

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

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

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. [333646]			
2. Name of Operator [373910]		9. API Well No. 30-025-50910			
3a. Address		3b. Phone No. (include area code) 10. Field and Pool, or Exploratory [98098]			
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) <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> 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). </td> <td style="width: 50%; vertical-align: top;"> 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. </td> </tr> </table>				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.
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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 12/14/2022

SL

(Continued on page 2)



Approval Date: 11/17/2022

KZ
01/03/2023

*(Instructions on page 2)

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

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

Additional Operator Remarks

Location of Well

0. SHL: TR N / 250 FSL / 1343 FWL / TWSP: 24S / RANGE: 35E / SECTION: 9 / LAT: 32.225474 / LONG: -103.376648 (TVD: 0 feet, MD: 0 feet)
PPP: SENW / 0 FSL / 2229 FWL / TWSP: 24S / RANGE: 35E / SECTION: 4 / LAT: 32.246561 / LONG: -103.373825 (TVD: 12425 feet, MD: 20000 feet)
PPP: SESW / 0 FSL / 2230 FWL / TWSP: 24S / RANGE: 35E / SECTION: 4 / LAT: 32.239304 / LONG: -103.373804 (TVD: 12425 feet, MD: 17400 feet)
PPP: NENW / 0 FSL / 2231 FWL / TWSP: 24S / RANGE: 35E / SECTION: 9 / LAT: 32.235674 / LONG: -103.373794 (TVD: 12425 feet, MD: 16000 feet)
PPP: SENW / 0 FSL / 2231 FWL / TWSP: 24S / RANGE: 35E / SECTION: 9 / LAT: 32.232043 / LONG: -103.373783 (TVD: 12425 feet, MD: 14800 feet)
PPP: SESW / 744 FSL / 2234 FWL / TWSP: 24S / RANGE: 35E / SECTION: 9 / LAT: 32.226832 / LONG: -103.373768 (TVD: 12425 feet, MD: 12832 feet)
BHL: LOT 3 / 150 FNL / 2232 FWL / TWSP: 24S / RANGE: 35E / SECTION: 4 / LAT: 32.25342 / LONG: -103.373845 (TVD: 12425 feet, MD: 22506 feet)

BLM Point of Contact

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

CONFIDENTIAL

Review and Appeal Rights

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

CONFIDENTIAL

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 30-025-50910	² Pool Code 98098	³ Pool Name WC-025 G-09 S243532M; WOLFBONE
⁴ Property Code 333646	⁵ Property Name COLORADO FED COM	⁶ Well Number 803H
⁷ OGRID No. 373910	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY LLC	⁹ Elevation 3393.1'

¹⁰ Surface Location

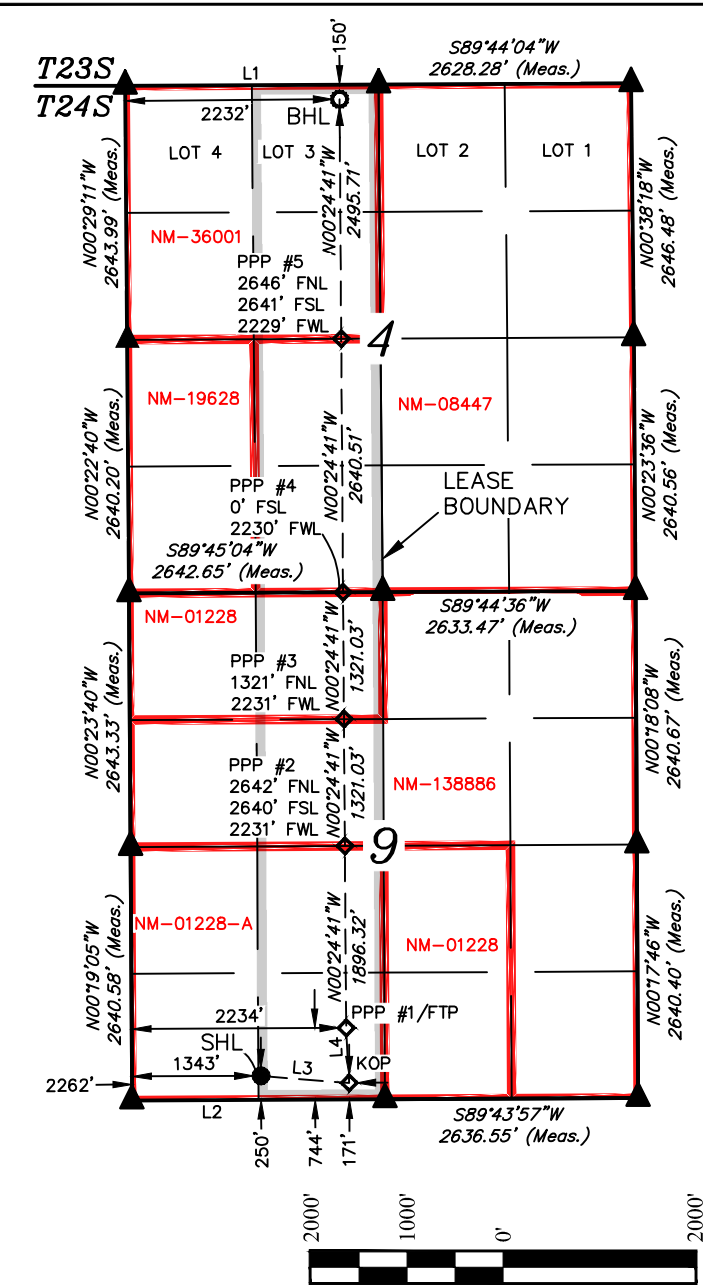
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	9	24S	35E		250	SOUTH	1343	WEST	LEA

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
3	4	24S	35E		150	NORTH	2232	WEST	LEA
¹² Dedicated Acres 320.14	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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

¹⁶	NAD 83 (SURFACE HOLE LOCATION) LATITUDE = 32°13'31.71" (32.225474°) LONGITUDE = 103°22'35.93" (103.376648°) NAD 27 (SURFACE HOLE LOCATION) LATITUDE = 32°13'31.25" (32.225348°) LONGITUDE = 103°22'34.24" (103.376177°) STATE PLANE NAD 83 (N.M. EAST) N: 447078.33' E: 837176.54' STATE PLANE NAD 27 (N.M. EAST) N: 447019.13' E: 795991.35' NAD 83 (KOP) LATITUDE = 32°13'30.93" (32.225259°) LONGITUDE = 103°22'25.23" (103.373675°) NAD 27 (KOP) LATITUDE = 32°13'30.48" (32.225133°) LONGITUDE = 103°22'23.54" (103.373205°) STATE PLANE NAD 83 (N.M. EAST) N: 447008.33' E: 838096.54' STATE PLANE NAD 27 (N.M. EAST) N: 446949.12' E: 796911.32' NAD 83 (PPP #1/FTP) LATITUDE = 32°13'36.59" (32.226832°) LONGITUDE = 103°22'25.57" (103.373768°) NAD 27 (PPP #1/FTP) LATITUDE = 32°13'36.14" (32.226706°) LONGITUDE = 103°22'23.87" (103.373298°) STATE PLANE NAD 83 (N.M. EAST) N: 447580.28' E: 838062.56' STATE PLANE NAD 27 (N.M. EAST) N: 447521.06' E: 796877.37' NAD 83 (PPP #2) LATITUDE = 32°13'55.36" (32.232043°) LONGITUDE = 103°22'25.62" (103.373783°) NAD 27 (PPP #2) LATITUDE = 32°13'54.90" (32.231918°) LONGITUDE = 103°22'23.93" (103.373313°) STATE PLANE NAD 83 (N.M. EAST) N: 449476.19' E: 838041.01' STATE PLANE NAD 27 (N.M. EAST) N: 449416.92' E: 796855.89' NAD 83 (PPP #3) LATITUDE = 32°14'08.43" (32.235674°) LONGITUDE = 103°22'25.66" (103.373794°) NAD 27 (PPP #3) LATITUDE = 32°14'07.97" (32.235548°) LONGITUDE = 103°22'23.96" (103.373323°) STATE PLANE NAD 83 (N.M. EAST) N: 450796.93' E: 838025.99' STATE PLANE NAD 27 (N.M. EAST) N: 450737.63' E: 796840.94' NAD 83 (PPP #4) LATITUDE = 32°14'21.50" (32.239304°) LONGITUDE = 103°22'25.70" (103.373804°) NAD 27 (PPP #4) LATITUDE = 32°14'21.04" (32.239179°) LONGITUDE = 103°22'24.00" (103.373333°) STATE PLANE NAD 83 (N.M. EAST) N: 452117.68' E: 838010.98' STATE PLANE NAD 27 (N.M. EAST) N: 452058.34' E: 796825.98' NAD 83 (PPP #5) LATITUDE = 32°14'47.62" (32.246561°) LONGITUDE = 103°22'25.77" (103.373825°) NAD 27 (PPP #5) LATITUDE = 32°14'47.17" (32.246435°) LONGITUDE = 103°22'24.07" (103.373353°) STATE PLANE NAD 83 (N.M. EAST) N: 454757.62' E: 837980.97' STATE PLANE NAD 27 (N.M. EAST) N: 454698.21' E: 796796.08' NAD 83 (BOTTOM HOLE LOCATION) LATITUDE = 32°15'12.31" (32.253420°) LONGITUDE = 103°22'25.84" (103.373845°) NAD 27 (BOTTOM HOLE LOCATION) LATITUDE = 32°15'11.86" (32.253294°) LONGITUDE = 103°22'24.14" (103.373373°) STATE PLANE NAD 83 (N.M. EAST) N: 457252.79' E: 837952.60' STATE PLANE NAD 27 (N.M. EAST) N: 457193.31' E: 796767.79'
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LINE TABLE		
LINE	DIRECTION	LENGTH
L2	S89°42'02"W	2634.31'
L3	S85°24'32"E	922.79'
L4	N03°09'36"W	573.04'

SCALE
DRAWN BY: D.J.S. 08-12-21
REV: 1 Z.T. 09-28-21 (ADD
LEASE INFO, KOP & PPP'S)

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

- = SURFACE HOLE LOCATION
- ◆ = KICK OFF POINT/PPP
- = BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED

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.

Shelly Albrecht 10/1/2021
Signature Date

Shelly Albrecht

Printed Name

salbrecht@fmellic.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.

MAY 08, 2019

Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number:

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Franklin Mountain Energy, LLC **OGRID:** 373910 **Date:** 12/13/2022

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: Colorado CTB: (f#) fAPP2125752717 [See 19.15.27.9(D)(1) NMAC]

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

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

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

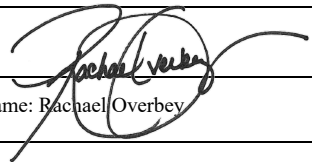
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

Signature: 
Printed Name: Rachael Overbey
Title: Director Operations Planning & Regulatory
E-mail Address: roverbey@fmelle.com
Date: 12/13/2022
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
Colorado Fed Com 101H	TBD	M-9-24S-35E	250 FSL 1203 FWL	750 +/-	1100 +/-	500 +/-
Colorado Fed Com 102H	TBD	M-9-24S-35E	250 FSL 1238 FWL	750 +/-	1100 +/-	500 +/-
Colorado Fed Com 801H	TBD	M-9-24S-35E	250 FSL 1273 FWL	900 +/-	1100 +/-	500 +/-
Colorado Fed Com 802H	TBD	M-9-24S-35E	250 FSL 1308 FWL	900 +/-	1100 +/-	500 +/-
Colorado Fed Com 803H 30-025-50910	TBD	M-9-24S-35E	250 FSL 1343 FWL	900 +/-	1100 +/-	500 +/-
Colorado Fed Com 103H	TBD	O-9-24S-35E	400 FSL 1593 FEL	750 +/-	1100 +/-	500 +/-
Colorado Fed Com 104H	TBD	O-9-24S-35E	400 FSL 1568 FEL	750 +/-	1100 +/-	500 +/-
Colorado Fed Com 804H	TBD	O-9-24S-35E	400 FSL 1543 FEL	900 +/-	1100 +/-	500 +/-
Colorado Fed Com 805H	TBD	O-9-24S-35E	400 FSL 1518 FEL	900 +/-	1100 +/-	500 +/-
Colorado Fed Com 806H	TBD	O-9-24S-35E	400 FSL 1493 FEL	900 +/-	1100 +/-	500 +/-

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
Colorado Fed Com 101H	TBD	6/1/2023	9/21/2023	10/6/2023	10/16/2023	10/18/2023
Colorado Fed Com 102H	TBD	6/1/2023	9/21/2023	10/6/2023	10/16/2023	10/18/2023
Colorado Fed Com 801H	TBD	6/1/2023	9/21/2023	10/6/2023	10/16/2023	10/18/2023
Colorado Fed Com 802H	TBD	6/1/2023	9/21/2023	10/6/2023	10/16/2023	10/18/2023
Colorado Fed Com 803H 30-025-50910	TBD	6/1/2023	9/21/2023	10/6/2023	10/16/2023	10/18/2023
Colorado Fed Com 103H	TBD	6/15/2023	10/5/2023	10/20/2023	10/30/2023	11/1/2023
Colorado Fed Com 104H	TBD	6/15/2023	10/5/2023	10/20/2023	10/30/2023	11/1/2023
Colorado Fed Com 804H	TBD	6/15/2023	10/5/2023	10/20/2023	10/30/2023	11/1/2023
Colorado Fed Com 805H	TBD	6/15/2023	10/5/2023	10/20/2023	10/30/2023	11/1/2023
Colorado Fed Com 806H	TBD	6/15/2023	10/5/2023	10/20/2023	10/30/2023	11/1/2023



Natural Gas Management Plan

Items VI-VIII

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

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

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

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

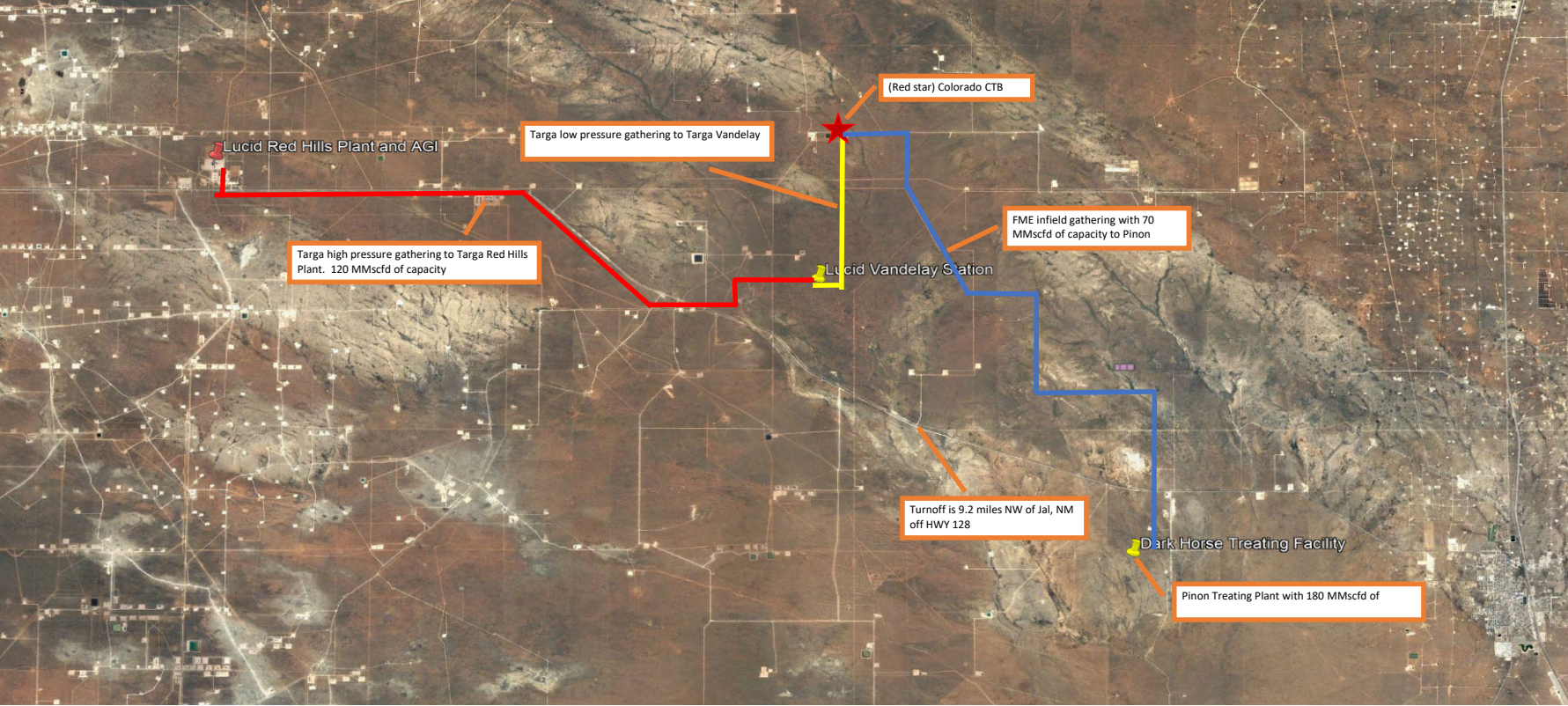


- Weekly AVOs will be performed, and any leaking thief hatches will be cleaned and properly re-sealed.
- **Measurement and Calibration:**
 - All volume that is flared and vented that is not measured will be estimated.
 - When metering is not practical due to low pressure/rate, all vented or flared volumes will be estimated.
 - Measurement will conform to industry standards. Measurement will not be bypassed except for purposes of inspection or calibration.

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

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

Colorado NGMP Map
Dec 2022
- Capacities reflected are FME's understanding of 3rd party midstream system capacities





Colorado Fed Com 803H

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)	3,053'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2,321'	762'			Carbonates
Salado	1,811'	1,272'			Salt, Carbonate & Clastics
Base Salt	-303'	3,386'			Shaley Carbonate & Shale
Lamar	-1,883'	4,966'			Carbonate & Clastics
Bell Canyon	-1,987'	5,070'			Sandstone - oil/gas/water
Cherry Canyon	-2,834'	5,917'			Sandstone - oil/gas/water
Brushy Canyon	-4,306'	7,389'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,496'	8,579'			Shale/Carbonates - oil/gas
Avalon	-5,524'	8,607'			Shale/Carbonates - oil/gas
Chert Zone	-5,715'	8,798'			Carbonate/Chert
First Bone Spring Sand	-6,751'	9,834'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-6,917'	10,000'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7,902'	10,985'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-8,058'	11,141'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-8,661'	11,744'			Sandstone - oil/gas/water
Wolfcamp	-8,894'	11,977'			Overpressure shale/sand- Oil/Gas
Wolfcamp A	-8,957'	12,040'			Overpressure Shale - Oil/Gas
Wolfcamp B	-9,261'	12,344'			Overpressure Shale - Oil/Gas
HZ Target	-9,434'	12,517'			Overpressure Shale - Oil/Gas
Wolfcamp C	-9,488'	12,571'			Overpressure Shale - Oil/Gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	5,070'	Oil
Bone Spring	9,834'	Oil
Wolfcamp	11,977'	Oil

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface freshwater sands will be protected by setting 13 3/8" casing at 1,300' and circulating cement back to surface.

4. Casing Program:

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

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length	API design factor			
								Burst	Collapse	Tension	Coupling
Surface 13 3/8"	54.5	J-55	2730	1130	853	BTC 909	1300	1.18	1.67	4.99	5.32
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	BTC 1042	5000	1.81	1.81	3.05	3.47
Intermediate 7 5/8"	29.7	HCP-110	8280	7150	827	Stinger 564	11932	1.11	1.28	1.82	1.24
Long string 5 1/2"	23	P-110	14520	14520	729	Eagle 606 TVD	22506 12425	1.32	1.38	1.18	0.98 1.57



7 5/8" casing will be set at 11,932' MD/11,852' TVD at 0° Inc. Stress calculations on 5 1/2" casing performed assuming 22,506' depth. Actual max vertical depth is 12,425'.

Cementing Program:

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

String Type	Hole Size	Casing Size	Setting Depth	Sacks	Type of cmt	Lead Yield ft ³ /sk	Water gal/sk	TOC ft	Sacks	Type of cmt	Tail Yield ft ³ /sk	Water gal/sk	TOC	Excess
Surf	17.5	13.375	1300	803	Extenda Cem, 12.8 ppg Class C, 3lb/sk Kol-Seal	1.747	9.06	0	331	Tail, 14.8 ppg, Class C,	1.349	6.51	1000	100%
Int1	12.25	9.625	5000	1453	0.125pps Poly-E-Flake Lead, 12.8 ppg, Class C 5% Salt,	1.79	9.74	0	154	1% CaCl ₂ , 0.125pps Celo-Flake Tail, 14.8 ppg, Class C,	1.33	6.37	4700	100%
Int2	8.75	7.625	11932	372	0.125 pps Poly-E-Flake, 3lb/sk Kol-Seal 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% CaCl ₂	1.33	6.29	10932	50%
Prod	6.75	5.5	22506	863	Tail, 14.5 ppg, Gas Migration Control	1.34	6.22	10932						20%

5. Minimum Specifications for Pressure Control:

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

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

Before drilling out of the second intermediate casing, the ram-type BOP and accessory equipment will be tested to 10,000/250 psig and the annular preventer to 5,000/250 psig. The second intermediate casing will be tested to 2000 psi for 30 minutes prior to drillout.

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

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



6. Types and characteristics of the proposed mud system:

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

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,300'	Fresh - Gel	8.6-8.8	28-34	N/c
1,300' – 11,932'	Brine	8.8-10.2	28-34	N/c
11,932' – 22,506' Lateral	Oil Base	11.0-12.5	58-68	3 - 6

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

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

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

7. Auxiliary well control and monitoring equipment:

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

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

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

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

8. Logging, testing and coring program:

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

Open-hole logs are not planned for this well.

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

The estimated bottom-hole temperature at 12,425' TVD (deepest point of the well) is 195F with an estimated maximum bottom-hole pressure (BHP) at the same point of 8,399 psig (based on 13 ppg MW). Hydrogen sulfate may be present in the area. All necessary precautions will be taken before drilling operations commence. See Hydrogen Sulfide Plan below:

10. Hydrogen Sulfide Plan:

A. All personnel shall receive proper awareness H₂S training.

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

C. Required Emergency Equipment

a. Well Control Equipment

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

ii. Choke manifold with a remotely operated hydraulic choke.

iii. Mud/gas separator

b. Protective equipment for essential personnel

i. Breathing Apparatus

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

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



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

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

11. Anticipated starting date and duration of operations:

The drilling operations on the well should be finished in approximately one month. However, in order to minimize disturbance in the area and to improve efficiency Franklin Mountain is planning to drill all the wells on the pad prior to commence completion operations. To even further reduce the time heavy machinery is used the “batch drilling” method may be used. A batch drilling sequence sundry will be submitted for BLM approval prior to spud. A drilling rig with walking/skidding capabilities will be used.

**12. Disposal/environmental concerns:**

- (A) Drilled cuttings will be hauled to and disposed of in a state-certified disposal site.
- (B) Non-hazardous waste mud/cement from the drilling process will also be hauled to and disposed of in a state-certified disposal site.
- (C) Garbage will be hauled to the Pecos City Landfill.
- (D) Sewage (grey water) will be hauled to the Carlsbad City Landfill

13. Wellhead:

A multi-bowl wellhead system will be utilized.

After running the 13 3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5,000 psi pressure test. This pressure test will be repeated at least every 21 days, as per Onshore Order No. 2

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

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

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

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

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

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

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

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

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

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

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: Colorado Fed Com
Well: Colorado Fed Com 803H
Wellbore: OH
Design: Plan #1



Azimuths to Grid North
True North: -0.51°
Magnetic North: 5.92°

Magnetic Field
Strength: 47492.4nT
Dip Angle: 59.92°
Date: 8/31/2021
Model: IGRF2020

PROJECT DETAILS: Lea County, NM (NAD83)

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



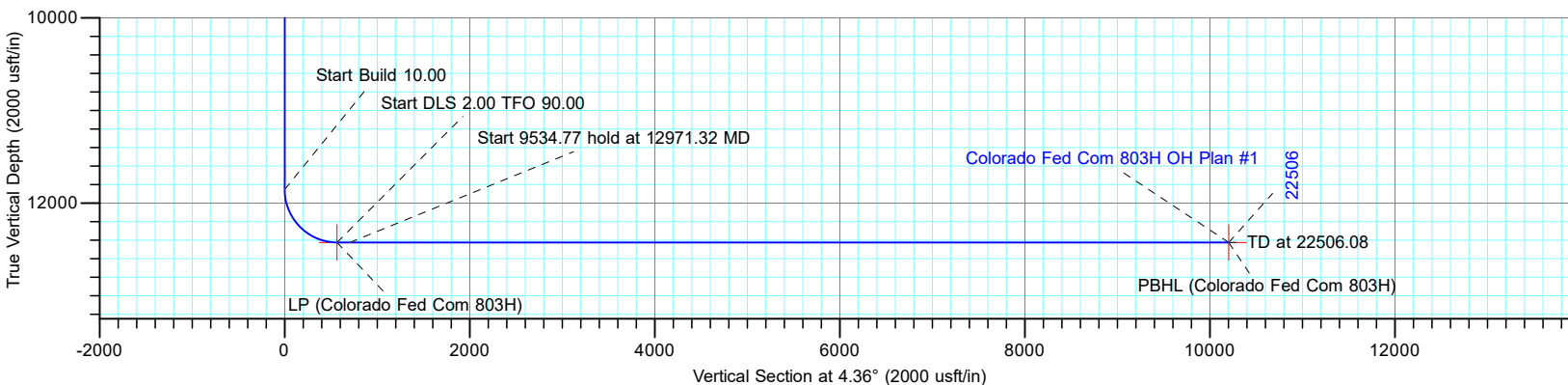
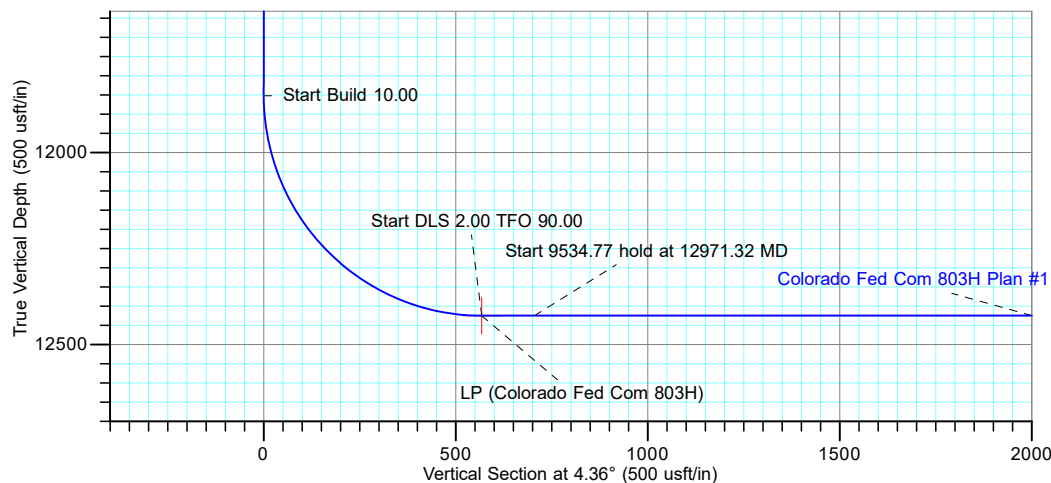
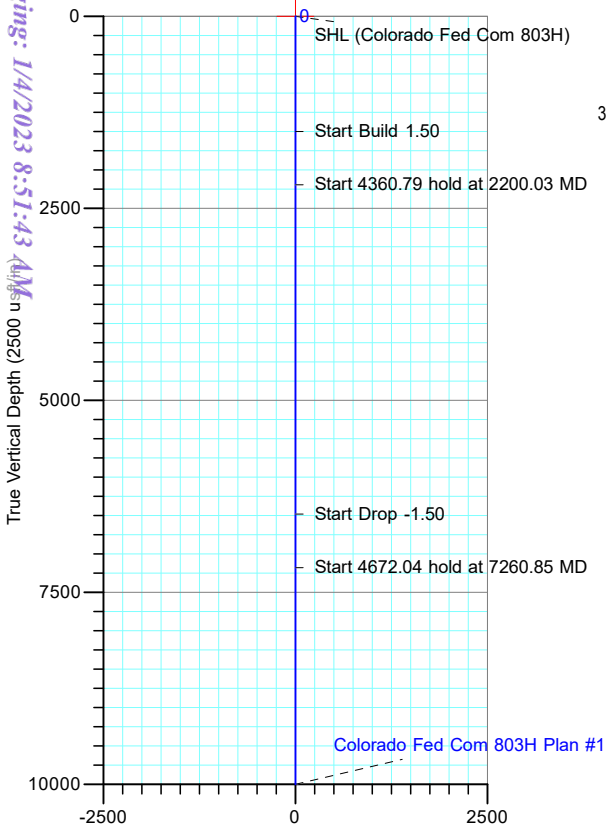
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SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
2200.03	10.50	94.35	2196.12	-4.85	63.78	1.50	94.35	0.01	Start 4360.79 hold at 2200.03 MD
6560.82	10.50	94.35	6483.88	-65.15	856.22	0.00	0.00	0.16	Start Drop -1.50
7260.85	0.00	0.00	7180.00	-70.00	920.00	1.50	180.00	0.17	Start 4672.04 hold at 7260.85 MD
11932.89	0.00	0.00	11852.04	-70.00	920.00	0.00	0.00	0.17	Start Build 10.00
12832.89	90.00	356.60	12425.00	501.95	886.02	10.00	356.60	567.88	Start DLS 2.00 TFO 90.00
12971.32	90.00	359.37	12425.00	640.27	881.15	2.00	90.00	705.44	Start 9534.77 hold at 12971.32 MD
22506.08	90.00	359.37	12425.00	10174.46	776.06	0.00	0.00	10204.01	TD at 22506.08

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
LP (Colorado Fed Com 803H)	12425.00	501.95	886.02	32.226832	-103.373768
PBHL (Colorado Fed Com 803H)	12425.00	10174.46	776.06	32.253420	-103.373845
SHL (Colorado Fed Com 803H)	0.00	0.00	0.00	32.225474	-103.376648



TOTAL DIRECTIONAL SERVICES LLC

Plan: Plan #1 (Colorado Fed Com 803H/OH)
Colorado Fed Com
Created By: Dustin Ault
Date: 17:07, August 31 2022
Approved: _____
Date: _____

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Released to Imaging: 1/4/2023 8:51:43 AM

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: Colorado Fed Com
Well: Colorado Fed Com 803H
Wellbore: OH
Design: Plan #1

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



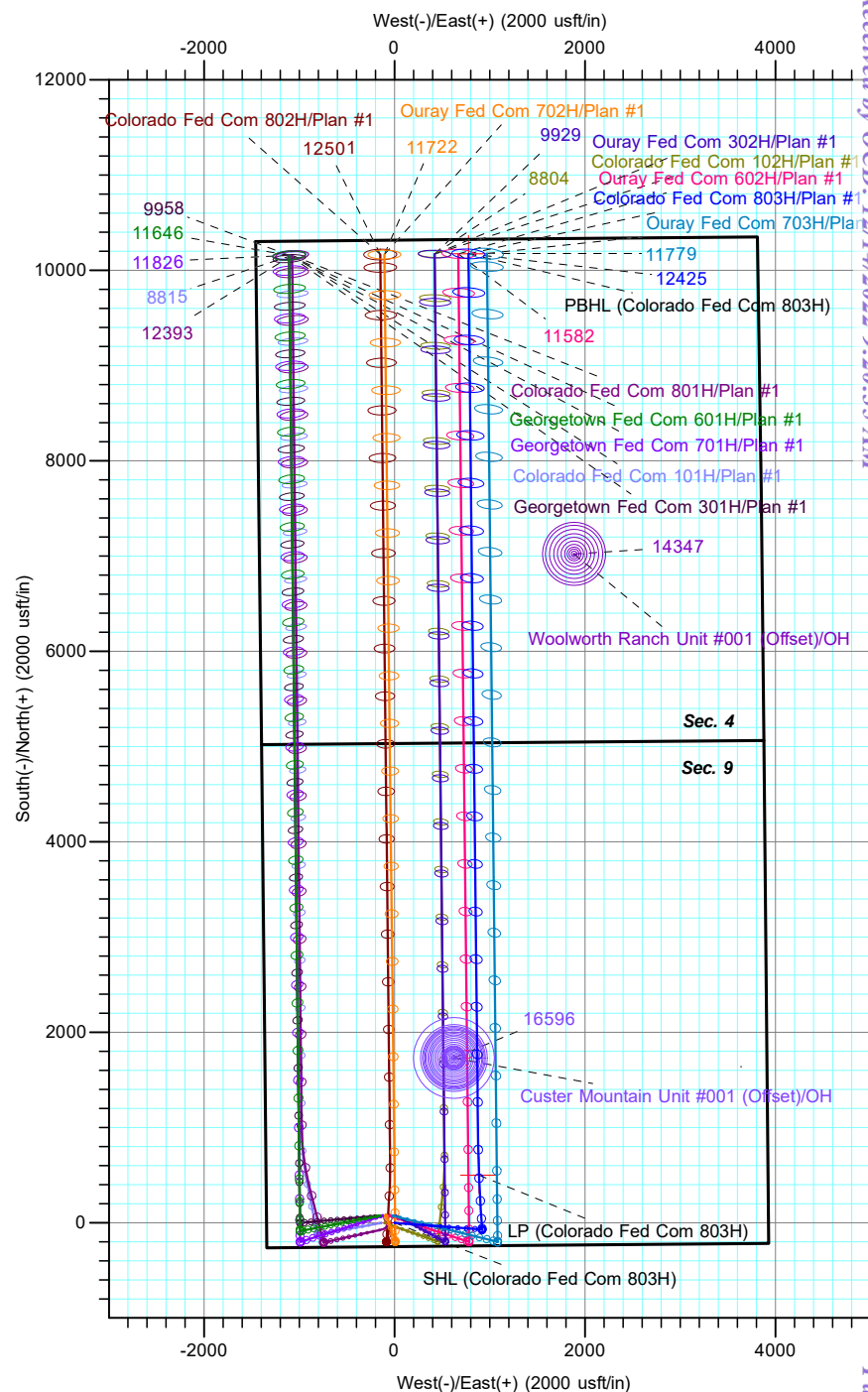
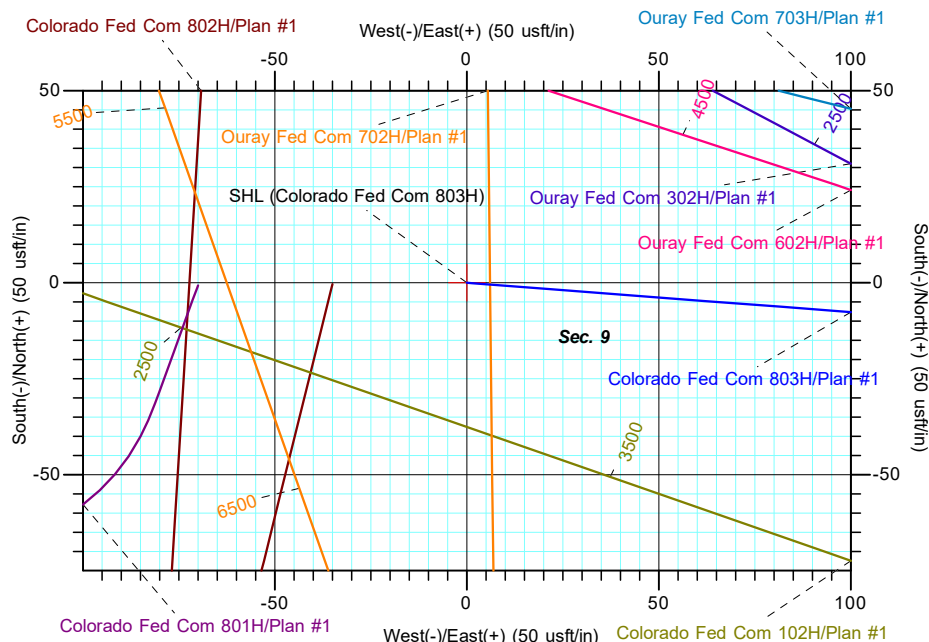
Azimuths to Grid North
True North: -0.51°
Magnetic North: 5.92°
Magnetic Field
Strength: 47492.4nT
Dip Angle: 59.92°
Date: 8/31/2021
Model: IGRF2020

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP (Colorado Fed Com 803H)	12425.00	501.95	886.02	447580.28	838062.56	32.226832	-103.373768
PBHL (Colorado Fed Com 803H)	12425.00	10174.46	776.06	457252.79	837952.60	32.253420	-103.373845
SHL (Colorado Fed Com 803H)	0.00	0.00	0.00	447078.33	837176.54	32.225474	-103.376648

