	
12,000.00	8,480.00	8,539.32	8,502.00	67.02	31.62	90.00	212.28	-2,553.03	4,190.13	4,134.59	55.54	75.445	
12,100.00	8,480.00	8,539.32	8,502.00	68.48	31.62	90.00	212.28	-2,553.03	4,280.70	4,225.03	55.67	76.892	
12,200.00	8,480.00	16,230.63	12,446.00	69.95	74.12	156.86	-3,772.54	-2,403.90	4,288.97	4,226.62	62.34	68.796	
12,300.00	8,480.00	16,330.63	12,446.00	71.42	75.45	156.86	-3,872.53	-2,402.91	4,288.97	4,225.50	63.47	67.572	
12,400.00	8,480.00	16,430.63	12,446.00	72.91	76.79	156.86	-3,972.53	-2,401.93	4,288.98	4,224.36	64.61	66.381	
12,500.00	8,480.00	16,530.63	12,446.00	74.40	78.14	156.86	-4,072.52	-2,400.95	4,288.98	4,223.22	65.76	65.224	
12,600.00	8,480.00	16,630.63	12,446.00	75.90	79.50	156.86	-4,172.52	-2,399.96	4,288.98	4,222.07	66.91	64.098	
12,700.00	8,480.00	16,730.63	12,446.00	77.40	80.87	156.86	-4,272.51	-2,398.98	4,288.99	4,220.91	68.08	63.003	
12,800.00	8,480.00	16,830.63	12,446.00	78.91	82.25	156.86	-4,372.51	-2,398.00	4,288.99	4,219.74	69.25	61.938	
12,900.00	8,480.00	16,930.63	12,446.00	80.43	83.64	156.86	-4,472.50	-2,397.01	4,288.99	4,218.57	70.42	60.902	
13,000.00	8,480.00	17,030.63	12,446.00	81.95	85.04	156.86	-4,572.50	-2,396.03	4,289.00	4,217.39	71.61	59.895	
13,100.00	8,480.00	17,130.63	12,446.00	83.47	86.45	156.86	-4,672.49	-2,395.04	4,289.00	4,216.20	72.80	58.915	
13,200.00	8,480.00	17,230.63	12,446.00	85.00	87.87	156.86	-4,772.49	-2,394.06	4,289.00	4,215.01	74.00	57.963	
13,300.00	8,480.00	17,330.63	12,446.00	86.54	89.30	156.86	-4,872.49	-2,393.08	4,289.01	4,213.81	75.19	57.039	
13,400.00	8,480.00	17,430.63	12,446.00	88.08	90.73	156.86	-4,972.48	-2,392.09	4,289.01	4,212.61	76.40	56.140	
13,500.00	8,480.00	17,530.63	12,446.00	89.62	92.17	156.86	-5,072.48	-2,391.11	4,289.02	4,211.41	77.61	55.265	
13,600.00	8,480.00	17,630.63	12,446.00	91.17	93.62	156.86	-5,172.47	-2,390.13	4,289.02	4,210.20	78.82	54.414	
13,700.00	8,480.00	17,730.63	12,446.00	92.72	95.07	156.86	-5,272.47	-2,389.14	4,289.02	4,208.98	80.04	53.585	
13,800.00	8,480.00	17,830.63	12,446.00	94.27	96.53	156.86	-5,372.46	-2,388.16	4,289.03	4,207.76	81.26	52.779	
13,900.00	8,480.00	17,930.63	12,446.00	95.83	98.00	156.86	-5,472.46	-2,387.17	4,289.03	4,206.54	82.49	51.993	
14,000.00	8,480.00	18,030.63	12,446.00	97.39	99.47	156.86	-5,572.45	-2,386.19	4,289.03	4,205.31	83.72	51.229	
14,100.00	8,480.00	18,130.63	12,446.00	98.95	100.95	156.86	-5,672.45	-2,385.21	4,289.04	4,204.08	84.96	50.484	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	8,480.00	18,230.63	12,446.00	100.52	102.44	156.86	-5,772.44	-2,384.22	4,289.04	4,202.84	86.20	49.758	
14,300.00	8,480.00	18,330.63	12,446.00	102.09	103.92	156.86	-5,872.44	-2,383.24	4,289.04	4,201.60	87.44	49.051	
14,400.00	8,480.00	18,430.63	12,446.00	103.66	105.42	156.86	-5,972.43	-2,382.26	4,289.05	4,200.36	88.69	48.361	
14,500.00	8,480.00	18,530.63	12,446.00	105.23	106.92	156.86	-6,072.43	-2,381.27	4,289.05	4,199.11	89.94	47.689	
14,600.00	8,480.00	18,630.63	12,446.00	106.81	108.42	156.86	-6,172.42	-2,380.29	4,289.05	4,197.87	91.19	47.035	
14,700.00	8,480.00	18,730.63	12,446.00	108.39	109.93	156.86	-6,272.42	-2,379.30	4,289.06	4,196.62	92.44	46.398	
14,800.00	8,480.00	18,830.63	12,446.00	109.97	111.44	156.86	-6,372.41	-2,378.32	4,289.06	4,195.37	93.70	45.777	
14,900.00	8,480.00	18,930.63	12,446.00	111.55	112.95	156.86	-6,472.41	-2,377.34	4,289.07	4,194.11	94.96	45.169	
15,000.00	8,480.00	19,030.63	12,446.00	113.13	114.47	156.86	-6,572.40	-2,376.35	4,289.07	4,192.85	96.22	44.576	
15,100.00	8,480.00	19,130.63	12,446.00	114.72	115.99	156.86	-6,672.40	-2,375.37	4,289.07	4,191.59	97.48	43.999	
15,200.00	8,480.00	19,230.63	12,446.00	116.31	117.52	156.86	-6,772.39	-2,374.39	4,289.08	4,190.33	98.75	43.436	
15,300.00	8,480.00	19,330.63	12,446.00	117.90	119.05	156.86	-6,872.39	-2,373.40	4,289.08	4,189.07	100.01	42.885	
15,400.00	8,480.00	19,430.63	12,446.00	119.49	120.58	156.86	-6,972.38	-2,372.42	4,289.08	4,187.80	101.28	42.348	
15,500.00	8,480.00	19,530.63	12,446.00	121.08	122.12	156.86	-7,072.38	-2,371.43	4,289.09	4,186.53	102.55	41.823	
15,600.00	8,480.00	19,630.63	12,446.00	122.68	123.65	156.86	-7,172.37	-2,370.45	4,289.09	4,185.26	103.83	41.310	