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	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
2200.03	10.50	94.35	2196.12	-4.85	63.78	1.50	94.35	0.01	Start 4360.79 hold at 2200.03 MD
6560.82	10.50	94.35	6483.88	-65.15	856.22	0.00	0.00	0.16	Start Drop -1.50
7260.85	0.00	0.00	7180.00	-70.00	920.00	1.50	180.00	0.17	Start 4672.04 hold at 7260.85 MD
11932.89	0.00	0.00	11852.04	-70.00	920.00	0.00	0.00	0.17	Start Build 10.00
12832.89	90.00	356.60	12425.00	501.95	886.02	10.00	356.60	567.88	Start DLS 2.00 TFO 90.00
12971.32	90.00	359.37	12425.00	640.27	881.15	2.00	90.00	705.44	Start 9534.77 hold at 12971.32 MD
22506.08	90.00	359.37	12425.00	10174.46	776.06	0.00	0.00	10204.01	TD at 22506.08



TOTAL DIRECTIONAL SERVICES LLC

Plan: Plan #1 (Colorado Fed Com 803H/OH)
Created By: Dustin Ault
Date: 16:16, September 03 2021
Approved: _____ Date: _____

Received by OCD: 12/14/2022 9:20:35 AM

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Franklin Mountain Energy

Lea County, NM (NAD83)

Colorado Fed Com

Colorado Fed Com 803H

OH

Plan: Plan #1

Standard Planning Report

31 August, 2021





Total Directional Services Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Company:	Franklin Mountain Energy	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Project:	Lea County, NM (NAD83)	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site:	Colorado Fed Com	North Reference:	Grid
Well:	Colorado Fed Com 803H	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	Colorado Fed Com			
Site Position:		Northing:	447,076.97 usft	Latitude: 32.225474
From: Map		Easting:	837,036.57 usft	Longitude: -103.377101
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.51 °

Well	Colorado Fed Com 803H			
Well Position	+N/-S	1.36 usft	Northing:	447,078.33 usft
	+E/-W	139.97 usft	Easting:	837,176.54 usft
Position Uncertainty		0.00 usft	Wellhead Elevation:	Ground Level: 3,393.10 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/31/2021	6.43	59.92	47,492.41048830

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	4.36

Plan Survey Tool Program	Date	8/31/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,506.08 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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,200.03	10.50	94.35	2,196.12	-4.85	63.78	1.50	1.50	0.00	94.35	
6,560.82	10.50	94.35	6,483.88	-65.15	856.22	0.00	0.00	0.00	0.00	
7,260.85	0.00	0.00	7,180.00	-70.00	920.00	1.50	-1.50	0.00	180.00	
11,932.89	0.00	0.00	11,852.04	-70.00	920.00	0.00	0.00	0.00	0.00	
12,832.89	90.00	356.60	12,425.00	501.95	886.02	10.00	10.00	0.00	356.60	
12,971.32	90.00	359.37	12,425.00	640.27	881.15	2.00	0.00	2.00	90.00	
22,506.08	90.00	359.37	12,425.00	10,174.46	776.06	0.00	0.00	0.00	0.00	PBHL (Colorado Fed



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Company:	Franklin Mountain Energy	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Project:	Lea County, NM (NAD83)	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site:	Colorado Fed Com	North Reference:	Grid
Well:	Colorado Fed Com 803H	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 (Colorado Fed Com 803H)									
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
Start Build 1.50									
1,600.00	1.50	94.35	1,599.99	-0.10	1.31	0.00	1.50	1.50	0.00
1,700.00	3.00	94.35	1,699.91	-0.40	5.22	0.00	1.50	1.50	0.00
1,800.00	4.50	94.35	1,799.69	-0.89	11.74	0.00	1.50	1.50	0.00
1,900.00	6.00	94.35	1,899.27	-1.59	20.86	0.00	1.50	1.50	0.00
2,000.00	7.50	94.35	1,998.57	-2.48	32.58	0.01	1.50	1.50	0.00
2,100.00	9.00	94.35	2,097.54	-3.57	46.89	0.01	1.50	1.50	0.00
2,200.03	10.50	94.35	2,196.12	-4.85	63.78	0.01	1.50	1.50	0.00
Start 4360.79 hold at 2200.03 MD									
2,300.00	10.50	94.35	2,294.41	-6.24	81.95	0.02	0.00	0.00	0.00
2,400.00	10.50	94.35	2,392.74	-7.62	100.12	0.02	0.00	0.00	0.00
2,500.00	10.50	94.35	2,491.06	-9.00	118.29	0.02	0.00	0.00	0.00
2,600.00	10.50	94.35	2,589.39	-10.38	136.46	0.03	0.00	0.00	0.00
2,700.00	10.50	94.35	2,687.72	-11.77	154.64	0.03	0.00	0.00	0.00
2,800.00	10.50	94.35	2,786.04	-13.15	172.81	0.03	0.00	0.00	0.00
2,900.00	10.50	94.35	2,884.37	-14.53	190.98	0.04	0.00	0.00	0.00
3,000.00	10.50	94.35	2,982.69	-15.91	209.15	0.04	0.00	0.00	0.00
3,100.00	10.50	94.35	3,081.02	-17.30	227.32	0.04	0.00	0.00	0.00
3,200.00	10.50	94.35	3,179.34	-18.68	245.50	0.05	0.00	0.00	0.00
3,300.00	10.50	94.35	3,277.67	-20.06	263.67	0.05	0.00	0.00	0.00
3,400.00	10.50	94.35	3,375.99	-21.44	281.84	0.05	0.00	0.00	0.00
3,500.00	10.50	94.35	3,474.32	-22.83	300.01	0.06	0.00	0.00	0.00
3,600.00	10.50	94.35	3,572.64	-24.21	318.18	0.06	0.00	0.00	0.00
3,700.00	10.50	94.35	3,670.97	-25.59	336.35	0.06	0.00	0.00	0.00
3,800.00	10.50	94.35	3,769.29	-26.97	354.53	0.07	0.00	0.00	0.00
3,900.00	10.50	94.35	3,867.62	-28.36	372.70	0.07	0.00	0.00	0.00
4,000.00	10.50	94.35	3,965.94	-29.74	390.87	0.07	0.00	0.00	0.00
4,100.00	10.50	94.35	4,064.27	-31.12	409.04	0.08	0.00	0.00	0.00
4,200.00	10.50	94.35	4,162.60	-32.51	427.21	0.08	0.00	0.00	0.00
4,300.00	10.50	94.35	4,260.92	-33.89	445.39	0.08	0.00	0.00	0.00
4,400.00	10.50	94.35	4,359.25	-35.27	463.56	0.09	0.00	0.00	0.00
4,500.00	10.50	94.35	4,457.57	-36.65	481.73	0.09	0.00	0.00	0.00
4,600.00	10.50	94.35	4,555.90	-38.04	499.90	0.09	0.00	0.00	0.00
4,700.00	10.50	94.35	4,654.22	-39.42	518.07	0.10	0.00	0.00	0.00
4,800.00	10.50	94.35	4,752.55	-40.80	536.24	0.10	0.00	0.00	0.00
4,900.00	10.50	94.35	4,850.87	-42.18	554.42	0.10	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Company:	Franklin Mountain Energy	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Project:	Lea County, NM (NAD83)	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site:	Colorado Fed Com	North Reference:	Grid
Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.00	10.50	94.35	4,949.20	-43.57	572.59	0.11	0.00	0.00	0.00
5,100.00	10.50	94.35	5,047.52	-44.95	590.76	0.11	0.00	0.00	0.00
5,200.00	10.50	94.35	5,145.85	-46.33	608.93	0.11	0.00	0.00	0.00
5,300.00	10.50	94.35	5,244.17	-47.71	627.10	0.12	0.00	0.00	0.00
5,400.00	10.50	94.35	5,342.50	-49.10	645.27	0.12	0.00	0.00	0.00
5,500.00	10.50	94.35	5,440.82	-50.48	663.45	0.12	0.00	0.00	0.00
5,600.00	10.50	94.35	5,539.15	-51.86	681.62	0.13	0.00	0.00	0.00
5,700.00	10.50	94.35	5,637.48	-53.24	699.79	0.13	0.00	0.00	0.00
5,800.00	10.50	94.35	5,735.80	-54.63	717.96	0.13	0.00	0.00	0.00
5,900.00	10.50	94.35	5,834.13	-56.01	736.13	0.14	0.00	0.00	0.00
6,000.00	10.50	94.35	5,932.45	-57.39	754.31	0.14	0.00	0.00	0.00
6,100.00	10.50	94.35	6,030.78	-58.78	772.48	0.15	0.00	0.00	0.00
6,200.00	10.50	94.35	6,129.10	-60.16	790.65	0.15	0.00	0.00	0.00
6,300.00	10.50	94.35	6,227.43	-61.54	808.82	0.15	0.00	0.00	0.00
6,400.00	10.50	94.35	6,325.75	-62.92	826.99	0.16	0.00	0.00	0.00
6,500.00	10.50	94.35	6,424.08	-64.31	845.16	0.16	0.00	0.00	0.00
6,560.82	10.50	94.35	6,483.88	-65.15	856.22	0.16	0.00	0.00	0.00
Start Drop -1.50									
6,600.00	9.91	94.35	6,522.44	-65.67	863.14	0.16	1.50	-1.50	0.00
6,700.00	8.41	94.35	6,621.16	-66.88	879.02	0.17	1.50	-1.50	0.00
6,800.00	6.91	94.35	6,720.27	-67.89	892.31	0.17	1.50	-1.50	0.00
6,900.00	5.41	94.35	6,819.68	-68.71	903.02	0.17	1.50	-1.50	0.00
7,000.00	3.91	94.35	6,919.35	-69.32	911.12	0.17	1.50	-1.50	0.00
7,100.00	2.41	94.35	7,019.20	-69.74	916.62	0.17	1.50	-1.50	0.00
7,200.00	0.91	94.35	7,119.15	-69.96	919.52	0.17	1.50	-1.50	0.00
7,260.85	0.00	0.00	7,180.00	-70.00	920.00	0.17	1.50	-1.50	0.00
Start 4672.04 hold at 7260.85 MD									
7,300.00	0.00	0.00	7,219.15	-70.00	920.00	0.17	0.00	0.00	0.00
7,400.00	0.00	0.00	7,319.15	-70.00	920.00	0.17	0.00	0.00	0.00
7,500.00	0.00	0.00	7,419.15	-70.00	920.00	0.17	0.00	0.00	0.00
7,600.00	0.00	0.00	7,519.15	-70.00	920.00	0.17	0.00	0.00	0.00
7,700.00	0.00	0.00	7,619.15	-70.00	920.00	0.17	0.00	0.00	0.00
7,800.00	0.00	0.00	7,719.15	-70.00	920.00	0.17	0.00	0.00	0.00
7,900.00	0.00	0.00	7,819.15	-70.00	920.00	0.17	0.00	0.00	0.00
8,000.00	0.00	0.00	7,919.15	-70.00	920.00	0.17	0.00	0.00	0.00
8,100.00	0.00	0.00	8,019.15	-70.00	920.00	0.17	0.00	0.00	0.00
8,200.00	0.00	0.00	8,119.15	-70.00	920.00	0.17	0.00	0.00	0.00
8,300.00	0.00	0.00	8,219.15	-70.00	920.00	0.17	0.00	0.00	0.00
8,400.00	0.00	0.00	8,319.15	-70.00	920.00	0.17	0.00	0.00	0.00
8,500.00	0.00	0.00	8,419.15	-70.00	920.00	0.17	0.00	0.00	0.00
8,600.00	0.00	0.00	8,519.15	-70.00	920.00	0.17	0.00	0.00	0.00
8,700.00	0.00	0.00	8,619.15	-70.00	920.00	0.17	0.00	0.00	0.00
8,800.00	0.00	0.00	8,719.15	-70.00	920.00	0.17	0.00	0.00	0.00
8,900.00	0.00	0.00	8,819.15	-70.00	920.00	0.17	0.00	0.00	0.00
9,000.00	0.00	0.00	8,919.15	-70.00	920.00	0.17	0.00	0.00	0.00
9,100.00	0.00	0.00	9,019.15	-70.00	920.00	0.17	0.00	0.00	0.00
9,200.00	0.00	0.00	9,119.15	-70.00	920.00	0.17	0.00	0.00	0.00
9,300.00	0.00	0.00	9,219.15	-70.00	920.00	0.17	0.00	0.00	0.00
9,400.00	0.00	0.00	9,319.15	-70.00	920.00	0.17	0.00	0.00	0.00
9,500.00	0.00	0.00	9,419.15	-70.00	920.00	0.17	0.00	0.00	0.00
9,600.00	0.00	0.00	9,519.15	-70.00	920.00	0.17	0.00	0.00	0.00
9,700.00	0.00	0.00	9,619.15	-70.00	920.00	0.17	0.00	0.00	0.00
9,800.00	0.00	0.00	9,719.15	-70.00	920.00	0.17	0.00	0.00	0.00
9,900.00	0.00	0.00	9,819.15	-70.00	920.00	0.17	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Company:	Franklin Mountain Energy	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Project:	Lea County, NM (NAD83)	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site:	Colorado Fed Com	North Reference:	Grid
Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,000.00	0.00	0.00	9,919.15	-70.00	920.00	0.17	0.00	0.00	0.00
10,100.00	0.00	0.00	10,019.15	-70.00	920.00	0.17	0.00	0.00	0.00
10,200.00	0.00	0.00	10,119.15	-70.00	920.00	0.17	0.00	0.00	0.00
10,300.00	0.00	0.00	10,219.15	-70.00	920.00	0.17	0.00	0.00	0.00
10,400.00	0.00	0.00	10,319.15	-70.00	920.00	0.17	0.00	0.00	0.00
10,500.00	0.00	0.00	10,419.15	-70.00	920.00	0.17	0.00	0.00	0.00
10,600.00	0.00	0.00	10,519.15	-70.00	920.00	0.17	0.00	0.00	0.00
10,700.00	0.00	0.00	10,619.15	-70.00	920.00	0.17	0.00	0.00	0.00
10,800.00	0.00	0.00	10,719.15	-70.00	920.00	0.17	0.00	0.00	0.00
10,900.00	0.00	0.00	10,819.15	-70.00	920.00	0.17	0.00	0.00	0.00
11,000.00	0.00	0.00	10,919.15	-70.00	920.00	0.17	0.00	0.00	0.00
11,100.00	0.00	0.00	11,019.15	-70.00	920.00	0.17	0.00	0.00	0.00
11,200.00	0.00	0.00	11,119.15	-70.00	920.00	0.17	0.00	0.00	0.00
11,300.00	0.00	0.00	11,219.15	-70.00	920.00	0.17	0.00	0.00	0.00
11,400.00	0.00	0.00	11,319.15	-70.00	920.00	0.17	0.00	0.00	0.00
11,500.00	0.00	0.00	11,419.15	-70.00	920.00	0.17	0.00	0.00	0.00
11,600.00	0.00	0.00	11,519.15	-70.00	920.00	0.17	0.00	0.00	0.00
11,700.00	0.00	0.00	11,619.15	-70.00	920.00	0.17	0.00	0.00	0.00
11,800.00	0.00	0.00	11,719.15	-70.00	920.00	0.17	0.00	0.00	0.00
11,900.00	0.00	0.00	11,819.15	-70.00	920.00	0.17	0.00	0.00	0.00
11,932.89	0.00	0.00	11,852.04	-70.00	920.00	0.17	0.00	0.00	0.00
Start Build 10.00									
11,950.00	1.71	356.60	11,869.15	-69.75	919.98	0.43	10.00	10.00	0.00
12,000.00	6.71	356.60	11,918.99	-66.08	919.77	4.06	10.00	10.00	0.00
12,050.00	11.71	356.60	11,968.33	-58.09	919.29	11.99	10.00	10.00	0.00
12,100.00	16.71	356.60	12,016.79	-45.85	918.56	24.15	10.00	10.00	0.00
12,150.00	21.71	356.60	12,063.99	-29.43	917.59	40.44	10.00	10.00	0.00
12,200.00	26.71	356.60	12,109.58	-8.97	916.37	60.75	10.00	10.00	0.00
12,250.00	31.71	356.60	12,153.20	15.38	914.93	84.92	10.00	10.00	0.00
12,300.00	36.71	356.60	12,194.54	43.44	913.26	112.77	10.00	10.00	0.00
12,350.00	41.71	356.60	12,233.27	74.98	911.39	144.08	10.00	10.00	0.00
12,400.00	46.71	356.60	12,269.10	109.77	909.32	178.61	10.00	10.00	0.00
12,450.00	51.71	356.60	12,301.75	147.55	907.08	216.11	10.00	10.00	0.00
12,500.00	56.71	356.60	12,330.98	188.03	904.67	256.29	10.00	10.00	0.00
12,550.00	61.71	356.60	12,356.57	230.89	902.12	298.83	10.00	10.00	0.00
12,600.00	66.71	356.60	12,378.31	275.82	899.45	343.42	10.00	10.00	0.00
12,650.00	71.71	356.60	12,396.05	322.46	896.68	389.73	10.00	10.00	0.00
12,700.00	76.71	356.60	12,409.66	370.48	893.83	437.38	10.00	10.00	0.00
12,750.00	81.71	356.60	12,419.01	419.49	890.92	486.03	10.00	10.00	0.00
12,800.00	86.71	356.60	12,424.05	469.13	887.97	535.31	10.00	10.00	0.00
12,832.89	90.00	356.60	12,425.00	501.95	886.02	567.88	10.00	10.00	0.00
Start DLS 2.00 TFO 90.00 - LP (Colorado Fed Com 803H)									
12,900.00	90.00	357.94	12,425.00	568.98	882.83	634.47	2.00	0.00	2.00
12,971.32	90.00	359.37	12,425.00	640.27	881.15	705.44	2.00	0.00	2.00
Start 9534.77 hold at 12971.32 MD									
13,000.00	90.00	359.37	12,425.00	668.96	880.84	734.01	0.00	0.00	0.00
13,100.00	90.00	359.37	12,425.00	768.95	879.73	833.63	0.00	0.00	0.00
13,200.00	90.00	359.37	12,425.00	868.94	878.63	933.25	0.00	0.00	0.00
13,300.00	90.00	359.37	12,425.00	968.94	877.53	1,032.87	0.00	0.00	0.00
13,400.00	90.00	359.37	12,425.00	1,068.93	876.43	1,132.49	0.00	0.00	0.00
13,500.00	90.00	359.37	12,425.00	1,168.93	875.32	1,232.11	0.00	0.00	0.00
13,600.00	90.00	359.37	12,425.00	1,268.92	874.22	1,331.73	0.00	0.00	0.00
13,700.00	90.00	359.37	12,425.00	1,368.91	873.12	1,431.35	0.00	0.00	0.00



Total Directional Services

Planning Report



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Site:	Colorado Fed Com	North Reference:	Grid
Well:	Colorado Fed Com 803H	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)
13,800.00	90.00	359.37	12,425.00	1,468.91	872.02	1,530.97	0.00	0.00	0.00
13,900.00	90.00	359.37	12,425.00	1,568.90	870.92	1,630.59	0.00	0.00	0.00
14,000.00	90.00	359.37	12,425.00	1,668.90	869.81	1,730.21	0.00	0.00	0.00
14,100.00	90.00	359.37	12,425.00	1,768.89	868.71	1,829.84	0.00	0.00	0.00
14,200.00	90.00	359.37	12,425.00	1,868.88	867.61	1,929.46	0.00	0.00	0.00
14,300.00	90.00	359.37	12,425.00	1,968.88	866.51	2,029.08	0.00	0.00	0.00
14,400.00	90.00	359.37	12,425.00	2,068.87	865.40	2,128.70	0.00	0.00	0.00
14,500.00	90.00	359.37	12,425.00	2,168.87	864.30	2,228.32	0.00	0.00	0.00
14,600.00	90.00	359.37	12,425.00	2,268.86	863.20	2,327.94	0.00	0.00	0.00
14,700.00	90.00	359.37	12,425.00	2,368.85	862.10	2,427.56	0.00	0.00	0.00
14,800.00	90.00	359.37	12,425.00	2,468.85	861.00	2,527.18	0.00	0.00	0.00
14,900.00	90.00	359.37	12,425.00	2,568.84	859.89	2,626.80	0.00	0.00	0.00
15,000.00	90.00	359.37	12,425.00	2,668.83	858.79	2,726.42	0.00	0.00	0.00
15,100.00	90.00	359.37	12,425.00	2,768.83	857.69	2,826.04	0.00	0.00	0.00
15,200.00	90.00	359.37	12,425.00	2,868.82	856.59	2,925.66	0.00	0.00	0.00
15,300.00	90.00	359.37	12,425.00	2,968.82	855.48	3,025.28	0.00	0.00	0.00
15,400.00	90.00	359.37	12,425.00	3,068.81	854.38	3,124.90	0.00	0.00	0.00
15,500.00	90.00	359.37	12,425.00	3,168.80	853.28	3,224.52	0.00	0.00	0.00
15,600.00	90.00	359.37	12,425.00	3,268.80	852.18	3,324.14	0.00	0.00	0.00
15,700.00	90.00	359.37	12,425.00	3,368.79	851.08	3,423.76	0.00	0.00	0.00
15,800.00	90.00	359.37	12,425.00	3,468.79	849.97	3,523.38	0.00	0.00	0.00
15,900.00	90.00	359.37	12,425.00	3,568.78	848.87	3,623.00	0.00	0.00	0.00
16,000.00	90.00	359.37	12,425.00	3,668.77	847.77	3,722.62	0.00	0.00	0.00
16,100.00	90.00	359.37	12,425.00	3,768.77	846.67	3,822.25	0.00	0.00	0.00
16,200.00	90.00	359.37	12,425.00	3,868.76	845.57	3,921.87	0.00	0.00	0.00
16,300.00	90.00	359.37	12,425.00	3,968.76	844.46	4,021.49	0.00	0.00	0.00
16,400.00	90.00	359.37	12,425.00	4,068.75	843.36	4,121.11	0.00	0.00	0.00
16,500.00	90.00	359.37	12,425.00	4,168.74	842.26	4,220.73	0.00	0.00	0.00
16,600.00	90.00	359.37	12,425.00	4,268.74	841.16	4,320.35	0.00	0.00	0.00
16,700.00	90.00	359.37	12,425.00	4,368.73	840.05	4,419.97	0.00	0.00	0.00
16,800.00	90.00	359.37	12,425.00	4,468.73	838.95	4,519.59	0.00	0.00	0.00
16,900.00	90.00	359.37	12,425.00	4,568.72	837.85	4,619.21	0.00	0.00	0.00
17,000.00	90.00	359.37	12,425.00	4,668.71	836.75	4,718.83	0.00	0.00	0.00
17,100.00	90.00	359.37	12,425.00	4,768.71	835.65	4,818.45	0.00	0.00	0.00
17,200.00	90.00	359.37	12,425.00	4,868.70	834.54	4,918.07	0.00	0.00	0.00
17,300.00	90.00	359.37	12,425.00	4,968.69	833.44	5,017.69	0.00	0.00	0.00
17,400.00	90.00	359.37	12,425.00	5,068.69	832.34	5,117.31	0.00	0.00	0.00
17,500.00	90.00	359.37	12,425.00	5,168.68	831.24	5,216.93	0.00	0.00	0.00
17,600.00	90.00	359.37	12,425.00	5,268.68	830.13	5,316.55	0.00	0.00	0.00
17,700.00	90.00	359.37	12,425.00	5,368.67	829.03	5,416.17	0.00	0.00	0.00
17,800.00	90.00	359.37	12,425.00	5,468.66	827.93	5,515.79	0.00	0.00	0.00
17,900.00	90.00	359.37	12,425.00	5,568.66	826.83	5,615.41	0.00	0.00	0.00
18,000.00	90.00	359.37	12,425.00	5,668.65	825.73	5,715.03	0.00	0.00	0.00
18,100.00	90.00	359.37	12,425.00	5,768.65	824.62	5,814.65	0.00	0.00	0.00
18,200.00	90.00	359.37	12,425.00	5,868.64	823.52	5,914.28	0.00	0.00	0.00
18,300.00	90.00	359.37	12,425.00	5,968.63	822.42	6,013.90	0.00	0.00	0.00
18,400.00	90.00	359.37	12,425.00	6,068.63	821.32	6,113.52	0.00	0.00	0.00
18,500.00	90.00	359.37	12,425.00	6,168.62	820.21	6,213.14	0.00	0.00	0.00
18,600.00	90.00	359.37	12,425.00	6,268.62	819.11	6,312.76	0.00	0.00	0.00
18,700.00	90.00	359.37	12,425.00	6,368.61	818.01	6,412.38	0.00	0.00	0.00
18,800.00	90.00	359.37	12,425.00	6,468.60	816.91	6,512.00	0.00	0.00	0.00
18,900.00	90.00	359.37	12,425.00	6,568.60	815.81	6,611.62	0.00	0.00	0.00
19,000.00	90.00	359.37	12,425.00	6,668.59	814.70	6,711.24	0.00	0.00	0.00
19,100.00	90.00	359.37	12,425.00	6,768.59	813.60	6,810.86	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Company:	Franklin Mountain Energy	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Project:	Lea County, NM (NAD83)	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site:	Colorado Fed Com	North Reference:	Grid
Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,200.00	90.00	359.37	12,425.00	6,868.58	812.50	6,910.48	0.00	0.00	0.00
19,300.00	90.00	359.37	12,425.00	6,968.57	811.40	7,010.10	0.00	0.00	0.00
19,400.00	90.00	359.37	12,425.00	7,068.57	810.30	7,109.72	0.00	0.00	0.00
19,500.00	90.00	359.37	12,425.00	7,168.56	809.19	7,209.34	0.00	0.00	0.00
19,600.00	90.00	359.37	12,425.00	7,268.56	808.09	7,308.96	0.00	0.00	0.00
19,700.00	90.00	359.37	12,425.00	7,368.55	806.99	7,408.58	0.00	0.00	0.00
19,800.00	90.00	359.37	12,425.00	7,468.54	805.89	7,508.20	0.00	0.00	0.00
19,900.00	90.00	359.37	12,425.00	7,568.54	804.78	7,607.82	0.00	0.00	0.00
20,000.00	90.00	359.37	12,425.00	7,668.53	803.68	7,707.44	0.00	0.00	0.00
20,100.00	90.00	359.37	12,425.00	7,768.52	802.58	7,807.06	0.00	0.00	0.00
20,200.00	90.00	359.37	12,425.00	7,868.52	801.48	7,906.68	0.00	0.00	0.00
20,300.00	90.00	359.37	12,425.00	7,968.51	800.38	8,006.31	0.00	0.00	0.00
20,400.00	90.00	359.37	12,425.00	8,068.51	799.27	8,105.93	0.00	0.00	0.00
20,500.00	90.00	359.37	12,425.00	8,168.50	798.17	8,205.55	0.00	0.00	0.00
20,600.00	90.00	359.37	12,425.00	8,268.49	797.07	8,305.17	0.00	0.00	0.00
20,700.00	90.00	359.37	12,425.00	8,368.49	795.97	8,404.79	0.00	0.00	0.00
20,800.00	90.00	359.37	12,425.00	8,468.48	794.86	8,504.41	0.00	0.00	0.00
20,900.00	90.00	359.37	12,425.00	8,568.48	793.76	8,604.03	0.00	0.00	0.00
21,000.00	90.00	359.37	12,425.00	8,668.47	792.66	8,703.65	0.00	0.00	0.00
21,100.00	90.00	359.37	12,425.00	8,768.46	791.56	8,803.27	0.00	0.00	0.00
21,200.00	90.00	359.37	12,425.00	8,868.46	790.46	8,902.89	0.00	0.00	0.00
21,300.00	90.00	359.37	12,425.00	8,968.45	789.35	9,002.51	0.00	0.00	0.00
21,400.00	90.00	359.37	12,425.00	9,068.45	788.25	9,102.13	0.00	0.00	0.00
21,500.00	90.00	359.37	12,425.00	9,168.44	787.15	9,201.75	0.00	0.00	0.00
21,600.00	90.00	359.37	12,425.00	9,268.43	786.05	9,301.37	0.00	0.00	0.00
21,700.00	90.00	359.37	12,425.00	9,368.43	784.94	9,400.99	0.00	0.00	0.00
21,800.00	90.00	359.37	12,425.00	9,468.42	783.84	9,500.61	0.00	0.00	0.00
21,900.00	90.00	359.37	12,425.00	9,568.42	782.74	9,600.23	0.00	0.00	0.00
22,000.00	90.00	359.37	12,425.00	9,668.41	781.64	9,699.85	0.00	0.00	0.00
22,100.00	90.00	359.37	12,425.00	9,768.40	780.54	9,799.47	0.00	0.00	0.00
22,200.00	90.00	359.37	12,425.00	9,868.40	779.43	9,899.09	0.00	0.00	0.00
22,300.00	90.00	359.37	12,425.00	9,968.39	778.33	9,998.72	0.00	0.00	0.00
22,400.00	90.00	359.37	12,425.00	10,068.39	777.23	10,098.34	0.00	0.00	0.00
22,506.08	90.00	359.37	12,425.00	10,174.46	776.06	10,204.01	0.00	0.00	0.00
TD at 22506.08 - PBHL (Colorado Fed Com 803H)									

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 (Colorado Fed Corr - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	447,078.33	837,176.54	32.225474	-103.376648
PBHL (Colorado Fed Co - plan hits target center - Point	0.00	0.00	12,425.00	10,174.46	776.06	457,252.79	837,952.60	32.253420	-103.373845
LP (Colorado Fed Com f - plan hits target center - Point	0.00	0.00	12,425.00	501.95	886.02	447,580.28	838,062.56	32.226832	-103.373769



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Company:	Franklin Mountain Energy	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Project:	Lea County, NM (NAD83)	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site:	Colorado Fed Com	North Reference:	Grid
Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.00	1,500.00	0.00	0.00	Start Build 1.50
2,200.03	2,196.12	-4.85	63.78	Start 4360.79 hold at 2200.03 MD
6,560.82	6,483.88	-65.15	856.22	Start Drop -1.50
7,260.85	7,180.00	-70.00	920.00	Start 4672.04 hold at 7260.85 MD
11,932.89	11,852.04	-70.00	920.00	Start Build 10.00
12,832.89	12,425.00	501.95	886.02	Start DLS 2.00 TFO 90.00
12,971.32	12,425.00	640.27	881.15	Start 9534.77 hold at 12971.32 MD
22,506.08	12,425.00	10,174.46	776.06	TD at 22506.08



Franklin Mountain Energy

Lea County, NM (NAD83)

Colorado Fed Com

Colorado Fed Com 803H

OH

Plan #1

Anticollision Report

03 September, 2021





Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	9/3/2021
From (usft)	To (usft)	Survey (Wellbore)
0.00	22,506.08	Plan #1 (OH)
		Tool Name
		OWSG (Rev2) MWD
		Description
		OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Colorado Fed Com						
Colorado Fed Com 101H - OH - Plan #1	1,500.00	1,498.40	139.98	132.71	19.252	CC, ES
Colorado Fed Com 101H - OH - Plan #1	1,800.00	1,798.09	151.71	142.95	17.316	SF
Colorado Fed Com 102H - OH - Plan #1	1,500.00	1,498.80	104.98	97.71	14.437	CC, ES
Colorado Fed Com 102H - OH - Plan #1	8,720.72	8,718.91	450.19	406.71	10.354	SF
Colorado Fed Com 801H - OH - Plan #1	1,500.00	1,499.20	69.98	62.71	9.623	CC, ES
Colorado Fed Com 801H - OH - Plan #1	22,506.08	22,578.44	1,852.01	1,606.00	7.528	SF
Colorado Fed Com 802H - OH - Plan #1	1,500.00	1,499.60	34.99	27.72	4.811	CC, ES
Colorado Fed Com 802H - OH - Plan #1	22,506.08	22,634.13	929.02	683.80	3.789	SF
Custer Mountain Unit #001 (Offset) - OH - OH	14,065.07	12,415.77	245.17	-53.66	0.820	Level 1, CC, ES, SF
Woolworth Ranch Unit #001 (Offset) - OH - OH	19,343.97	12,417.43	1,075.12	770.39	3.528	CC, ES
Woolworth Ranch Unit #001 (Offset) - OH - OH	19,400.00	12,417.42	1,076.58	771.33	3.527	SF
Georgetown/Ouray						
Georgetown Fed Com 301H - OH - Plan #1	1,500.00	1,489.50	207.15	199.89	28.535	CC, ES
Georgetown Fed Com 301H - OH - Plan #1	22,506.08	20,073.69	3,101.97	2,930.19	18.058	SF
Georgetown Fed Com 601H - OH - Plan #1	1,500.00	1,490.10	175.00	167.74	24.101	CC, ES
Georgetown Fed Com 601H - OH - Plan #1	22,506.08	21,925.85	2,036.51	1,807.46	8.891	SF
Georgetown Fed Com 701H - OH - Plan #1	1,500.00	1,490.30	144.18	136.92	19.855	CC, ES
Georgetown Fed Com 701H - OH - Plan #1	22,506.08	22,239.70	1,974.80	1,739.47	8.392	SF
Ouray Fed Com 302H - OH - Plan #1	2,394.91	2,395.74	52.52	40.80	4.480	CC
Ouray Fed Com 302H - OH - Plan #1	2,400.00	2,400.80	52.52	40.78	4.471	ES
Ouray Fed Com 302H - OH - Plan #1	2,500.00	2,500.34	53.49	41.26	4.372	SF
Ouray Fed Com 602H - OH - Plan #1	1,500.00	1,491.00	91.98	84.72	12.664	CC
Ouray Fed Com 602H - OH - Plan #1	11,793.85	11,793.77	137.16	78.39	2.334	ES, SF
Ouray Fed Com 702H - OH - Plan #1	1,500.00	1,490.30	115.75	108.49	15.941	CC, ES
Ouray Fed Com 702H - OH - Plan #1	22,506.08	22,103.83	1,127.71	929.80	5.698	SF
Ouray Fed Com 703H - OH - Plan #1	1,500.00	1,491.00	77.27	70.01	10.639	CC
Ouray Fed Com 703H - OH - Plan #1	9,560.61	9,543.99	86.63	34.63	1.666	ES
Ouray Fed Com 703H - OH - Plan #1	9,600.00	9,582.89	86.85	34.63	1.663	SF

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.56	-1.36	-139.97	139.99					
100.00	100.00	98.40	98.40	0.13	0.12	-90.56	-1.36	-139.97	139.98	139.80	0.18	795.227		
200.00	200.00	198.40	198.40	0.48	0.48	-90.56	-1.36	-139.97	139.98	139.30	0.68	205.743		
300.00	300.00	298.40	298.40	0.84	0.84	-90.56	-1.36	-139.97	139.98	138.79	1.19	117.895		
400.00	400.00	398.40	398.40	1.20	1.20	-90.56	-1.36	-139.97	139.98	138.28	1.69	82.619		
500.00	500.00	498.40	498.40	1.56	1.55	-90.56	-1.36	-139.97	139.98	137.78	2.20	63.591		
600.00	600.00	598.40	598.40	1.92	1.91	-90.56	-1.36	-139.97	139.98	137.27	2.71	51.687		
700.00	700.00	698.40	698.40	2.28	2.27	-90.56	-1.36	-139.97	139.98	136.76	3.22	43.537		
800.00	800.00	798.40	798.40	2.63	2.63	-90.56	-1.36	-139.97	139.98	136.25	3.72	37.607		
900.00	900.00	898.40	898.40	2.99	2.99	-90.56	-1.36	-139.97	139.98	135.75	4.23	33.099		
1,000.00	1,000.00	998.40	998.40	3.35	3.35	-90.56	-1.36	-139.97	139.98	135.24	4.74	29.556		
1,100.00	1,100.00	1,098.40	1,098.40	3.71	3.70	-90.56	-1.36	-139.97	139.98	134.73	5.24	26.698		
1,200.00	1,200.00	1,198.40	1,198.40	4.07	4.06	-90.56	-1.36	-139.97	139.98	134.23	5.75	24.344		
1,300.00	1,300.00	1,298.40	1,298.40	4.43	4.42	-90.56	-1.36	-139.97	139.98	133.72	6.26	22.372		
1,400.00	1,400.00	1,398.40	1,398.40	4.79	4.78	-90.56	-1.36	-139.97	139.98	133.21	6.76	20.695		
1,500.00	1,500.00	1,498.40	1,498.40	5.14	5.14	-90.56	-1.36	-139.97	139.98	132.71	7.27	19.252 CC, ES		
1,600.00	1,599.99	1,598.39	1,598.39	5.49	5.50	175.14	-1.36	-139.97	141.28	133.51	7.77	18.181		
1,700.00	1,699.91	1,698.31	1,698.31	5.84	5.85	175.26	-1.36	-139.97	145.19	136.93	8.27	17.566		
1,800.00	1,799.69	1,798.09	1,798.09	6.18	6.21	175.46	-1.36	-139.97	151.71	142.95	8.76	17.316 SF		
1,900.00	1,899.27	1,897.67	1,897.67	6.53	6.57	175.71	-1.36	-139.97	160.83	151.58	9.26	17.373		
2,000.00	1,998.57	1,996.97	1,996.97	6.89	6.93	175.99	-1.36	-139.97	172.56	162.80	9.75	17.691		
2,100.00	2,097.54	2,094.29	2,094.29	7.26	7.27	176.27	-1.39	-140.12	187.03	176.79	10.24	18.259		
2,200.03	2,196.12	2,187.78	2,187.75	7.64	7.59	176.44	-1.74	-142.07	205.99	195.28	10.71	19.238		
2,300.00	2,294.41	2,280.02	2,279.90	8.03	7.90	176.50	-2.47	-146.21	228.55	217.39	11.16	20.477		
2,400.00	2,392.74	2,371.24	2,370.89	8.42	8.22	176.45	-3.59	-152.45	253.41	241.80	11.61	21.834		
2,500.00	2,491.06	2,461.31	2,460.57	8.83	8.53	176.33	-5.06	-160.70	280.52	268.47	12.04	23.294		
2,600.00	2,589.39	2,550.17	2,548.83	9.24	8.84	176.15	-6.88	-170.89	309.83	297.36	12.47	24.846		
2,700.00	2,687.72	2,643.12	2,640.94	9.65	9.18	175.94	-9.07	-183.14	340.79	327.86	12.93	26.357		
2,800.00	2,786.04	2,738.17	2,735.13	10.07	9.52	175.76	-11.32	-195.75	371.85	358.44	13.41	27.733		
2,900.00	2,884.37	2,833.22	2,829.31	10.49	9.87	175.61	-13.57	-208.36	402.91	389.02	13.89	29.011		
3,000.00	2,982.69	2,928.27	2,923.49	10.92	10.23	175.47	-15.83	-220.98	433.97	419.60	14.37	30.198		
3,100.00	3,081.02	3,023.32	3,017.67	11.35	10.58	175.36	-18.08	-233.59	465.03	450.18	14.85	31.305		
3,200.00	3,179.34	3,118.37	3,111.85	11.78	10.94	175.26	-20.33	-246.20	496.10	480.75	15.34	32.339		
3,300.00	3,277.67	3,213.42	3,206.03	12.21	11.30	175.17	-22.58	-258.82	527.16	511.33	15.83	33.305		
3,400.00	3,375.99	3,308.47	3,300.22	12.65	11.67	175.10	-24.83	-271.43	558.23	541.91	16.32	34.212		
3,500.00	3,474.32	3,403.52	3,394.40	13.09	12.04	175.03	-27.09	-284.04	589.30	572.49	16.81	35.062		
3,600.00	3,572.64	3,498.57	3,488.58	13.53	12.40	174.96	-29.34	-296.65	620.36	603.07	17.30	35.862		
3,700.00	3,670.97	3,593.62	3,582.76	13.97	12.77	174.91	-31.59	-309.27	651.43	633.64	17.79	36.616		
3,800.00	3,769.29	3,688.67	3,676.94	14.41	13.15	174.86	-33.84	-321.88	682.50	664.22	18.28	37.327		
3,900.00	3,867.62	3,783.71	3,771.12	14.86	13.52	174.81	-36.10	-334.49	713.57	694.79	18.78	37.999		
4,000.00	3,965.94	3,878.76	3,865.31	15.30	13.90	174.77	-38.35	-347.11	744.64	725.37	19.27	38.635		
4,100.00	4,064.27	3,973.81	3,959.49	15.75	14.27	174.73	-40.60	-359.72	775.71	755.94	19.77	39.237		
4,200.00	4,162.60	4,068.86	4,053.67	16.20	14.65	174.69	-42.85	-372.33	806.79	786.52	20.27	39.808		
4,300.00	4,260.92	4,163.91	4,147.85	16.65	15.03	174.66	-45.11	-384.95	837.86	817.09	20.76	40.351		
4,400.00	4,359.25	4,258.96	4,242.03	17.09	15.41	174.62	-47.36	-397.56	868.93	847.67	21.26	40.867		
4,500.00	4,457.57	4,354.01	4,336.21	17.55	15.79	174.59	-49.61	-410.17	900.00	878.24	21.76	41.358		
4,600.00	4,555.90	4,449.06	4,430.40	18.00	16.17	174.57	-51.86	-422.79	931.07	908.81	22.26	41.826		
4,700.00	4,654.22	4,544.11	4,524.58	18.45	16.55	174.54	-54.12	-435.40	962.15	939.38	22.76	42.273		
4,800.00	4,752.55	4,639.16	4,618.76	18.90	16.94	174.52	-56.37	-448.01	993.22	969.96	23.26	42.699		
4,900.00	4,850.87	4,734.21	4,712.94	19.35	17.32	174.50	-58.62	-460.63	1,024.29	1,000.53	23.76	43.107		
5,000.00	4,949.20	4,829.26	4,807.12	19.81	17.70	174.47	-60.87	-473.24	1,055.36	1,031.10	24.26	43.497		
5,100.00	5,047.52	4,924.31	4,901.30	20.26	18.09	174.45	-63.13	-485.85	1,086.44	1,061.67	24.76	43.870		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Colorado Fed Com - Colorado Fed Com 101H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,145.85	5,019.35	4,995.49	20.72	18.47	174.43	-65.38	-498.47	1,117.51	1,092.24	25.27	44.228		
5,300.00	5,244.17	5,114.40	5,089.67	21.17	18.86	174.42	-67.63	-511.08	1,148.58	1,122.81	25.77	44.571		
5,400.00	5,342.50	5,209.45	5,183.85	21.63	19.25	174.40	-69.88	-523.69	1,179.65	1,153.38	26.27	44.900		
5,500.00	5,440.82	5,304.50	5,278.03	22.08	19.64	174.38	-72.13	-536.31	1,210.73	1,183.95	26.78	45.216		
5,600.00	5,539.15	5,399.55	5,372.21	22.54	20.02	174.37	-74.39	-548.92	1,241.80	1,214.52	27.28	45.520		
5,700.00	5,637.48	5,494.60	5,466.39	22.99	20.41	174.35	-76.64	-561.53	1,272.87	1,245.09	27.78	45.813		
5,800.00	5,735.80	5,589.65	5,560.58	23.45	20.80	174.34	-78.89	-574.15	1,303.95	1,275.66	28.29	46.094		
5,900.00	5,834.13	5,684.70	5,654.76	23.91	21.19	174.33	-81.14	-586.76	1,335.02	1,306.23	28.79	46.365		
6,000.00	5,932.45	5,779.75	5,748.94	24.37	21.58	174.31	-83.40	-599.37	1,366.10	1,336.80	29.30	46.627		
6,100.00	6,030.78	5,874.80	5,843.12	24.82	21.97	174.30	-85.65	-611.99	1,397.17	1,367.37	29.80	46.879		
6,200.00	6,129.10	5,969.85	5,937.30	25.28	22.36	174.29	-87.90	-624.60	1,428.24	1,397.93	30.31	47.122		
6,300.00	6,227.43	6,064.90	6,031.48	25.74	22.75	174.28	-90.15	-637.21	1,459.32	1,428.50	30.82	47.357		
6,400.00	6,325.75	6,159.95	6,125.66	26.20	23.14	174.27	-92.41	-649.83	1,490.39	1,459.07	31.32	47.583		
6,500.00	6,424.08	6,254.99	6,219.85	26.66	23.53	174.26	-94.66	-662.44	1,521.46	1,489.64	31.83	47.803		
6,560.82	6,483.88	6,312.81	6,277.13	26.94	23.77	174.25	-96.03	-670.11	1,540.36	1,508.23	32.14	47.932		
6,600.00	6,522.44	6,350.10	6,314.09	27.11	23.92	174.27	-96.91	-675.06	1,552.35	1,520.01	32.33	48.009		
6,700.00	6,621.16	6,445.85	6,408.96	27.55	24.32	174.29	-99.18	-687.77	1,581.20	1,548.36	32.84	48.147		
6,800.00	6,720.27	6,542.31	6,504.54	27.97	24.71	174.31	-101.47	-700.57	1,607.56	1,574.21	33.35	48.206		
6,900.00	6,819.68	6,639.42	6,600.76	28.36	25.11	174.31	-103.77	-713.45	1,631.39	1,597.54	33.85	48.189		
7,000.00	6,919.35	6,737.11	6,697.56	28.73	25.52	174.30	-106.08	-726.42	1,652.69	1,618.33	34.36	48.100		
7,100.00	7,019.20	6,835.33	6,794.88	29.08	25.92	174.27	-108.41	-739.45	1,671.43	1,636.57	34.86	47.942		
7,200.00	7,119.15	6,933.99	6,892.64	29.41	26.33	174.24	-110.75	-752.54	1,687.61	1,652.25	35.37	47.719		
7,260.85	7,180.00	6,994.22	6,952.33	29.60	26.58	-91.44	-112.18	-760.54	1,696.20	1,660.53	35.67	47.556		
7,300.00	7,219.15	7,033.01	6,990.76	29.72	26.74	-91.46	-113.09	-765.68	1,701.42	1,665.56	35.86	47.446		
7,400.00	7,319.15	7,139.23	7,096.02	30.02	27.18	-91.54	-115.61	-779.75	1,714.73	1,678.34	36.39	47.120		
7,500.00	7,419.15	7,238.51	7,274.24	30.32	27.89	-91.63	-118.99	-798.69	1,725.35	1,688.08	37.27	46.298		
7,600.00	7,519.15	7,499.21	7,454.60	30.62	28.55	-91.69	-120.91	-809.43	1,731.32	1,693.25	38.07	45.476		
7,700.00	7,619.15	7,662.19	7,617.55	30.92	29.10	-91.70	-121.36	-811.97	1,732.73	1,693.98	38.75	44.715		
7,800.00	7,719.15	7,762.19	7,717.55	31.23	29.42	-91.70	-121.36	-811.97	1,732.73	1,693.51	39.23	44.173		
7,900.00	7,819.15	7,862.19	7,817.55	31.54	29.74	-91.70	-121.36	-811.97	1,732.73	1,693.03	39.70	43.642		
8,000.00	7,919.15	7,962.19	7,917.55	31.84	30.06	-91.70	-121.36	-811.97	1,732.73	1,692.55	40.18	43.124		
8,100.00	8,019.15	8,062.19	8,017.55	32.15	30.39	-91.70	-121.36	-811.97	1,732.73	1,692.07	40.66	42.616		
8,200.00	8,119.15	8,162.19	8,117.55	32.46	30.71	-91.70	-121.36	-811.97	1,732.73	1,691.59	41.14	42.120		
8,300.00	8,219.15	8,262.19	8,217.55	32.77	31.04	-91.70	-121.36	-811.97	1,732.73	1,691.11	41.62	41.635		
8,400.00	8,319.15	8,336.60	8,291.89	33.08	31.28	-91.62	-119.05	-812.42	1,733.30	1,691.28	42.02	41.247		
8,500.00	8,419.15	8,400.00	8,354.58	33.39	31.49	-91.32	-110.01	-814.18	1,735.78	1,693.40	42.38	40.957		
8,600.00	8,519.15	8,464.89	8,417.29	33.71	31.69	-90.78	-93.77	-817.33	1,740.39	1,697.67	42.72	40.739		
8,700.00	8,619.15	8,523.41	8,471.91	34.02	31.87	-90.11	-73.24	-821.32	1,747.41	1,704.39	43.01	40.625		
8,800.00	8,719.15	8,577.08	8,519.91	34.33	32.03	-89.33	-49.70	-825.90	1,757.17	1,713.91	43.25	40.625		
8,900.00	8,819.15	8,625.67	8,561.25	34.65	32.16	-88.52	-24.66	-830.77	1,770.01	1,726.57	43.43	40.752		
9,000.00	8,919.15	8,669.27	8,596.39	34.97	32.27	-87.70	0.65	-835.69	1,786.22	1,742.67	43.55	41.015		
9,100.00	9,019.15	8,700.00	8,619.93	35.28	32.35	-87.07	20.04	-839.46	1,806.07	1,762.52	43.56	41.466		
9,200.00	9,119.15	8,750.00	8,655.87	35.60	32.48	-85.98	54.14	-846.08	1,829.65	1,786.03	43.62	41.947		
9,300.00	9,219.15	8,773.59	8,671.74	35.92	32.53	-85.44	71.27	-849.41	1,857.07	1,813.57	43.49	42.698		
9,400.00	9,319.15	8,800.00	8,688.64	36.24	32.60	-84.81	91.19	-853.29	1,888.40	1,845.06	43.34	43.576		
9,500.00	9,419.15	8,825.48	8,704.04	36.56	32.66	-84.18	111.11	-857.16	1,923.59	1,880.45	43.14	44.594		
9,600.00	9,519.15	8,850.00	8,718.00	36.88	32.72	-83.56	130.90	-861.00	1,962.56	1,919.66	42.89	45.754		
9,700.00	9,619.15	8,867.01	8,727.16	37.20	32.76	-83.13	144.96	-863.74	2,005.17	1,962.59	42.58	47.092		
9,800.00	9,719.15	8,900.00	8,743.72	37.53	32.84	-82.27	172.97	-869.18	2,051.48	2,009.13	42.35	48.441		
9,900.00	9,819.15	8,900.00	8,743.72	37.85	32.84	-82.27	172.97	-869.18	2,100.79	2,058.90	41.89	50.145		
10,000.00	9,919.15	8,900.00	8,743.72	38.17	32.84	-82.27	172.97	-869.18	2,153.62	2,112.19	41.43	51.980		
10,100.00	10,019.15	8,928.32	8,756.60	38.50	32.92	-81.51	197.73	-874.00	2,209.09	2,167.94	41.16	53.671		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.00	10,119.15	8,950.00	8,765.60	38.82	32.98	-80.93	217.09	-877.76	2,267.62	2,226.77	40.85	55.515		
10,300.00	10,219.15	8,950.00	8,765.60	39.15	32.98	-80.93	217.09	-877.76	2,328.63	2,288.22	40.41	57.631		
10,400.00	10,319.15	8,950.00	8,765.60	39.47	32.98	-80.93	217.09	-877.76	2,392.25	2,352.27	39.98	59.835		
10,500.00	10,419.15	8,970.76	8,773.52	39.80	33.03	-80.36	235.92	-881.42	2,457.95	2,418.24	39.71	61.900		
10,600.00	10,519.15	8,979.36	8,776.60	40.13	33.06	-80.13	243.80	-882.95	2,525.87	2,486.49	39.38	64.142		
10,700.00	10,619.15	9,000.00	8,783.49	40.45	33.12	-79.56	262.90	-886.66	2,595.89	2,556.74	39.14	66.315		
10,800.00	10,719.15	9,000.00	8,783.49	40.78	33.12	-79.56	262.90	-886.66	2,667.48	2,628.67	38.81	68.730		
10,900.00	10,819.15	9,000.00	8,783.49	41.11	33.12	-79.56	262.90	-886.66	2,740.85	2,702.34	38.50	71.184		
11,000.00	10,919.15	9,000.00	8,783.49	41.44	33.12	-79.56	262.90	-886.66	2,815.86	2,777.63	38.22	73.666		
11,100.00	11,019.15	9,000.00	8,783.49	41.77	33.12	-79.56	262.90	-886.66	2,892.38	2,854.41	37.97	76.169		
11,200.00	11,119.15	9,000.00	8,783.49	42.10	33.12	-79.56	262.90	-886.66	2,970.30	2,932.55	37.75	78.684		
11,300.00	11,219.15	9,024.82	8,790.84	42.43	33.20	-78.87	286.17	-891.19	3,048.96	3,011.27	37.69	80.902		
11,400.00	11,319.15	9,050.00	8,797.24	42.76	33.29	-78.18	310.08	-895.83	3,129.48	3,091.84	37.64	83.134		
11,500.00	11,419.15	9,050.00	8,797.24	43.09	33.29	-78.18	310.08	-895.83	3,210.56	3,173.07	37.50	85.625		
11,600.00	11,519.15	9,050.00	8,797.24	43.43	33.29	-78.18	310.08	-895.83	3,292.69	3,255.31	37.37	88.103		
11,700.00	11,619.15	9,050.00	8,797.24	43.76	33.29	-78.18	310.08	-895.83	3,375.77	3,338.50	37.28	90.563		
11,800.00	11,719.15	9,050.00	8,797.24	44.09	33.29	-78.18	310.08	-895.83	3,459.75	3,422.55	37.20	93.005		
11,900.00	11,819.15	9,050.00	8,797.24	44.42	33.29	-78.18	310.08	-895.83	3,544.57	3,507.42	37.15	95.421		
11,932.89	11,852.04	9,050.00	8,797.24	44.53	33.29	-78.18	310.08	-895.83	3,572.64	3,535.50	37.13	96.209		
11,950.00	11,869.15	9,050.00	8,797.24	44.59	33.29	-72.10	310.08	-895.83	3,587.23	3,550.10	37.13	96.618		
12,000.00	11,918.99	9,050.00	8,797.24	44.75	33.29	-64.74	310.08	-895.83	3,629.50	3,592.39	37.11	97.807		
12,050.00	11,968.33	9,050.00	8,797.24	44.91	33.29	-58.23	310.08	-895.83	3,670.96	3,633.87	37.09	98.979		
12,100.00	12,016.79	9,050.00	8,797.24	45.06	33.29	-52.60	310.08	-895.83	3,711.32	3,674.26	37.07	100.128		
12,150.00	12,063.99	9,050.00	8,797.24	45.21	33.29	-47.81	310.08	-895.83	3,750.33	3,713.29	37.04	101.246		
12,200.00	12,109.58	9,050.00	8,797.24	45.34	33.29	-43.77	310.08	-895.83	3,787.72	3,750.71	37.02	102.326		
12,250.00	12,153.20	9,073.57	8,802.26	45.46	33.37	-40.20	332.68	-900.23	3,822.77	3,785.69	37.08	103.087		
12,300.00	12,194.54	9,100.00	8,806.75	45.57	33.48	-37.25	358.24	-905.20	3,856.44	3,819.29	37.15	103.795		
12,350.00	12,233.27	9,100.00	8,806.75	45.67	33.48	-34.95	358.24	-905.20	3,887.19	3,850.07	37.12	104.714		
12,400.00	12,269.10	9,100.00	8,806.75	45.76	33.48	-33.03	358.24	-905.20	3,915.48	3,878.39	37.09	105.565		
12,450.00	12,301.75	9,100.00	8,806.75	45.83	33.48	-31.44	358.24	-905.20	3,941.14	3,904.08	37.06	106.341		
12,500.00	12,330.98	9,100.00	8,806.75	45.90	33.48	-30.12	358.24	-905.20	3,964.03	3,926.99	37.04	107.033		
12,550.00	12,356.57	9,100.00	8,806.75	45.96	33.48	-29.04	358.24	-905.20	3,984.03	3,947.01	37.01	107.634		
12,600.00	12,378.31	9,100.00	8,806.75	46.01	33.48	-28.18	358.24	-905.20	4,001.02	3,964.02	37.00	108.134		
12,650.00	12,396.05	9,100.00	8,806.75	46.06	33.48	-27.50	358.24	-905.20	4,014.93	3,977.94	36.99	108.527		
12,700.00	12,409.66	9,127.74	8,810.17	46.11	33.59	-27.02	385.26	-910.45	4,024.97	3,987.89	37.08	108.540		
12,750.00	12,419.01	9,150.00	8,811.95	46.17	33.68	-26.72	407.04	-914.68	4,032.33	3,995.17	37.16	108.514		
12,800.00	12,424.05	9,150.00	8,811.95	46.24	33.68	-26.56	407.04	-914.68	4,035.98	3,998.80	37.18	108.543		
12,832.89	12,425.00	9,150.00	8,811.95	46.30	33.68	-26.53	407.04	-914.68	4,036.60	3,999.39	37.21	108.492		
12,840.29	12,425.00	9,150.00	8,811.95	46.31	33.68	-26.53	407.04	-914.68	4,036.58	3,999.37	37.21	108.472		
12,900.00	12,425.00	9,150.00	8,811.95	46.43	33.68	-26.52	407.04	-914.68	4,037.30	4,000.03	37.28	108.309		
12,971.32	12,425.00	9,150.00	8,811.95	46.62	33.68	-26.47	407.04	-914.68	4,040.05	4,002.66	37.38	108.070		
13,000.00	12,425.00	9,168.23	8,812.76	46.71	33.76	-26.52	424.92	-918.16	4,041.36	4,003.89	37.48	107.832		
13,100.00	12,425.00	9,184.68	8,813.00	47.06	33.83	-26.56	441.07	-921.30	4,047.99	4,010.26	37.72	107.308		
13,200.00	12,425.00	9,400.12	8,813.00	47.49	34.98	-26.95	653.89	-954.42	4,054.79	4,016.33	38.45	105.450		
13,300.00	12,425.00	9,681.65	8,813.00	47.98	36.85	-27.15	934.67	-973.44	4,057.37	4,017.91	39.46	102.818		
13,400.00	12,425.00	9,795.43	8,813.00	48.53	37.70	-27.15	1,048.44	-974.78	4,057.38	4,017.33	40.05	101.307		
13,500.00	12,425.00	9,895.43	8,813.00	49.13	38.52	-27.15	1,148.44	-975.88	4,057.39	4,016.74	40.64	99.830		
13,600.00	12,425.00	9,995.43	8,813.00	49.79	39.38	-27.15	1,248.43	-976.99	4,057.39	4,016.11	41.28	98.293		
13,700.00	12,425.00	10,095.43	8,813.00	50.49	40.30	-27.15	1,348.43	-978.10	4,057.39	4,015.44	41.95	96.710		
13,800.00	12,425.00	10,195.43	8,813.00	51.24	41.26	-27.15	1,448.42	-979.20	4,057.39	4,014.72	42.67	95.092		
13,900.00	12,425.00	10,295.43	8,813.00	52.03	42.26	-27.15	1,548.41	-980.31	4,057.39	4,013.98	43.42	93.448		
14,000.00	12,425.00	10,395.43	8,813.00	52.87	43.31	-27.15	1,648.41	-981.42	4,057.40	4,013.19	44.20	91.793		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Colorado Fed Com - Colorado Fed Com 101H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	12,425.00	10,495.43	8,813.00	53.74	44.39	-27.15	1,748.40	-982.52	4,057.40	4,012.38	45.02	90.130		
14,200.00	12,425.00	10,595.43	8,813.00	54.65	45.50	-27.15	1,848.39	-983.63	4,057.40	4,011.54	45.86	88.466		
14,300.00	12,425.00	10,695.43	8,813.00	55.59	46.65	-27.15	1,948.39	-984.74	4,057.40	4,010.66	46.74	86.808		
14,400.00	12,425.00	10,795.43	8,813.00	56.57	47.83	-27.15	2,048.38	-985.84	4,057.40	4,009.76	47.64	85.161		
14,500.00	12,425.00	10,895.43	8,813.00	57.57	49.03	-27.15	2,148.38	-986.95	4,057.41	4,008.83	48.57	83.531		
14,600.00	12,425.00	10,995.43	8,813.00	58.61	50.26	-27.15	2,248.37	-988.06	4,057.41	4,007.88	49.53	81.921		
14,700.00	12,425.00	11,095.43	8,813.00	59.67	51.52	-27.15	2,348.36	-989.16	4,057.41	4,006.90	50.51	80.333		
14,800.00	12,425.00	11,195.43	8,813.00	60.76	52.79	-27.15	2,448.36	-990.27	4,057.41	4,005.90	51.51	78.772		
14,900.00	12,425.00	11,295.43	8,813.00	61.88	54.09	-27.15	2,548.35	-991.38	4,057.42	4,004.89	52.53	77.241		
15,000.00	12,425.00	11,395.43	8,813.00	63.02	55.40	-27.15	2,648.35	-992.49	4,057.42	4,003.85	53.57	75.744		
15,100.00	12,425.00	11,495.43	8,813.00	64.18	56.74	-27.15	2,748.34	-993.59	4,057.42	4,002.79	54.63	74.276		
15,200.00	12,425.00	11,595.43	8,813.00	65.36	58.09	-27.15	2,848.33	-994.70	4,057.42	4,001.72	55.70	72.844		
15,300.00	12,425.00	11,695.43	8,813.00	66.56	59.45	-27.15	2,948.33	-995.81	4,057.42	4,000.63	56.79	71.447		
15,400.00	12,425.00	11,795.43	8,813.00	67.78	60.83	-27.15	3,048.32	-996.91	4,057.43	3,999.53	57.89	70.083		
15,500.00	12,425.00	11,895.43	8,813.00	69.02	62.22	-27.15	3,148.32	-998.02	4,057.43	3,998.41	59.01	68.753		
15,600.00	12,425.00	11,995.43	8,813.00	70.28	63.63	-27.15	3,248.31	-999.13	4,057.43	3,997.28	60.15	67.457		
15,700.00	12,425.00	12,095.43	8,813.00	71.55	65.04	-27.15	3,348.30	-1,000.23	4,057.43	3,996.14	61.30	66.195		
15,800.00	12,425.00	12,195.43	8,813.00	72.84	66.47	-27.15	3,448.30	-1,001.34	4,057.43	3,994.98	62.45	64.966		
15,900.00	12,425.00	12,295.43	8,813.00	74.14	67.91	-27.15	3,548.29	-1,002.45	4,057.44	3,993.81	63.63	63.771		
16,000.00	12,425.00	12,395.43	8,813.00	75.46	69.35	-27.15	3,648.28	-1,003.55	4,057.44	3,992.63	64.81	62.608		
16,100.00	12,425.00	12,495.43	8,813.00	76.79	70.81	-27.15	3,748.28	-1,004.66	4,057.44	3,991.44	66.00	61.480		
16,200.00	12,425.00	12,595.43	8,813.00	78.13	72.28	-27.15	3,848.27	-1,005.77	4,057.44	3,990.25	67.20	60.383		
16,300.00	12,425.00	12,695.43	8,813.00	79.48	73.75	-27.15	3,948.27	-1,006.87	4,057.44	3,989.04	68.40	59.317		
16,400.00	12,425.00	12,795.43	8,813.00	80.85	75.23	-27.15	4,048.26	-1,007.98	4,057.45	3,987.83	69.62	58.280		
16,500.00	12,425.00	12,895.43	8,813.00	82.22	76.72	-27.15	4,148.25	-1,009.09	4,057.45	3,986.60	70.84	57.273		
16,600.00	12,425.00	12,995.43	8,813.00	83.61	78.21	-27.15	4,248.25	-1,010.19	4,057.45	3,985.37	72.08	56.293		
16,700.00	12,425.00	13,095.43	8,813.00	85.00	79.71	-27.15	4,348.24	-1,011.30	4,057.45	3,984.13	73.32	55.341		
16,800.00	12,425.00	13,195.43	8,813.00	86.40	81.22	-27.15	4,448.24	-1,012.41	4,057.45	3,982.89	74.57	54.415		
16,900.00	12,425.00	13,295.43	8,813.00	87.82	82.73	-27.15	4,548.23	-1,013.51	4,057.46	3,981.64	75.82	53.515		
17,000.00	12,425.00	13,395.43	8,813.00	89.24	84.24	-27.15	4,648.22	-1,014.62	4,057.46	3,980.38	77.08	52.640		
17,100.00	12,425.00	13,495.43	8,813.00	90.66	85.77	-27.15	4,748.22	-1,015.73	4,057.46	3,979.11	78.35	51.789		
17,200.00	12,425.00	13,595.43	8,813.00	92.10	87.29	-27.15	4,848.21	-1,016.83	4,057.46	3,977.84	79.62	50.961		
17,300.00	12,425.00	13,695.43	8,813.00	93.54	88.82	-27.15	4,948.20	-1,017.94	4,057.46	3,976.57	80.90	50.156		
17,400.00	12,425.00	13,795.43	8,813.00	94.99	90.36	-27.15	5,048.20	-1,019.05	4,057.47	3,975.29	82.18	49.373		
17,500.00	12,425.00	13,895.43	8,813.00	96.45	91.90	-27.15	5,148.19	-1,020.15	4,057.47	3,974.00	83.46	48.613		
17,600.00	12,425.00	13,995.43	8,813.00	97.91	93.44	-27.15	5,248.19	-1,021.26	4,057.47	3,972.72	84.75	47.873		
17,700.00	12,425.00	14,095.43	8,813.00	99.38	94.99	-27.15	5,348.18	-1,022.37	4,057.47	3,971.42	86.05	47.153		
17,800.00	12,425.00	14,195.43	8,813.00	100.86	96.54	-27.15	5,448.17	-1,023.47	4,057.48	3,970.13	87.35	46.452		
17,900.00	12,425.00	14,295.43	8,813.00	102.34	98.10	-27.15	5,548.17	-1,024.58	4,057.48	3,968.83	88.65	45.769		
18,000.00	12,425.00	14,395.43	8,813.00	103.82	99.65	-27.15	5,648.16	-1,025.69	4,057.48	3,967.52	89.96	45.104		
18,100.00	12,425.00	14,495.43	8,813.00	105.31	101.21	-27.15	5,748.16	-1,026.79	4,057.48	3,966.21	91.27	44.455		
18,200.00	12,425.00	14,595.43	8,813.00	106.80	102.78	-27.15	5,848.15	-1,027.90	4,057.48	3,964.90	92.58	43.824		
18,300.00	12,425.00	14,695.43	8,813.00	108.30	104.34	-27.15	5,948.14	-1,029.01	4,057.49	3,963.59	93.90	43.211		
18,400.00	12,425.00	14,795.43	8,813.00	109.81	105.91	-27.15	6,048.14	-1,030.11	4,057.49	3,962.27	95.22	42.611		
18,500.00	12,425.00	14,895.43	8,813.00	111.32	107.48	-27.15	6,148.13	-1,031.22	4,057.49	3,960.94	96.55	42.027		
18,600.00	12,425.00	14,995.43	8,813.00	112.83	109.06	-27.15	6,248.13	-1,032.33	4,057.49	3,959.62	97.87	41.458		
18,700.00	12,425.00	15,095.43	8,813.00	114.34	110.63	-27.15	6,348.12	-1,033.43	4,057.49	3,958.30	99.20	40.904		
18,800.00	12,425.00	15,195.43	8,813.00	115.86	112.21	-27.15	6,448.11	-1,034.54	4,057.50	3,956.97	100.53	40.363		
18,900.00	12,425.00	15,295.43	8,813.00	117.39	113.79	-27.15	6,548.11	-1,035.65	4,057.50	3,955.64	101.86	39.834		
19,000.00	12,425.00	15,395.43	8,813.00	118.91	115.37	-27.15	6,648.10	-1,036.75	4,057.50	3,954.30	103.20	39.318		
19,100.00	12,425.00	15,495.43	8,813.00	120.44	116.96	-27.15	6,748.09	-1,037.86	4,057.50	3,952.97	104.54	38.815		
19,200.00	12,425.00	15,595.43	8,813.00	121.98	118.54	-27.15	6,848.09	-1,038.97	4,057.50	3,951.63	105.88	38.323		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Colorado Fed Com - Colorado Fed Com 101H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,300.00	12,425.00	15,695.43	8,813.00	123.51	120.13	-27.15	6,948.08	-1,040.07	4,057.51	3,950.29	107.22	37.843		
19,400.00	12,425.00	15,795.43	8,813.00	125.05	121.72	-27.15	7,048.08	-1,041.18	4,057.51	3,948.95	108.56	37.375		
19,500.00	12,425.00	15,895.43	8,813.00	126.60	123.31	-27.15	7,148.07	-1,042.29	4,057.51	3,947.60	109.91	36.918		