15,700.00	8,480.00	19,730.63	12,446.00	124.27	125.20	156.86	-7,272.37	-2,369.47	4,289.09	4,183.99	105.10	40.809	
15,800.00	8,480.00	19,830.63	12,446.00	125.87	126.74	156.86	-7,372.36	-2,368.48	4,289.10	4,182.72	106.38	40.319	
15,900.00	8,480.00	19,930.63	12,446.00	127.47	128.29	156.86	-7,472.36	-2,367.50	4,289.10	4,181.44	107.66	39.840	
16,000.00	8,480.00	20,030.63	12,446.00	129.07	129.84	156.86	-7,572.35	-2,366.52	4,289.11	4,180.17	108.94	39.372	
16,100.00	8,480.00	20,130.63	12,446.00	130.67	131.39	156.86	-7,672.35	-2,365.53	4,289.11	4,178.89	110.22	38.913	
16,200.00	8,480.00	20,230.63	12,446.00	132.27	132.94	156.86	-7,772.34	-2,364.55	4,289.11	4,177.61	111.51	38.465	
16,300.00	8,480.00	20,330.63	12,446.00	133.88	134.50	156.86	-7,872.34	-2,363.56	4,289.12	4,176.32	112.79	38.027	
16,400.00	8,480.00	20,430.63	12,446.00	135.48	136.06	156.86	-7,972.34	-2,362.58	4,289.12	4,175.04	114.08	37.598	
16,500.00	8,480.00	20,530.63	12,446.00	137.09	137.62	156.86	-8,072.33	-2,361.60	4,289.12	4,173.76	115.36	37.179	
16,600.00	8,480.00	20,630.63	12,446.00	138.70	139.18	156.86	-8,172.33	-2,360.61	4,289.13	4,172.48	116.65	36.769	
16,700.00	8,480.00	20,730.63	12,446.00	140.30	140.75	156.86	-8,272.32	-2,359.63	4,289.13	4,171.19	117.94	36.366	
16,800.00	8,480.00	20,830.63	12,446.00	141.91	142.31	156.86	-8,372.32	-2,358.65	4,289.13	4,169.90	119.23	35.972	
16,900.00	8,480.00	20,930.63	12,446.00	143.52	143.88	156.86	-8,472.31	-2,357.66	4,289.14	4,168.61	120.53	35.587	
17,000.00	8,480.00	21,030.63	12,446.00	145.13	145.45	156.86	-8,572.31	-2,356.68	4,289.14	4,167.32	121.82	35.209	
17,100.00	8,480.00	21,130.63	12,446.00	146.75	147.02	156.86	-8,672.30	-2,355.69	4,289.14	4,166.03	123.11	34.840	
17,200.00	8,480.00	21,230.63	12,446.00	148.36	148.60	156.86	-8,772.30	-2,354.71	4,289.15	4,164.74	124.40	34.477	
17,300.00	8,480.00	21,330.63	12,446.00	149.97	150.17	156.86	-8,872.29	-2,353.73	4,289.15	4,163.45	125.70	34.122	
17,400.00	8,480.00	21,430.63	12,446.00	151.59	151.75	156.86	-8,972.29	-2,352.74	4,289.16	4,162.16	127.00	33.774	
17,500.00	8,480.00	21,530.63	12,446.00	153.20	153.33	156.86	-9,072.28	-2,351.76	4,289.16	4,160.87	128.29	33.432	
17,600.00	8,480.00	21,630.63	12,446.00	154.82	154.91	156.86	-9,172.28	-2,350.78	4,289.16	4,159.57	129.59	33.098	
17,700.00	8,480.00	21,730.63	12,446.00	156.44	156.49	156.86	-9,272.27	-2,349.79	4,289.17	4,158.28	130.89	32.769	
17,800.00	8,480.00	21,830.63	12,446.00	158.05	158.08	156.86	-9,372.27	-2,348.81	4,289.17	4,156.98	132.19	32.447	
17,900.00	8,480.00	21,930.63	12,446.00	159.67	159.66	156.86	-9,472.26	-2,347.82	4,289.17	4,155.68	133.49	32.130	
18,000.00	8,480.00	22,030.63	12,446.00	161.29	161.25	156.86	-9,572.26	-2,346.84	4,289.18	4,154.38	134.80	31.820	
18,100.00	8,480.00	22,130.63	12,446.00	162.91	162.84	156.86	-9,672.25	-2,345.86	4,289.18	4,153.08	136.10	31.515	
18,200.00	8,480.00	22,230.63	12,446.00	164.53	164.42	156.86	-9,772.25	-2,344.87	4,289.18	4,151.78	137.40	31.216	
18,300.00	8,480.00	22,330.63	12,446.00	166.15	166.01	156.86	-9,872.24	-2,343.89	4,289.19	4,150.48	138.70	30.923	
18,400.00	8,480.00	22,430.63	12,446.00	167.77	167.60	156.86	-9,972.24	-2,342.91	4,289.19	4,149.19	140.01	30.636	
18,500.00	8,480.00	22,530.63	12,446.00	169.40	169.20	156.86	-10,072.23	-2,341.92	4,289.19	4,147.89	141.31	30.353	
18,600.00	8,480.00	22,630.63	12,446.00	171.02	170.79	156.86	-10,172.23	-2,340.94	4,289.20	4,146.59	142.61	30.076	
18,700.00	8,480.00	22,730.63	12,446.00	172.64	172.39	156.86	-10,272.22	-2,339.95	4,289.20	4,145.28	143.92	29.803	
18,800.00	8,480.00	22,830.63	12,446.00	174.26	173.98	156.86	-10,372.22	-2,338.97	4,289.21	4,143.98	145.23	29.535	
18,900.00	8,480.00	22,930.63	12,446.00	175.89	175.58	156.86	-10,472.21	-2,337.99	4,289.21	4,142.68	146.53	29.271	
19,000.00	8,480.00	23,030.63	12,446.00	177.51	177.17	156.86	-10,572.21	-2,337.00	4,289.21	4,141.37	147.84	29.012	
19,100.00	8,480.00	23,130.63	12,446.00	179.14	178.77	156.86	-10,672.20	-2,336.02	4,289.22	4,140.07	149.15	28.758	
19,200.00	8,480.00	23,230.63	12,446.00	180.76	180.37	156.86	-10,772.20	-2,335.04	4,289.22	4,138.76	150.46	28.508	
19,300.00	8,480.00	23,330.63	12,446.00	182.39	181.97	156.86	-10,872.19	-2,334.05	4,289.22	4,137.46	151.76	28.263	