19,600.00	12,425.00	15,995.43	8,813.00	128.14	124.91	-27.15	7,248.06	-1,043.39	4,057.51	3,946.26	111.25	36.471		
19,700.00	12,425.00	16,095.43	8,813.00	129.69	126.50	-27.15	7,348.06	-1,044.50	4,057.51	3,944.91	112.60	36.034		
19,800.00	12,425.00	16,195.43	8,813.00	131.24	128.10	-27.15	7,448.05	-1,045.61	4,057.52	3,943.56	113.95	35.607		
19,900.00	12,425.00	16,295.43	8,813.00	132.79	129.70	-27.15	7,548.05	-1,046.71	4,057.52	3,942.21	115.30	35.190		
20,000.00	12,425.00	16,395.43	8,813.00	134.35	131.29	-27.15	7,648.04	-1,047.82	4,057.52	3,940.86	116.66	34.781		
20,100.00	12,425.00	16,495.43	8,813.00	135.91	132.90	-27.15	7,748.03	-1,048.93	4,057.52	3,939.51	118.02	34.381		
20,200.00	12,425.00	16,595.43	8,813.00	137.47	134.50	-27.15	7,848.03	-1,050.03	4,057.52	3,938.15	119.37	33.990		
20,300.00	12,425.00	16,695.43	8,813.00	139.03	136.10	-27.15	7,948.02	-1,051.14	4,057.53	3,936.79	120.73	33.608		
20,400.00	12,425.00	16,795.43	8,813.00	140.59	137.70	-27.15	8,048.02	-1,052.25	4,057.53	3,935.44	122.09	33.233		
20,500.00	12,425.00	16,895.43	8,813.00	142.16	139.31	-27.15	8,148.01	-1,053.35	4,057.53	3,934.08	123.46	32.866		
20,600.00	12,425.00	16,995.43	8,813.00	143.73	140.92	-27.15	8,248.00	-1,054.46	4,057.53	3,932.72	124.82	32.508		
20,700.00	12,425.00	17,095.43	8,813.00	145.30	142.52	-27.15	8,348.00	-1,055.57	4,057.54	3,931.36	126.18	32.157		
20,800.00	12,425.00	17,195.43	8,813.00	146.87	144.13	-27.15	8,447.99	-1,056.68	4,057.54	3,930.00	127.54	31.814		
20,900.00	12,425.00	17,295.43	8,813.00	148.44	145.74	-27.15	8,547.98	-1,057.78	4,057.54	3,928.63	128.90	31.477		
21,000.00	12,425.00	17,395.43	8,813.00	150.02	147.35	-27.15	8,647.98	-1,058.89	4,057.54	3,927.27	130.27	31.147		
21,100.00	12,425.00	17,495.43	8,813.00	151.59	148.96	-27.15	8,747.97	-1,060.00	4,057.54	3,925.90	131.64	30.823		
21,200.00	12,425.00	17,595.43	8,813.00	153.17	150.57	-27.15	8,847.97	-1,061.10	4,057.55	3,924.54	133.01	30.506		
21,300.00	12,425.00	17,695.43	8,813.00	154.75	152.19	-27.15	8,947.96	-1,062.21	4,057.55	3,923.17	134.38	30.195		
21,400.00	12,425.00	17,795.43	8,813.00	156.33	153.80	-27.15	9,047.95	-1,063.32	4,057.55	3,921.80	135.75	29.891		
21,500.00	12,425.00	17,895.43	8,813.00	157.92	155.42	-27.15	9,147.95	-1,064.42	4,057.55	3,920.44	137.12	29.592		
21,600.00	12,425.00	17,995.43	8,813.00	159.50	157.03	-27.15	9,247.94	-1,065.53	4,057.55	3,919.06	138.49	29.299		
21,700.00	12,425.00	18,095.43	8,813.00	161.09	158.65	-27.15	9,347.94	-1,066.64	4,057.56	3,917.70	139.86	29.012		
21,800.00	12,425.00	18,195.43	8,813.00	162.67	160.27	-27.15	9,447.93	-1,067.74	4,057.56	3,916.33	141.23	28.730		
21,900.00	12,425.00	18,295.43	8,813.00	164.26	161.88	-27.15	9,547.92	-1,068.85	4,057.56	3,914.96	142.60	28.454		
22,000.00	12,425.00	18,395.43	8,813.00	165.85	163.50	-27.15	9,647.92	-1,069.96	4,057.56	3,913.59	143.98	28.182		
22,100.00	12,425.00	18,495.43	8,813.00	167.44	165.12	-27.15	9,747.91	-1,071.06	4,057.56	3,912.21	145.35	27.916		
22,200.00	12,425.00	18,595.43	8,813.00	169.03	166.74	-27.15	9,847.90	-1,072.17	4,057.57	3,910.84	146.73	27.654		
22,300.00	12,425.00	18,695.43	8,813.00	170.63	168.36	-27.15	9,947.90	-1,073.28	4,057.57	3,909.46	148.10	27.397		
22,400.00	12,425.00	18,795.43	8,813.00	172.22	169.98	-27.15	10,047.89	-1,074.38	4,057.57	3,908.09	149.48	27.144		
22,506.08	12,425.00	18,901.52	8,813.00	173.92	171.70	-27.15	10,153.97	-1,075.56	4,057.57	3,906.63	150.94	26.882		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.56	-1.02	-104.98	104.99					
100.00	100.00	98.80	98.80	0.13	0.12	-90.56	-1.02	-104.98	104.98	104.81	0.18	595.243		
200.00	200.00	198.80	198.80	0.48	0.48	-90.56	-1.02	-104.98	104.98	104.30	0.68	154.083		
300.00	300.00	298.80	298.80	0.84	0.84	-90.56	-1.02	-104.98	104.98	103.80	1.19	88.348		
400.00	400.00	398.80	398.80	1.20	1.20	-90.56	-1.02	-104.98	104.98	103.29	1.70	61.928		
500.00	500.00	498.80	498.80	1.56	1.56	-90.56	-1.02	-104.98	104.98	102.78	2.20	47.672		
600.00	600.00	598.80	598.80	1.92	1.91	-90.56	-1.02	-104.98	104.98	102.28	2.71	38.752		
700.00	700.00	698.80	698.80	2.28	2.27	-90.56	-1.02	-104.98	104.98	101.77	3.22	32.643		
800.00	800.00	798.80	798.80	2.63	2.63	-90.56	-1.02	-104.98	104.98	101.26	3.72	28.198		
900.00	900.00	898.80	898.80	2.99	2.99	-90.56	-1.02	-104.98	104.98	100.75	4.23	24.819		
1,000.00	1,000.00	998.80	998.80	3.35	3.35	-90.56	-1.02	-104.98	104.98	100.25	4.74	22.163		
1,100.00	1,100.00	1,098.80	1,098.80	3.71	3.71	-90.56	-1.02	-104.98	104.98	99.74	5.24	20.020		
1,200.00	1,200.00	1,198.80	1,198.80	4.07	4.06	-90.56	-1.02	-104.98	104.98	99.23	5.75	18.255		
1,300.00	1,300.00	1,298.80	1,298.80	4.43	4.42	-90.56	-1.02	-104.98	104.98	98.73	6.26	16.777		
1,400.00	1,400.00	1,398.80	1,398.80	4.79	4.78	-90.56	-1.02	-104.98	104.98	98.22	6.76	15.519		
1,500.00	1,500.00	1,498.80	1,498.80	5.14	5.14	-90.56	-1.02	-104.98	104.98	97.71	7.27	14.437	CC, ES	
1,600.00	1,599.99	1,598.79	1,598.79	5.49	5.50	175.15	-1.02	-104.98	106.29	98.52	7.77	13.676		
1,700.00	1,699.91	1,698.71	1,698.71	5.84	5.86	175.32	-1.02	-104.98	110.20	101.93	8.27	13.331		
1,800.00	1,799.69	1,798.49	1,798.49	6.18	6.21	175.57	-1.02	-104.98	116.72	107.96	8.76	13.321		
1,900.00	1,899.27	1,898.07	1,898.07	6.53	6.57	175.88	-1.02	-104.98	125.85	116.59	9.26	13.592		
2,000.00	1,998.57	1,997.37	1,997.37	6.89	6.93	176.22	-1.02	-104.98	137.57	127.82	9.76	14.103		
2,100.00	2,097.54	2,100.09	2,100.08	7.26	7.28	176.42	-1.45	-103.74	150.69	140.44	10.25	14.701		
2,200.03	2,196.12	2,203.28	2,203.19	7.64	7.63	176.34	-2.80	-99.87	163.88	153.14	10.74	15.264		
2,300.00	2,294.41	2,306.91	2,306.58	8.03	7.99	176.02	-5.07	-93.34	175.80	164.58	11.22	15.670		
2,400.00	2,392.74	2,411.11	2,410.32	8.42	8.35	175.45	-8.28	-84.10	185.18	173.48	11.70	15.826		
2,500.00	2,491.06	2,512.60	2,511.13	8.83	8.70	174.73	-12.13	-73.02	192.52	180.33	12.19	15.791		
2,600.00	2,589.39	2,612.32	2,610.15	9.24	9.06	174.05	-15.98	-61.95	199.71	187.02	12.69	15.738		
2,700.00	2,687.72	2,712.03	2,709.18	9.65	9.42	173.42	-19.83	-50.88	206.92	193.73	13.19	15.686		
2,800.00	2,786.04	2,811.75	2,808.20	10.07	9.78	172.84	-23.68	-39.81	214.16	200.46	13.70	15.637		
2,900.00	2,884.37	2,911.46	2,907.22	10.49	10.14	172.29	-27.53	-28.74	221.42	207.22	14.20	15.589		
3,000.00	2,982.69	3,011.18	3,006.25	10.92	10.51	171.77	-31.38	-17.67	228.70	213.98	14.71	15.544		
3,100.00	3,081.02	3,110.89	3,105.27	11.35	10.88	171.29	-35.23	-6.61	235.99	220.77	15.22	15.500		
3,200.00	3,179.34	3,210.61	3,204.29	11.78	11.26	170.84	-39.08	4.46	243.30	227.56	15.74	15.458		
3,300.00	3,277.67	3,310.32	3,303.32	12.21	11.63	170.41	-42.93	15.53	250.63	234.37	16.26	15.418		
3,400.00	3,375.99	3,410.03	3,402.34	12.65	12.01	170.01	-46.78	26.60	257.96	241.19	16.77	15.380		
3,500.00	3,474.32	3,509.75	3,501.36	13.09	12.39	169.63	-50.63	37.67	265.31	248.02	17.29	15.343		
3,600.00	3,572.64	3,609.46	3,600.39	13.53	12.77	169.27	-54.48	48.74	272.68	254.86	17.81	15.307		
3,700.00	3,670.97	3,709.18	3,699.41	13.97	13.15	168.93	-58.33	59.81	280.05	261.71	18.34	15.273		
3,800.00	3,769.29	3,808.89	3,798.43	14.41	13.54	168.61	-62.18	70.88	287.43	268.57	18.86	15.240		
3,900.00	3,867.62	3,908.61	3,897.46	14.86	13.92	168.30	-66.03	81.95	294.81	275.43	19.38	15.209		
4,000.00	3,965.94	4,008.32	3,996.48	15.30	14.31	168.01	-69.88	93.02	302.21	282.30	19.91	15.178		
4,100.00	4,064.27	4,108.04	4,095.50	15.75	14.69	167.73	-73.73	104.09	309.62	289.18	20.44	15.149		
4,200.00	4,162.60	4,207.75	4,194.53	16.20	15.08	167.46	-77.58	115.16	317.03	296.06	20.97	15.121		
4,300.00	4,260.92	4,307.46	4,293.55	16.65	15.47	167.21	-81.43	126.23	324.44	302.95	21.50	15.093		
4,400.00	4,359.25	4,407.18	4,392.57	17.09	15.86	166.97	-85.28	137.30	331.87	309.84	22.03	15.067		
4,500.00	4,457.57	4,506.89	4,491.60	17.55	16.25	166.74	-89.13	148.37	339.30	316.74	22.56	15.042		
4,600.00	4,555.90	4,606.61	4,590.62	18.00	16.64	166.52	-92.98	159.44	346.73	323.64	23.09	15.017		
4,700.00	4,654.22	4,706.32	4,689.64	18.45	17.03	166.31	-96.83	170.51	354.17	330.55	23.62	14.993		
4,800.00	4,752.55	4,806.04	4,788.67	18.90	17.42	166.10	-100.68	181.58	361.62	337.46	24.16	14.970		
4,900.00	4,850.87	4,905.75	4,887.69	19.35	17.81	165.91	-104.53	192.65	369.06	344.37	24.69	14.948		
5,000.00	4,949.20	5,005.47	4,986.71	19.81	18.21	165.72	-108.38	203.72	376.52	351.29	25.22	14.927		
5,100.00	5,047.52	5,105.18	5,085.74	20.26	18.60	165.54	-112.22	214.79	383.97	358.21	25.76	14.906		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,145.85	5,204.90	5,184.76	20.72	19.00	165.37	-116.07	225.86	391.43	365.14	26.30	14.886		
5,300.00	5,244.17	5,304.61	5,283.78	21.17	19.39	165.20	-119.92	236.93	398.90	372.06	26.83	14.866		
5,400.00	5,342.50	5,404.32	5,382.81	21.63	19.78	165.04	-123.77	248.00	406.36	378.99	27.37	14.847		
5,500.00	5,440.82	5,504.04	5,481.83	22.08	20.18	164.89	-127.62	259.07	413.83	385.92	27.91	14.829		
5,600.00	5,539.15	5,603.75	5,580.85	22.54	20.58	164.74	-131.47	270.14	421.30	392.86	28.44	14.811		
5,700.00	5,637.48	5,703.47	5,679.88	22.99	20.97	164.59	-135.32	281.20	428.78	399.80	28.98	14.794		
5,800.00	5,735.80	5,803.18	5,778.90	23.45	21.37	164.45	-139.17	292.27	436.26	406.74	29.52	14.777		
5,900.00	5,834.13	5,902.90	5,877.92	23.91	21.76	164.32	-143.02	303.34	443.74	413.68	30.06	14.761		
6,000.00	5,932.45	6,002.61	5,976.95	24.37	22.16	164.19	-146.87	314.41	451.22	420.62	30.60	14.745		
6,100.00	6,030.78	6,102.33	6,075.97	24.82	22.56	164.06	-150.72	325.48	458.71	427.56	31.14	14.730		
6,200.00	6,129.10	6,202.04	6,174.99	25.28	22.96	163.94	-154.57	336.55	466.19	434.51	31.68	14.715		
6,300.00	6,227.43	6,301.76	6,274.02	25.74	23.35	163.82	-158.42	347.62	473.68	441.46	32.22	14.700		
6,400.00	6,325.75	6,401.47	6,373.04	26.20	23.75	163.71	-162.27	358.69	481.17	448.41	32.76	14.686		
6,500.00	6,424.08	6,501.18	6,472.06	26.66	24.15	163.60	-166.12	369.76	488.67	455.36	33.30	14.673		
6,560.82	6,483.88	6,561.83	6,532.29	26.94	24.39	163.53	-168.46	376.49	493.22	459.59	33.63	14.664		
6,600.00	6,522.44	6,600.91	6,571.10	27.11	24.55	163.50	-169.97	380.83	495.97	462.12	33.85	14.654		
6,700.00	6,621.16	6,700.76	6,670.26	27.55	24.95	163.34	-173.82	391.92	501.23	466.84	34.39	14.576		
6,800.00	6,720.27	6,800.69	6,769.49	27.97	25.35	163.09	-177.68	403.01	504.00	469.07	34.93	14.429		
6,900.00	6,819.68	6,900.64	6,888.75	28.36	25.75	162.74	-181.54	414.11	504.27	468.80	35.47	14.217		
7,000.00	6,919.35	7,000.54	6,967.96	28.73	26.14	162.29	-185.40	425.20	502.07	466.06	36.01	13.943		
7,100.00	7,019.20	7,094.76	7,061.57	29.08	26.52	161.79	-188.93	435.34	497.73	461.20	36.53	13.625		
7,200.00	7,119.15	7,184.78	7,151.20	29.41	26.87	161.33	-191.66	443.21	492.73	455.71	37.02	13.310		
7,260.85	7,180.00	7,239.63	7,205.89	29.60	27.07	-104.58	-192.99	447.03	489.45	452.15	37.30	13.121		
7,300.00	7,219.15	7,274.94	7,241.14	29.72	27.20	-104.72	-193.71	449.09	487.44	449.96	37.48	13.005		
7,400.00	7,319.15	7,365.32	7,331.42	30.02	27.53	-104.99	-195.06	452.98	483.67	445.75	37.92	12.756		
7,500.00	7,419.15	7,455.84	7,421.92	30.32	27.84	-105.12	-195.71	454.84	481.86	443.53	38.33	12.571		
7,557.52	7,476.67	7,509.39	7,475.47	30.49	28.02	-105.14	-195.77	455.02	481.69	443.12	38.57	12.488		
7,600.00	7,519.15	7,551.87	7,517.95	30.62	28.15	-105.14	-195.77	455.02	481.69	442.92	38.77	12.424		
7,700.00	7,619.15	7,651.87	7,617.95	30.92	28.48	-105.14	-195.77	455.02	481.69	442.45	39.24	12.276		
7,800.00	7,719.15	7,751.87	7,717.95	31.23	28.81	-105.14	-195.77	455.02	481.69	441.98	39.71	12.130		
7,900.00	7,819.15	7,851.87	7,817.95	31.54	29.13	-105.14	-195.77	455.02	481.69	441.51	40.18	11.988		
8,000.00	7,919.15	7,951.87	7,917.95	31.84	29.46	-105.14	-195.77	455.02	481.69	441.04	40.65	11.849		
8,100.00	8,019.15	8,051.87	8,017.95	32.15	29.79	-105.14	-195.77	455.02	481.69	440.56	41.13	11.713		
8,200.00	8,119.15	8,151.87	8,117.95	32.46	30.12	-105.14	-195.77	455.02	481.69	440.09	41.60	11.579		
8,300.00	8,219.15	8,251.87	8,217.95	32.77	30.45	-105.14	-195.77	455.02	481.69	439.62	42.07	11.449		
8,400.00	8,319.15	8,387.42	8,352.55	33.08	30.88	-103.65	-182.59	456.34	478.39	435.71	42.68	11.210		
8,500.00	8,419.15	8,514.69	8,472.85	33.39	31.24	-98.91	-142.05	460.38	468.46	425.48	42.98	10.900		
8,600.00	8,519.15	8,620.31	8,563.86	33.71	31.48	-92.40	-89.01	465.68	457.03	413.78	43.25	10.567		
8,700.00	8,619.15	8,704.01	8,628.08	34.02	31.64	-85.64	-35.73	470.99	450.43	406.95	43.47	10.361		
8,720.72	8,639.87	8,718.91	8,638.67	34.09	31.66	-84.30	-25.29	472.04	450.19	406.71	43.48	10.354 SF		
8,800.00	8,719.15	8,769.36	8,672.40	34.33	31.74	-79.54	12.02	475.76	454.04	410.77	43.27	10.494		
8,900.00	8,819.15	8,820.57	8,703.14	34.65	31.81	-74.42	52.76	479.83	471.17	428.84	42.33	11.130		
9,000.00	8,919.15	8,861.18	8,724.84	34.97	31.87	-70.24	86.90	483.23	502.67	461.95	40.71	12.347		
9,100.00	9,019.15	8,900.00	8,743.26	35.28	31.92	-66.23	120.89	486.63	547.45	508.60	38.85	14.090		
9,200.00	9,119.15	8,920.58	8,752.08	35.60	31.94	-64.12	139.39	488.47	603.26	566.60	36.65	16.458		
9,300.00	9,219.15	8,950.00	8,763.51	35.92	31.99	-61.14	166.36	491.17	668.04	633.09	34.96	19.111		
9,400.00	9,319.15	8,950.00	8,763.51	36.24	31.99	-61.14	166.36	491.17	739.71	706.77	32.94	22.460		
9,500.00	9,419.15	8,977.16	8,772.82	36.56	32.03	-58.45	191.75	493.70	816.36	784.50	31.86	25.621		
9,600.00	9,519.15	9,000.00	8,779.70	36.88	32.08	-56.25	213.42	495.86	897.35	866.37	30.98	28.966		
9,700.00	9,619.15	9,000.00	8,779.70	37.20	32.08	-56.25	213.42	495.86	981.27	951.34	29.93	32.784		
9,800.00	9,719.15	9,000.00	8,779.70	37.53	32.08	-56.25	213.42	495.86	1,067.96	1,038.83	29.13	36.660		
9,900.00	9,819.15	9,022.02	8,785.51	37.85	32.12	-54.18	234.56	497.97	1,156.20	1,127.36	28.84	40.092		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,000.00	9,919.15	9,030.12	8,787.44	38.17	32.14	-53.44	242.38	498.75	1,246.23	1,217.76	28.47	43.773		
10,100.00	10,019.15	9,050.00	8,791.70	38.50	32.18	-51.65	261.70	500.68	1,337.73	1,309.38	28.36	47.176		
10,200.00	10,119.15	9,050.00	8,791.70	38.82	32.18	-51.65	261.70	500.68	1,429.96	1,401.87	28.09	50.899		
10,300.00	10,219.15	9,050.00	8,791.70	39.15	32.18	-51.65	261.70	500.68	1,523.17	1,495.25	27.92	54.556		
10,400.00	10,319.15	9,050.00	8,791.70	39.47	32.18	-51.65	261.70	500.68	1,617.18	1,589.36	27.82	58.130		
10,500.00	10,419.15	9,050.00	8,791.70	39.80	32.18	-51.65	261.70	500.68	1,711.88	1,684.10	27.78	61.627		
10,600.00	10,519.15	9,050.00	8,791.70	40.13	32.18	-51.65	261.70	500.68	1,807.15	1,779.36	27.79	65.034		
10,700.00	10,619.15	9,050.00	8,791.70	40.45	32.18	-51.65	261.70	500.68	1,902.90	1,875.06	27.84	68.359		
10,800.00	10,719.15	9,072.26	8,795.68	40.78	32.24	-49.72	283.49	502.86	1,998.52	1,970.46	28.07	71.208		
10,900.00	10,819.15	9,075.75	8,796.22	41.11	32.25	-49.43	286.92	503.20	2,094.87	2,066.68	28.19	74.308		
11,000.00	10,919.15	9,078.98	8,796.71	41.44	32.26	-49.15	290.10	503.52	2,191.53	2,163.19	28.34	77.332		
11,100.00	11,019.15	9,100.00	8,799.43	41.77	32.32	-47.42	310.84	505.59	2,288.80	2,260.19	28.61	80.010		
11,200.00	11,119.15	9,100.00	8,799.43	42.10	32.32	-47.42	310.84	505.59	2,385.85	2,357.09	28.77	82.934		
11,300.00	11,219.15	9,100.00	8,799.43	42.43	32.32	-47.42	310.84	505.59	2,483.14	2,454.19	28.95	85.778		
11,400.00	11,319.15	9,100.00	8,799.43	42.76	32.32	-47.42	310.84	505.59	2,580.64	2,551.49	29.15	88.544		
11,500.00	11,419.15	9,100.00	8,799.43	43.09	32.32	-47.42	310.84	505.59	2,678.32	2,648.96	29.36	91.232		
11,600.00	11,519.15	9,100.00	8,799.43	43.43	32.32	-47.42	310.84	505.59	2,776.17	2,746.59	29.58	93.850		
11,700.00	11,619.15	9,100.00	8,799.43	43.76	32.32	-47.42	310.84	505.59	2,874.16	2,844.35	29.82	96.398		
11,800.00	11,719.15	9,100.00	8,799.43	44.09	32.32	-47.42	310.84	505.59	2,972.29	2,942.23	30.06	98.874		
11,900.00	11,819.15	9,100.00	8,799.43	44.42	32.32	-47.42	310.84	505.59	3,070.54	3,040.22	30.32	101.280		
11,932.89	11,852.04	9,100.00	8,799.43	44.53	32.32	-47.42	310.84	505.59	3,102.88	3,072.48	30.40	102.055		
11,950.00	11,869.15	9,100.00	8,799.43	44.59	32.32	-38.26	310.84	505.59	3,119.67	3,089.22	30.45	102.457		
12,000.00	11,918.99	9,100.00	8,799.43	44.75	32.32	-27.15	310.84	505.59	3,168.25	3,137.68	30.57	103.632		
12,050.00	11,968.33	9,100.00	8,799.43	44.91	32.32	-20.84	310.84	505.59	3,215.84	3,185.15	30.69	104.799		
12,100.00	12,016.79	9,100.00	8,799.43	45.06	32.32	-16.88	310.84	505.59	3,262.12	3,231.33	30.79	105.949		
12,150.00	12,063.99	9,100.00	8,799.43	45.21	32.32	-14.20	310.84	505.59	3,306.82	3,275.93	30.88	107.076		
12,200.00	12,109.58	9,100.00	8,799.43	45.34	32.32	-12.30	310.84	505.59	3,349.65	3,318.68	30.97	108.172		
12,250.00	12,153.20	9,100.00	8,799.43	45.46	32.32	-10.89	310.84	505.59	3,390.37	3,359.33	31.04	109.224		
12,300.00	12,194.54	9,122.20	8,801.48	45.57	32.39	-9.65	332.83	507.78	3,428.25	3,397.09	31.16	110.010		
12,350.00	12,233.27	9,127.04	8,801.81	45.67	32.41	-8.81	337.65	508.26	3,463.84	3,432.61	31.23	110.912		
12,400.00	12,269.10	9,150.00	8,802.83	45.76	32.48	-8.05	360.46	510.54	3,496.94	3,465.60	31.34	111.589		
12,450.00	12,301.75	9,150.00	8,802.83	45.83	32.48	-7.55	360.46	510.54	3,526.56	3,495.19	31.37	112.405		
12,500.00	12,330.98	9,150.00	8,802.83	45.90	32.48	-7.15	360.46	510.54	3,553.09	3,521.68	31.41	113.103		
12,550.00	12,356.57	9,150.00	8,802.83	45.96	32.48	-6.83	360.46	510.54	3,576.40	3,544.94	31.46	113.682		
12,600.00	12,378.31	9,150.00	8,802.83	46.01	32.48	-6.57	360.46	510.54	3,596.38	3,564.88	31.50	114.181		
12,650.00	12,396.05	9,163.96	8,803.00	46.06	32.53	-6.33	374.35	511.93	3,612.78	3,581.22	31.56	114.465		
12,700.00	12,409.66	9,194.04	8,803.00	46.11	32.65	-6.10	404.30	514.76	3,625.49	3,593.84	31.65	114.563		
12,750.00	12,419.01	9,237.00	8,803.00	46.17	32.82	-5.90	447.12	518.25	3,634.08	3,602.33	31.75	114.467		
12,800.00	12,424.05	9,280.69	8,803.00	46.24	33.01	-5.76	490.70	521.15	3,638.46	3,606.61	31.84	114.257		
12,832.89	12,425.00	9,309.65	8,803.00	46.30	33.15	-5.70	519.63	522.70	3,639.03	3,607.11	31.91	114.030		
12,900.00	12,425.00	9,369.03	8,803.00	46.43	33.44	-5.64	578.97	524.98	3,638.45	3,606.39	32.06	113.490		
12,971.32	12,425.00	9,432.40	8,803.00	46.62	33.78	-5.60	642.33	526.04	3,638.17	3,605.94	32.23	112.865		
13,000.00	12,425.00	9,457.92	8,803.00	46.71	33.92	-5.60	667.85	526.08	3,638.14	3,605.83	32.31	112.607		
13,028.88	12,425.00	9,484.00	8,803.00	46.80	34.07	-5.59	693.92	525.88	3,638.13	3,605.74	32.39	112.326		
13,100.00	12,425.00	9,555.11	8,803.00	47.06	34.50	-5.59	765.03	525.09	3,638.13	3,605.52	32.61	111.576		
13,200.00	12,425.00	9,655.11	8,803.00	47.49	35.17	-5.59	865.02	523.99	3,638.13	3,605.19	32.94	110.435		
13,300.00	12,425.00	9,755.11	8,803.00	47.98	35.89	-5.59	965.02	522.88	3,638.13	3,604.81	33.32	109.203		
13,400.00	12,425.00	9,855.11	8,803.00	48.53	36.68	-5.59	1,065.01	521.78	3,638.13	3,604.41	33.72	107.891		
13,500.00	12,425.00	9,955.11	8,803.00	49.13	37.52	-5.59	1,165.01	520.67	3,638.13	3,603.97	34.16	106.509		
13,600.00	12,425.00	10,055.11	8,803.00	49.79	38.41	-5.59	1,265.00	519.57	3,638.13	3,603.50	34.63	105.066		
13,700.00	12,425.00	10,155.11	8,803.00	50.49	39.36	-5.59	1,364.99	518.46	3,638.13	3,603.00	35.13	103.574		
13,800.00	12,425.00	10,255.11	8,803.00	51.24	40.34	-5.59	1,464.99	517.36	3,638.13	3,602.48	35.65	102.041		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	12,425.00	10,355.11	8,803.00	52.03	41.37	-5.59	1,564.98	516.25	3,638.13	3,601.92	36.21	100.476		
14,000.00	12,425.00	10,455.11	8,803.00	52.87	42.44	-5.59	1,664.98	515.14	3,638.13	3,601.34	36.79	98.889		
14,100.00	12,425.00	10,555.11	8,803.00	53.74	43.55	-5.59	1,764.97	514.04	3,638.13	3,600.73	37.40	97.285		
14,200.00	12,425.00	10,655.11	8,803.00	54.65	44.68	-5.59	1,864.96	512.93	3,638.13	3,600.11	38.03	95.673		
14,300.00	12,425.00	10,755.11	8,803.00	55.59	45.85	-5.59	1,964.96	511.83	3,638.13	3,599.45	38.68	94.058		
14,400.00	12,425.00	10,855.11	8,803.00	56.57	47.05	-5.59	2,064.95	510.72	3,638.13	3,598.78	39.35	92.447		
14,500.00	12,425.00	10,955.11	8,803.00	57.57	48.28	-5.60	2,164.95	509.62	3,638.13	3,598.08	40.05	90.843		
14,600.00	12,425.00	11,055.11	8,803.00	58.61	49.53	-5.60	2,264.94	508.51	3,638.13	3,597.37	40.76	89.251		
14,700.00	12,425.00	11,155.11	8,803.00	59.67	50.80	-5.60	2,364.93	507.41	3,638.13	3,596.64	41.50	87.676		
14,800.00	12,425.00	11,255.11	8,803.00	60.76	52.09	-5.60	2,464.93	506.30	3,638.13	3,595.89	42.25	86.119		
14,900.00	12,425.00	11,355.11	8,803.00	61.88	53.40	-5.60	2,564.92	505.20	3,638.13	3,595.12	43.01	84.584		
15,000.00	12,425.00	11,455.11	8,803.00	63.02	54.74	-5.60	2,664.91	504.09	3,638.13	3,594.34	43.79	83.074		
15,100.00	12,425.00	11,555.11	8,803.00	64.18	56.09	-5.60	2,764.91	502.99	3,638.13	3,593.54	44.59	81.589		
15,200.00	12,425.00	11,655.11	8,803.00	65.36	57.45	-5.60	2,864.90	501.88	3,638.13	3,592.73	45.40	80.132		
15,300.00	12,425.00	11,755.11	8,803.00	66.56	58.83	-5.60	2,964.90	500.78	3,638.14	3,591.91	46.23	78.703		
15,400.00	12,425.00	11,855.11	8,803.00	67.78	60.22	-5.60	3,064.89	499.67	3,638.14	3,591.07	47.06	77.303		
15,500.00	12,425.00	11,955.11	8,803.00	69.02	61.63	-5.60	3,164.88	498.57	3,638.14	3,590.22	47.91	75.935		
15,600.00	12,425.00	12,055.11	8,803.00	70.28	63.05	-5.60	3,264.88	497.46	3,638.14	3,589.37	48.77	74.598		
15,700.00	12,425.00	12,155.11	8,803.00	71.55	64.48	-5.60	3,364.87	496.35	3,638.14	3,588.50	49.64	73.291		
15,800.00	12,425.00	12,255.11	8,803.00	72.84	65.91	-5.60	3,464.87	495.25	3,638.14	3,587.62	50.52	72.014		
15,900.00	12,425.00	12,355.11	8,803.00	74.14	67.36	-5.60	3,564.86	494.14	3,638.14	3,586.73	51.41	70.768		
16,000.00	12,425.00	12,455.11	8,803.00	75.46	68.82	-5.60	3,664.85	493.04	3,638.14	3,585.83	52.31	69.552		
16,100.00	12,425.00	12,555.11	8,803.00	76.79	70.29	-5.60	3,764.85	491.93	3,638.14	3,584.92	53.21	68.369		
16,200.00	12,425.00	12,655.11	8,803.00	78.13	71.76	-5.60	3,864.84	490.83	3,638.14	3,584.01	54.13	67.211		
16,300.00	12,425.00	12,755.11	8,803.00	79.48	73.25	-5.60	3,964.84	489.72	3,638.14	3,583.08	55.05	66.083		
16,400.00	12,425.00	12,855.11	8,803.00	80.85	74.74	-5.60	4,064.83	488.62	3,638.14	3,582.15	55.99	64.984		
16,500.00	12,425.00	12,955.11	8,803.00	82.22	76.23	-5.60	4,164.82	487.51	3,638.14	3,581.22	56.92	63.912		
16,600.00	12,425.00	13,055.11	8,803.00	83.61	77.74	-5.60	4,264.82	486.41	3,638.14	3,580.27	57.87	62.868		
16,700.00	12,425.00	13,155.11	8,803.00	85.00	79.25	-5.60	4,364.81	485.30	3,638.14	3,579.32	58.82	61.851		
16,800.00	12,425.00	13,255.11	8,803.00	86.40	80.76	-5.60	4,464.80	484.20	3,638.14	3,578.36	59.78	60.860		
16,900.00	12,425.00	13,355.11	8,803.00	87.82	82.28	-5.60	4,564.80	483.09	3,638.14	3,577.40	60.74	59.895		