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 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,400.00	8,480.00	23,430.63	12,446.00	184.02	183.57	156.85	-10,972.19	-2,333.07	4,289.23	4,136.16	153.07	28.021	
19,500.00	8,480.00	23,530.63	12,446.00	185.64	185.18	156.85	-11,072.19	-2,332.08	4,289.23	4,134.85	154.38	27.783	
19,600.00	8,480.00	23,630.63	12,446.00	187.27	186.78	156.85	-11,172.18	-2,331.10	4,289.23	4,133.54	155.69	27.549	
19,700.00	8,480.00	23,730.63	12,446.00	188.90	188.38	156.85	-11,272.18	-2,330.12	4,289.24	4,132.24	157.00	27.320	
19,800.00	8,480.00	23,830.63	12,446.00	190.53	189.99	156.85	-11,372.17	-2,329.13	4,289.24	4,130.93	158.31	27.094	
19,800.04	8,480.00	23,830.67	12,446.00	190.53	189.99	156.85	-11,372.21	-2,329.13	4,289.24	4,130.93	158.31	27.094	
19,899.80	8,480.00	23,929.64	12,446.00	192.15	191.58	156.85	-11,471.18	-2,328.16	4,289.25	4,129.63	159.61	26.873	SF

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	22.00	22.00	0.00	0.03	-96.39	-316.49	-2,825.25	2,842.92				
100.00	100.00	122.00	122.00	0.13	0.20	-96.39	-316.49	-2,825.25	2,842.92	2,842.68	0.24	N/A	
200.00	200.00	222.00	222.00	0.48	0.56	-96.39	-316.49	-2,825.25	2,842.92	2,842.18	0.74	3,830.130	
300.00	300.00	322.00	322.00	0.84	0.92	-96.39	-316.49	-2,825.25	2,842.92	2,841.68	1.25	2,277.334	
400.00	400.00	422.00	422.00	1.20	1.28	-96.39	-316.49	-2,825.25	2,842.92	2,841.17	1.75	1,619.944	
500.00	500.00	522.00	522.00	1.56	1.64	-96.39	-316.49	-2,825.25	2,842.92	2,840.66	2.26	1,256.981	
600.00	600.00	622.00	622.00	1.92	2.00	-96.39	-316.49	-2,825.25	2,842.92	2,840.16	2.77	1,026.869	
700.00	700.00	722.00	722.00	2.28	2.36	-96.39	-316.49	-2,825.25	2,842.92	2,839.65	3.28	867.961	
800.00	800.00	822.00	822.00	2.63	2.71	-96.39	-316.49	-2,825.25	2,842.92	2,839.14	3.78	751.640	
900.00	900.00	922.00	922.00	2.99	3.07	-96.39	-316.49	-2,825.25	2,842.92	2,838.64	4.29	662.809	
1,000.00	1,000.00	1,022.00	1,022.00	3.35	3.43	-96.39	-316.49	-2,825.25	2,842.92	2,838.13	4.80	592.755	
1,100.00	1,100.00	1,122.00	1,122.00	3.71	3.79	-96.39	-316.49	-2,825.25	2,842.92	2,837.62	5.30	536.093	
1,200.00	1,200.00	1,222.00	1,222.00	4.07	4.15	-96.39	-316.49	-2,825.25	2,842.92	2,837.11	5.81	489.318	
1,300.00	1,300.00	1,322.00	1,322.00	4.43	4.51	-96.39	-316.49	-2,825.25	2,842.92	2,836.61	6.32	450.050	
1,400.00	1,400.00	1,422.00	1,422.00	4.79	4.86	-96.39	-316.49	-2,825.25	2,842.92	2,836.10	6.82	416.616	
1,500.00	1,500.00	1,522.00	1,522.00	5.14	5.22	-96.39	-316.49	-2,825.25	2,842.92	2,835.59	7.33	387.806	
1,600.00	1,600.00	1,954.29	1,953.33	5.50	6.76	-96.26	-307.68	-2,804.76	2,840.97	2,832.31	8.66	328.100	
1,700.00	1,700.00	2,437.24	2,425.68	5.86	8.65	-95.66	-268.97	-2,714.63	2,817.22	2,807.15	10.07	279.725	
1,800.00	1,800.00	2,533.77	2,518.86	6.22	9.08	-95.50	-259.01	-2,691.47	2,792.25	2,781.69	10.56	264.364	
1,900.00	1,900.00	2,630.30	2,612.03	6.58	9.51	-95.33	-249.06	-2,668.30	2,767.31	2,756.25	11.06	250.277	
2,000.00	2,000.00	2,726.83	2,705.21	6.94	9.96	-95.17	-239.11	-2,645.13	2,742.38	2,730.83	11.56	237.323	
2,100.00	2,099.99	2,823.06	2,798.10	7.29	10.41	-16.32	-229.19	-2,622.04	2,716.27	2,704.22	12.05	225.361	
2,200.00	2,199.91	2,918.67	2,890.39	7.63	10.87	-16.29	-219.33	-2,599.09	2,687.75	2,675.21	12.55	214.200	
2,300.00	2,299.69	3,013.58	2,982.01	7.98	11.33	-16.29	-209.54	-2,576.31	2,656.86	2,643.81	13.04	203.712	
2,400.00	2,399.27	3,107.73	3,072.89	8.34	11.80	-16.32	-199.83	-2,553.72	2,623.59	2,610.05	13.54	193.832	
2,500.00	2,498.57	3,201.05	3,162.97	8.69	12.26	-16.37	-190.21	-2,531.32	2,587.98	2,573.95	14.03	184.501	
2,600.00	2,597.54	3,293.49	3,252.20	9.06	12.72	-16.45	-180.68	-2,509.13	2,550.03	2,535.52	14.52	175.666	
2,616.45	2,613.78	3,308.61	3,266.79	9.12	12.80	-16.47	-179.12	-2,505.50	2,543.57	2,528.97	14.60	174.241	
2,700.00	2,696.24	3,385.32	3,340.83	9.43	13.19	-16.39	-171.21	-2,487.09	2,510.59	2,495.58	15.00	167.327	
2,800.00	2,794.94	3,477.13	3,429.46	9.81	13.66	-16.31	-161.75	-2,465.06	2,471.11	2,455.62	15.49	159.507	
2,900.00	2,893.64	3,568.94	3,518.08	10.19	14.13	-16.22	-152.28	-2,443.02	2,431.65	2,415.66	15.98	152.141	
3,000.00	2,992.34	3,660.75	3,606.71	10.58	14.60	-16.12	-142.82	-2,420.99	2,392.18	2,375.71	16.48	145.195	
3,100.00	3,091.04	3,752.57	3,695.33	10.97	15.08	-16.03	-133.35	-2,398.95	2,352.73	2,335.76	16.97	138.635	
3,200.00	3,189.74	3,844.38	3,783.96	11.37	15.55	-15.92	-123.88	-2,376.92	2,313.28	2,295.81	17.47	132.433	
3,300.00	3,288.45	3,936.19	3,872.58	11.77	16.03	-15.82	-114.42	-2,354.88	2,273.83	2,255.87	17.97	126.561	
3,400.00	3,387.15	4,028.00	3,961.21	12.17	16.52	-15.71	-104.95	-2,332.85	2,234.39	2,215.93	18.47	120.995	
3,500.00	3,485.85	4,119.82	4,049.83	12.58	17.00	-15.60	-95.48	-2,310.81	2,194.96	2,175.99	18.97	115.713	
3,600.00	3,584.55	4,211.63	4,138.46	12.98	17.49	-15.49	-86.02	-2,288.78	2,155.54	2,136.07	19.47	110.695	
3,700.00	3,683.25	4,303.44	4,227.08	13.39	17.97	-15.37	-76.55	-2,266.74	2,116.12	2,096.14	19.98	105.923	
3,800.00	3,781.95	4,395.25	4,315.71	13.80	18.46	-15.24	-67.08	-2,244.71	2,076.71	2,056.23	20.48	101.379	
3,900.00	3,880.65	4,487.07	4,404.33	14.22	18.95	-15.11	-57.62	-2,222.67	2,037.31	2,016.32	20.99	97.049	
4,000.00	3,979.35	4,578.88	4,492.96	14.63	19.44	-14.98	-48.15	-2,200.64	1,997.92	1,976.42	21.50	92.918	
4,100.00	4,078.05	4,670.69	4,581.58	15.05	19.93	-14.84	-38.69	-2,178.60	1,958.54	1,936.53	22.01	88.973	
4,200.00	4,176.75	4,762.50	4,670.21	15.47	20.42	-14.70	-29.22	-2,156.57	1,919.17	1,896.65	22.52	85.205	
4,300.00	4,275.45	4,854.32	4,758.83	15.89	20.92	-14.55	-19.75	-2,134.53	1,879.81	1,856.78	23.04	81.600	
4,400.00	4,374.15	4,946.13	4,847.46	16.31	21.41	-14.39	-10.29	-2,112.50	1,840.46	1,816.91	23.55	78.149	
4,500.00	4,472.85	5,037.94	4,936.08	16.73	21.91	-14.22	-0.82	-2,090.46	1,801.13	1,777.06	24.07	74.842	
4,600.00	4,571.55	5,129.75	5,024.71	17.15	22.40	-14.05	8.65	-2,068.43	1,761.80	1,737.22	24.58	71.670	
4,700.00	4,670.25	5,221.57	5,113.33	17.57	22.90	-13.87	18.11	-2,046.39	1,722.50	1,697.40	25.10	68.625	
4,800.00	4,768.95	5,313.38	5,201.96	18.00	23.39	-13.68	27.58	-2,024.35	1,683.20	1,657.58	25.62	65.700	
4,900.00	4,867.65	5,405.19	5,290.58	18.42	23.89	-13.49	37.04	-2,002.32	1,643.92	1,617.78	26.14	62.889	
5,000.00	4,966.35	5,497.00	5,379.21	18.85	24.39	-13.28	46.51	-1,980.28	1,604.66	1,578.00	26.66	60.185	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.05	5,588.82	5,467.83	19.28	24.89	-13.06	55.98	-1,958.25	1,565.42	1,538.24	27.19	57.583	
5,200.00	5,163.76	5,680.63	5,556.46	19.70	25.39	-12.84	65.44	-1,936.21	1,526.20	1,498.49	27.71	55.077	
5,300.00	5,262.46	5,772.44	5,645.08	20.13	25.89	-12.60	74.91	-1,914.18	1,487.00	1,458.76	28.24	52.662	
5,400.00	5,361.16	5,864.25	5,733.71	20.56	26.39	-12.34	84.38	-1,892.14	1,447.82	1,419.06	28.76	50.334	
5,500.00	5,459.86	5,956.07	5,822.33	20.99	26.89	-12.08	93.84	-1,870.11	1,408.67	1,379.38	29.29	48.088	
5,600.00	5,558.56	6,047.88	5,910.96	21.42	27.39	-11.79	103.31	-1,848.07	1,369.55	1,339.72	29.82	45.920	
5,700.00	5,657.26	6,139.69	5,999.58	21.85	27.89	-11.50	112.78	-1,826.04	1,330.45	1,300.09	30.36	43.825	
5,800.00	5,755.96	6,231.50	6,088.21	22.28	28.39	-11.18	122.24	-1,804.00	1,291.39	1,260.50	30.89	41.801	
5,900.00	5,854.66	6,323.32	6,176.83	22.71	28.89	-10.84	131.71	-1,781.97	1,252.37	1,220.93	31.43	39.845	
6,000.00	5,953.36	6,415.13	6,265.46	23.14	29.39	-10.49	141.17	-1,759.93	1,213.38	1,181.41	31.97	37.953	
6,100.00	6,052.06	6,506.94	6,354.08	23.57	29.90	-10.11	150.64	-1,737.90	1,174.43	1,141.92	32.51	36.122	
6,200.00	6,150.76	6,598.75	6,442.71	24.01	30.40	-9.70	160.11	-1,715.86	1,135.54	1,102.48	33.06	34.348	
6,300.00	6,249.46	6,690.57	6,531.33	24.44	30.90	-9.26	169.57	-1,693.83	1,096.69	1,063.08	33.61	32.630	
6,400.00	6,348.16	6,782.38	6,619.96	24.87	31.41	-8.80	179.04	-1,671.79	1,057.91	1,023.74	34.16	30.967	
6,500.00	6,446.86	6,857.12	6,692.23	25.30	31.81	-8.40	186.56	-1,654.29	1,019.78	985.03	34.74	29.352	
6,600.00	6,545.56	6,927.85	6,761.04	25.74	32.17	-8.05	193.01	-1,639.27	983.69	948.36	35.32	27.848	
6,700.00	6,644.26	7,000.00	6,831.63	26.17	32.53	-7.73	198.90	-1,625.55	949.74	913.84	35.89	26.461	
6,804.31	6,747.22	7,076.39	6,906.75	26.62	32.87	-7.43	204.38	-1,612.82	916.65	880.18	36.47	25.137	
6,900.00	6,841.85	7,147.96	6,977.44	27.03	33.18	-7.12	208.78	-1,602.56	889.56	852.58	36.98	24.055	
7,000.00	6,941.09	7,224.27	7,053.10	27.44	33.49	-6.84	212.71	-1,593.41	865.94	828.44	37.50	23.092	
7,100.00	7,040.61	7,300.00	7,128.41	27.83	33.78	-6.62	215.82	-1,586.17	847.21	809.21	38.00	22.297	
7,200.00	7,140.36	7,380.51	7,208.68	28.20	34.05	-6.44	218.27	-1,580.47	833.43	794.95	38.47	21.664	
7,300.00	7,240.26	7,459.85	7,287.92	28.55	34.30	-6.33	219.81	-1,576.89	824.66	785.74	38.91	21.192	
7,400.00	7,340.24	7,539.58	7,367.63	28.88	34.54	-6.28	220.48	-1,575.33	820.93	781.60	39.33	20.874	
7,420.77	7,361.00	7,560.95	7,389.00	28.95	34.59	-85.07	220.51	-1,575.25	820.81	781.38	39.43	20.819	
7,449.34	7,389.58	7,583.52	7,411.58	29.04	34.66	-85.07	220.51	-1,575.25	820.79	781.25	39.54	20.761	
7,500.00	7,440.24	7,634.18	7,462.24	29.20	34.79	-85.07	220.51	-1,575.25	820.79	781.02	39.77	20.640	
7,600.00	7,540.24	7,734.18	7,562.24	29.52	35.06	-85.07	220.51	-1,575.25	820.79	780.56	40.23	20.404	
7,700.00	7,640.24	7,834.18	7,662.24	29.84	35.33	-85.07	220.51	-1,575.25	820.79	780.10	40.69	20.174	
7,800.00	7,740.24	7,934.18	7,762.24	30.16	35.61	-85.07	220.51	-1,575.25	820.79	779.64	41.15	19.948	
7,900.00	7,840.24	8,034.18	7,862.24	30.48	35.88	-85.07	220.51	-1,575.25	820.79	779.18	41.61	19.727	
7,966.81	7,907.04	8,100.99	7,929.04	30.69	36.07	-85.07	220.51	-1,575.25	820.79	778.87	41.92	19.581	CC
8,000.00	7,940.22	8,134.17	7,962.22	30.79	36.16	95.55	220.51	-1,575.25	820.88	778.81	42.07	19.511	ES
8,050.00	7,989.94	8,183.89	8,011.94	30.94	36.30	95.85	220.51	-1,575.25	821.39	779.07	42.32	19.410	
8,100.00	8,039.04	8,232.99	8,061.04	31.08	36.43	96.39	220.51	-1,575.25	822.41	779.83	42.58	19.314	
8,150.00	8,087.13	8,281.08	8,109.13	31.21	36.57	97.13	220.51	-1,575.25	824.08	781.22	42.86	19.227	
8,200.00	8,133.85	8,327.80	8,155.85	31.33	36.70	98.02	220.51	-1,575.25	826.59	783.43	43.16	19.152	
8,250.00	8,178.84	8,372.79	8,200.84	31.45	36.82	99.01	220.51	-1,575.25	830.17	786.69	43.48	19.093	
8,300.00	8,221.77	8,415.72	8,243.77	31.55	36.94	100.02	220.51	-1,575.25	835.09	791.27	43.82	19.057	
8,350.00	8,262.30	8,456.25	8,284.30	31.65	37.06	100.98	220.51	-1,575.25	841.63	797.44	44.19	19.048	SF
8,400.00	8,300.13	8,494.08	8,322.13	31.74	37.16	101.81	220.51	-1,575.25	850.07	805.49	44.57	19.071	
8,450.00	8,334.96	8,528.91	8,356.96	31.82	37.26	102.42	220.51	-1,575.25	860.65	815.67	44.98	19.132	
8,500.00	8,366.54	8,560.49	8,388.54	31.89	37.35	102.74	220.51	-1,575.25	873.61	828.20	45.41	19.237	
8,550.00	8,394.62	8,588.57	8,416.62	31.96	37.43	102.70	220.51	-1,575.25	889.09	843.24	45.86	19.389	
8,600.00	8,418.99	8,612.94	8,440.99	32.03	37.50	102.23	220.51	-1,575.25	907.19	860.89	46.31	19.592	
8,650.00	8,439.47	8,633.42	8,461.47	32.11	37.56	101.25	220.51	-1,575.25	927.92	881.17	46.75	19.847	
8,700.00	8,455.89	8,649.84	8,477.89	32.19	37.60	99.71	220.51	-1,575.25	951.21	904.02	47.19	20.157	
8,750.00	8,468.13	8,662.08	8,490.13	32.29	37.64	97.56	220.51	-1,575.25	976.92	929.30	47.61	20.518	
8,800.00	8,476.11	8,670.06	8,498.11	32.40	37.66	94.76	220.51	-1,575.25	1,004.82	956.81	48.01	20.930	
8,850.00	8,479.75	8,673.70	8,501.75	32.54	37.67	91.31	220.51	-1,575.25	1,034.63	986.25	48.38	21.387	
8,866.81	8,480.00	8,673.95	8,502.00	32.59	37.67	90.00	220.51	-1,575.25	1,045.02	996.53	48.49	21.550	