17,000.00	12,425.00	13,455.11	8,803.00	89.24	83.81	-5.60	4,664.79	481.99	3,638.14	3,576.43	61.71	58.954		
17,100.00	12,425.00	13,555.11	8,803.00	90.66	85.34	-5.60	4,764.79	480.88	3,638.14	3,575.45	62.69	58.037		
17,200.00	12,425.00	13,655.11	8,803.00	92.10	86.87	-5.60	4,864.78	479.77	3,638.14	3,574.48	63.67	57.144		
17,300.00	12,425.00	13,755.11	8,803.00	93.54	88.41	-5.60	4,964.77	478.67	3,638.14	3,573.49	64.65	56.274		
17,400.00	12,425.00	13,855.11	8,803.00	94.99	89.95	-5.60	5,064.77	477.56	3,638.14	3,572.50	65.64	55.426		
17,500.00	12,425.00	13,955.11	8,803.00	96.45	91.50	-5.60	5,164.76	476.46	3,638.14	3,571.51	66.63	54.601		
17,600.00	12,425.00	14,055.11	8,803.00	97.91	93.05	-5.60	5,264.76	475.35	3,638.14	3,570.51	67.63	53.796		
17,700.00	12,425.00	14,155.11	8,803.00	99.38	94.60	-5.60	5,364.75	474.25	3,638.14	3,569.51	68.63	53.011		
17,800.00	12,425.00	14,255.11	8,803.00	100.86	96.16	-5.60	5,464.74	473.14	3,638.14	3,568.51	69.63	52.246		
17,900.00	12,425.00	14,355.11	8,803.00	102.34	97.72	-5.60	5,564.74	472.04	3,638.14	3,567.50	70.64	51.501		
18,000.00	12,425.00	14,455.11	8,803.00	103.82	99.28	-5.60	5,664.73	470.93	3,638.14	3,566.49	71.65	50.773		
18,100.00	12,425.00	14,555.11	8,803.00	105.31	100.85	-5.60	5,764.73	469.83	3,638.14	3,565.47	72.67	50.064		
18,200.00	12,425.00	14,655.11	8,803.00	106.80	102.42	-5.60	5,864.72	468.72	3,638.14	3,564.46	73.69	49.372		
18,300.00	12,425.00	14,755.11	8,803.00	108.30	103.99	-5.60	5,964.71	467.62	3,638.14	3,563.43	74.71	48.697		
18,400.00	12,425.00	14,855.11	8,803.00	109.81	105.56	-5.60	6,064.71	466.51	3,638.14	3,562.41	75.73	48.038		
18,500.00	12,425.00	14,955.11	8,803.00	111.32	107.14	-5.60	6,164.70	465.41	3,638.14	3,561.38	76.76	47.395		
18,600.00	12,425.00	15,055.11	8,803.00	112.83	108.72	-5.60	6,264.69	464.30	3,638.15	3,560.35	77.79	46.768		
18,700.00	12,425.00	15,155.11	8,803.00	114.34	110.30	-5.60	6,364.69	463.20	3,638.15	3,559.32	78.82	46.156		
18,800.00	12,425.00	15,255.11	8,803.00	115.86	111.88	-5.60	6,464.68	462.09	3,638.15	3,558.29	79.86	45.558		
18,900.00	12,425.00	15,355.11	8,803.00	117.39	113.46	-5.60	6,564.68	460.98	3,638.15	3,557.25	80.90	44.974		
19,000.00	12,425.00	15,455.11	8,803.00	118.91	115.05	-5.60	6,664.67	459.88	3,638.15	3,556.21	81.93	44.403		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
19,100.00	12,425.00	15,555.11	8,803.00	120.44	116.64	-5.60	6,764.66	458.77	3,638.15	3,555.17	82.98	43.846		
19,200.00	12,425.00	15,655.11	8,803.00	121.98	118.23	-5.60	6,864.66	457.67	3,638.15	3,554.13	84.02	43.301		
19,300.00	12,425.00	15,755.11	8,803.00	123.51	119.82	-5.60	6,964.65	456.56	3,638.15	3,553.08	85.07	42.768		
19,400.00	12,425.00	15,855.11	8,803.00	125.05	121.42	-5.60	7,064.65	455.46	3,638.15	3,552.03	86.11	42.248		
19,500.00	12,425.00	15,955.11	8,803.00	126.60	123.01	-5.60	7,164.64	454.35	3,638.15	3,550.98	87.16	41.739		
19,600.00	12,425.00	16,055.11	8,803.00	128.14	124.61	-5.60	7,264.63	453.25	3,638.15	3,549.93	88.22	41.241		
19,700.00	12,425.00	16,155.11	8,803.00	129.69	126.21	-5.60	7,364.63	452.14	3,638.15	3,548.88	89.27	40.755		
19,800.00	12,425.00	16,255.11	8,803.00	131.24	127.81	-5.60	7,464.62	451.04	3,638.15	3,547.82	90.33	40.278		
19,900.00	12,425.00	16,355.11	8,803.00	132.79	129.41	-5.60	7,564.62	449.93	3,638.15	3,546.77	91.38	39.812		
20,000.00	12,425.00	16,455.11	8,803.00	134.35	131.01	-5.60	7,664.61	448.83	3,638.15	3,545.71	92.44	39.356		
20,100.00	12,425.00	16,555.11	8,803.00	135.91	132.61	-5.60	7,764.60	447.72	3,638.15	3,544.65	93.50	38.910		
20,200.00	12,425.00	16,655.11	8,803.00	137.47	134.22	-5.60	7,864.60	446.62	3,638.15	3,543.59	94.56	38.473		
20,300.00	12,425.00	16,755.11	8,803.00	139.03	135.82	-5.60	7,964.59	445.51	3,638.15	3,542.52	95.63	38.045		
20,400.00	12,425.00	16,855.11	8,803.00	140.59	137.43	-5.60	8,064.58	444.41	3,638.15	3,541.46	96.69	37.627		
20,500.00	12,425.00	16,955.11	8,803.00	142.16	139.04	-5.60	8,164.58	443.30	3,638.15	3,540.39	97.76	37.216		
20,600.00	12,425.00	17,055.11	8,803.00	143.73	140.65	-5.60	8,264.57	442.19	3,638.15	3,539.33	98.82	36.814		
20,700.00	12,425.00	17,155.11	8,803.00	145.30	142.26	-5.60	8,364.57	441.09	3,638.15	3,538.26	99.89	36.420		
20,800.00	12,425.00	17,255.11	8,803.00	146.87	143.87	-5.60	8,464.56	439.98	3,638.15	3,537.19	100.96	36.034		
20,900.00	12,425.00	17,355.11	8,803.00	148.44	145.48	-5.60	8,564.55	438.88	3,638.15	3,536.12	102.03	35.656		
21,000.00	12,425.00	17,455.11	8,803.00	150.02	147.10	-5.60	8,664.55	437.77	3,638.15	3,535.05	103.11	35.285		
21,100.00	12,425.00	17,555.11	8,803.00	151.59	148.71	-5.60	8,764.54	436.67	3,638.15	3,533.97	104.18	34.922		
21,200.00	12,425.00	17,655.11	8,803.00	153.17	150.32	-5.60	8,864.54	435.56	3,638.15	3,532.90	105.25	34.565		
21,300.00	12,425.00	17,755.11	8,803.00	154.75	151.94	-5.60	8,964.53	434.46	3,638.15	3,531.82	106.33	34.216		
21,400.00	12,425.00	17,855.11	8,803.00	156.33	153.56	-5.60	9,064.52	433.35	3,638.15	3,530.75	107.40	33.873		
21,500.00	12,425.00	17,955.11	8,803.00	157.92	155.17	-5.60	9,164.52	432.25	3,638.15	3,529.67	108.48	33.537		
21,600.00	12,425.00	18,055.11	8,803.00	159.50	156.79	-5.60	9,264.51	431.14	3,638.15	3,528.59	109.56	33.207		
21,700.00	12,425.00	18,155.11	8,803.00	161.09	158.41	-5.60	9,364.51	430.04	3,638.15	3,527.51	110.64	32.883		
21,800.00	12,425.00	18,255.11	8,803.00	162.67	160.03	-5.60	9,464.50	428.93	3,638.15	3,526.43	111.72	32.565		
21,900.00	12,425.00	18,355.11	8,803.00	164.26	161.65	-5.60	9,564.49	427.83	3,638.16	3,525.35	112.80	32.252		
22,000.00	12,425.00	18,455.11	8,803.00	165.85	163.27	-5.60	9,664.49	426.72	3,638.16	3,524.27	113.88	31.946		
22,100.00	12,425.00	18,555.11	8,803.00	167.44	164.89	-5.60	9,764.48	425.61	3,638.16	3,523.19	114.97	31.645		
22,200.00	12,425.00	18,655.11	8,803.00	169.03	166.51	-5.60	9,864.48	424.51	3,638.16	3,522.11	116.05	31.350		
22,300.00	12,425.00	18,755.11	8,803.00	170.63	168.14	-5.60	9,964.47	423.40	3,638.16	3,521.02	117.13	31.060		
22,400.00	12,425.00	18,855.11	8,803.00	172.22	169.76	-5.60	10,064.46	422.30	3,638.16	3,519.94	118.22	30.775		
22,506.08	12,425.00	18,961.19	8,803.00	173.92	171.48	-5.60	10,170.54	421.13	3,638.16	3,518.79	119.37	30.478		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.56	-0.68	-69.98	69.99					
100.00	100.00	99.20	99.20	0.13	0.12	-90.56	-0.68	-69.98	69.98	69.81	0.18	395.998		
200.00	200.00	199.20	199.20	0.48	0.48	-90.56	-0.68	-69.98	69.98	69.30	0.68	102.560		
300.00	300.00	299.20	299.20	0.84	0.84	-90.56	-0.68	-69.98	69.98	68.79	1.19	58.843		
400.00	400.00	399.20	399.20	1.20	1.20	-90.56	-0.68	-69.98	69.98	68.29	1.70	41.257		
500.00	500.00	499.20	499.20	1.56	1.56	-90.56	-0.68	-69.98	69.98	67.78	2.20	31.764		
600.00	600.00	599.20	599.20	1.92	1.91	-90.56	-0.68	-69.98	69.98	67.27	2.71	25.822		
700.00	700.00	699.20	699.20	2.28	2.27	-90.56	-0.68	-69.98	69.98	66.77	3.22	21.753		
800.00	800.00	799.20	799.20	2.63	2.63	-90.56	-0.68	-69.98	69.98	66.26	3.72	18.792		
900.00	900.00	899.20	899.20	2.99	2.99	-90.56	-0.68	-69.98	69.98	65.75	4.23	16.540		
1,000.00	1,000.00	999.20	999.20	3.35	3.35	-90.56	-0.68	-69.98	69.98	65.25	4.74	14.771		
1,100.00	1,100.00	1,099.20	1,099.20	3.71	3.71	-90.56	-0.68	-69.98	69.98	64.74	5.24	13.343		
1,200.00	1,200.00	1,199.20	1,199.20	4.07	4.07	-90.56	-0.68	-69.98	69.98	64.23	5.75	12.167		
1,300.00	1,300.00	1,299.20	1,299.20	4.43	4.42	-90.56	-0.68	-69.98	69.98	63.72	6.26	11.181		
1,400.00	1,400.00	1,399.20	1,399.20	4.79	4.78	-90.56	-0.68	-69.98	69.98	63.22	6.77	10.344		
1,500.00	1,500.00	1,499.20	1,499.20	5.14	5.14	-90.56	-0.68	-69.98	69.98	62.71	7.27	9.623 CC, ES		
1,600.00	1,599.99	1,598.70	1,598.69	5.49	5.48	174.65	-1.35	-70.22	71.54	63.78	7.76	9.217		
1,700.00	1,699.91	1,697.81	1,697.76	5.84	5.81	172.67	-4.35	-71.32	76.65	68.42	8.23	9.312		
1,800.00	1,799.69	1,796.46	1,796.23	6.18	6.13	169.65	-9.74	-73.28	85.52	76.82	8.70	9.828		
1,900.00	1,899.27	1,894.38	1,893.81	6.53	6.46	166.22	-17.45	-76.08	98.35	89.18	9.17	10.722		
2,000.00	1,998.57	1,991.35	1,990.19	6.89	6.79	162.85	-27.40	-79.70	115.27	105.63	9.64	11.955		
2,100.00	2,097.54	2,087.43	2,085.49	7.26	7.13	160.19	-38.66	-84.28	136.25	126.14	10.11	13.476		
2,200.03	2,196.12	2,182.74	2,180.13	7.64	7.47	159.24	-48.30	-90.36	160.87	150.28	10.58	15.200		
2,300.00	2,294.41	2,277.19	2,273.94	8.03	7.81	159.45	-56.10	-97.93	187.70	176.64	11.05	16.982		
2,400.00	2,392.74	2,371.02	2,367.14	8.42	8.15	160.19	-62.10	-106.98	215.58	204.06	11.52	18.714		
2,500.00	2,491.06	2,464.10	2,459.53	8.83	8.50	161.26	-66.34	-117.45	244.56	232.58	11.98	20.409		
2,600.00	2,589.39	2,558.12	2,552.76	9.24	8.84	162.49	-69.17	-129.29	274.53	262.08	12.46	22.041		
2,700.00	2,687.72	2,653.33	2,647.15	9.65	9.20	163.52	-71.88	-141.42	304.70	291.77	12.94	23.549		
2,800.00	2,786.04	2,748.54	2,741.55	10.07	9.56	164.37	-74.59	-153.55	334.95	321.53	13.43	24.949		
2,900.00	2,884.37	2,843.75	2,835.94	10.49	9.92	165.08	-77.29	-165.68	365.26	351.34	13.91	26.252		
3,000.00	2,982.69	2,938.96	2,930.34	10.92	10.29	165.68	-80.00	-177.81	395.60	381.20	14.40	27.467		
3,100.00	3,081.02	3,034.16	3,024.73	11.35	10.65	166.19	-82.71	-189.93	425.98	411.09	14.89	28.601		
3,200.00	3,179.34	3,129.37	3,119.12	11.78	11.02	166.64	-85.41	-202.06	456.39	441.00	15.39	29.663		
3,300.00	3,277.67	3,224.58	3,213.52	12.21	11.39	167.03	-88.12	-214.19	486.82	470.94	15.88	30.657		
3,400.00	3,375.99	3,319.79	3,307.91	12.65	11.77	167.37	-90.83	-226.32	517.27	500.89	16.37	31.591		
3,500.00	3,474.32	3,415.00	3,402.31	13.09	12.14	167.68	-93.53	-238.45	547.73	530.86	16.87	32.468		
3,600.00	3,572.64	3,510.21	3,496.70	13.53	12.52	167.95	-96.24	-250.58	578.20	560.84	17.37	33.295		
3,700.00	3,670.97	3,605.42	3,591.10	13.97	12.89	168.20	-98.95	-262.70	608.69	590.83	17.86	34.075		
3,800.00	3,769.29	3,700.63	3,685.49	14.41	13.27	168.42	-101.65	-274.83	639.19	620.82	18.36	34.811		
3,900.00	3,867.62	3,795.83	3,779.88	14.86	13.65	168.62	-104.36	-286.96	669.69	650.83	18.86	35.508		
4,000.00	3,965.94	3,891.04	3,874.28	15.30	14.03	168.81	-107.07	-299.09	700.20	680.84	19.36	36.167		
4,100.00	4,064.27	3,986.25	3,968.67	15.75	14.41	168.98	-109.77	-311.22	730.72	710.86	19.86	36.793		
4,200.00	4,162.60	4,081.46	4,063.07	16.20	14.79	169.13	-112.48	-323.35	761.24	740.88	20.36	37.387		
4,300.00	4,260.92	4,176.67	4,157.46	16.65	15.18	169.28	-115.19	-335.47	791.76	770.90	20.86	37.952		
4,400.00	4,359.25	4,271.88	4,251.86	17.09	15.56	169.41	-117.89	-347.60	822.29	800.93	21.36	38.490		
4,500.00	4,457.57	4,367.09	4,346.25	17.55	15.94	169.53	-120.60	-359.73	852.83	830.96	21.87	39.002		
4,600.00	4,555.90	4,462.30	4,440.64	18.00	16.33	169.65	-123.31	-371.86	883.37	861.00	22.37	39.490		
4,700.00	4,654.22	4,557.50	4,535.04	18.45	16.71	169.75	-126.01	-383.99	913.91	891.03	22.87	39.957		
4,800.00	4,752.55	4,652.71	4,629.43	18.90	17.10	169.86	-128.72	-396.11	944.45	921.07	23.38	40.403		
4,900.00	4,850.87	4,747.92	4,723.83	19.35	17.49	169.95	-131.43	-408.24	974.99	951.11	23.88	40.829		
5,000.00	4,949.20	4,843.13	4,818.22	19.81	17.87	170.04	-134.13	-420.37	1,005.54	981.16	24.38	41.237		
5,100.00	5,047.52	4,938.34	4,912.62	20.26	18.26	170.12	-136.84	-432.50	1,036.09	1,011.20	24.89	41.629		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Colorado Fed Com - Colorado Fed Com 801H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,145.85	5,033.55	5,007.01	20.72	18.65	170.20	-139.55	-444.63	1,066.64	1,041.25	25.39	42.004		
5,300.00	5,244.17	5,128.76	5,101.40	21.17	19.03	170.27	-142.25	-456.76	1,097.20	1,071.30	25.90	42.364		
5,400.00	5,342.50	5,223.97	5,195.80	21.63	19.42	170.34	-144.96	-468.88	1,127.75	1,101.35	26.41	42.710		
5,500.00	5,440.82	5,319.17	5,290.19	22.08	19.81	170.41	-147.67	-481.01	1,158.31	1,131.40	26.91	43.042		
5,600.00	5,539.15	5,414.38	5,384.59	22.54	20.20	170.47	-150.38	-493.14	1,188.87	1,161.45	27.42	43.362		
5,700.00	5,637.48	5,509.59	5,478.98	22.99	20.59	170.53	-153.08	-505.27	1,219.43	1,191.50	27.92	43.670		
5,800.00	5,735.80	5,604.80	5,573.38	23.45	20.98	170.59	-155.79	-517.40	1,249.99	1,221.56	28.43	43.966		
5,900.00	5,834.13	5,700.01	5,667.77	23.91	21.37	170.64	-158.50	-529.53	1,280.55	1,251.61	28.94	44.252		
6,000.00	5,932.45	5,795.22	5,762.16	24.37	21.76	170.70	-161.20	-541.65	1,311.11	1,281.67	29.45	44.527		
6,100.00	6,030.78	5,890.43	5,856.56	24.82	22.15	170.75	-163.91	-553.78	1,341.67	1,311.72	29.95	44.793		
6,200.00	6,129.10	5,985.64	5,950.95	25.28	22.54	170.79	-166.62	-565.91	1,372.24	1,341.78	30.46	45.050		
6,300.00	6,227.43	6,080.84	6,045.35	25.74	22.93	170.84	-169.32	-578.04	1,402.80	1,371.84	30.97	45.298		
6,400.00	6,325.75	6,176.05	6,139.74	26.20	23.32	170.88	-172.03	-590.17	1,433.37	1,401.89	31.48	45.537		
6,500.00	6,424.08	6,271.26	6,234.14	26.66	23.71	170.92	-174.74	-602.29	1,463.94	1,431.95	31.99	45.769		
6,560.82	6,483.88	6,329.17	6,291.55	26.94	23.95	170.95	-176.38	-609.67	1,482.53	1,450.23	32.29	45.906		
6,600.00	6,522.44	6,366.53	6,328.59	27.11	24.10	170.99	-177.44	-614.43	1,494.31	1,461.82	32.49	45.988		
6,700.00	6,621.16	6,462.42	6,423.66	27.55	24.49	171.08	-180.17	-626.65	1,522.68	1,489.68	33.00	46.139		
6,800.00	6,720.27	6,559.01	6,519.42	27.97	24.89	171.15	-182.92	-638.95	1,548.55	1,515.04	33.51	46.212		
6,900.00	6,819.68	6,656.24	6,616.82	28.36	25.29	171.20	-185.68	-651.34	1,571.92	1,537.90	34.02	46.209		
7,000.00	6,919.35	6,754.04	6,712.78	28.73	25.69	171.23	-188.46	-663.79	1,592.76	1,558.24	34.52	46.135		
7,100.00	7,019.20	6,852.34	6,810.24	29.08	26.10	171.23	-191.26	-676.32	1,611.07	1,576.04	35.03	45.993		
7,200.00	7,119.15	6,951.08	6,908.14	29.41	26.50	171.22	-194.06	-688.89	1,626.83	1,591.30	35.53	45.786		
7,260.85	7,180.00	7,011.35	6,967.89	29.60	26.75	-94.45	-195.78	-696.57	1,635.17	1,599.33	35.83	45.632		
7,300.00	7,219.15	7,050.16	7,006.37	29.72	26.91	-94.47	-196.88	-701.52	1,640.23	1,604.20	36.03	45.529		
7,400.00	7,319.15	7,155.52	7,110.83	30.02	27.34	-94.54	-199.87	-714.91	1,653.14	1,616.58	36.55	45.227		
7,500.00	7,419.15	7,230.01	7,284.36	30.32	28.03	-94.63	-203.82	-732.63	1,663.45	1,626.04	37.40	44.472		
7,600.00	7,519.15	7,305.81	7,459.84	30.62	28.68	-94.68	-206.06	-742.65	1,669.23	1,631.04	38.19	43.709		
7,700.00	7,619.15	7,384.34	7,618.35	30.92	29.21	-94.69	-206.58	-744.98	1,670.57	1,631.72	38.85	42.999		
7,800.00	7,719.15	7,464.34	7,718.35	31.23	29.52	-94.69	-206.58	-744.98	1,670.57	1,631.25	39.32	42.483		
7,900.00	7,819.15	7,544.34	7,818.35	31.54	29.84	-94.69	-206.58	-744.98	1,670.57	1,630.78	39.80	41.978		
8,000.00	7,919.15	7,624.34	7,918.35	31.84	30.16	-94.69	-206.58	-744.98	1,670.57	1,630.30	40.27	41.484		
8,100.00	8,019.15	7,704.34	8,018.35	32.15	30.48	-94.69	-206.58	-744.98	1,670.57	1,629.83	40.75	41.000		
8,200.00	8,119.15	7,784.34	8,118.35	32.46	30.80	-94.69	-206.58	-744.98	1,670.57	1,629.35	41.22	40.527		
8,300.00	8,219.15	7,864.34	8,218.35	32.77	31.12	-94.69	-206.58	-744.98	1,670.57	1,628.88	41.70	40.064		
8,400.00	8,319.15	7,944.34	8,318.35	33.08	31.44	-94.69	-206.58	-744.98	1,670.57	1,628.40	42.17	39.611		
8,500.00	8,419.15	8,024.34	8,418.35	33.39	31.77	-94.69	-206.58	-744.98	1,670.57	1,627.92	42.65	39.167		
8,600.00	8,519.15	8,104.34	8,518.35	33.71	32.09	-94.69	-206.58	-744.98	1,670.57	1,627.44	43.13	38.733		
8,700.00	8,619.15	8,184.34	8,618.35	34.02	32.41	-94.69	-206.58	-744.98	1,670.57	1,626.96	43.61	38.307		
8,800.00	8,719.15	8,264.34	8,718.35	34.33	32.74	-94.69	-206.58	-744.98	1,670.57	1,626.48	44.09	37.891		
8,900.00	8,819.15	8,344.34	8,818.35	34.65	33.07	-94.69	-206.58	-744.98	1,670.57	1,626.00	44.57	37.482		
9,000.00	8,919.15	8,424.34	8,918.35	34.97	33.39	-94.69	-206.58	-744.98	1,670.57	1,625.52	45.05	37.082		
9,100.00	9,019.15	8,504.34	9,018.35	35.28	33.72	-94.69	-206.58	-744.98	1,670.57	1,625.04	45.53	36.690		
9,200.00	9,119.15	8,584.34	9,118.35	35.60	34.05	-94.69	-206.58	-744.98	1,670.57	1,624.56	46.01	36.306		
9,300.00	9,219.15	8,664.34	9,218.35	35.92	34.38	-94.69	-206.58	-744.98	1,670.57	1,624.08	46.50	35.929		
9,400.00	9,319.15	8,744.34	9,318.35	36.24	34.70	-94.69	-206.58	-744.98	1,670.57	1,623.59	46.98	35.560		
9,500.00	9,419.15	8,824.34	9,418.35	36.56	35.03	-94.69	-206.58	-744.98	1,670.57	1,623.11	47.46	35.197		
9,600.00	9,519.15	8,904.34	9,518.35	36.88	35.36	-94.69	-206.58	-744.98	1,670.57	1,622.63	47.95	34.842		
9,700.00	9,619.15	8,984.34	9,618.35	37.20	35.69	-94.69	-206.58	-744.98	1,670.57	1,622.14	48.43	34.494		
9,800.00	9,719.15	9,064.34	9,718.35	37.53	36.03	-94.69	-206.58	-744.98	1,670.57	1,621.66	48.92	34.152		
9,900.00	9,819.15	9,144.34	9,818.35	37.85	36.36	-94.69	-206.58	-744.98	1,670.57	1,621.17	49.40	33.816		
10,000.00	9,919.15	9,224.34	9,918.35	38.17	36.69	-94.69	-206.58	-744.98	1,670.57	1,620.69	49.89	33.487		
10,100.00	10,019.15	9,304.34	10,018.35	38.50	37.02	-94.69	-206.58	-744.98	1,670.57	1,620.20	50.37	33.164		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Colorado Fed Com - Colorado Fed Com 801H - OH - Plan #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)							
10,200.00	10,119.15	10,164.34	10,118.35	38.82	37.36	-94.69	-206.58	-744.98	1,670.57	1,619.71	50.86	32.846			
10,300.00	10,219.15	10,264.34	10,218.35	39.15	37.69	-94.69	-206.58	-744.98	1,670.57	1,619.23	51.35	32.535			
10,400.00	10,319.15	10,364.34	10,318.35	39.47	38.02	-94.69	-206.58	-744.98	1,670.57	1,618.74	51.83	32.229			
10,500.00	10,419.15	10,464.34	10,418.35	39.80	38.36	-94.69	-206.58	-744.98	1,670.57	1,618.25	52.32	31.928			
10,600.00	10,519.15	10,564.34	10,518.35	40.13	38.69	-94.69	-206.58	-744.98	1,670.57	1,617.76	52.81	31.633			
10,700.00	10,619.15	10,664.34	10,618.35	40.45	39.03	-94.69	-206.58	-744.98	1,670.57	1,617.27	53.30	31.343			
10,800.00	10,719.15	10,764.34	10,718.35	40.78	39.36	-94.69	-206.58	-744.98	1,670.57	1,616.78	53.79	31.058			
10,900.00	10,819.15	10,864.34	10,818.35	41.11	39.70	-94.69	-206.58	-744.98	1,670.57	1,616.30	54.28	30.779			
11,000.00	10,919.15	10,964.34	10,918.35	41.44	40.04	-94.69	-206.58	-744.98	1,670.57	1,615.81	54.77	30.503			
11,100.00	11,019.15	11,064.34	11,018.35	41.77	40.37	-94.69	-206.58	-744.98	1,670.57	1,615.32	55.26	30.233			
11,200.00	11,119.15	11,164.34	11,118.35	42.10	40.71	-94.69	-206.58	-744.98	1,670.57	1,614.83	55.75	29.967			
11,300.00	11,219.15	11,264.34	11,218.35	42.43	41.05	-94.69	-206.58	-744.98	1,670.57	1,614.34	56.24	29.706			
11,400.00	11,319.15	11,364.34	11,318.35	42.76	41.39	-94.69	-206.58	-744.98	1,670.57	1,613.84	56.73	29.449			
11,500.00	11,419.15	11,464.34	11,418.35	43.09	41.72	-94.69	-206.58	-744.98	1,670.57	1,613.35	57.22	29.196			
11,600.00	11,519.15	11,564.34	11,518.35	43.43	42.06	-94.69	-206.58	-744.98	1,670.57	1,612.86	57.71	28.948			
11,700.00	11,619.15	11,664.34	11,618.35	43.76	42.40	-94.69	-206.58	-744.98	1,670.57	1,612.37	58.20	28.703			
11,800.00	11,719.15	11,764.34	11,718.35	44.09	42.74	-94.69	-206.58	-744.98	1,670.57	1,611.88	58.69	28.463			
11,900.00	11,819.15	11,864.34	11,818.35	44.42	43.08	-94.69	-206.58	-744.98	1,670.57	1,611.39	59.19	28.226			
11,932.89	11,852.04	11,886.68	11,840.68	44.53	43.16	-94.68	-206.18	-745.08	1,670.67	1,611.36	59.32	28.165			
11,950.00	11,869.15	11,900.00	11,853.99	44.59	43.20	-91.25	-205.55	-745.24	1,670.82	1,611.43	59.39	28.133			
12,000.00	11,918.99	11,931.72	11,885.58	44.75	43.31	-91.15	-202.82	-745.94	1,671.63	1,612.05	59.58	28.059			
12,050.00	11,968.33	11,965.27	11,918.76	44.91	43.42	-91.03	-198.11	-747.14	1,673.02	1,613.26	59.76	27.996			
12,100.00	12,016.79	12,000.00	11,952.76	45.06	43.54	-90.89	-191.25	-748.89	1,674.97	1,615.03	59.94	27.944			
12,150.00	12,063.99	12,032.39	11,984.03	45.21	43.64	-90.73	-183.06	-750.97	1,677.49	1,617.39	60.10	27.910			
12,200.00	12,109.58	12,066.02	12,015.93	45.34	43.75	-90.54	-172.77	-753.60	1,680.55	1,620.29	60.26	27.886			
12,250.00	12,153.20	12,100.00	12,047.48	45.46	43.85	-90.34	-160.54	-756.71	1,684.15	1,623.72	60.42	27.873			
12,300.00	12,194.54	12,133.50	12,077.79	45.57	43.95	-90.11	-146.74	-760.23	1,688.25	1,627.68	60.57	27.872			
12,350.00	12,233.27	12,167.42	12,107.58	45.67	44.04	-89.87	-131.04	-764.24	1,692.85	1,632.13	60.72	27.880			
12,400.00	12,269.10	12,200.00	12,135.25	45.76	44.13	-89.60	-114.37	-768.48	1,697.93	1,637.07	60.86	27.898			
12,450.00	12,301.75	12,235.75	12,164.43	45.83	44.22	-89.35	-94.36	-773.58	1,703.46	1,642.44	61.02	27.918			
12,500.00	12,330.98	12,270.24	12,191.30	45.90	44.30	-89.07	-73.43	-778.92	1,709.42	1,648.26	61.17	27.947			
12,550.00	12,356.57	12,300.00	12,213.41	45.96	44.37	-88.72	-54.13	-783.84	1,715.80	1,654.50	61.30	27.989			
12,600.00	12,378.31	12,340.07	12,241.49	46.01	44.45	-88.48	-26.44	-790.90	1,722.54	1,661.06	61.48	28.019			
12,650.00	12,396.05	12,375.52	12,264.62	46.06	44.53	-88.18	-0.41	-797.53	1,729.65	1,668.01	61.64	28.060			
12,700.00	12,409.66	12,411.42	12,286.30	46.11	44.60	-87.87	27.31	-804.60	1,737.08	1,675.27	61.81	28.102			
12,750.00	12,419.01	12,450.00	12,307.55	46.17	44.68	-87.60	58.50	-812.55	1,744.81	1,682.82	61.99	28.149			
12,800.00	12,424.05	12,484.85	12,324.84	46.24	44.74	-87.28	87.81	-820.02	1,752.80	1,690.65	62.15	28.202			
12,832.89	12,425.00	12,509.58	12,335.99	46.30	44.79	-87.08	109.20	-825.47	1,758.19	1,695.92	62.27	28.235			
12,900.00	12,425.00	12,562.33	12,356.51	46.43	44.90	-87.76	156.28	-837.47	1,770.40	1,707.88	62.52	28.318			
12,971.32	12,425.00	12,622.26	12,374.30	46.62	45.04	-88.35	211.70	-851.60	1,785.66	1,722.86	62.80	28.432			
13,000.00	12,425.00	12,647.30	12,379.95	46.71	45.11	-88.55	235.35	-857.63	1,792.27	1,729.34	62.92	28.483			
13,100.00	12,425.00	12,737.64	12,391.34	47.06	45.37	-88.93	322.09	-879.74	1,815.63	1,752.25	63.37	28.650			
13,200.00	12,425.00	12,955.24	12,392.00	47.49	46.18	-88.98	534.37	-927.33	1,836.97	1,772.70	64.28	28.578			
13,300.00	12,425.00	13,179.62	12,392.00	47.98	47.25	-89.00	756.39	-959.25	1,849.31	1,783.90	65.41	28.272			
13,400.00	12,425.00	13,472.36	12,392.00	48.53	48.93	-89.00	1,048.55	-975.35	1,852.17	1,785.17	67.00	27.646			
13,500.00	12,425.00	13,572.36	12,392.00	49.13	49.57	-89.00	1,148.55	-976.45	1,852.17	1,784.26	67.91	27.274			
13,600.00	12,425.00	13,672.36	12,392.00	49.79	50.26	-89.00	1,248.54	-977.55	1,852.17	1,783.28	68.89	26.886			
13,700.00	12,425.00	13,772.36	12,392.00	50.49	50.99	-89.00	1,348.53	-978.65	1,852.17	1,782.23	69.93	26.485			
13,800.00	12,425.00	13,872.36	12,392.00	51.24	51.77	-89.00	1,448.53	-979.75	1,852.16	1,781.12	71.04	26.072			
13,900.00	12,425.00	13,972.36	12,392.00	52.03	52.58	-89.00	1,548.52	-980.85	1,852.16	1,779.96	72.20	25.652			
14,000.00	12,425.00	14,072.36	12,392.00	52.87	53.44	-89.00	1,648.52	-981.96	1,852.16	1,778.74	73.42	25.226			
14,100.00	12,425.00	14,172.36	12,392.00	53.74	54.33	-89.00	1,748.51	-983.06	1,852.16	1,777.46	74.70	24.796			