8,900.00	8,480.00	8,673.95	8,502.00	32.70	37.67	90.00	220.51	-1,575.25	1,066.04	1,017.32	48.71	21.883	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	8,480.00	8,673.95	8,502.00	33.09	37.67	90.00	220.51	-1,575.25	1,132.87	1,083.54	49.33	22.965	
9,100.00	8,480.00	8,673.95	8,502.00	33.57	37.67	90.00	220.51	-1,575.25	1,204.30	1,154.44	49.86	24.152	
9,200.00	8,480.00	8,673.95	8,502.00	34.14	37.67	90.00	220.51	-1,575.25	1,279.57	1,229.25	50.32	25.427	
9,300.00	8,480.00	8,673.95	8,502.00	34.79	37.67	90.00	220.51	-1,575.25	1,358.04	1,307.32	50.71	26.778	
9,400.00	8,480.00	8,673.95	8,502.00	35.50	37.67	90.00	220.51	-1,575.25	1,439.17	1,388.12	51.05	28.192	
9,500.00	8,480.00	8,673.95	8,502.00	36.28	37.67	90.00	220.51	-1,575.25	1,522.55	1,471.22	51.33	29.660	
9,600.00	8,480.00	8,673.95	8,502.00	37.11	37.67	90.00	220.51	-1,575.25	1,607.83	1,556.25	51.58	31.172	
9,700.00	8,480.00	8,673.95	8,502.00	38.01	37.67	90.00	220.51	-1,575.25	1,694.72	1,642.93	51.79	32.724	
9,800.00	8,480.00	8,673.95	8,502.00	38.95	37.67	90.00	220.51	-1,575.25	1,782.99	1,731.02	51.97	34.308	
9,900.00	8,480.00	8,673.95	8,502.00	39.94	37.67	90.00	220.51	-1,575.25	1,872.43	1,820.31	52.13	35.922	
10,000.00	8,480.00	8,673.95	8,502.00	40.97	37.67	90.00	220.51	-1,575.25	1,962.89	1,910.63	52.26	37.559	
10,100.00	8,480.00	8,673.95	8,502.00	42.04	37.67	90.00	220.51	-1,575.25	2,054.24	2,001.86	52.38	39.217	
10,200.00	8,480.00	8,673.95	8,502.00	43.14	37.67	90.00	220.51	-1,575.25	2,146.36	2,093.87	52.49	40.893	
10,300.00	8,480.00	8,673.95	8,502.00	44.29	37.67	90.00	220.51	-1,575.25	2,239.16	2,186.58	52.58	42.585	
10,400.00	8,480.00	8,673.95	8,502.00	45.46	37.67	90.00	220.51	-1,575.25	2,332.55	2,279.88	52.67	44.290	
10,500.00	8,480.00	8,673.95	8,502.00	46.66	37.67	90.00	220.51	-1,575.25	2,426.47	2,373.72	52.74	46.007	
10,600.00	8,480.00	8,673.95	8,502.00	47.89	37.67	90.00	220.51	-1,575.25	2,520.85	2,468.04	52.81	47.734	
10,700.00	8,480.00	8,673.95	8,502.00	49.14	37.67	90.00	220.51	-1,575.25	2,615.65	2,562.78	52.87	49.471	
10,800.00	8,480.00	8,673.95	8,502.00	50.42	37.67	90.00	220.51	-1,575.25	2,710.83	2,657.90	52.93	51.215	
10,900.00	8,480.00	8,673.95	8,502.00	51.72	37.67	90.00	220.51	-1,575.25	2,806.34	2,753.36	52.98	52.967	
11,000.00	8,480.00	8,673.95	8,502.00	53.03	37.67	90.00	220.51	-1,575.25	2,902.16	2,849.13	53.03	54.725	
11,100.00	8,480.00	8,673.95	8,502.00	54.37	37.67	90.00	220.51	-1,575.25	2,998.24	2,945.17	53.08	56.488	
11,200.00	8,480.00	8,673.95	8,502.00	55.72	37.67	90.00	220.51	-1,575.25	3,094.58	3,041.46	53.12	58.256	
11,300.00	8,480.00	8,673.95	8,502.00	57.09	37.67	90.00	220.51	-1,575.25	3,191.14	3,137.98	53.16	60.027	
11,400.00	8,480.00	8,673.95	8,502.00	58.47	37.67	90.00	220.51	-1,575.25	3,287.91	3,234.71	53.20	61.803	
11,500.00	8,480.00	8,673.95	8,502.00	59.86	37.67	90.00	220.51	-1,575.25	3,384.86	3,331.63	53.24	63.582	
11,600.00	8,480.00	8,673.95	8,502.00	61.27	37.67	90.00	220.51	-1,575.25	3,481.99	3,428.72	53.27	65.363	
11,700.00	8,480.00	8,673.95	8,502.00	62.69	37.67	90.00	220.51	-1,575.25	3,579.28	3,525.97	53.31	67.147	
11,800.00	8,480.00	8,673.95	8,502.00	64.13	37.67	90.00	220.51	-1,575.25	3,676.71	3,623.37	53.34	68.932	
11,900.00	8,480.00	8,673.95	8,502.00	65.57	37.67	90.00	220.51	-1,575.25	3,774.27	3,720.90	53.37	70.719	
12,000.00	8,480.00	8,673.95	8,502.00	67.02	37.67	90.00	220.51	-1,575.25	3,871.96	3,818.56	53.40	72.507	
12,100.00	8,480.00	8,673.95	8,502.00	68.48	37.67	90.00	220.51	-1,575.25	3,969.77	3,916.33	53.43	74.296	
12,200.00	8,480.00	8,673.95	8,502.00	69.95	37.67	90.00	220.51	-1,575.25	4,067.68	4,014.22	53.46	76.086	
12,300.00	8,480.00	16,533.60	12,517.00	71.42	77.32	169.85	-3,863.03	-1,436.82	4,078.89	4,020.36	58.54	69.680	
12,400.00	8,480.00	16,633.60	12,517.00	72.91	78.62	169.85	-3,963.03	-1,435.84	4,078.90	4,019.39	59.50	68.551	
12,500.00	8,480.00	16,733.60	12,517.00	74.40	79.93	169.85	-4,063.02	-1,434.85	4,078.90	4,018.42	60.47	67.450	
12,600.00	8,480.00	16,833.60	12,517.00	75.90	81.25	169.85	-4,163.02	-1,433.87	4,078.90	4,017.45	61.45	66.377	
12,700.00	8,480.00	16,933.60	12,517.00	77.40	82.59	169.84	-4,263.01	-1,432.88	4,078.90	4,016.47	62.44	65.330	
12,800.00	8,480.00	17,033.60	12,517.00	78.91	83.94	169.84	-4,363.01	-1,431.90	4,078.90	4,015.48	63.43	64.310	
12,900.00	8,480.00	17,133.60	12,517.00	80.43	85.29	169.84	-4,463.00	-1,430.92	4,078.90	4,014.48	64.42	63.316	
13,000.00	8,480.00	17,233.60	12,517.00	81.95	86.66	169.84	-4,563.00	-1,429.93	4,078.90	4,013.48	65.42	62.346	
13,100.00	8,480.00	17,333.60	12,517.00	83.47	88.04	169.84	-4,662.99	-1,428.95	4,078.91	4,012.48	66.43	61.401	
13,200.00	8,480.00	17,433.60	12,517.00	85.00	89.43	169.84	-4,762.99	-1,427.96	4,078.91	4,011.47	67.44	60.480	
13,300.00	8,480.00	17,533.60	12,517.00	86.54	90.82	169.84	-4,862.98	-1,426.98	4,078.91	4,010.45	68.46	59.581	
13,400.00	8,480.00	17,633.60	12,517.00	88.08	92.23	169.84	-4,962.98	-1,426.00	4,078.91	4,009.43	69.48	58.705	
13,500.00	8,480.00	17,733.60	12,517.00	89.62	93.64	169.84	-5,062.97	-1,425.01	4,078.91	4,008.41	70.51	57.851	
13,600.00	8,480.00	17,833.60	12,517.00	91.17	95.06	169.84	-5,162.97	-1,424.03	4,078.91	4,007.38	71.54	57.018	
13,700.00	8,480.00	17,933.60	12,517.00	92.72	96.49	169.84	-5,262.96	-1,423.04	4,078.92	4,006.34	72.57	56.205	
13,800.00	8,480.00	18,033.60	12,517.00	94.27	97.92	169.84	-5,362.96	-1,422.06	4,078.92	4,005.31	73.61	55.413	
13,900.00	8,480.00	18,133.60	12,517.00	95.83	99.36	169.84	-5,462.95	-1,421.08	4,078.92	4,004.27	74.65	54.640	
14,000.00	8,480.00	18,233.60	12,517.00	97.39	100.81	169.84	-5,562.95	-1,420.09	4,078.92	4,003.22	75.70	53.885	
14,100.00	8,480.00	18,333.60	12,517.00	98.95	102.27	169.84	-5,662.94	-1,419.11	4,078.92	4,002.18	76.75	53.149	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	8,480.00	18,433.60	12,517.00	100.52	103.72	169.84	-5,762.94	-1,418.12	4,078.92	4,001.13	77.80	52.431	
14,300.00	8,480.00	18,533.60	12,517.00	102.09	105.19	169.84	-5,862.93	-1,417.14	4,078.93	4,000.08	78.85	51.731	
14,400.00	8,480.00	18,633.60	12,517.00	103.66	106.66	169.84	-5,962.93	-1,416.16	4,078.93	3,999.02	79.91	51.047	
14,500.00	8,480.00	18,733.60	12,517.00	105.23	108.14	169.84	-6,062.92	-1,415.17	4,078.93	3,997.96	80.96	50.379	
14,600.00	8,480.00	18,833.60	12,517.00	106.81	109.62	169.84	-6,162.92	-1,414.19	4,078.93	3,996.90	82.03	49.727	
14,700.00	8,480.00	18,933.60	12,517.00	108.39	111.10	169.84	-6,262.91	-1,413.20	4,078.93	3,995.84	83.09	49.090	
14,800.00	8,480.00	19,033.60	12,517.00	109.97	112.59	169.84	-6,362.91	-1,412.22	4,078.93	3,994.77	84.16	48.467	
14,900.00	8,480.00	19,133.60	12,517.00	111.55	114.09	169.84	-6,462.90	-1,411.24	4,078.93	3,993.70	85.23	47.858	
15,000.00	8,480.00	19,233.60	12,517.00	113.13	115.59	169.84	-6,562.90	-1,410.25	4,078.94	3,992.63	86.30	47.262	
15,100.00	8,480.00	19,333.60	12,517.00	114.72	117.09	169.84	-6,662.89	-1,409.27	4,078.94	3,991.56	87.38	46.681	
15,200.00	8,480.00	19,433.60	12,517.00	116.31	118.60	169.84	-6,762.89	-1,408.28	4,078.94	3,990.48	88.46	46.112	
15,300.00	8,480.00	19,533.60	12,517.00	117.90	120.11	169.84	-6,862.89	-1,407.30	4,078.94	3,989.40	89.54	45.556	
15,400.00	8,480.00	19,633.60	12,517.00	119.49	121.62	169.84	-6,962.88	-1,406.32	4,078.94	3,988.32	90.62	45.012	
15,500.00	8,480.00	19,733.60	12,517.00	121.08	123.14	169.84	-7,062.88	-1,405.33	4,078.94	3,987.24	91.70	44.481	
15,600.00	8,480.00	19,833.60	12,517.00	122.68	124.66	169.84	-7,162.87	-1,404.35	4,078.95	3,986.16	92.78	43.962	
15,700.00	8,480.00	19,933.60	12,517.00	124.27	126.19	169.84	-7,262.87	-1,403.37	4,078.95	3,985.08	93.87	43.453	
15,800.00	8,480.00	20,033.60	12,517.00	125.87	127.72	169.84	-7,362.86	-1,402.38	4,078.95	3,983.99	94.96	42.955	
15,900.00	8,480.00	20,133.60	12,517.00	127.47	129.25	169.84	-7,462.86	-1,401.40	4,078.95	3,982.90	96.05	42.468	
16,000.00	8,480.00	20,233.60	12,517.00	129.07	130.78	169.84	-7,562.85	-1,400.41	4,078.95	3,981.81	97.14	41.991	
16,100.00	8,480.00	20,333.60	12,517.00	130.67	132.32	169.84	-7,662.85	-1,399.43	4,078.95	3,980.72	98.23	41.524	
16,200.00	8,480.00	20,433.60	12,517.00	132.27	133.86	169.84	-7,762.84	-1,398.45	4,078.96	3,979.63	99.33	41.067	
16,300.00	8,480.00	20,533.60	12,517.00	133.88	135.40	169.84	-7,862.84	-1,397.46	4,078.96	3,978.54	100.42	40.619	
16,400.00	8,480.00	20,633.60	12,517.00	135.48	136.94	169.84	-7,962.83	-1,396.48	4,078.96	3,977.44	101.52	40.180	
16,500.00	8,480.00	20,733.60	12,517.00	137.09	138.49	169.84	-8,062.83	-1,395.49	4,078.96	3,976.34	102.62	39.749	
16,600.00	8,480.00	20,833.60	12,517.00	138.70	140.04	169.84	-8,162.82	-1,394.51	4,078.96	3,975.24	103.72	39.328	
16,700.00	8,480.00	20,933.60	12,517.00	140.30	141.59	169.84	-8,262.82	-1,393.53	4,078.96	3,974.15	104.82	38.915	
16,800.00	8,480.00	21,033.60	12,517.00	141.91	143.14	169.84	-8,362.81	-1,392.54	4,078.96	3,973.04	105.92	38.510	
16,900.00	8,480.00	21,133.60	12,517.00	143.52	144.70	169.84	-8,462.81	-1,391.56	4,078.97	3,971.94	107.02	38.112	
17,000.00	8,480.00	21,233.60	12,517.00	145.13	146.26	169.84	-8,562.80	-1,390.57	4,078.97	3,970.84	108.13	37.723	
17,100.00	8,480.00	21,333.60	12,517.00	146.75	147.82	169.84	-8,662.80	-1,389.59	4,078.97	3,969.73	109.24	37.341	
17,200.00	8,480.00	21,433.60	12,517.00	148.36	149.38	169.84	-8,762.79	-1,388.61	4,078.97	3,968.63	110.34	36.966	
17,300.00	8,480.00	21,533.60	12,517.00	149.97	150.94	169.84	-8,862.79	-1,387.62	4,078.97	3,967.52	111.45	36.599	
17,400.00	8,480.00	21,633.60	12,517.00	151.59	152.51	169.84	-8,962.78	-1,386.64	4,078.97	3,966.41	112.56	36.238	
17,500.00	8,480.00	21,733.60	12,517.00	153.20	154.08	169.84	-9,062.78	-1,385.65	4,078.98	3,965.30	113.67	35.884	
17,600.00	8,480.00	21,833.60	12,517.00	154.82	155.65	169.84	-9,162.77	-1,384.67	4,078.98	3,964.20	114.78	35.537	
17,700.00	8,480.00	21,933.60	12,517.00	156.44	157.22	169.84	-9,262.77	-1,383.69	4,078.98	3,963.09	115.89	35.196	
17,800.00	8,480.00	22,033.60	12,517.00	158.05	158.79	169.84	-9,362.76	-1,382.70	4,078.98	3,961.98	117.00	34.863	
17,900.00	8,480.00	22,133.60	12,517.00	159.67	160.36	169.84	-9,462.76	-1,381.72	4,078.98	3,960.87	118.12	34.534	
18,000.00	8,480.00	22,233.60	12,517.00	161.29	161.94	169.84	-9,562.75	-1,380.73	4,078.98	3,959.75	119.23	34.211	
18,100.00	8,480.00	22,333.60	12,517.00	162.91	163.52	169.84	-9,662.75	-1,379.75	4,078.99	3,958.64	120.34	33.894	
18,200.00	8,480.00	22,433.60	12,517.00	164.53	165.10	169.84	-9,762.74	-1,378.77	4,078.99	3,957.53	121.46	33.583	
18,300.00	8,480.00	22,533.60	12,517.00	166.15	166.68	169.84	-9,862.74	-1,377.78	4,078.99	3,956.41	122.58	33.277	
18,400.00	8,480.00	22,633.60	12,517.00	167.77	168.26	169.84	-9,962.74	-1,376.80	4,078.99	3,955.30	123.70	32.976	
18,500.00	8,480.00	22,733.60	12,517.00	169.40	169.84	169.84	-10,062.73	-1,375.81	4,078.99	3,954.18	124.81	32.681	
18,600.00	8,480.00	22,833.60	12,517.00	171.02	171.42	169.84	-10,162.73	-1,374.83	4,078.99	3,953.06	125.93	32.390	
18,700.00	8,480.00	22,933.60	12,517.00	172.64	173.01	169.84	-10,262.72	-1,373.85	4,079.00	3,951.94	127.05	32.105	
18,800.00	8,480.00	23,033.60	12,517.00	174.26	174.60	169.84	-10,362.72	-1,372.86	4,079.00	3,950.83	128.17	31.825	
18,900.00	8,480.00	23,133.60	12,517.00	175.89	176.18	169.84	-10,462.71	-1,371.88	4,079.00	3,949.71	129.29	31.549	
19,000.00	8,480.00	23,233.60	12,517.00	177.51	177.77	169.84	-10,562.71	-1,370.90	4,079.00	3,948.59	130.41	31.278	
19,100.00	8,480.00	23,333.60	12,517.00	179.14	179.36	169.84	-10,662.70	-1,369.91	4,079.00	3,947.47	131.53	31.011	
19,200.00	8,480.00	23,433.60	12,517.00	180.76	180.95	169.84	-10,762.70	-1,368.93	4,079.00	3,946.35	132.65	30.749	
19,300.00	8,480.00	23,533.60	12,517.00	182.39	182.55	169.84	-10,862.69	-1,367.94	4,079.00	3,945.23	133.78	30.491	