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	12,425.00	14,272.36	12,392.00	54.65	55.25	-89.00	1,848.50	-984.16	1,852.16	1,776.14	76.02	24.364		
14,300.00	12,425.00	14,372.36	12,392.00	55.59	56.21	-89.00	1,948.50	-985.26	1,852.16	1,774.76	77.39	23.932		
14,400.00	12,425.00	14,472.36	12,392.00	56.57	57.20	-89.00	2,048.49	-986.36	1,852.15	1,773.34	78.81	23.501		
14,500.00	12,425.00	14,572.36	12,392.00	57.57	58.23	-89.00	2,148.49	-987.46	1,852.15	1,771.88	80.27	23.074		
14,600.00	12,425.00	14,672.36	12,392.00	58.61	59.28	-89.00	2,248.48	-988.56	1,852.15	1,770.38	81.77	22.650		
14,700.00	12,425.00	14,772.36	12,392.00	59.67	60.35	-89.00	2,348.47	-989.66	1,852.15	1,768.84	83.31	22.231		
14,800.00	12,425.00	14,872.36	12,392.00	60.76	61.45	-89.00	2,448.47	-990.76	1,852.15	1,767.26	84.89	21.818		
14,900.00	12,425.00	14,972.36	12,392.00	61.88	62.58	-89.00	2,548.46	-991.86	1,852.14	1,765.64	86.50	21.412		
15,000.00	12,425.00	15,072.36	12,392.00	63.02	63.73	-89.00	2,648.46	-992.96	1,852.14	1,764.00	88.14	21.013		
15,100.00	12,425.00	15,172.36	12,392.00	64.18	64.90	-89.00	2,748.45	-994.06	1,852.14	1,762.32	89.82	20.621		
15,200.00	12,425.00	15,272.36	12,392.00	65.36	66.09	-89.00	2,848.44	-995.16	1,852.14	1,760.62	91.52	20.237		
15,300.00	12,425.00	15,372.36	12,392.00	66.56	67.31	-89.00	2,948.44	-996.26	1,852.14	1,758.89	93.25	19.862		
15,400.00	12,425.00	15,472.36	12,392.00	67.78	68.53	-89.00	3,048.43	-997.36	1,852.14	1,757.13	95.01	19.494		
15,500.00	12,425.00	15,572.36	12,392.00	69.02	69.78	-89.00	3,148.43	-998.46	1,852.13	1,755.34	96.79	19.136		
15,600.00	12,425.00	15,672.36	12,392.00	70.28	71.05	-89.00	3,248.42	-999.56	1,852.13	1,753.54	98.60	18.785		
15,700.00	12,425.00	15,772.36	12,392.00	71.55	72.33	-89.00	3,348.41	-1,000.66	1,852.13	1,751.71	100.42	18.443		
15,800.00	12,425.00	15,872.36	12,392.00	72.84	73.62	-89.00	3,448.41	-1,001.76	1,852.13	1,749.86	102.27	18.110		
15,900.00	12,425.00	15,972.36	12,392.00	74.14	74.93	-89.00	3,548.40	-1,002.86	1,852.13	1,747.99	104.14	17.786		
16,000.00	12,425.00	16,072.36	12,392.00	75.46	76.25	-89.00	3,648.40	-1,003.96	1,852.13	1,746.10	106.02	17.469		
16,100.00	12,425.00	16,172.36	12,392.00	76.79	77.59	-89.00	3,748.39	-1,005.06	1,852.12	1,744.20	107.93	17.161		
16,200.00	12,425.00	16,272.36	12,392.00	78.13	78.93	-89.00	3,848.38	-1,006.16	1,852.12	1,742.27	109.85	16.861		
16,300.00	12,425.00	16,372.36	12,392.00	79.48	80.29	-89.00	3,948.38	-1,007.26	1,852.12	1,740.34	111.78	16.569		
16,400.00	12,425.00	16,472.36	12,392.00	80.85	81.66	-89.00	4,048.37	-1,008.37	1,852.12	1,738.38	113.73	16.285		
16,500.00	12,425.00	16,572.36	12,392.00	82.22	83.04	-89.00	4,148.37	-1,009.47	1,852.12	1,736.42	115.70	16.008		
16,600.00	12,425.00	16,672.36	12,392.00	83.61	84.43	-89.00	4,248.36	-1,010.57	1,852.11	1,734.43	117.68	15.739		
16,700.00	12,425.00	16,772.36	12,392.00	85.00	85.83	-89.00	4,348.35	-1,011.67	1,852.11	1,732.44	119.67	15.477		
16,800.00	12,425.00	16,872.36	12,392.00	86.40	87.23	-89.00	4,448.35	-1,012.77	1,852.11	1,730.43	121.68	15.222		
16,900.00	12,425.00	16,972.36	12,392.00	87.82	88.65	-89.00	4,548.34	-1,013.87	1,852.11	1,728.42	123.69	14.973		
17,000.00	12,425.00	17,072.36	12,392.00	89.24	90.07	-89.00	4,648.34	-1,014.97	1,852.11	1,726.39	125.72	14.732		
17,100.00	12,425.00	17,172.36	12,392.00	90.66	91.51	-89.00	4,748.33	-1,016.07	1,852.11	1,724.35	127.76	14.497		
17,200.00	12,425.00	17,272.36	12,392.00	92.10	92.94	-89.00	4,848.32	-1,017.17	1,852.10	1,722.30	129.81	14.268		
17,300.00	12,425.00	17,372.36	12,392.00	93.54	94.39	-89.00	4,948.32	-1,018.27	1,852.10	1,720.24	131.87	14.045		
17,400.00	12,425.00	17,472.36	12,392.00	94.99	95.84	-89.00	5,048.31	-1,019.37	1,852.10	1,718.17	133.93	13.829		
17,500.00	12,425.00	17,572.36	12,392.00	96.45	97.30	-89.00	5,148.30	-1,020.47	1,852.10	1,716.09	136.01	13.618		
17,600.00	12,425.00	17,672.36	12,392.00	97.91	98.77	-89.00	5,248.30	-1,021.57	1,852.10	1,714.00	138.09	13.412		
17,700.00	12,425.00	17,772.36	12,392.00	99.38	100.24	-89.00	5,348.29	-1,022.67	1,852.10	1,711.91	140.19	13.212		
17,800.00	12,425.00	17,872.36	12,392.00	100.86	101.72	-89.00	5,448.29	-1,023.77	1,852.09	1,709.81	142.28	13.017		
17,900.00	12,425.00	17,972.36	12,392.00	102.34	103.20	-89.00	5,548.28	-1,024.87	1,852.09	1,707.70	144.39	12.827		
18,000.00	12,425.00	18,072.36	12,392.00	103.82	104.69	-89.00	5,648.27	-1,025.97	1,852.09	1,705.58	146.51	12.642		
18,100.00	12,425.00	18,172.36	12,392.00	105.31	106.18	-89.00	5,748.27	-1,027.07	1,852.09	1,703.46	148.63	12.461		
18,200.00	12,425.00	18,272.36	12,392.00	106.80	107.68	-89.00	5,848.26	-1,028.17	1,852.09	1,701.33	150.75	12.285		
18,300.00	12,425.00	18,372.36	12,392.00	108.30	109.18	-89.00	5,948.26	-1,029.27	1,852.08	1,699.20	152.89	12.114		
18,400.00	12,425.00	18,472.36	12,392.00	109.81	110.68	-89.00	6,048.25	-1,030.37	1,852.08	1,697.06	155.03	11.947		
18,500.00	12,425.00	18,572.36	12,392.00	111.32	112.19	-89.00	6,148.24	-1,031.47	1,852.08	1,694.91	157.17	11.784		
18,600.00	12,425.00	18,672.36	12,392.00	112.83	113.71	-89.00	6,248.24	-1,032.57	1,852.08	1,692.76	159.32	11.625		
18,700.00	12,425.00	18,772.36	12,392.00	114.34	115.22	-89.00	6,348.23	-1,033.68	1,852.08	1,690.60	161.48	11.469		
18,800.00	12,425.00	18,872.36	12,392.00	115.86	116.75	-89.00	6,448.23	-1,034.78	1,852.08	1,688.44	163.64	11.318		
18,900.00	12,425.00	18,972.36	12,392.00	117.39	118.27	-89.00	6,548.22	-1,035.88	1,852.07	1,686.27	165.81	11.170		
19,000.00	12,425.00	19,072.36	12,392.00	118.91	119.80	-89.00	6,648.21	-1,036.98	1,852.07	1,684.10	167.98	11.026		
19,100.00	12,425.00	19,172.36	12,392.00	120.44	121.33	-89.00	6,748.21	-1,038.08	1,852.07	1,681.92	170.15	10.885		
19,200.00	12,425.00	19,272.36	12,392.00	121.98	122.87	-89.00	6,848.20	-1,039.18	1,852.07	1,679.74	172.33	10.747		
19,300.00	12,425.00	19,372.36	12,392.00	123.51	124.40	-89.00	6,948.20	-1,040.28	1,852.07	1,677.55	174.51	10.613		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Colorado Fed Com - Colorado Fed Com 801H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,400.00	12,425.00	19,472.36	12,392.00	125.05	125.94	-89.00	7,048.19	-1,041.38	1,852.07	1,675.37	176.70	10.481		
19,500.00	12,425.00	19,572.36	12,392.00	126.60	127.49	-89.00	7,148.18	-1,042.48	1,852.06	1,673.17	178.89	10.353		
19,600.00	12,425.00	19,672.36	12,392.00	128.14	129.03	-89.00	7,248.18	-1,043.58	1,852.06	1,670.98	181.08	10.228		
19,700.00	12,425.00	19,772.36	12,392.00	129.69	130.58	-89.00	7,348.17	-1,044.68	1,852.06	1,668.78	183.28	10.105		
19,800.00	12,425.00	19,872.36	12,392.00	131.24	132.13	-89.00	7,448.17	-1,045.78	1,852.06	1,666.57	185.48	9.985		
19,900.00	12,425.00	19,972.36	12,392.00	132.79	133.69	-89.00	7,548.16	-1,046.88	1,852.06	1,664.37	187.69	9.868		
20,000.00	12,425.00	20,072.36	12,392.00	134.35	135.24	-89.00	7,648.15	-1,047.98	1,852.05	1,662.16	189.90	9.753		
20,100.00	12,425.00	20,172.36	12,392.00	135.91	136.80	-89.00	7,748.15	-1,049.08	1,852.05	1,659.94	192.11	9.641		
20,200.00	12,425.00	20,272.36	12,392.00	137.47	138.36	-89.00	7,848.14	-1,050.18	1,852.05	1,657.73	194.32	9.531		
20,300.00	12,425.00	20,372.36	12,392.00	139.03	139.93	-89.00	7,948.14	-1,051.28	1,852.05	1,655.51	196.54	9.423		
20,400.00	12,425.00	20,472.36	12,392.00	140.59	141.49	-89.00	8,048.13	-1,052.38	1,852.05	1,653.29	198.76	9.318		
20,500.00	12,425.00	20,572.36	12,392.00	142.16	143.06	-89.00	8,148.12	-1,053.48	1,852.05	1,651.06	200.98	9.215		
20,600.00	12,425.00	20,672.36	12,392.00	143.73	144.63	-89.00	8,248.12	-1,054.58	1,852.04	1,648.84	203.21	9.114		
20,700.00	12,425.00	20,772.36	12,392.00	145.30	146.20	-89.00	8,348.11	-1,055.68	1,852.04	1,646.61	205.43	9.015		
20,800.00	12,425.00	20,872.36	12,392.00	146.87	147.77	-89.00	8,448.11	-1,056.78	1,852.04	1,644.38	207.66	8.918		
20,900.00	12,425.00	20,972.36	12,392.00	148.44	149.35	-89.00	8,548.10	-1,057.88	1,852.04	1,642.14	209.90	8.824		
21,000.00	12,425.00	21,072.36	12,392.00	150.02	150.92	-89.00	8,648.09	-1,058.98	1,852.04	1,639.91	212.13	8.731		
21,100.00	12,425.00	21,172.36	12,392.00	151.59	152.50	-89.00	8,748.09	-1,060.09	1,852.04	1,637.67	214.37	8.640		
21,200.00	12,425.00	21,272.36	12,392.00	153.17	154.08	-89.00	8,848.08	-1,061.19	1,852.03	1,635.43	216.60	8.550		
21,300.00	12,425.00	21,372.36	12,392.00	154.75	155.66	-89.00	8,948.07	-1,062.29	1,852.03	1,633.19	218.85	8.463		
21,400.00	12,425.00	21,472.36	12,392.00	156.33	157.24	-89.00	9,048.07	-1,063.39	1,852.03	1,630.94	221.09	8.377		
21,500.00	12,425.00	21,572.36	12,392.00	157.92	158.82	-89.00	9,148.06	-1,064.49	1,852.03	1,628.69	223.33	8.293		
21,600.00	12,425.00	21,672.36	12,392.00	159.50	160.41	-89.00	9,248.06	-1,065.59	1,852.03	1,626.45	225.58	8.210		
21,700.00	12,425.00	21,772.36	12,392.00	161.09	162.00	-89.00	9,348.05	-1,066.69	1,852.02	1,624.20	227.83	8.129		
21,800.00	12,425.00	21,872.36	12,392.00	162.67	163.58	-89.00	9,448.04	-1,067.79	1,852.02	1,621.94	230.08	8.050		
21,900.00	12,425.00	21,972.36	12,392.00	164.26	165.17	-89.00	9,548.04	-1,068.89	1,852.02	1,619.69	232.33	7.971		
22,000.00	12,425.00	22,072.36	12,392.00	165.85	166.76	-89.00	9,648.03	-1,069.99	1,852.02	1,617.43	234.58	7.895		
22,100.00	12,425.00	22,172.36	12,392.00	167.44	168.36	-89.00	9,748.03	-1,071.09	1,852.02	1,615.18	236.84	7.820		
22,200.00	12,425.00	22,272.36	12,392.00	169.03	169.95	-89.00	9,848.02	-1,072.19	1,852.02	1,612.92	239.10	7.746		
22,300.00	12,425.00	22,372.36	12,392.00	170.63	171.54	-89.00	9,948.01	-1,073.29	1,852.01	1,610.66	241.36	7.673		
22,400.00	12,425.00	22,472.36	12,392.00	172.22	173.14	-89.00	10,048.01	-1,074.39	1,852.01	1,608.40	243.62	7.602		
22,506.08	12,425.00	22,578.44	12,392.00	173.92	174.83	-89.00	10,154.08	-1,075.56	1,852.01	1,606.00	246.02	7.528 SF		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	-90.56	-0.34	-34.99	34.99						
100.00	100.00	99.60	99.60	0.13	0.12	-90.56	-0.34	-34.99	34.99	34.81	0.18	197.604			
200.00	200.00	199.60	199.60	0.48	0.48	-90.56	-0.34	-34.99	34.99	34.31	0.68	51.204			
300.00	300.00	299.60	299.60	0.84	0.84	-90.56	-0.34	-34.99	34.99	33.80	1.19	29.397			
400.00	400.00	399.60	399.60	1.20	1.20	-90.56	-0.34	-34.99	34.99	33.29	1.70	20.616			
500.00	500.00	499.60	499.60	1.56	1.56	-90.56	-0.34	-34.99	34.99	32.79	2.20	15.875			
600.00	600.00	599.60	599.60	1.92	1.92	-90.56	-0.34	-34.99	34.99	32.28	2.71	12.906			
700.00	700.00	699.60	699.60	2.28	2.27	-90.56	-0.34	-34.99	34.99	31.77	3.22	10.873			
800.00	800.00	799.60	799.60	2.63	2.63	-90.56	-0.34	-34.99	34.99	31.27	3.73	9.393			
900.00	900.00	899.60	899.60	2.99	2.99	-90.56	-0.34	-34.99	34.99	30.76	4.23	8.268			
1,000.00	1,000.00	999.60	999.60	3.35	3.35	-90.56	-0.34	-34.99	34.99	30.25	4.74	7.384			
1,100.00	1,100.00	1,099.60	1,099.60	3.71	3.71	-90.56	-0.34	-34.99	34.99	29.75	5.25	6.670			
1,200.00	1,200.00	1,199.60	1,199.60	4.07	4.07	-90.56	-0.34	-34.99	34.99	29.24	5.75	6.082			
1,300.00	1,300.00	1,299.60	1,299.60	4.43	4.43	-90.56	-0.34	-34.99	34.99	28.73	6.26	5.590			
1,400.00	1,400.00	1,399.60	1,399.60	4.79	4.78	-90.56	-0.34	-34.99	34.99	28.22	6.77	5.171			
1,500.00	1,500.00	1,499.60	1,499.60	5.14	5.14	-90.56	-0.34	-34.99	34.99	27.72	7.27	4.811	CC, ES		
1,600.00	1,599.99	1,599.33	1,599.32	5.49	5.48	173.31	-1.59	-35.30	36.64	28.88	7.76	4.721			
1,700.00	1,699.91	1,698.83	1,698.74	5.84	5.81	168.79	-5.36	-36.23	41.76	33.53	8.23	5.074			
1,800.00	1,799.69	1,797.85	1,797.55	6.18	6.13	163.35	-11.61	-37.78	50.70	41.99	8.70	5.826			
1,900.00	1,899.27	1,896.17	1,895.46	6.53	6.46	158.34	-20.27	-39.92	63.68	54.51	9.17	6.943			
2,000.00	1,998.57	1,993.57	1,992.20	6.89	6.80	154.28	-31.25	-42.64	80.76	71.12	9.64	8.376			
2,100.00	2,097.54	2,090.75	2,088.46	7.26	7.14	151.33	-44.18	-45.84	101.61	91.49	10.12	10.041			
2,200.03	2,196.12	2,187.98	2,184.75	7.64	7.49	149.84	-57.32	-49.09	124.96	114.35	10.61	11.778			
2,300.00	2,294.41	2,284.90	2,280.72	8.03	7.84	149.20	-70.42	-52.33	149.43	138.32	11.10	13.458			
2,400.00	2,392.74	2,381.85	2,376.72	8.42	8.20	148.74	-83.52	-55.58	173.91	162.31	11.60	14.990			
2,500.00	2,491.06	2,478.80	2,472.73	8.83	8.57	148.40	-96.62	-58.82	198.41	186.30	12.11	16.389			
2,600.00	2,589.39	2,575.74	2,568.73	9.24	8.94	148.13	-109.72	-62.06	222.91	210.30	12.62	17.670			
2,700.00	2,687.72	2,672.69	2,664.73	9.65	9.31	147.91	-122.82	-65.30	247.42	234.29	13.13	18.846			
2,800.00	2,786.04	2,769.64	2,760.74	10.07	9.69	147.74	-135.92	-68.55	271.93	258.28	13.65	19.928			
2,900.00	2,884.37	2,866.58	2,856.74	10.49	10.07	147.59	-149.02	-71.79	296.44	282.27	14.17	20.927			
3,000.00	2,982.69	2,963.53	2,952.74	10.92	10.45	147.47	-162.12	-75.03	320.95	306.26	14.69	21.851			
3,100.00	3,081.02	3,065.64	3,053.99	11.35	10.84	147.48	-174.98	-78.21	344.85	329.61	15.24	22.622			
3,200.00	3,179.34	3,169.51	3,157.30	11.78	11.24	147.82	-185.39	-80.79	367.04	351.24	15.80	23.225			
3,300.00	3,277.67	3,274.07	3,261.56	12.21	11.63	148.45	-193.11	-82.70	387.51	371.15	16.36	23.690			
3,400.00	3,375.99	3,379.17	3,366.53	12.65	12.01	149.33	-198.08	-83.93	406.28	389.38	16.90	24.036			
3,500.00	3,474.32	3,484.65	3,471.98	13.09	12.38	150.44	-200.24	-84.47	423.44	406.00	17.44	24.282			
3,600.00	3,572.64	3,584.92	3,572.24	13.53	12.71	151.62	-200.34	-84.49	439.51	421.56	17.95	24.490			
3,700.00	3,670.97	3,683.24	3,670.57	13.97	13.04	152.71	-200.34	-84.49	455.68	437.24	18.45	24.704			
3,800.00	3,769.29	3,781.57	3,768.89	14.41	13.37	153.72	-200.34	-84.49	472.01	453.06	18.95	24.914			
3,900.00	3,867.62	3,879.89	3,867.22	14.86	13.70	154.66	-200.34	-84.49	488.47	469.02	19.45	25.120			
4,000.00	3,965.94	3,978.22	3,965.54	15.30	14.03	155.54	-200.34	-84.49	505.05	485.10	19.95	25.321			
4,100.00	4,064.27	4,076.54	4,063.87	15.75	14.36	156.37	-200.34	-84.49	521.74	501.29	20.45	25.518			
4,200.00	4,162.60	4,174.87	4,162.20	16.20	14.70	157.15	-200.34	-84.49	538.52	517.58	20.95	25.709			
4,300.00	4,260.92	4,273.19	4,260.52	16.65	15.03	157.87	-200.34	-84.49	555.40	533.96	21.45	25.896			
4,400.00	4,359.25	4,371.52	4,358.85	17.09	15.37	158.56	-200.34	-84.49	572.37	550.42	21.95	26.077			
4,500.00	4,457.57	4,469.84	4,457.17	17.55	15.70	159.21	-200.34	-84.49	589.40	566.95	22.45	26.253			
4,600.00	4,555.90	4,568.17	4,555.50	18.00	16.04	159.82	-200.34	-84.49	606.51	583.56	22.95	26.425			
4,700.00	4,654.22	4,666.50	4,653.82	18.45	16.38	160.39	-200.34	-84.49	623.68	600.23	23.45	26.591			
4,800.00	4,752.55	4,764.82	4,752.15	18.90	16.71	160.94	-200.34	-84.49	640.91	616.95	23.96	26.752			
4,900.00	4,850.87	4,863.15	4,850.47	19.35	17.05	161.46	-200.34	-84.49	658.19	633.73	24.46	26.909			
5,000.00	4,949.20	4,961.47	4,948.80	19.81	17.39	161.95	-200.34	-84.49	675.52	650.56	24.96	27.060			
5,100.00	5,047.52	5,059.80	5,047.12	20.26	17.73	162.41	-200.34	-84.49	692.90	667.43	25.47	27.208			

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Colorado Fed Com - Colorado Fed Com 802H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,145.85	5,158.12	5,145.45	20.72	18.07	162.86	-200.34	-84.49	710.32	684.35	25.97	27.351		
5,300.00	5,244.17	5,256.45	5,243.77	21.17	18.41	163.28	-200.34	-84.49	727.78	701.30	26.47	27.489		
5,400.00	5,342.50	5,354.77	5,342.10	21.63	18.75	163.68	-200.34	-84.49	745.27	718.29	26.98	27.624		
5,500.00	5,440.82	5,453.10	5,440.42	22.08	19.09	164.07	-200.34	-84.49	762.80	735.32	27.48	27.754		
5,600.00	5,539.15	5,551.42	5,538.75	22.54	19.43	164.43	-200.34	-84.49	780.36	752.37	27.99	27.881		
5,700.00	5,637.48	5,649.75	5,637.08	22.99	19.78	164.78	-200.34	-84.49	797.96	769.46	28.49	28.004		
5,800.00	5,735.80	5,748.07	5,735.40	23.45	20.12	165.12	-200.34	-84.49	815.57	786.57	29.00	28.123		
5,900.00	5,834.13	5,846.40	5,833.73	23.91	20.46	165.44	-200.34	-84.49	833.22	803.71	29.51	28.239		
6,000.00	5,932.45	5,944.72	5,932.05	24.37	20.80	165.75	-200.34	-84.49	850.89	820.88	30.01	28.351		
6,100.00	6,030.78	6,043.05	6,030.38	24.82	21.15	166.04	-200.34	-84.49	868.58	838.06	30.52	28.460		
6,200.00	6,129.10	6,141.38	6,128.70	25.28	21.49	166.33	-200.34	-84.49	886.30	855.27	31.03	28.566		
6,300.00	6,227.43	6,239.70	6,227.03	25.74	21.84	166.60	-200.34	-84.49	904.03	872.50	31.53	28.669		
6,400.00	6,325.75	6,338.03	6,325.35	26.20	22.18	166.86	-200.34	-84.49	921.78	889.74	32.04	28.769		
6,500.00	6,424.08	6,436.35	6,423.68	26.66	22.52	167.12	-200.34	-84.49	939.55	907.01	32.55	28.867		
6,560.82	6,483.88	6,496.16	6,483.48	26.94	22.73	167.26	-200.34	-84.49	950.37	917.52	32.86	28.925		
6,600.00	6,522.44	6,534.71	6,522.04	27.11	22.87	167.38	-200.34	-84.49	957.15	924.09	33.06	28.956		
6,700.00	6,621.16	6,633.43	6,620.76	27.55	23.22	167.63	-200.34	-84.49	972.71	939.14	33.56	28.982		
6,800.00	6,720.27	6,732.54	6,719.87	27.97	23.56	167.84	-200.34	-84.49	985.74	951.67	34.07	28.935		
6,900.00	6,819.68	6,831.96	6,819.28	28.36	23.91	168.00	-200.34	-84.49	996.24	961.67	34.57	28.818		
7,000.00	6,919.35	6,931.62	6,918.95	28.73	24.26	168.13	-200.34	-84.49	1,004.20	969.13	35.07	28.634		
7,100.00	7,019.20	7,031.47	7,018.80	29.08	24.61	168.21	-200.34	-84.49	1,009.60	974.03	35.57	28.385		
7,200.00	7,119.15	7,131.42	7,118.75	29.41	24.97	168.25	-200.34	-84.49	1,012.44	976.37	36.06	28.075		
7,260.85	7,180.00	7,192.27	7,179.60	29.60	25.18	-97.39	-200.34	-84.49	1,012.91	976.55	36.36	27.859		
7,300.00	7,219.15	7,231.42	7,218.75	29.72	25.32	-97.39	-200.34	-84.49	1,012.91	976.36	36.55	27.715		
7,400.00	7,319.15	7,331.42	7,318.75	30.02	25.67	-97.39	-200.34	-84.49	1,012.91	975.88	37.03	27.354		
7,500.00	7,419.15	7,431.42	7,418.75	30.32	26.02	-97.39	-200.34	-84.49	1,012.91	975.40	37.51	27.002		
7,600.00	7,519.15	7,531.42	7,518.75	30.62	26.38	-97.39	-200.34	-84.49	1,012.91	974.92	38.00	26.658		
7,700.00	7,619.15	7,631.42	7,618.75	30.92	26.73	-97.39	-200.34	-84.49	1,012.91	974.43	38.48	26.323		
7,800.00	7,719.15	7,731.42	7,718.75	31.23	27.08	-97.39	-200.34	-84.49	1,012.91	973.95	38.97	25.995		
7,900.00	7,819.15	7,831.42	7,818.75	31.54	27.43	-97.39	-200.34	-84.49	1,012.91	973.46	39.45	25.676		
8,000.00	7,919.15	7,931.42	7,918.75	31.84	27.79	-97.39	-200.34	-84.49	1,012.91	972.97	39.94	25.363		
8,100.00	8,019.15	8,031.42	8,018.75	32.15	28.14	-97.39	-200.34	-84.49	1,012.91	972.49	40.42	25.058		
8,200.00	8,119.15	8,131.42	8,118.75	32.46	28.49	-97.39	-200.34	-84.49	1,012.91	972.00	40.91	24.760		
8,300.00	8,219.15	8,231.42	8,218.75	32.77	28.85	-97.39	-200.34	-84.49	1,012.91	971.51	41.40	24.468		
8,400.00	8,319.15	8,331.42	8,318.75	33.08	29.20	-97.39	-200.34	-84.49	1,012.91	971.03	41.88	24.183		
8,500.00	8,419.15	8,431.42	8,418.75	33.39	29.55	-97.39	-200.34	-84.49	1,012.91	970.54	42.37	23.904		
8,600.00	8,519.15	8,531.42	8,518.75	33.71	29.91	-97.39	-200.34	-84.49	1,012.91	970.05	42.86	23.632		
8,700.00	8,619.15	8,631.42	8,618.75	34.02	30.26	-97.39	-200.34	-84.49	1,012.91	969.56	43.35	23.365		
8,800.00	8,719.15	8,731.42	8,718.75	34.33	30.62	-97.39	-200.34	-84.49	1,012.91	969.07	43.84	23.104		
8,900.00	8,819.15	8,831.42	8,818.75	34.65	30.97	-97.39	-200.34	-84.49	1,012.91	968.58	44.33	22.849		
9,000.00	8,919.15	8,931.42	8,918.75	34.97	31.33	-97.39	-200.34	-84.49	1,012.91	968.09	44.82	22.599		
9,100.00	9,019.15	9,031.42	9,018.75	35.28	31.68	-97.39	-200.34	-84.49	1,012.91	967.60	45.31	22.354		
9,200.00	9,119.15	9,131.42	9,118.75	35.60	32.03	-97.39	-200.34	-84.49	1,012.91	967.11	45.80	22.115		
9,300.00	9,219.15	9,231.42	9,218.75	35.92	32.39	-97.39	-200.34	-84.49	1,012.91	966.62	46.29	21.880		
9,400.00	9,319.15	9,331.42	9,318.75	36.24	32.74	-97.39	-200.34	-84.49	1,012.91	966.13	46.79	21.650		
9,500.00	9,419.15	9,431.42	9,418.75	36.56	33.10	-97.39	-200.34	-84.49	1,012.91	965.63	47.28	21.425		
9,600.00	9,519.15	9,531.42	9,518.75	36.88	33.45	-97.39	-200.34	-84.49	1,012.91	965.14	47.77	21.204		
9,700.00	9,619.15	9,631.42	9,618.75	37.20	33.81	-97.39	-200.34	-84.49	1,012.91	964.65	48.26	20.987		
9,800.00	9,719.15	9,731.42	9,718.75	37.53	34.16	-97.39	-200.34	-84.49	1,012.91	964.15	48.76	20.775		
9,900.00	9,819.15	9,831.42	9,818.75	37.85	34.52	-97.39	-200.34	-84.49	1,012.91	963.66	49.25	20.567		
10,000.00	9,919.15	9,931.42	9,918.75	38.17	34.87	-97.39	-200.34	-84.49	1,012.91	963.17	49.74	20.363		
10,100.00	10,019.15	10,031.42	10,018.75	38.50	35.23	-97.39	-200.34	-84.49	1,012.91	962.67	50.24	20.163		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Colorado Fed Com - Colorado Fed Com 802H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.00	10,119.15	10,131.42	10,118.75	38.82	35.58	-97.39	-200.34	-84.49	1,012.91	962.18	50.73	19.966		
10,300.00	10,219.15	10,231.42	10,218.75	39.15	35.94	-97.39	-200.34	-84.49	1,012.91	961.69	51.22	19.774		
10,400.00	10,319.15	10,331.42	10,318.75	39.47	36.29	-97.39	-200.34	-84.49	1,012.91	961.19	51.72	19.585		
10,500.00	10,419.15	10,431.42	10,418.75	39.80	36.65	-97.39	-200.34	-84.49	1,012.91	960.70	52.21	19.399		
10,600.00	10,519.15	10,531.42	10,518.75	40.13	37.01	-97.39	-200.34	-84.49	1,012.91	960.20	52.71	19.217		
10,700.00	10,619.15	10,631.42	10,618.75	40.45	37.36	-97.39	-200.34	-84.49	1,012.91	959.71	53.20	19.038		
10,800.00	10,719.15	10,731.42	10,718.75	40.78	37.72	-97.39	-200.34	-84.49	1,012.91	959.21	53.70	18.862		
10,900.00	10,819.15	10,831.42	10,818.75	41.11	38.07	-97.39	-200.34	-84.49	1,012.91	958.72	54.20	18.690		
11,000.00	10,919.15	10,931.42	10,918.75	41.44	38.43	-97.39	-200.34	-84.49	1,012.91	958.22	54.69	18.521		
11,100.00	11,019.15	11,031.42	11,018.75	41.77	38.78	-97.39	-200.34	-84.49	1,012.91	957.72	55.19	18.354		
11,200.00	11,119.15	11,131.42	11,118.75	42.10	39.14	-97.39	-200.34	-84.49	1,012.91	957.23	55.68	18.190		
11,300.00	11,219.15	11,231.42	11,218.75	42.43	39.50	-97.39	-200.34	-84.49	1,012.91	956.73	56.18	18.030		
11,400.00	11,319.15	11,331.42	11,318.75	42.76	39.85	-97.39	-200.34	-84.49	1,012.91	956.23	56.68	17.872		
11,500.00	11,419.15	11,431.42	11,418.75	43.09	40.21	-97.39	-200.34	-84.49	1,012.91	955.74	57.17	17.716		
11,600.00	11,519.15	11,531.42	11,518.75	43.43	40.56	-97.39	-200.34	-84.49	1,012.91	955.24	57.67	17.564		
11,700.00	11,619.15	11,631.42	11,618.75	43.76	40.92	-97.39	-200.34	-84.49	1,012.91	954.74	58.17	17.414		
11,800.00	11,719.15	11,731.42	11,718.75	44.09	41.28	-97.39	-200.34	-84.49	1,012.91	954.25	58.67	17.266		
11,900.00	11,819.15	11,831.42	11,818.75	44.42	41.63	-97.39	-200.34	-84.49	1,012.91	953.75	59.16	17.121		
11,932.89	11,852.04	11,864.31	11,851.64	44.53	41.75	-97.39	-200.34	-84.49	1,012.91	953.58	59.33	17.074		
11,950.00	11,869.15	11,881.42	11,868.75	44.59	41.81	-94.01	-200.34	-84.49	1,012.93	953.52	59.41	17.049		
12,000.00	11,918.99	11,931.27	11,918.59	44.75	41.99	-94.19	-200.34	-84.49	1,013.19	953.53	59.66	16.983		
12,050.00	11,968.33	12,002.30	11,989.51	44.91	42.24	-94.64	-197.04	-84.29	1,013.38	953.40	59.98	16.896		
12,100.00	12,016.79	12,079.52	12,065.49	45.06	42.49	-95.04	-183.64	-83.47	1,012.65	952.38	60.28	16.800		
12,150.00	12,063.99	12,157.39	12,139.58	45.21	42.74	-95.34	-159.93	-82.02	1,010.95	950.42	60.53	16.701		
12,200.00	12,109.58	12,235.19	12,209.72	45.34	42.96	-95.54	-126.45	-79.97	1,008.27	947.53	60.74	16.599		
12,250.00	12,153.20	12,312.24	12,274.07	45.46	43.16	-95.63	-84.26	-77.39	1,004.65	943.73	60.93	16.490		
12,300.00	12,194.54	12,387.90	12,331.19	45.57	43.35	-95.63	-34.82	-74.37	1,000.16	939.06	61.10	16.370		
12,350.00	12,233.27	12,461.66	12,380.12	45.67	43.53	-95.53	20.20	-71.00	994.87	933.60	61.27	16.237		
12,400.00	12,269.10	12,533.11	12,420.39	45.76	43.70	-95.36	79.06	-67.40	988.91	927.44	61.47	16.089		
12,450.00	12,301.75	12,602.03	12,452.00	45.83	43.86	-95.14	140.14	-63.67	982.39	920.71	61.68	15.927		
12,500.00	12,330.98	12,668.30	12,475.25	45.90	44.01	-94.86	202.04	-59.88	975.44	913.52	61.92	15.753		
12,550.00	12,356.57	12,731.90	12,490.70	45.96	44.16	-94.56	263.59	-56.11	968.19	906.02	62.17	15.573		
12,600.00	12,378.31	12,792.91	12,499.01	46.01	44.31	-94.22	323.89	-52.43	960.76	898.32	62.44	15.388		
12,650.00	12,396.05	12,840.71	12,501.00	46.06	44.42	-94.07	371.55	-49.51	953.31	890.63	62.67	15.211		
12,700.00	12,409.66	12,883.25	12,501.00	46.11	44.53	-94.06	414.02	-47.23	946.52	883.64	62.89	15.052		
12,750.00	12,419.01	12,920.04	12,501.00	46.17	44.64	-94.23	450.78	-45.77	940.82	877.74	63.08	14.916		
12,800.00	12,424.05	12,957.39	12,501.00	46.24	44.75	-94.49	488.12	-44.76	936.13	872.86	63.26	14.797		
12,832.89	12,425.00	12,982.13	12,501.00	46.30	44.82	-94.71	512.86	-44.37	933.58	870.20	63.38	14.730		
12,900.00	12,425.00	13,032.74	12,501.00	46.43	44.99	-94.71	563.47	-44.22	930.20	866.57	63.63	14.618		
12,971.32	12,425.00	13,099.37	12,501.00	46.62	45.24	-94.72	630.09	-44.91	929.27	865.29	63.98	14.524		
13,000.00	12,425.00	13,128.05	12,501.00	46.71	45.36	-94.72	658.77	-45.23	929.27	865.12	64.14	14.487		
13,100.00	12,425.00	13,228.05	12,501.00	47.06	45.80	-94.72	758.77	-46.33	929.27	864.51	64.75	14.351		
13,200.00	12,425.00	13,328.05	12,501.00	47.49	46.29	-94.72	858.76	-47.43	929.26	863.83	65.44	14.201		
13,300.00	12,425.00	13,428.05	12,501.00	47.98	46.83	-94.72	958.75	-48.53	929.26	863.06	66.20	14.038		
13,400.00	12,425.00	13,528.05	12,501.00	48.53	47.43	-94.72	1,058.75	-49.63	929.26	862.23	67.03	13.864		
13,500.00	12,425.00	13,628.05	12,501.00	49.13	48.07	-94.72	1,158.74	-50.73	929.25	861.32	67.93	13.679		
13,600.00	12,425.00	13,728.05	12,501.00	49.79	48.76	-94.72	1,258.74	-51.83	929.25	860.35	68.90	13.487		
13,700.00	12,425.00	13,828.05	12,501.00	50.49	49.50	-94.72	1,358.73	-52.93	929.25	859.32	69.93	13.288		
13,800.00	12,425.00	13,928.05	12,501.00	51.24	50.29	-94.72	1,458.72	-54.03	929.25	858.22	71.03	13.083		
13,900.00	12,425.00	14,028.05	12,501.00	52.03	51.11	-94.72	1,558.72	-55.13	929.24	857.06	72.18	12.873		
14,000.00	12,425.00	14,128.05	12,501.00	52.87	51.97	-94.72	1,658.71	-56.23	929.24	855.85	73.39	12.661		
14,100.00	12,425.00	14,228.05	12,501.00	53.74	52.87	-94.72	1,758.71	-57.33	929.24	854.58	74.66	12.447		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	12,425.00	14,328.05	12,501.00	54.65	53.81	-94.72	1,858.70	-58.42	929.24	853.27	75.97	12.232		
14,300.00	12,425.00	14,428.05	12,501.00	55.59	54.78	-94.72	1,958.69	-59.52	929.23	851.90	77.33	12.016		
14,400.00	12,425.00	14,528.05	12,501.00	56.57	55.78	-94.72	2,058.69	-60.62	929.23	850.49	78.74	11.801		
14,500.00	12,425.00	14,628.05	12,501.00	57.57	56.82	-94.72	2,158.68	-61.72	929.23	849.04	80.19	11.588		
14,600.00	12,425.00	14,728.05	12,501.00	58.61	57.88	-94.72	2,258.68	-62.82	929.23	847.54	81.68	11.376		
14,700.00	12,425.00	14,828.05	12,501.00	59.67	58.97	-94.72	2,358.67	-63.92	929.22	846.01	83.21	11.167		
14,800.00	12,425.00	14,928.05	12,501.00	60.76	60.08	-94.72	2,458.66	-65.02	929.22	844.44	84.78	10.961		
14,900.00	12,425.00	15,028.05	12,501.00	61.88	61.22	-94.72	2,558.66	-66.12	929.22	842.84	86.38	10.758		
15,000.00	12,425.00	15,128.05	12,501.00	63.02	62.38	-94.72	2,658.65	-67.22	929.21	841.20	88.01	10.558		
15,100.00	12,425.00	15,228.05	12,501.00	64.18	63.57	-94.72	2,758.65	-68.32	929.21	839.54	89.68	10.362		
15,200.00	12,425.00	15,328.05	12,501.00	65.36	64.77	-94.72	2,858.64	-69.42	929.21	837.84	91.37	10.170		
15,300.00	12,425.00	15,428.05	12,501.00	66.56	66.00	-94.72	2,958.63	-70.52	929.21	836.12	93.09	9.982		
15,400.00	12,425.00	15,528.05	12,501.00	67.78	67.24	-94.72	3,058.63	-71.62	929.20	834.37	94.84	9.798		
15,500.00	12,425.00	15,628.05	12,501.00	69.02	68.50	-94.72	3,158.62	-72.72	929.20	832.59	96.61	9.618		
15,600.00	12,425.00	15,728.05	12,501.00	70.28	69.78	-94.72	3,258.62	-73.82	929.20	830.80	98.40	9.443		
15,700.00	12,425.00	15,828.05	12,501.00	71.55	71.07	-94.72	3,358.61	-74.92	929.20	828.97	100.22	9.271		
15,800.00	12,425.00	15,928.05	12,501.00	72.84	72.37	-94.72	3,458.60	-76.02	929.19	827.13	102.06	9.104		
15,900.00	12,425.00	16,028.05	12,501.00	74.14	73.69	-94.72	3,558.60	-77.12	929.19	825.27	103.92	8.942		
16,000.00	12,425.00	16,128.05	12,501.00	75.46	75.03	-94.72	3,658.59	-78.22	929.19	823.39	105.79	8.783		
16,100.00	12,425.00	16,228.05	12,501.00	76.79	76.37	-94.72	3,758.59	-79.32	929.19	821.50	107.69	8.628		
16,200.00	12,425.00	16,328.05	12,501.00	78.13	77.73	-94.72	3,858.58	-80.42	929.18	819.58	109.60	8.478		
16,300.00	12,425.00	16,428.05	12,501.00	79.48	79.10	-94.72	3,958.57	-81.52	929.18	817.65	111.53	8.331		
16,400.00	12,425.00	16,528.05	12,501.00	80.85	80.48	-94.72	4,058.57	-82.61	929.18	815.71	113.47	8.189		
16,500.00	12,425.00	16,628.05	12,501.00	82.22	81.87	-94.72	4,158.56	-83.71	929.18	813.75	115.43	8.050		
16,600.00	12,425.00	16,728.05	12,501.00	83.61	83.27	-94.72	4,258.56	-84.81	929.17	811.78	117.40	7.915		
16,700.00	12,425.00	16,828.05	12,501.00	85.00	84.68	-94.72	4,358.55	-85.91	929.17	809.79	119.38	7.783		
16,800.00	12,425.00	16,928.05	12,501.00	86.40	86.10	-94.72	4,458.54	-87.01	929.17	807.79	121.38	7.655		
16,900.00	12,425.00	17,028.05	12,501.00	87.82	87.52	-94.72	4,558.54	-88.11	929.16	805.78	123.38	7.531		
17,000.00	12,425.00	17,128.05	12,501.00	89.24	88.96	-94.72	4,658.53	-89.21	929.16	803.76	125.40	7.409		
17,100.00	12,425.00	17,228.05	12,501.00	90.66	90.40	-94.72	4,758.53	-90.31	929.16	801.73	127.43	7.291		
17,200.00	12,425.00	17,328.05	12,501.00	92.10	91.85	-94.72	4,858.52	-91.41	929.16	799.69	129.47	7.177		
17,300.00	12,425.00	17,428.05	12,501.00	93.54	93.30	-94.72	4,958.51	-92.51	929.15	797.63	131.52	7.065		
17,400.00	12,425.00	17,528.05	12,501.00	94.99	94.76	-94.72	5,058.51	-93.61	929.15	795.57	133.58	6.956		
17,500.00	12,425.00	17,628.05	12,501.00	96.45	96.23	-94.72	5,158.50	-94.71	929.15	793.50	135.65	6.850		
17,600.00	12,425.00	17,728.05	12,501.00	97.91	97.71	-94.72	5,258.49	-95.81	929.15	791.43	137.72	6.747		
17,700.00	12,425.00	17,828.05	12,501.00	99.38	99.19	-94.72	5,358.49	-96.91	929.14	789.34	139.80	6.646		
17,800.00	12,425.00	17,928.05	12,501.00	100.86	100.67	-94.72	5,458.48	-98.01	929.14	787.24	141.90	6.548		
17,900.00	12,425.00	18,028.05	12,501.00	102.34	102.16	-94.72	5,558.48	-99.11	929.14	785.14	144.00	6.453		
18,000.00	12,425.00	18,128.05	12,501.00	103.82	103.66	-94.72	5,658.47	-100.21	929.14	783.03	146.10	6.360		
18,100.00	12,425.00	18,228.05	12,501.00	105.31	105.16	-94.72	5,758.46	-101.31	929.13	780.92	148.21	6.269		
18,200.00	12,425.00	18,328.05	12,501.00	106.80	106.66	-94.72	5,858.46	-102.41	929.13	778.80	150.33	6.181		
18,300.00	12,425.00	18,428.05	12,501.00	108.30	108.17	-94.72	5,958.45	-103.51	929.13	776.67	152.46	6.094		
18,400.00	12,425.00	18,528.05	12,501.00	109.81	109.68	-94.72	6,058.45	-104.61	929.13	774.54	154.59	6.010		
18,500.00	12,425.00	18,628.05	12,501.00	111.32	111.20	-94.72	6,158.44	-105.71	929.12	772.40	156.72	5.928		
18,600.00	12,425.00	18,728.05	12,501.00	112.83	112.72	-94.72	6,258.43	-106.80	929.12	770.25	158.87	5.848		
18,700.00	12,425.00	18,828.05	12,501.00	114.34	114.24	-94.72	6,358.43	-107.90	929.12	768.10	161.01	5.770		
18,800.00	12,425.00	18,928.05	12,501.00	115.86	115.77	-94.72	6,458.42	-109.00	929.11	765.95	163.17	5.694		
18,900.00	12,425.00	19,028.05	12,501.00	117.39	117.30	-94.72	6,558.42	-110.10	929.11	763.79	165.32	5.620		
19,000.00	12,425.00	19,128.05	12,501.00	118.91	118.84	-94.72	6,658.41	-111.20	929.11	761.63	167.48	5.547		
19,100.00	12,425.00	19,228.05	12,501.00	120.44	120.38	-94.72	6,758.40	-112.30	929.11	759.46	169.65	5.477		
19,200.00	12,425.00	19,328.05	12,501.00	121.98	121.92	-94.72	6,858.40	-113.40	929.10	757.28	171.82	5.407		
19,300.00	12,425.00	19,428.05	12,501.00	123.51	123.46	-94.72	6,958.39	-114.50	929.10	755.11	174.00	5.340		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Colorado Fed Com - Colorado Fed Com 802H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,400.00	12,425.00	19,528.05	12,501.00	125.05	125.01	-94.72	7,058.39	-115.60	929.10	752.93	176.17	5.274		
19,500.00	12,425.00	19,628.05	12,501.00	126.60	126.56	-94.72	7,158.38	-116.70	929.10	750.74	178.36	5.209		
19,600.00	12,425.00	19,728.05	12,501.00	128.14	128.11	-94.72	7,258.37	-117.80	929.09	748.55	180.54	5.146		
19,700.00	12,425.00	19,828.05	12,501.00	129.69	129.66	-94.72	7,358.37	-118.90	929.09	746.36	182.73	5.084		
19,800.00	12,425.00	19,928.05	12,501.00	131.24	131.22	-94.72	7,458.36	-120.00	929.09	744.16	184.92	5.024		
19,900.00	12,425.00	20,028.05	12,501.00	132.79	132.78	-94.72	7,558.36	-121.10	929.09	741.97	187.12	4.965		
20,000.00	12,425.00	20,128.05	12,501.00	134.35	134.34	-94.72	7,658.35	-122.20	929.08	739.76	189.32	4.907		
20,100.00	12,425.00	20,228.05	12,501.00	135.91	135.90	-94.72	7,758.34	-123.30	929.08	737.56	191.52	4.851		
20,200.00	12,425.00	20,328.05	12,501.00	137.47	137.47	-94.72	7,858.34	-124.40	929.08	735.35	193.73	4.796		
20,300.00	12,425.00	20,428.05	12,501.00	139.03	139.04	-94.72	7,958.33	-125.50	929.08	733.14	195.94	4.742		
20,400.00	12,425.00	20,528.05	12,501.00	140.59	140.61	-94.72	8,058.33	-126.60	929.07	730.93	198.15	4.689		
20,500.00	12,425.00	20,628.05	12,501.00	142.16	142.18	-94.72	8,158.32	-127.70	929.07	728.71	200.36	4.637		
20,600.00	12,425.00	20,728.05	12,501.00	143.73	143.75	-94.72	8,258.31	-128.80	929.07	726.49	202.58	4.586		
20,700.00	12,425.00	20,828.05	12,501.00	145.30	145.33	-94.72	8,358.31	-129.90	929.06	724.27	204.80	4.537		
20,800.00	12,425.00	20,928.05	12,501.00	146.87	146.90	-94.72	8,458.30	-131.00	929.06	722.05	207.02	4.488		
20,900.00	12,425.00	21,028.05	12,501.00	148.44	148.48	-94.72	8,558.30	-132.09	929.06	719.82	209.24	4.440		
21,000.00	12,425.00	21,128.05	12,501.00	150.02	150.06	-94.72	8,658.29	-133.19	929.06	717.59	211.47	4.393		
21,100.00	12,425.00	21,228.05	12,501.00	151.59	151.65	-94.72	8,758.28	-134.29	929.05	715.36	213.69	4.348		
21,200.00	12,425.00	21,328.05	12,501.00	153.17	153.23	-94.72	8,858.28	-135.39	929.05	713.13	215.92	4.303		
21,300.00	12,425.00	21,428.05	12,501.00	154.75	154.81	-94.72	8,958.27	-136.49	929.05	710.89	218.16	4.259		
21,400.00	12,425.00	21,528.05	12,501.00	156.33	156.40	-94.72	9,058.27	-137.59	929.05	708.66	220.39	4.215		
21,500.00	12,425.00	21,628.05	12,501.00	157.92	157.99	-94.72	9,158.26	-138.69	929.04	706.42	222.63	4.173		
21,600.00	12,425.00	21,728.05	12,501.00	159.50	159.58	-94.72	9,258.25	-139.79	929.04	704.18	224.86	4.132		
21,700.00	12,425.00	21,828.05	12,501.00	161.09	161.17	-94.72	9,358.25	-140.89	929.04	701.94	227.10	4.091		
21,800.00	12,425.00	21,928.05	12,501.00	162.67	162.76	-94.72	9,458.24	-141.99	929.04	699.69	229.34	4.051		
21,900.00	12,425.00	22,028.05	12,501.00	164.26	164.35	-94.72	9,558.24	-143.09	929.03	697.45	231.59	4.012		
22,000.00	12,425.00	22,128.05	12,501.00	165.85	165.94	-94.72	9,658.23	-144.19	929.03	695.20	233.83	3.973		
22,100.00	12,425.00	22,228.05	12,501.00	167.44	167.54	-94.72	9,758.22	-145.29	929.03	692.95	236.08	3.935		
22,200.00	12,425.00	22,328.05	12,501.00	169.03	169.14	-94.72	9,858.22	-146.39	929.03	690.70	238.33	3.898		
22,300.00	12,425.00	22,428.05	12,501.00	170.63	170.73	-94.72	9,958.21	-147.49	929.02	688.45	240.58	3.862		
22,400.00	12,425.00	22,528.05	12,501.00	172.22	172.33	-94.72	10,058.20	-148.59	929.02	686.19	242.83	3.826		
22,506.08	12,425.00	22,634.13	12,501.00	173.92	174.03	-94.72	10,164.28	-149.75	929.02	683.80	245.22	3.789 SF		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 60-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	19.82	1,731.26	623.94	1,840.31					
100.00	100.00	85.90	85.90	0.13	0.83	19.82	1,731.26	623.94	1,840.26	1,839.42	0.84	2,188.118		
200.00	200.00	188.03	188.02	0.48	2.80	19.82	1,731.45	623.94	1,840.44	1,837.60	2.84	648.345		
300.00	300.00	289.30	289.29	0.84	4.72	19.82	1,731.37	623.94	1,840.37	1,835.58	4.80	383.739		
400.00	400.00	385.92	385.90	1.20	6.44	19.82	1,731.26	623.94	1,840.26	1,833.71	6.55	281.010		
500.00	500.00	488.90	488.88	1.56	8.34	19.82	1,731.28	623.94	1,840.28	1,831.80	8.49	216.873		
518.86	518.86	504.78	504.76	1.63	8.64	19.82	1,731.26	623.94	1,840.26	1,831.47	8.79	209.406		
600.00	600.00	589.24	589.21	1.92	10.24	19.82	1,731.46	623.94	1,840.45	1,830.03	10.42	176.628		
700.00	700.00	685.93	685.90	2.28	12.11	19.82	1,731.26	623.94	1,840.26	1,827.94	12.32	149.355		
800.00	800.00	787.59	787.56	2.63	14.10	19.82	1,731.51	623.94	1,840.50	1,826.15	14.35	128.292		
900.00	900.00	885.95	885.90	2.99	16.03	19.82	1,731.26	623.94	1,840.26	1,823.95	16.31	112.822		
1,000.00	1,000.00	1,002.57	1,002.51	3.35	18.54	19.82	1,731.20	623.94	1,840.28	1,821.44	18.84	97.664		
1,010.44	1,010.44	1,016.83	1,016.77	3.39	18.85	19.82	1,731.05	623.94	1,840.18	1,821.03	19.15	96.087		
1,100.00	1,100.00	1,085.99	1,085.90	3.71	20.35	19.82	1,731.26	623.94	1,840.26	1,819.57	20.69	88.958		
1,200.00	1,200.00	1,186.01	1,185.90	4.07	22.51	19.82	1,731.26	623.94	1,840.26	1,817.38	22.87	80.449		
1,300.00	1,300.00	1,312.60	1,312.48	4.43	25.18	19.82	1,730.92	623.94	1,840.13	1,814.57	25.57	71.976		
1,328.44	1,328.44	1,314.47	1,314.34	4.53	25.14	19.82	1,731.26	623.94	1,840.26	1,814.71	25.55	72.029		
1,400.00	1,400.00	1,386.03	1,385.90	4.79	26.44	19.82	1,731.26	623.94	1,840.26	1,813.38	26.87	68.477		
1,500.00	1,500.00	1,487.68	1,487.55	5.14	28.17	19.82	1,731.32	623.94	1,840.32	1,811.68	28.64	64.268		
1,600.00	1,599.99	1,589.11	1,588.98	5.49	29.93	-74.58	1,731.27	623.94	1,839.92	1,809.49	30.43	60.455		
1,700.00	1,699.91	1,688.32	1,688.18	5.84	31.75	-74.71	1,731.40	623.94	1,839.00	1,806.71	32.29	56.958		
1,800.00	1,799.69	1,785.73	1,785.59	6.18	33.52	-74.93	1,731.26	623.94	1,837.15	1,803.07	34.08	53.904		
1,900.00	1,899.27	1,890.28	1,890.14	6.53	35.38	-75.26	1,731.37	623.94	1,834.90	1,798.93	35.97	51.007		
2,000.00	1,998.57	1,984.61	1,984.47	6.89	37.17	-75.64	1,731.26	623.94	1,831.81	1,794.01	37.80	48.456		
2,100.00	2,097.54	2,085.75	2,085.61	7.26	39.16	-76.13	1,731.33	623.94	1,828.35	1,788.52	39.83	45.908		
2,200.03	2,196.12	2,182.18	2,182.02	7.64	41.12	-76.69	1,731.26	623.94	1,824.24	1,782.41	41.82	43.616		
2,300.00	2,294.41	2,280.50	2,280.31	8.03	43.16	-77.24	1,731.26	623.94	1,820.06	1,776.16	43.90	41.461		
2,400.00	2,392.74	2,385.43	2,385.24	8.42	45.22	-77.83	1,731.42	623.94	1,816.23	1,770.23	46.00	39.483		
2,500.00	2,491.06	2,477.16	2,476.96	8.83	47.15	-78.34	1,731.26	623.94	1,812.23	1,764.26	47.97	37.782		
2,600.00	2,589.39	2,584.38	2,584.18	9.24	49.47	-78.95	1,731.38	623.94	1,808.71	1,758.39	50.32	35.941		
2,700.00	2,687.72	2,673.67	2,673.62	9.65	51.56	-79.46	1,731.26	623.94	1,805.10	1,752.64	52.45	34.415		
2,800.00	2,786.04	2,796.27	2,796.00	10.07	54.48	-80.15	1,731.21	623.94	1,801.91	1,746.51	55.40	32.526		
2,900.00	2,884.37	2,882.83	2,882.52	10.49	56.63	-80.65	1,731.53	623.94	1,798.98	1,741.39	57.59	31.237		
3,000.00	2,982.69	2,989.32	2,988.96	10.92	59.28	-81.26	1,731.40	623.94	1,795.99	1,735.71	60.27	29.798		
3,100.00	3,081.02	3,067.74	3,067.35	11.35	61.35	-81.72	1,731.69	623.94	1,793.39	1,731.00	62.39	28.745		
3,200.00	3,179.34	3,165.70	3,165.24	11.78	64.07	-82.28	1,731.26	623.94	1,790.39	1,725.24	65.14	27.483		
3,300.00	3,277.67	3,264.10	3,263.57	12.21	67.11	-82.85	1,731.26	623.94	1,787.99	1,719.78	68.21	26.212		
3,400.00	3,375.99	3,362.47	3,361.89	12.65	70.28	-83.42	1,731.26	623.94	1,785.77	1,714.37	71.41	25.008		
3,500.00	3,474.32	3,461.01	3,460.22	13.09	73.56	-83.99	1,731.26	623.94	1,783.74	1,709.02	74.72	23.873		
3,600.00	3,572.64	3,559.41	3,558.54	13.53	76.85	-84.56	1,731.26	623.94	1,781.89	1,703.87	78.03	22.836		
3,700.00	3,670.97	3,657.85	3,656.87	13.97	79.97	-85.14	1,731.26	623.94	1,780.23	1,699.05	81.18	21.928		
3,800.00	3,769.29	3,756.23	3,755.19	14.41	82.96	-85.71	1,731.26	623.94	1,778.75	1,694.55	84.20	21.125		
3,900.00	3,867.62	3,854.61	3,853.52	14.86	85.81	-86.29	1,731.26	623.94	1,777.46	1,690.37	87.08	20.411		
4,000.00	3,965.94	3,973.21	3,972.05	15.30	89.07	-86.98	1,731.30	623.94	1,776.51	1,686.14	90.37	19.658		
4,100.00	4,064.27	4,051.39	4,050.17	15.75	91.32	-87.44	1,731.26	623.94	1,775.43	1,682.77	92.67	19.160		
4,200.00	4,162.60	4,149.76	4,148.50	16.20	94.00	-88.02	1,731.26	623.94	1,774.70	1,679.32	95.38	18.606		
4,300.00	4,260.92	4,253.73	4,252.44	16.65	96.09	-88.63	1,731.28	623.94	1,774.18	1,676.66	97.52	18.193		
4,400.00	4,359.25	4,352.06	4,350.76	17.09	98.02	-89.21	1,731.33	623.94	1,773.88	1,674.38	99.50	17.828		
4,500.00	4,457.57	4,444.78	4,443.47	17.55	100.12	-89.76	1,731.26	623.94	1,773.62	1,671.97	101.65	17.449		
4,544.31	4,501.14	4,488.36	4,487.04	17.75	101.30	-90.01	1,731.26	623.94	1,773.60	1,670.76	102.84	17.246		
4,600.00	4,555.90	4,555.00	4,553.58	18.00	103.66	-90.40	1,731.26	623.94	1,773.67	1,668.46	105.21	16.858		
4,609.67	4,565.40	4,555.00	4,553.58	18.04	103.66	-90.40	1,731.26	623.94	1,773.65	1,668.43	105.22	16.857		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 60-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.00	4,654.22	4,641.72	4,640.12	18.45	107.72	-90.91	1,731.26	623.94	1,773.84	1,664.55	109.29	16.231		
4,800.00	4,752.55	4,740.43	4,738.45	18.90	112.90	-91.49	1,731.26	623.94	1,774.23	1,659.76	114.47	15.500		
4,900.00	4,850.87	4,839.05	4,836.77	19.35	117.83	-92.07	1,731.26	623.94	1,774.80	1,655.39	119.41	14.863		
5,000.00	4,949.20	4,937.57	4,935.10	19.81	121.95	-92.65	1,731.26	623.94	1,775.56	1,652.02	123.54	14.372		
5,100.00	5,047.52	5,035.96	5,033.42	20.26	124.81	-93.23	1,731.26	623.94	1,776.51	1,650.08	126.44	14.050		
5,200.00	5,145.85	5,148.85	5,146.29	20.72	127.46	-93.89	1,731.38	623.94	1,777.84	1,648.71	129.13	13.768		
5,300.00	5,244.17	5,232.65	5,230.07	21.17	129.24	-94.38	1,731.26	623.94	1,778.97	1,648.01	130.96	13.584		
5,400.00	5,342.50	5,330.98	5,328.40	21.63	131.09	-94.95	1,731.26	623.94	1,780.48	1,647.62	132.86	13.401		
5,500.00	5,440.82	5,438.48	5,435.89	22.08	133.11	-95.58	1,731.40	623.94	1,782.34	1,647.42	134.92	13.210		
5,600.00	5,539.15	5,527.66	5,525.05	22.54	134.79	-96.10	1,731.26	623.94	1,784.05	1,647.40	136.65	13.055		
5,700.00	5,637.48	5,635.91	5,633.30	22.99	136.83	-96.73	1,731.34	623.94	1,786.22	1,647.49	138.74	12.875		
5,800.00	5,735.80	5,724.32	5,721.70	23.45	138.58	-97.24	1,731.26	623.94	1,788.36	1,647.82	140.54	12.725		
5,900.00	5,834.13	5,835.64	5,833.02	23.91	140.80	-97.89	1,731.19	623.94	1,790.76	1,647.97	142.80	12.541		
6,000.00	5,932.45	5,920.99	5,918.35	24.37	142.60	-98.38	1,731.26	623.94	1,793.39	1,648.74	144.65	12.398		
6,100.00	6,030.78	6,032.53	6,029.88	24.82	144.94	-99.02	1,731.40	623.94	1,796.37	1,649.34	147.03	12.217		
6,200.00	6,129.10	6,117.68	6,115.00	25.28	146.74	-99.51	1,731.26	623.94	1,799.15	1,650.28	148.88	12.085		
6,300.00	6,227.43	6,216.03	6,213.33	25.74	148.80	-100.07	1,731.26	623.94	1,802.30	1,651.31	150.99	11.936		
6,400.00	6,325.75	6,315.42	6,312.72	26.20	150.90	-100.64	1,731.73	623.94	1,806.10	1,652.97	153.13	11.795		
6,500.00	6,424.08	6,430.29	6,427.58	26.66	153.31	-101.29	1,731.13	623.94	1,809.10	1,653.52	155.58	11.628		
6,560.82	6,483.88	6,472.51	6,469.78	26.94	154.20	-101.53	1,731.26	623.94	1,811.36	1,654.85	156.51	11.574		
6,600.00	6,522.44	6,511.29	6,508.56	27.11	155.02	-101.76	1,731.66	623.94	1,813.18	1,655.84	157.34	11.524		
6,700.00	6,621.16	6,609.82	6,607.06	27.55	157.09	-102.30	1,731.26	623.94	1,816.14	1,656.69	159.45	11.390		
6,800.00	6,720.27	6,708.92	6,706.17	27.97	159.07	-102.74	1,731.26	623.94	1,819.05	1,657.58	161.48	11.265		
6,900.00	6,819.68	6,821.36	6,818.59	28.36	161.33	-103.14	1,731.42	623.94	1,821.68	1,657.92	163.76	11.124		
7,000.00	6,919.35	6,908.04	6,905.25	28.73	163.00	-103.38	1,731.26	623.94	1,823.34	1,657.87	165.47	11.019		
7,100.00	7,019.20	7,011.40	7,008.61	29.08	164.96	-103.57	1,731.64	623.94	1,825.01	1,657.55	167.47	10.898		
7,200.00	7,119.15	7,107.86	7,105.05	29.41	166.80	-103.67	1,731.26	623.94	1,825.31	1,655.98	169.33	10.780		
7,260.85	7,180.00	7,168.71	7,165.90	29.60	167.96	-9.33	1,731.26	623.94	1,825.42	1,654.92	170.51	10.706		
7,300.00	7,219.15	7,207.86	7,205.05	29.72	168.71	-9.33	1,731.26	623.94	1,825.42	1,654.16	171.26	10.659		
7,400.00	7,319.15	7,319.87	7,317.05	30.02	170.84	-9.33	1,731.24	623.94	1,825.45	1,652.04	173.42	10.526		
7,409.84	7,328.99	7,330.92	7,328.11	30.05	171.05	-9.33	1,731.17	623.94	1,825.38	1,651.76	173.63	10.513		
7,500.00	7,419.15	7,407.88	7,405.05	30.32	172.52	-9.33	1,731.26	623.94	1,825.42	1,650.30	175.13	10.423		
7,600.00	7,519.15	7,517.81	7,514.98	30.62	174.62	-9.33	1,731.36	623.94	1,825.55	1,648.31	177.25	10.300		
7,626.98	7,546.12	7,548.08	7,545.25	30.70	175.20	-9.33	1,731.16	623.94	1,825.38	1,647.55	177.83	10.265		
7,700.00	7,619.15	7,607.90	7,605.05	30.92	176.35	-9.33	1,731.26	623.94	1,825.42	1,646.43	179.00	10.198		
7,800.00	7,719.15	7,719.51	7,716.66	31.23	178.48	-9.33	1,731.27	623.94	1,825.47	1,644.32	181.15	10.077		
7,813.03	7,732.18	7,734.43	7,731.58	31.27	178.77	-9.33	1,731.16	623.94	1,825.38	1,643.94	181.44	10.061		
7,900.00	7,819.15	7,807.91	7,805.05	31.54	180.17	-9.33	1,731.26	623.94	1,825.42	1,642.55	182.87	9.982		
8,000.00	7,919.15	7,917.37	7,914.51	31.84	182.27	-9.33	1,731.38	623.94	1,825.57	1,640.58	184.99	9.868		
8,030.86	7,950.01	7,951.99	7,949.12	31.94	182.93	-9.33	1,731.17	623.94	1,825.38	1,639.72	185.66	9.832		
8,100.00	8,019.15	8,007.93	8,005.05	32.15	184.07	-9.33	1,731.26	623.94	1,825.42	1,638.60	186.82	9.771		
8,200.00	8,119.15	8,114.28	8,111.39	32.46	186.22	-9.33	1,731.52	623.94	1,825.70	1,636.71	188.99	9.660		
8,300.00	8,219.15	8,207.96	8,205.05	32.77	188.19	-9.33	1,731.26	623.94	1,825.42	1,634.44	190.99	9.558		
8,400.00	8,319.15	8,311.40	8,308.49	33.08	190.48	-9.33	1,731.75	623.94	1,825.91	1,632.61	193.30	9.446		
8,500.00	8,419.15	8,408.00	8,405.05	33.39	192.62	-9.33	1,731.26	623.94	1,825.42	1,629.97	195.46	9.339		
8,600.00	8,519.15	8,508.00	8,505.05	33.71	194.74	-9.33	1,731.26	623.94	1,825.42	1,627.83	197.60	9.238		
8,700.00	8,619.15	8,623.45	8,620.48	34.02	197.18	-9.33	1,731.51	623.94	1,825.74	1,625.69	200.06	9.126		
8,800.00	8,719.15	8,708.04	8,705.05	34.33	198.86	-9.33	1,731.26	623.94	1,825.42	1,623.66	201.77	9.047		
8,900.00	8,819.15	8,815.27	8,812.27	34.65	200.92	-9.33	1,731.47	623.94	1,825.65	1,621.79	203.85	8.956		
9,000.00	8,919.15	8,908.06	8,905.05	34.97	202.70	-9.33	1,731.26	623.94	1,825.42	1,619.76	205.66	8.876		
9,100.00	9,019.15	9,008.07	9,005.05	35.28	204.63	-9.33	1,731.26	623.94	1,825.42	1,617.81	207.61	8.792		
9,200.00	9,119.15	9,108.07	9,105.05	35.60	206.67	-9.33	1,731.26	623.94	1,825.42	1,615.75	209.67	8.706		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 60-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,300.00	9,219.15	9,216.30	9,213.27	35.92	208.96	-9.33	1,731.42	623.94	1,825.61	1,613.62	211.99	8.612		
9,400.00	9,319.15	9,308.11	9,305.05	36.24	210.97	-9.33	1,731.26	623.94	1,825.42	1,611.40	214.02	8.529		
9,500.00	9,419.15	9,408.14	9,405.05	36.56	213.17	-9.33	1,731.26	623.94	1,825.42	1,609.17	216.25	8.441		
9,600.00	9,519.15	9,508.14	9,505.05	36.88	215.20	-9.33	1,731.26	623.94	1,825.42	1,607.12	218.30	8.362		
9,700.00	9,619.15	9,617.74	9,614.65	37.20	217.41	-9.33	1,731.62	623.94	1,825.81	1,605.27	220.54	8.279		
9,800.00	9,719.15	9,708.17	9,705.05	37.53	219.24	-9.33	1,731.26	623.94	1,825.42	1,603.03	222.40	8.208		
9,900.00	9,819.15	9,817.31	9,814.19	37.85	221.45	-9.33	1,731.36	623.94	1,825.55	1,600.93	224.63	8.127		
9,969.28	9,888.43	9,877.47	9,874.33	38.07	222.71	-9.33	1,731.26	623.94	1,825.42	1,599.52	225.91	8.080		
10,000.00	9,919.15	9,908.19	9,905.05	38.17	223.36	-9.33	1,731.26	623.94	1,825.42	1,598.86	226.57	8.057		
10,100.00	10,019.15	10,019.00	10,015.85	38.50	225.71	-9.33	1,731.51	623.94	1,825.70	1,596.77	228.94	7.975		
10,200.00	10,119.15	10,108.22	10,105.05	38.82	227.55	-9.33	1,731.26	623.94	1,825.42	1,594.62	230.81	7.909		
10,300.00	10,219.15	10,224.88	10,221.70	39.15	229.91	-9.33	1,731.21	623.94	1,825.46	1,592.27	233.18	7.828		
10,309.90	10,229.05	10,237.08	10,233.90	39.18	230.16	-9.33	1,731.09	623.94	1,825.36	1,591.93	233.43	7.820		
10,400.00	10,319.15	10,308.24	10,305.05	39.47	231.43	-9.33	1,731.26	623.94	1,825.42	1,590.68	234.74	7.776		
10,500.00	10,419.15	10,415.86	10,412.67	39.80	233.41	-9.33	1,731.48	623.94	1,825.66	1,588.92	236.74	7.712		
10,600.00	10,519.15	10,508.25	10,505.05	40.13	235.20	-9.33	1,731.26	623.94	1,825.42	1,586.86	238.57	7.652		
10,700.00	10,619.15	10,616.83	10,613.62	40.45	237.40	-9.33	1,731.22	623.94	1,825.41	1,584.63	240.79	7.581		
10,731.88	10,651.03	10,640.16	10,636.93	40.56	238.02	-9.33	1,731.26	623.94	1,825.42	1,584.01	241.42	7.561		
10,800.00	10,719.15	10,708.30	10,705.05	40.78	239.75	-9.33	1,731.26	623.94	1,825.42	1,582.26	243.16	7.507		
10,900.00	10,819.15	10,808.35	10,805.05	41.11	242.45	-9.33	1,731.26	623.94	1,825.42	1,579.54	245.88	7.424		
11,000.00	10,919.15	10,908.39	10,905.05	41.44	245.15	-9.33	1,731.26	623.94	1,825.42	1,576.83	248.60	7.343		
11,100.00	11,019.15	11,008.43	11,005.05	41.77	247.76	-9.33	1,731.26	623.94	1,825.42	1,574.20	251.23	7.266		
11,200.00	11,119.15	11,108.43	11,105.05	42.10	250.27	-9.33	1,731.26	623.94	1,825.42	1,571.67	253.75	7.194		