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

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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

Survey Program: 0-OWSG (Rev2) MWD

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,400.00	8,480.00	23,633.60	12,517.00	184.02	184.14	169.84	-10,962.69	-1,366.96	4,079.01	3,944.11	134.90	30.237	
19,500.00	8,480.00	23,733.60	12,517.00	185.64	185.73	169.84	-11,062.68	-1,365.98	4,079.01	3,942.98	136.02	29.988	
19,600.00	8,480.00	23,833.60	12,517.00	187.27	187.33	169.84	-11,162.68	-1,364.99	4,079.01	3,941.86	137.15	29.742	
19,700.00	8,480.00	23,933.60	12,517.00	188.90	188.93	169.84	-11,262.67	-1,364.01	4,079.01	3,940.74	138.27	29.500	
19,800.00	8,480.00	24,033.60	12,517.00	190.53	190.52	169.84	-11,362.67	-1,363.02	4,079.01	3,939.62	139.40	29.262	
19,808.97	8,480.00	24,042.57	12,517.00	190.67	190.67	169.84	-11,371.63	-1,362.94	4,079.01	3,939.51	139.50	29.241	
19,899.80	8,480.00	24,130.17	12,517.00	192.15	192.05	169.84	-11,459.23	-1,362.07	4,079.02	3,938.59	140.42	29.048	

FRANKLIN MOUNTAIN ENERGY

Total Directional Services

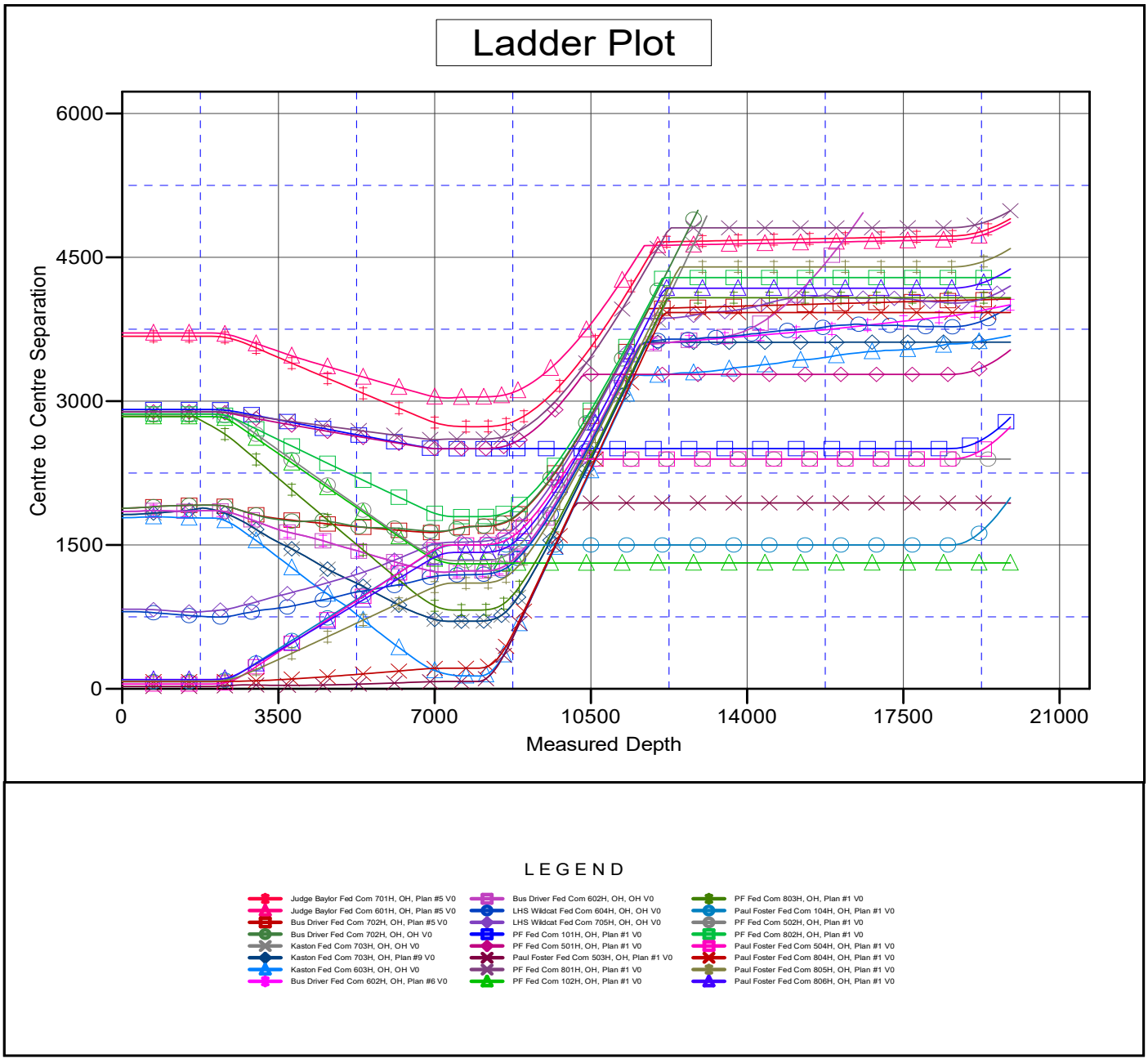
Anticollision Report

total

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 103H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.54°



Total Directional Services

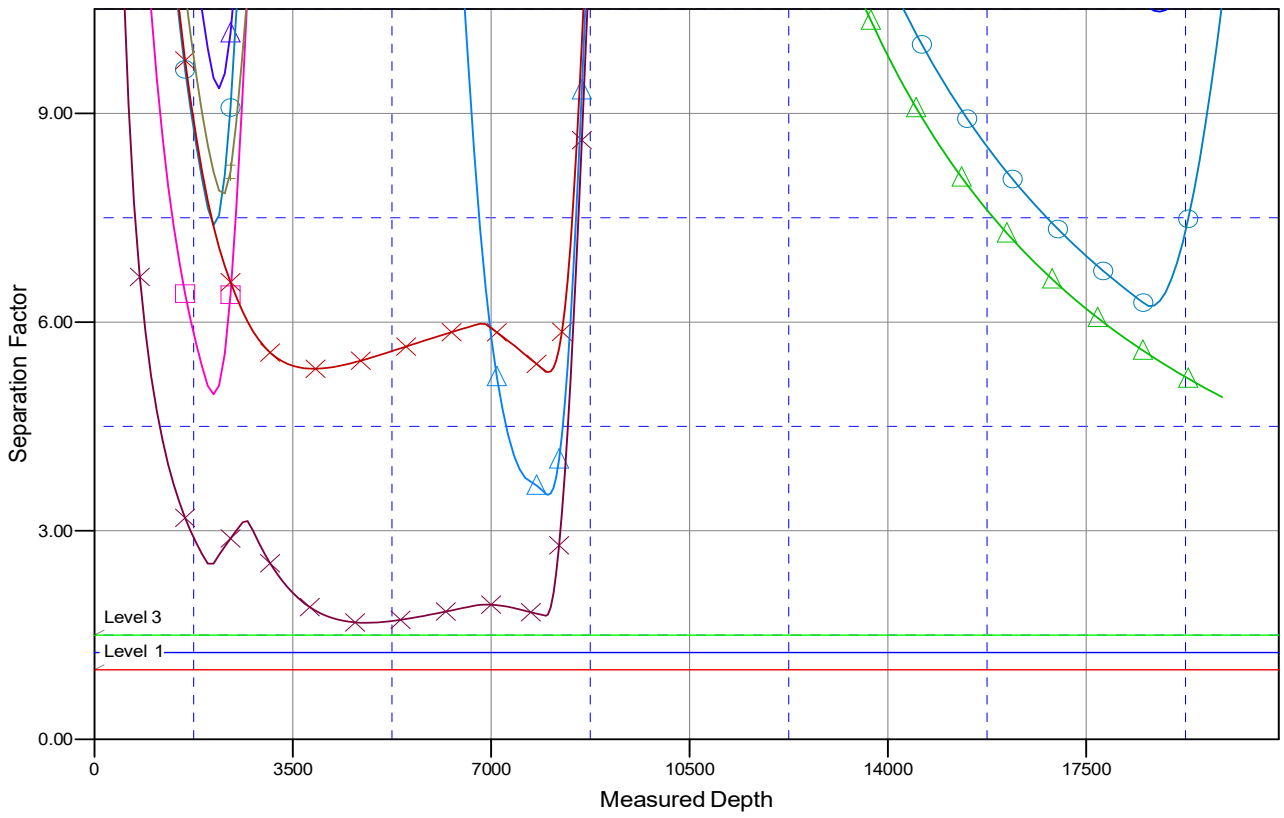
Anticollision Report

Company:	Franklin Mountain Energy	**Local Co-ordinate Reference:**	Well Paul Foster Fed Com 103H
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 103H	**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 103H
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	PF Fed Com 502H, OH, Plan #1 V0
Bus Driver Fed Com 702H, OH, OH V0	PF Fed Com 101H, OH, Plan #1 V0	PF Fed Com 802H, OH, Plan #1 V0
Kaston Fed Com 703H, OH, OH V0	PF Fed Com 501H, OH, Plan #1 V0	Paul Foster Fed Com 504H, OH, Plan #1 V0
Kaston Fed Com 703H, OH, Plan #9 V0	Paul Foster Fed Com 503H, OH, Plan #1 V0	Paul Foster Fed Com 804H, OH, Plan #1 V0
Kaston 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

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**

Approval Date: 03/07/2022

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.

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.

Approval Date: 03/07/2022

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.

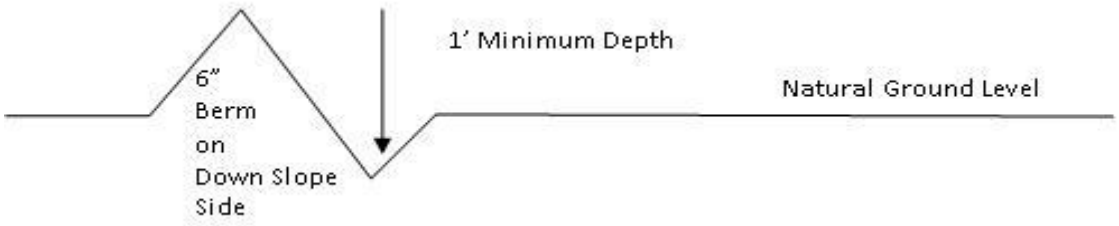
Ditching
Ditching shall be required on both sides of the road.

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:

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

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.

Approval Date: 03/07/2022

Construction Steps

1. Salvage topsoil
2. Construct road
3. Redistribute topsoil
4. Revegetate slopes

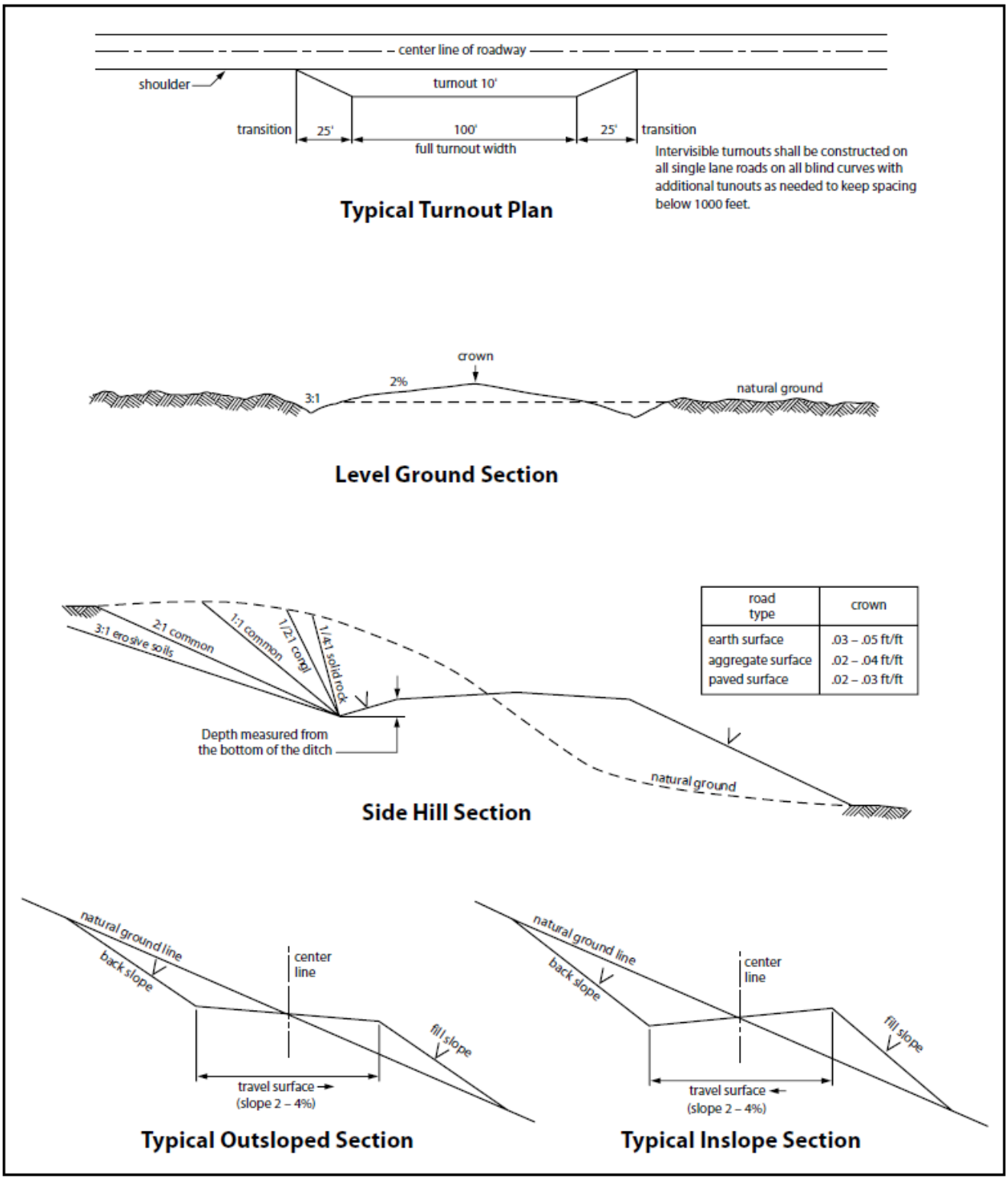


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

Approval Date: 03/07/2022

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).

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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, situating values 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.

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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.

Approval Date: 03/07/2022

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

*Pounds of pure live seed:

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

Approval Date: 03/07/2022

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

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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.

Approval Date: 03/07/2022

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 intergrity 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 intergrity 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

Approval Date: 03/07/2022

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 88434

CONDITIONS

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 88434
	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	3/14/2022
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	3/14/2022
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	3/14/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	3/14/2022