11,300.00	11,219.15	11,228.69	11,225.27	42.43	253.28	-9.33	1,731.80	623.94	1,826.07	1,569.30	256.77	7.112		
11,400.00	11,319.15	11,308.53	11,305.05	42.76	255.33	-9.33	1,731.26	623.94	1,825.42	1,566.57	258.85	7.052		
11,500.00	11,419.15	11,408.58	11,405.05	43.09	258.08	-9.33	1,731.26	623.94	1,825.42	1,563.80	261.62	6.977		
11,600.00	11,519.15	11,508.63	11,505.05	43.43	260.98	-9.33	1,731.26	623.94	1,825.42	1,560.89	264.54	6.900		
11,700.00	11,619.15	11,608.69	11,605.05	43.76	263.80	-9.33	1,731.26	623.94	1,825.42	1,558.04	267.38	6.827		
11,800.00	11,719.15	11,708.74	11,705.05	44.09	266.79	-9.33	1,731.26	623.94	1,825.42	1,555.05	270.38	6.751		
11,900.00	11,819.15	11,840.57	11,836.79	44.42	271.09	-9.33	1,731.50	623.94	1,825.94	1,551.30	274.64	6.649		
11,932.89	11,852.04	11,841.72	11,837.94	44.53	271.13	-9.33	1,731.26	623.94	1,825.42	1,550.69	274.74	6.644		
11,950.00	11,869.15	11,858.91	11,855.05	44.59	271.70	-5.94	1,731.26	623.94	1,825.17	1,549.86	275.31	6.630		
12,000.00	11,918.99	11,935.00	11,931.05	44.75	274.21	-6.00	1,731.26	623.94	1,821.71	1,543.92	277.79	6.558		
12,050.00	11,968.33	11,958.18	11,954.23	44.91	274.98	-6.10	1,731.26	623.94	1,813.56	1,534.96	278.60	6.510		
12,100.00	12,016.79	12,006.70	12,002.69	45.06	276.60	-6.28	1,731.26	623.94	1,801.36	1,521.14	280.22	6.428		
12,150.00	12,063.99	12,053.90	12,049.89	45.21	278.35	-6.53	1,731.26	623.94	1,785.00	1,503.03	281.98	6.330		
12,200.00	12,109.58	12,099.52	12,095.48	45.34	280.05	-6.87	1,731.26	623.94	1,764.62	1,480.95	283.67	6.221		
12,250.00	12,153.20	12,143.26	12,139.10	45.46	281.88	-7.31	1,731.26	623.94	1,740.37	1,454.87	285.50	6.096		
12,300.00	12,194.54	12,200.00	12,195.65	45.57	284.33	-7.93	1,731.26	623.94	1,712.50	1,424.56	287.94	5.947		
12,350.00	12,233.27	12,223.52	12,219.17	45.67	285.45	-8.61	1,731.26	623.94	1,681.03	1,391.96	289.07	5.815		
12,400.00	12,269.10	12,259.40	12,255.00	45.76	287.16	-9.55	1,731.26	623.94	1,646.40	1,355.63	290.77	5.662		
12,450.00	12,301.75	12,292.19	12,287.65	45.83	288.67	-10.79	1,731.26	623.94	1,608.81	1,316.53	292.28	5.504		
12,500.00	12,330.98	12,321.43	12,316.88	45.90	290.01	-12.45	1,731.26	623.94	1,568.56	1,274.94	293.62	5.342		
12,550.00	12,356.57	12,415.88	12,411.18	45.96	294.33	-16.03	1,730.79	623.94	1,527.02	1,229.48	297.55	5.132		
12,600.00	12,378.31	12,405.00	12,400.13	46.01	293.83	-19.01	1,731.26	623.94	1,481.72	1,184.41	297.31	4.984		
12,650.00	12,396.05	12,405.00	12,400.13	46.06	293.83	-23.74	1,731.26	623.94	1,435.07	1,137.67	297.39	4.825		
12,700.00	12,409.66	12,405.00	12,400.13	46.11	293.83	-31.21	1,731.26	623.94	1,387.29	1,089.87	297.43	4.664		
12,750.00	12,419.01	12,409.79	12,404.91	46.17	294.02	-44.64	1,731.26	623.94	1,338.66	1,041.04	297.62	4.498		
12,800.00	12,424.05	12,414.83	12,409.95	46.24	294.22	-68.80	1,731.26	623.94	1,289.44	991.62	297.83	4.330		
12,832.89	12,425.00	12,415.77	12,410.90	46.30	294.26	-90.00	1,731.26	623.94	1,256.93	959.07	297.87	4.220		
12,900.00	12,425.00	12,415.77	12,410.90	46.43	294.26	-90.00	1,731.26	623.94	1,190.76	892.88	297.88	3.997		
12,971.32	12,425.00	12,415.77	12,410.90	46.62	294.26	-90.00	1,731.26	623.94	1,120.89	823.00	297.89	3.763		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 60-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,000.00	12,425.00	12,415.77	12,410.90	46.71	294.26	-90.00	1,731.26	623.94	1,092.92	795.02	297.90	3.669		
13,100.00	12,425.00	12,415.77	12,410.90	47.06	294.26	-90.00	1,731.26	623.94	995.72	697.80	297.92	3.342		
13,200.00	12,425.00	12,415.77	12,410.90	47.49	294.26	-90.00	1,731.26	623.94	899.14	601.19	297.95	3.018		
13,300.00	12,425.00	12,415.77	12,410.90	47.98	294.26	-90.00	1,731.26	623.94	803.39	505.40	297.99	2.696		
13,400.00	12,425.00	12,415.77	12,410.90	48.53	294.26	-90.00	1,731.26	623.94	708.82	410.77	298.04	2.378		
13,500.00	12,425.00	12,415.77	12,410.90	49.13	294.26	-90.00	1,731.26	623.94	615.96	317.85	298.11	2.066		
13,600.00	12,425.00	12,415.77	12,410.90	49.79	294.26	-90.00	1,731.26	623.94	525.73	227.52	298.21	1.763		
13,700.00	12,425.00	12,415.77	12,410.90	50.49	294.26	-90.00	1,731.26	623.94	439.75	141.40	298.35	1.474	Level 3	
13,800.00	12,425.00	12,415.77	12,410.90	51.24	294.26	-90.00	1,731.26	623.94	361.07	62.52	298.54	1.209	Level 2	
13,900.00	12,425.00	12,415.77	12,410.90	52.03	294.26	-90.00	1,731.26	623.94	295.56	-3.20	298.77	0.989	Level 1	
14,000.00	12,425.00	12,415.77	12,410.90	52.87	294.26	-90.00	1,731.26	623.94	253.66	-45.22	298.88	0.849	Level 1	
14,065.07	12,425.00	12,415.77	12,410.90	53.43	294.26	-90.00	1,731.26	623.94	245.17	-53.66	298.83	0.820	Level 1, CC, ES, SF	
14,100.00	12,425.00	12,415.77	12,410.90	53.74	294.26	-90.00	1,731.26	623.94	247.65	-51.08	298.73	0.829	Level 1	
14,200.00	12,425.00	12,415.77	12,410.90	54.65	294.26	-90.00	1,731.26	623.94	279.85	-18.50	298.35	0.938	Level 1	
14,300.00	12,425.00	12,415.77	12,410.90	55.59	294.26	-90.00	1,731.26	623.94	339.56	41.52	298.04	1.139	Level 2	
14,400.00	12,425.00	12,415.77	12,410.90	56.57	294.26	-90.00	1,731.26	623.94	415.08	117.22	297.86	1.394	Level 3	
14,500.00	12,425.00	12,415.77	12,410.90	57.57	294.26	-90.00	1,731.26	623.94	499.28	201.50	297.77	1.677		
14,600.00	12,425.00	12,415.77	12,410.90	58.61	294.26	-90.00	1,731.26	623.94	588.44	290.71	297.73	1.976		
14,700.00	12,425.00	12,415.77	12,410.90	59.67	294.26	-90.00	1,731.26	623.94	680.62	382.92	297.71	2.286		
14,800.00	12,425.00	12,415.77	12,410.90	60.76	294.26	-90.00	1,731.26	623.94	774.75	477.05	297.70	2.602		
14,900.00	12,425.00	12,415.77	12,410.90	61.88	294.26	-90.00	1,731.26	623.94	870.19	572.49	297.70	2.923		
15,000.00	12,425.00	12,415.77	12,410.90	63.02	294.26	-90.00	1,731.26	623.94	966.55	668.85	297.70	3.247		
15,100.00	12,425.00	12,415.77	12,410.90	64.18	294.26	-90.00	1,731.26	623.94	1,063.58	765.87	297.70	3.573		
15,200.00	12,425.00	12,415.77	12,410.90	65.36	294.26	-90.00	1,731.26	623.94	1,161.11	863.40	297.71	3.900		
15,300.00	12,425.00	12,415.77	12,410.90	66.56	294.26	-90.00	1,731.26	623.94	1,259.04	961.32	297.72	4.229		
15,400.00	12,425.00	12,415.77	12,410.90	67.78	294.26	-90.00	1,731.26	623.94	1,357.26	1,059.54	297.72	4.559		
15,500.00	12,425.00	12,415.77	12,410.90	69.02	294.26	-90.00	1,731.26	623.94	1,455.73	1,158.00	297.73	4.889		
15,600.00	12,425.00	12,415.77	12,410.90	70.28	294.26	-90.00	1,731.26	623.94	1,554.39	1,256.65	297.74	5.221		
15,700.00	12,425.00	12,415.77	12,410.90	71.55	294.26	-90.00	1,731.26	623.94	1,653.21	1,355.47	297.75	5.552		
15,800.00	12,425.00	12,415.77	12,410.90	72.84	294.26	-90.00	1,731.26	623.94	1,752.17	1,454.42	297.75	5.885		
15,900.00	12,425.00	12,415.77	12,410.90	74.14	294.26	-90.00	1,731.26	623.94	1,851.24	1,553.48	297.76	6.217		
16,000.00	12,425.00	12,415.77	12,410.90	75.46	294.26	-90.00	1,731.26	623.94	1,950.40	1,652.63	297.77	6.550		
16,100.00	12,425.00	12,415.77	12,410.90	76.79	294.26	-90.00	1,731.26	623.94	2,049.65	1,751.87	297.78	6.883		
16,200.00	12,425.00	12,415.77	12,410.90	78.13	294.26	-90.00	1,731.26	623.94	2,148.97	1,851.18	297.79	7.216		
16,300.00	12,425.00	12,415.77	12,410.90	79.48	294.26	-90.00	1,731.26	623.94	2,248.34	1,950.55	297.79	7.550		
16,400.00	12,425.00	12,415.77	12,410.90	80.85	294.26	-90.00	1,731.26	623.94	2,347.77	2,049.97	297.80	7.884		
16,500.00	12,425.00	12,415.77	12,410.90	82.22	294.26	-90.00	1,731.26	623.94	2,447.25	2,149.43	297.81	8.217		
16,600.00	12,425.00	12,415.77	12,410.90	83.61	294.26	-90.00	1,731.26	623.94	2,546.76	2,248.94	297.82	8.551		
16,700.00	12,425.00	12,415.77	12,410.90	85.00	294.26	-90.00	1,731.26	623.94	2,646.32	2,348.49	297.83	8.885		
16,800.00	12,425.00	12,415.77	12,410.90	86.40	294.26	-90.00	1,731.26	623.94	2,745.90	2,448.06	297.84	9.219		
16,900.00	12,425.00	12,415.77	12,410.90	87.82	294.26	-90.00	1,731.26	623.94	2,845.52	2,547.67	297.85	9.554		
17,000.00	12,425.00	12,415.77	12,410.90	89.24	294.26	-90.00	1,731.26	623.94	2,945.16	2,647.30	297.86	9.888		
17,100.00	12,425.00	12,415.77	12,410.90	90.66	294.26	-90.00	1,731.26	623.94	3,044.82	2,746.96	297.86	10.222		
17,200.00	12,425.00	12,415.77	12,410.90	92.10	294.26	-90.00	1,731.26	623.94	3,144.51	2,846.63	297.87	10.557		
17,300.00	12,425.00	12,415.77	12,410.90	93.54	294.26	-90.00	1,731.26	623.94	3,244.21	2,946.33	297.88	10.891		
17,400.00	12,425.00	12,415.77	12,410.90	94.99	294.26	-90.00	1,731.26	623.94	3,343.93	3,046.04	297.89	11.225		
17,500.00	12,425.00	12,415.77	12,410.90	96.45	294.26	-90.00	1,731.26	623.94	3,443.67	3,145.77	297.90	11.560		
17,600.00	12,425.00	12,415.77	12,410.90	97.91	294.26	-90.00	1,731.26	623.94	3,543.43	3,245.51	297.91	11.894		
17,700.00	12,425.00	12,415.77	12,410.90	99.38	294.26	-90.00	1,731.26	623.94	3,643.19	3,345.27	297.92	12.229		
17,800.00	12,425.00	12,415.77	12,410.90	100.86	294.26	-90.00	1,731.26	623.94	3,742.97	3,445.04	297.93	12.563		
17,900.00	12,425.00	12,415.77	12,410.90	102.34	294.26	-90.00	1,731.26	623.94	3,842.76	3,544.82	297.94	12.898		
18,000.00	12,425.00	12,415.77	12,410.90	103.82	294.26	-90.00	1,731.26	623.94	3,942.56	3,644.61	297.95	13.232		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Colorado Fed Com - Custer Mountain Unit #001 (Offset) - OH - OH													Offset Well Error:	0.00 usft
Survey Program: 60-INC-ONLY														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,100.00	12,425.00	12,415.77	12,410.90	105.31	294.26	-90.00	1,731.26	623.94	4,042.38	3,744.41	297.96	13.567		
18,200.00	12,425.00	12,415.77	12,410.90	106.80	294.26	-90.00	1,731.26	623.94	4,142.20	3,844.22	297.97	13.901		
18,300.00	12,425.00	12,415.77	12,410.90	108.30	294.26	-90.00	1,731.26	623.94	4,242.02	3,944.04	297.98	14.236		
18,400.00	12,425.00	12,415.77	12,410.90	109.81	294.26	-90.00	1,731.26	623.94	4,341.86	4,043.87	297.99	14.570		
18,500.00	12,425.00	12,415.77	12,410.90	111.32	294.26	-90.00	1,731.26	623.94	4,441.71	4,143.70	298.00	14.905		
18,600.00	12,425.00	12,415.77	12,410.90	112.83	294.26	-90.00	1,731.26	623.94	4,541.56	4,243.54	298.02	15.239		
18,700.00	12,425.00	12,415.77	12,410.90	114.34	294.26	-90.00	1,731.26	623.94	4,641.41	4,343.39	298.03	15.574		
18,800.00	12,425.00	12,415.77	12,410.90	115.86	294.26	-90.00	1,731.26	623.94	4,741.28	4,443.24	298.04	15.908		
18,900.00	12,425.00	12,415.77	12,410.90	117.39	294.26	-90.00	1,731.26	623.94	4,841.15	4,543.10	298.05	16.243		
19,000.00	12,425.00	12,415.77	12,410.90	118.91	294.26	-90.00	1,731.26	623.94	4,941.02	4,642.96	298.06	16.577		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 192-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
14,500.00	12,425.00	12,418.83	12,415.29	57.57	278.53	90.07	7,024.39	1,885.96	4,961.84	4,679.68	282.16	17.585		
14,600.00	12,425.00	12,418.79	12,415.26	58.61	278.53	90.07	7,024.39	1,885.96	4,864.27	4,582.11	282.16	17.239		
14,700.00	12,425.00	12,418.76	12,415.23	59.67	278.53	90.07	7,024.39	1,885.96	4,766.79	4,484.63	282.16	16.894		
14,800.00	12,425.00	12,418.73	12,415.20	60.76	278.53	90.07	7,024.39	1,885.96	4,669.42	4,387.27	282.16	16.549		
14,900.00	12,425.00	12,418.70	12,415.16	61.88	278.53	90.07	7,024.39	1,885.96	4,572.17	4,290.01	282.16	16.204		
15,000.00	12,425.00	12,418.66	12,415.13	63.02	278.53	90.07	7,024.39	1,885.96	4,475.03	4,192.87	282.16	15.860		
15,100.00	12,425.00	12,418.63	12,415.10	64.18	278.53	90.06	7,024.39	1,885.96	4,378.03	4,095.86	282.17	15.516		
15,200.00	12,425.00	12,418.60	12,415.07	65.36	278.53	90.06	7,024.39	1,885.96	4,281.16	3,998.99	282.17	15.172		
15,300.00	12,425.00	12,418.57	12,415.04	66.56	278.53	90.06	7,024.39	1,885.96	4,184.44	3,902.26	282.18	14.829		
15,400.00	12,425.00	12,418.54	12,415.01	67.78	278.53	90.06	7,024.39	1,885.96	4,087.88	3,805.69	282.19	14.486		
15,500.00	12,425.00	12,418.51	12,414.97	69.02	278.53	90.06	7,024.39	1,885.96	3,991.49	3,709.28	282.20	14.144		
15,600.00	12,425.00	12,418.48	12,414.94	70.28	278.53	90.06	7,024.39	1,885.96	3,895.28	3,613.06	282.22	13.802		
15,700.00	12,425.00	12,418.45	12,414.91	71.55	278.53	90.05	7,024.39	1,885.96	3,799.26	3,517.02	282.24	13.461		
15,800.00	12,425.00	12,418.41	12,414.88	72.84	278.53	90.05	7,024.39	1,885.96	3,703.46	3,421.20	282.26	13.121		
15,900.00	12,425.00	12,418.38	12,414.85	74.14	278.53	90.05	7,024.39	1,885.96	3,607.88	3,325.59	282.29	12.781		
16,000.00	12,425.00	12,418.35	12,414.82	75.46	278.52	90.05	7,024.39	1,885.96	3,512.55	3,230.23	282.32	12.442		
16,100.00	12,425.00	12,418.32	12,414.79	76.79	278.52	90.05	7,024.39	1,885.96	3,417.48	3,135.13	282.35	12.104		
16,200.00	12,425.00	12,418.29	12,414.76	78.13	278.52	90.05	7,024.39	1,885.96	3,322.71	3,040.31	282.40	11.766		
16,300.00	12,425.00	12,418.26	12,414.73	79.48	278.52	90.04	7,024.39	1,885.96	3,228.25	2,945.81	282.45	11.430		
16,400.00	12,425.00	12,418.23	12,414.70	80.85	278.52	90.04	7,024.39	1,885.96	3,134.14	2,851.63	282.50	11.094		
16,500.00	12,425.00	12,418.21	12,414.67	82.22	278.52	90.04	7,024.39	1,885.96	3,040.40	2,757.83	282.57	10.760		
16,600.00	12,425.00	12,418.18	12,414.64	83.61	278.52	90.04	7,024.39	1,885.96	2,947.07	2,664.42	282.65	10.427		
16,700.00	12,425.00	12,418.15	12,414.61	85.00	278.52	90.04	7,024.39	1,885.96	2,854.20	2,571.46	282.74	10.095		
16,800.00	12,425.00	12,418.12	12,414.59	86.40	278.52	90.04	7,024.39	1,885.96	2,761.82	2,478.98	282.84	9.765		
16,900.00	12,425.00	12,418.09	12,414.56	87.82	278.52	90.03	7,024.39	1,885.96	2,669.99	2,387.03	282.96	9.436		
17,000.00	12,425.00	12,418.06	12,414.53	89.24	278.52	90.03	7,024.39	1,885.96	2,578.77	2,295.67	283.10	9.109		
17,100.00	12,425.00	12,418.03	12,414.50	90.66	278.52	90.03	7,024.39	1,885.96	2,488.23	2,204.97	283.26	8.784		
17,200.00	12,425.00	12,418.00	12,414.47	92.10	278.52	90.03	7,024.39	1,885.96	2,398.43	2,114.99	283.44	8.462		
17,300.00	12,425.00	12,417.98	12,414.44	93.54	278.52	90.03	7,024.39	1,885.96	2,309.48	2,025.82	283.66	8.142		
17,400.00	12,425.00	12,417.95	12,414.41	94.99	278.52	90.03	7,024.39	1,885.96	2,221.46	1,937.55	283.91	7.824		
17,500.00	12,425.00	12,417.92	12,414.39	96.45	278.52	90.03	7,024.39	1,885.96	2,134.50	1,850.30	284.20	7.511		
17,600.00	12,425.00	12,417.89	12,414.36	97.91	278.52	90.02	7,024.39	1,885.96	2,048.73	1,764.20	284.54	7.200		
17,700.00	12,425.00	12,417.86	12,414.33	99.38	278.52	90.02	7,024.39	1,885.96	1,964.31	1,679.38	284.93	6.894		
17,800.00	12,425.00	12,417.84	12,414.30	100.86	278.51	90.02	7,024.39	1,885.96	1,881.41	1,596.03	285.38	6.593		
17,900.00	12,425.00	12,417.81	12,414.28	102.34	278.51	90.02	7,024.39	1,885.96	1,800.26	1,514.34	285.91	6.297		
18,000.00	12,425.00	12,417.78	12,414.25	103.82	278.51	90.02	7,024.39	1,885.96	1,721.08	1,434.56	286.53	6.007		
18,100.00	12,425.00	12,417.75	12,414.22	105.31	278.51	90.02	7,024.39	1,885.96	1,644.18	1,356.94	287.24	5.724		
18,200.00	12,425.00	12,417.73	12,414.20	106.80	278.51	90.02	7,024.39	1,885.96	1,569.88	1,281.81	288.07	5.450		
18,300.00	12,425.00	12,417.70	12,414.17	108.30	278.51	90.01	7,024.39	1,885.96	1,498.58	1,209.55	289.03	5.185		
18,400.00	12,425.00	12,417.67	12,414.14	109.81	278.51	90.01	7,024.39	1,885.96	1,430.72	1,140.59	290.13	4.931		
18,500.00	12,425.00	12,417.65	12,414.12	111.32	278.51	90.01	7,024.39	1,885.96	1,366.81	1,075.43	291.37	4.691		
18,600.00	12,425.00	12,417.62	12,414.09	112.83	278.51	90.01	7,024.39	1,885.96	1,307.43	1,014.65	292.78	4.466		
18,700.00	12,425.00	12,417.60	12,414.06	114.34	278.51	90.01	7,024.39	1,885.96	1,253.22	958.90	294.33	4.258		
18,800.00	12,425.00	12,417.57	12,414.04	115.86	278.51	90.01	7,024.39	1,885.96	1,204.90	908.89	296.01	4.070		
18,900.00	12,425.00	12,417.54	12,414.01	117.39	278.51	90.01	7,024.39	1,885.96	1,163.18	865.40	297.78	3.906		
19,000.00	12,425.00	12,417.52	12,413.99	118.91	278.51	90.00	7,024.39	1,885.96	1,128.80	829.22	299.58	3.768		
19,100.00	12,425.00	12,417.49	12,413.96	120.44	278.51	90.00	7,024.39	1,885.96	1,102.45	801.13	301.32	3.659		
19,200.00	12,425.00	12,417.47	12,413.93	121.98	278.51	90.00	7,024.39	1,885.96	1,084.71	781.81	302.91	3.581		
19,300.00	12,425.00	12,417.44	12,413.91	123.51	278.51	90.00	7,024.39	1,885.96	1,076.02	771.77	304.25	3.537		
19,343.97	12,425.00	12,417.43	12,413.90	124.19	278.51	90.00	7,024.39	1,885.96	1,075.12	770.39	304.73	3.528 CC, ES		
19,400.00	12,425.00	12,417.42	12,413.88	125.05	278.51	90.00	7,024.39	1,885.96	1,076.58	771.33	305.25	3.527 SF		
19,500.00	12,425.00	12,417.39	12,413.86	126.60	278.51	90.00	7,024.39	1,885.96	1,086.38	780.51	305.87	3.552		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Colorado Fed Com - Woolworth Ranch Unit #001 (Offset) - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 192-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,600.00	12,425.00	12,417.37	12,413.83	128.14	278.51	90.00	7,024.39	1,885.96	1,105.18	799.09	306.10	3.611		
19,700.00	12,425.00	12,417.34	12,413.81	129.69	278.50	90.00	7,024.39	1,885.96	1,132.53	826.58	305.96	3.702		
19,800.00	12,425.00	12,417.32	12,413.78	131.24	278.50	89.99	7,024.39	1,885.96	1,167.84	862.32	305.51	3.823		
19,900.00	12,425.00	12,417.29	12,413.76	132.79	278.50	89.99	7,024.39	1,885.96	1,210.39	905.56	304.83	3.971		
20,000.00	12,425.00	12,417.27	12,413.73	134.35	278.50	89.99	7,024.39	1,885.96	1,259.47	955.48	303.99	4.143		
20,100.00	12,425.00	12,417.24	12,413.71	135.91	278.50	89.99	7,024.39	1,885.96	1,314.33	1,011.29	303.04	4.337		
20,200.00	12,425.00	12,417.22	12,413.69	137.47	278.50	89.99	7,024.39	1,885.96	1,374.29	1,072.23	302.06	4.550		
20,300.00	12,425.00	12,417.19	12,413.66	139.03	278.50	89.99	7,024.39	1,885.96	1,438.71	1,137.64	301.06	4.779		
20,400.00	12,425.00	12,417.17	12,413.64	140.59	278.50	89.99	7,024.39	1,885.96	1,507.01	1,206.92	300.09	5.022		
20,500.00	12,425.00	12,417.15	12,413.61	142.16	278.50	89.98	7,024.39	1,885.96	1,578.70	1,279.53	299.16	5.277		
20,600.00	12,425.00	12,417.12	12,413.59	143.73	278.50	89.98	7,024.39	1,885.96	1,653.33	1,355.04	298.28	5.543		
20,700.00	12,425.00	12,417.10	12,413.57	145.30	278.50	89.98	7,024.39	1,885.96	1,730.52	1,433.06	297.46	5.818		
20,800.00	12,425.00	12,417.08	12,413.54	146.87	278.50	89.98	7,024.39	1,885.96	1,809.95	1,513.25	296.70	6.100		
20,900.00	12,425.00	12,417.05	12,413.52	148.44	278.50	89.98	7,024.39	1,885.96	1,891.33	1,595.33	296.00	6.390		
21,000.00	12,425.00	12,417.03	12,413.50	150.02	278.50	89.98	7,024.39	1,885.96	1,974.42	1,679.07	295.34	6.685		
21,100.00	12,425.00	12,417.01	12,413.47	151.59	278.50	89.98	7,024.39	1,885.96	2,059.01	1,764.27	294.74	6.986		
21,200.00	12,425.00	12,416.98	12,413.45	153.17	278.50	89.98	7,024.39	1,885.96	2,144.93	1,850.74	294.19	7.291		
21,300.00	12,425.00	12,416.96	12,413.43	154.75	278.50	89.97	7,024.39	1,885.96	2,232.03	1,938.34	293.69	7.600		
21,400.00	12,425.00	12,416.94	12,413.40	156.33	278.50	89.97	7,024.39	1,885.96	2,320.16	2,026.94	293.22	7.913		
21,500.00	12,425.00	12,416.91	12,413.38	157.92	278.50	89.97	7,024.39	1,885.96	2,409.22	2,116.43	292.79	8.228		
21,600.00	12,425.00	12,416.89	12,413.36	159.50	278.50	89.97	7,024.39	1,885.96	2,499.11	2,206.71	292.40	8.547		
21,700.00	12,425.00	12,416.87	12,413.34	161.09	278.50	89.97	7,024.39	1,885.96	2,589.74	2,297.70	292.04	8.868		
21,800.00	12,425.00	12,416.85	12,413.31	162.67	278.50	89.97	7,024.39	1,885.96	2,681.04	2,389.34	291.70	9.191		
21,900.00	12,425.00	12,416.82	12,413.29	164.26	278.49	89.97	7,024.39	1,885.96	2,772.94	2,481.54	291.39	9.516		
22,000.00	12,425.00	12,416.80	12,413.27	165.85	278.49	89.97	7,024.39	1,885.96	2,865.38	2,574.27	291.11	9.843		
22,100.00	12,425.00	12,416.78	12,413.25	167.44	278.49	89.97	7,024.39	1,885.96	2,958.31	2,667.47	290.84	10.172		
22,200.00	12,425.00	12,416.76	12,413.22	169.03	278.49	89.96	7,024.39	1,885.96	3,051.69	2,761.09	290.60	10.501		
22,300.00	12,425.00	12,416.73	12,413.20	170.63	278.49	89.96	7,024.39	1,885.96	3,145.47	2,855.10	290.37	10.833		
22,400.00	12,425.00	12,416.71	12,413.18	172.22	278.49	89.96	7,024.39	1,885.96	3,239.63	2,949.47	290.16	11.165		
22,506.08	12,425.00	12,416.69	12,413.16	173.92	278.49	89.96	7,024.39	1,885.96	3,339.89	3,049.93	289.96	11.519		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Georgetown Fed Com 301H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-69.24	73.43	-193.70	207.42					
100.00	100.00	89.50	89.50	0.13	0.13	-69.24	73.43	-193.70	207.15	206.97	0.18	1,161.615		
200.00	200.00	189.50	189.50	0.48	0.46	-69.24	73.43	-193.70	207.15	206.48	0.67	309.479		
300.00	300.00	289.50	289.50	0.84	0.82	-69.24	73.43	-193.70	207.15	205.98	1.18	176.114		
400.00	400.00	389.50	389.50	1.20	1.18	-69.24	73.43	-193.70	207.15	205.47	1.68	123.073		
500.00	500.00	489.50	489.50	1.56	1.54	-69.24	73.43	-193.70	207.15	204.96	2.19	94.585		
600.00	600.00	589.50	589.50	1.92	1.90	-69.24	73.43	-193.70	207.15	204.45	2.70	76.807		
700.00	700.00	689.50	689.50	2.28	2.25	-69.24	73.43	-193.70	207.15	203.95	3.20	64.654		
800.00	800.00	789.50	789.50	2.63	2.61	-69.24	73.43	-193.70	207.15	203.44	3.71	55.822		
900.00	900.00	889.50	889.50	2.99	2.97	-69.24	73.43	-193.70	207.15	202.93	4.22	49.112		
1,000.00	1,000.00	989.50	989.50	3.35	3.33	-69.24	73.43	-193.70	207.15	202.43	4.72	43.843		
1,100.00	1,100.00	1,089.50	1,089.50	3.71	3.69	-69.24	73.43	-193.70	207.15	201.92	5.23	39.595		
1,200.00	1,200.00	1,189.50	1,189.50	4.07	4.05	-69.24	73.43	-193.70	207.15	201.41	5.74	36.097		
1,300.00	1,300.00	1,289.50	1,289.50	4.43	4.41	-69.24	73.43	-193.70	207.15	200.91	6.25	33.167		
1,400.00	1,400.00	1,389.50	1,389.50	4.79	4.76	-69.24	73.43	-193.70	207.15	200.40	6.75	30.677		
1,500.00	1,500.00	1,489.50	1,489.50	5.14	5.12	-69.24	73.43	-193.70	207.15	199.89	7.26	28.535 CC, ES		
1,600.00	1,599.99	1,589.49	1,589.49	5.49	5.48	-163.69	73.43	-193.70	208.41	200.65	7.76	26.857		
1,700.00	1,699.91	1,689.41	1,689.41	5.84	5.84	-163.97	73.43	-193.70	212.18	203.92	8.25	25.705		
1,800.00	1,799.69	1,789.19	1,789.19	6.18	6.20	-164.42	73.43	-193.70	218.47	209.72	8.75	24.968		
1,900.00	1,899.27	1,888.77	1,888.77	6.53	6.55	-165.00	73.43	-193.70	227.30	218.05	9.25	24.582		
2,000.00	1,998.57	1,988.07	1,988.07	6.89	6.91	-165.69	73.43	-193.70	238.68	228.93	9.74	24.496		
2,100.00	2,097.54	2,087.04	2,087.04	7.26	7.26	-166.44	73.43	-193.70	252.61	242.37	10.24	24.669		
2,200.03	2,196.12	2,185.62	2,185.62	7.64	7.62	-167.23	73.43	-193.70	269.12	258.38	10.74	25.065		
2,300.00	2,294.41	2,283.91	2,283.91	8.03	7.97	-168.04	73.43	-193.70	286.93	275.70	11.23	25.543		
2,400.00	2,392.74	2,382.24	2,382.24	8.42	8.32	-168.75	73.43	-193.70	304.79	293.06	11.73	25.984		
2,500.00	2,491.06	2,480.56	2,480.56	8.83	8.68	-169.38	73.43	-193.70	322.70	310.47	12.23	26.390		
2,600.00	2,589.39	2,578.89	2,578.89	9.24	9.03	-169.94	73.43	-193.70	340.64	327.91	12.73	26.763		
2,700.00	2,687.72	2,677.22	2,677.22	9.65	9.38	-170.45	73.43	-193.70	358.60	345.37	13.23	27.108		
2,800.00	2,786.04	2,775.54	2,775.54	10.07	9.73	-170.91	73.43	-193.70	376.60	362.87	13.73	27.428		
2,900.00	2,884.37	2,873.87	2,873.87	10.49	10.09	-171.33	73.43	-193.70	394.61	380.38	14.23	27.725		
3,000.00	2,982.69	2,972.19	2,972.19	10.92	10.44	-171.71	73.43	-193.70	412.64	397.90	14.74	28.002		
3,100.00	3,081.02	3,070.52	3,070.52	11.35	10.79	-172.06	73.43	-193.70	430.69	415.45	15.24	28.259		
3,200.00	3,179.34	3,168.84	3,168.84	11.78	11.14	-172.38	73.43	-193.70	448.75	433.00	15.75	28.500		
3,300.00	3,277.67	3,260.13	3,260.13	12.21	11.46	-172.67	73.39	-194.17	467.33	451.11	16.22	28.814		
3,400.00	3,375.99	3,347.47	3,347.44	12.65	11.76	-173.00	73.16	-196.53	487.97	471.31	16.67	29.279		
3,500.00	3,474.32	3,433.93	3,433.79	13.09	12.06	-173.36	72.76	-200.83	510.76	493.67	17.10	29.870		
3,600.00	3,572.64	3,519.44	3,519.07	13.53	12.35	-173.76	72.18	-206.99	535.68	518.16	17.52	30.572		
3,700.00	3,670.97	3,600.00	3,599.27	13.97	12.63	-174.14	71.48	-214.53	562.71	544.80	17.91	31.423		
3,800.00	3,769.29	3,687.32	3,686.00	14.41	12.94	-174.58	70.53	-224.61	591.78	573.45	18.33	32.278		
3,900.00	3,867.62	3,775.27	3,773.13	14.86	13.25	-175.03	69.42	-236.52	622.71	603.94	18.76	33.185		
4,000.00	3,965.94	3,870.14	3,867.08	15.30	13.59	-175.47	68.18	-249.67	653.98	634.74	19.25	33.980		
4,100.00	4,064.27	3,965.01	3,961.02	15.75	13.93	-175.87	66.95	-262.82	685.29	665.56	19.73	34.736		
4,200.00	4,162.60	4,059.87	4,054.96	16.20	14.27	-176.24	65.72	-275.97	716.62	696.41	20.21	35.454		
4,300.00	4,260.92	4,154.74	4,148.91	16.65	14.62	-176.58	64.48	-289.12	747.98	727.29	20.70	36.137		
4,400.00	4,359.25	4,249.61	4,242.85	17.09	14.97	-176.89	63.25	-302.27	779.36	758.18	21.19	36.788		
4,500.00	4,457.57	4,344.47	4,336.79	17.55	15.33	-177.18	62.02	-315.42	810.76	789.09	21.67	37.409		
4,600.00	4,555.90	4,439.34	4,430.74	18.00	15.68	-177.44	60.79	-328.57	842.18	820.02	22.16	38.001		
4,700.00	4,654.22	4,534.21	4,524.68	18.45	16.04	-177.69	59.55	-341.72	873.61	850.96	22.65	38.567		
4,800.00	4,752.55	4,629.08	4,618.62	18.90	16.40	-177.92	58.32	-354.86	905.06	881.92	23.14	39.107		
4,900.00	4,850.87	4,723.94	4,712.57	19.35	16.76	-178.13	57.09	-368.01	936.52	912.88	23.63	39.625		
5,000.00	4,949.20	4,818.81	4,806.51	19.81	17.13	-178.33	55.86	-381.16	967.99	943.86	24.13	40.120		
5,100.00	5,047.52	4,913.68	4,900.45	20.26	17.49	-178.52	54.62	-394.31	999.46	974.84	24.62	40.595		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Georgetown Fed Com 301H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,145.85	5,008.55	4,994.40	20.72	17.86	-178.69	53.39	-407.46	1,030.95	1,005.84	25.11	41.050		
5,300.00	5,244.17	5,103.41	5,088.34	21.17	18.23	-178.86	52.16	-420.61	1,062.45	1,036.84	25.61	41.487		
5,400.00	5,342.50	5,198.28	5,182.28	21.63	18.60	-179.01	50.92	-433.76	1,093.95	1,067.85	26.10	41.907		
5,500.00	5,440.82	5,293.15	5,276.23	22.08	18.97	-179.16	49.69	-446.91	1,125.46	1,098.86	26.60	42.310		
5,600.00	5,539.15	5,388.01	5,370.17	22.54	19.34	-179.30	48.46	-460.06	1,156.98	1,129.88	27.10	42.698		
5,700.00	5,637.48	5,482.88	5,464.11	22.99	19.71	-179.43	47.23	-473.20	1,188.50	1,160.91	27.59	43.071		
5,800.00	5,735.80	5,577.75	5,558.06	23.45	20.09	-179.56	45.99	-486.35	1,220.03	1,191.94	28.09	43.430		
5,900.00	5,834.13	5,672.62	5,652.00	23.91	20.46	-179.68	44.76	-499.50	1,251.56	1,222.97	28.59	43.776		
6,000.00	5,932.45	5,767.48	5,745.94	24.37	20.84	-179.79	43.53	-512.65	1,283.10	1,254.01	29.09	44.110		
6,100.00	6,030.78	5,862.35	5,839.89	24.82	21.22	-179.90	42.30	-525.80	1,314.64	1,285.05	29.59	44.432		
6,200.00	6,129.10	5,957.22	5,933.83	25.28	21.59	-180.00	41.06	-538.95	1,346.19	1,316.10	30.09	44.742		
6,300.00	6,227.43	6,052.08	6,027.77	25.74	21.97	179.90	39.83	-552.10	1,377.74	1,347.15	30.59	45.042		
6,400.00	6,325.75	6,146.95	6,121.72	26.20	22.35	179.81	38.60	-565.25	1,409.29	1,378.20	31.09	45.332		
6,500.00	6,424.08	6,241.82	6,215.66	26.66	22.73	179.72	37.36	-578.40	1,440.85	1,409.26	31.59	45.612		
6,560.82	6,483.88	6,299.52	6,272.80	26.94	22.97	179.67	36.61	-586.39	1,460.04	1,428.15	31.89	45.778		
6,600.00	6,522.44	6,336.75	6,309.67	27.11	23.11	179.64	36.13	-591.55	1,472.21	1,440.12	32.09	45.878		
6,700.00	6,621.16	6,432.32	6,404.31	27.55	23.50	179.56	34.89	-604.80	1,501.55	1,468.96	32.59	46.072		
6,800.00	6,720.27	6,528.63	6,499.68	27.97	23.89	179.48	33.64	-618.15	1,528.38	1,495.29	33.09	46.184		
6,900.00	6,819.68	6,625.61	6,595.72	28.36	24.28	179.41	32.38	-631.59	1,552.68	1,519.08	33.59	46.218		
7,000.00	6,919.35	6,723.19	6,692.35	28.73	24.67	179.33	31.11	-645.12	1,574.43	1,540.34	34.10	46.177		
7,100.00	7,019.20	6,821.31	6,789.51	29.08	25.07	179.26	29.83	-658.72	1,593.63	1,559.03	34.60	46.064		
7,200.00	7,119.15	6,919.89	6,887.13	29.41	25.47	179.19	28.55	-672.38	1,610.25	1,575.16	35.09	45.883		
7,260.85	7,180.00	6,980.08	6,946.74	29.60	25.72	-86.50	27.77	-680.72	1,619.10	1,583.71	35.39	45.744		
7,300.00	7,219.15	7,018.85	6,985.12	29.72	25.87	-86.53	27.27	-686.10	1,624.49	1,588.90	35.59	45.650		
7,400.00	7,319.15	7,117.87	7,083.19	30.02	26.28	-86.61	25.98	-699.82	1,638.25	1,602.17	36.08	45.411		
7,500.00	7,419.15	7,216.90	7,181.25	30.32	26.68	-86.68	24.69	-713.55	1,652.01	1,615.45	36.57	45.178		
7,600.00	7,519.15	7,315.93	7,279.31	30.62	27.08	-86.75	23.41	-727.27	1,665.78	1,628.72	37.06	44.951		
7,700.00	7,619.15	7,414.95	7,377.37	30.92	27.49	-86.83	22.12	-741.00	1,679.55	1,642.00	37.55	44.729		
7,800.00	7,719.15	7,513.98	7,475.43	31.23	27.89	-86.90	20.83	-754.72	1,693.32	1,655.28	38.04	44.512		
7,900.00	7,819.15	7,613.01	7,573.50	31.54	28.30	-86.96	19.55	-768.45	1,707.09	1,668.56	38.53	44.300		
8,000.00	7,919.15	7,712.03	7,671.56	31.84	28.70	-87.03	18.26	-782.17	1,720.87	1,681.84	39.03	44.093		
8,100.00	8,019.15	7,811.06	7,769.62	32.15	29.11	-87.10	16.97	-795.90	1,734.65	1,695.13	39.52	43.891		
8,200.00	8,119.15	7,910.08	7,867.68	32.46	29.52	-87.16	15.69	-809.62	1,748.43	1,708.41	40.02	43.693		
8,300.00	8,219.15	8,009.11	7,965.74	32.77	29.92	-87.23	14.40	-823.35	1,762.21	1,721.70	40.51	43.499		
8,400.00	8,319.15	8,108.14	8,063.81	33.08	30.33	-87.29	13.11	-837.07	1,776.00	1,734.99	41.01	43.310		
8,500.00	8,419.15	8,207.16	8,161.87	33.39	30.74	-87.35	11.83	-850.80	1,789.78	1,748.28	41.50	43.124		
8,600.00	8,519.15	8,306.19	8,259.93	33.71	31.15	-87.42	10.54	-864.53	1,803.57	1,761.57	42.00	42.943		
8,700.00	8,619.15	8,405.22	8,357.99	34.02	31.55	-87.48	9.25	-878.25	1,817.37	1,774.87	42.50	42.765		
8,800.00	8,719.15	8,504.24	8,456.05	34.33	31.96	-87.54	7.97	-891.98	1,831.16	1,788.16	42.99	42.592		
8,900.00	8,819.15	8,603.27	8,554.12	34.65	32.37	-87.59	6.68	-905.70	1,844.95	1,801.46	43.49	42.421		
9,000.00	8,919.15	8,702.29	8,652.18	34.97	32.78	-87.65	5.39	-919.43	1,858.75	1,814.76	43.99	42.255		
9,100.00	9,019.15	8,801.32	8,750.24	35.28	33.19	-87.71	4.11	-933.15	1,872.55	1,828.06	44.49	42.092		
9,200.00	9,119.15	8,900.35	8,848.30	35.60	33.60	-87.77	2.82	-946.88	1,886.35	1,841.36	44.99	41.932		
9,300.00	9,219.15	9,027.00	8,973.78	35.92	34.12	-87.84	1.21	-964.03	1,899.95	1,854.32	45.63	41.638		
9,400.00	9,319.15	9,223.87	9,169.66	36.24	34.88	-87.91	-0.61	-983.44	1,909.77	1,863.20	46.57	41.005		
9,500.00	9,419.15	9,422.24	9,367.78	36.56	35.59	-87.95	-1.49	-992.82	1,914.48	1,867.06	47.42	40.373		
9,600.00	9,519.15	9,563.11	9,508.65	36.88	36.06	-87.95	-1.57	-993.70	1,914.92	1,866.90	48.02	39.875		
9,608.53	9,527.68	9,571.64	9,517.18	36.91	36.09	-87.95	-1.57	-993.70	1,914.92	1,866.86	48.07	39.840		
9,700.00	9,619.15	9,660.45	9,605.99	37.20	36.38	-87.94	-1.32	-993.70	1,914.94	1,866.44	48.50	39.482		
9,800.00	9,719.15	9,745.84	9,690.84	37.53	36.65	-87.68	7.55	-993.80	1,915.45	1,866.51	48.94	39.137		
9,900.00	9,819.15	9,826.90	9,769.32	37.85	36.90	-87.08	27.54	-994.02	1,916.91	1,867.55	49.36	38.836		
10,000.00	9,919.15	9,900.00	9,837.05	38.17	37.11	-86.27	54.90	-994.32	1,919.73	1,869.99	49.74	38.596		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Georgetown Fed Com 301H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.00	10,019.15	9,966.99	9,895.61	38.50	37.27	-85.30	87.37	-994.68	1,924.46	1,874.38	50.08	38.429		
10,200.00	10,119.15	10,024.58	9,942.63	38.82	37.41	-84.32	120.57	-995.05	1,931.65	1,881.29	50.36	38.357		
10,300.00	10,219.15	10,074.34	9,980.40	39.15	37.51	-83.36	152.94	-995.40	1,941.79	1,891.22	50.58	38.391		
10,400.00	10,319.15	10,117.16	10,010.55	39.47	37.59	-82.47	183.33	-995.74	1,955.27	1,904.55	50.72	38.548		
10,500.00	10,419.15	10,150.00	10,032.08	39.80	37.65	-81.74	208.12	-996.01	1,972.37	1,921.59	50.78	38.844		
10,600.00	10,519.15	10,185.80	10,053.90	40.13	37.71	-80.91	236.49	-996.32	1,993.24	1,942.45	50.79	39.243		
10,700.00	10,619.15	10,213.35	10,069.46	40.45	37.76	-80.25	259.22	-996.57	2,018.01	1,967.29	50.72	39.787		
10,800.00	10,719.15	10,250.00	10,088.43	40.78	37.82	-79.35	290.57	-996.92	2,046.77	1,996.12	50.65	40.414		
10,900.00	10,819.15	10,250.00	10,088.43	41.11	37.82	-79.35	290.57	-996.92	2,079.25	2,028.91	50.34	41.301		
11,000.00	10,919.15	10,276.90	10,101.06	41.44	37.86	-78.66	314.32	-997.18	2,115.53	2,065.39	50.14	42.192		
11,100.00	11,019.15	10,300.00	10,111.00	41.77	37.90	-78.07	335.16	-997.41	2,155.55	2,105.66	49.89	43.210		
11,200.00	11,119.15	10,300.00	10,111.00	42.10	37.90	-78.07	335.16	-997.41	2,199.07	2,149.59	49.48	44.441		
11,300.00	11,219.15	10,321.01	10,119.31	42.43	37.94	-77.52	354.46	-997.62	2,245.90	2,196.73	49.18	45.668		
11,400.00	11,319.15	10,350.00	10,129.60	42.76	37.99	-76.75	381.56	-997.92	2,296.18	2,247.28	48.91	46.951		
11,500.00	11,419.15	10,350.00	10,129.60	43.09	37.99	-76.75	381.56	-997.92	2,349.10	2,300.62	48.48	48.458		
11,600.00	11,519.15	10,350.00	10,129.60	43.43	37.99	-76.75	381.56	-997.92	2,405.01	2,356.96	48.05	50.051		
11,700.00	11,619.15	10,350.00	10,129.60	43.76	37.99	-76.75	381.56	-997.92	2,463.71	2,416.08	47.63	51.722		
11,800.00	11,719.15	10,369.91	10,135.87	44.09	38.03	-76.22	400.45	-998.13	2,524.71	2,477.37	47.33	53.337		
11,900.00	11,819.15	10,377.29	10,138.03	44.42	38.04	-76.02	407.50	-998.21	2,588.15	2,541.16	46.99	55.084		
11,932.89	11,852.04	10,379.58	10,138.68	44.53	38.05	-75.96	409.71	-998.23	2,609.49	2,562.62	46.87	55.670		
11,950.00	11,869.15	10,380.81	10,139.03	44.59	38.05	-71.13	410.88	-998.24	2,620.63	2,573.81	46.82	55.976		
12,000.00	11,918.99	10,400.00	10,144.09	44.75	38.09	-66.74	429.39	-998.45	2,652.95	2,606.23	46.72	56.779		
12,050.00	11,968.33	10,400.00	10,144.09	44.91	38.09	-63.11	429.39	-998.45	2,684.22	2,637.69	46.53	57.683		
12,100.00	12,016.79	10,400.00	10,144.09	45.06	38.09	-59.77	429.39	-998.45	2,714.51	2,668.17	46.34	58.572		
12,150.00	12,063.99	10,400.00	10,144.09	45.21	38.09	-56.72	429.39	-998.45	2,743.63	2,697.47	46.16	59.441		
12,200.00	12,109.58	10,400.00	10,144.09	45.34	38.09	-53.98	429.39	-998.45	2,771.40	2,725.43	45.97	60.284		
12,250.00	12,153.20	10,400.00	10,144.09	45.46	38.09	-51.52	429.39	-998.45	2,797.65	2,751.86	45.79	61.095		
12,300.00	12,194.54	10,424.02	10,149.55	45.57	38.14	-49.06	452.78	-998.70	2,821.76	2,776.03	45.73	61.710		
12,350.00	12,233.27	10,450.00	10,154.35	45.67	38.20	-46.91	478.31	-998.99	2,844.39	2,798.72	45.67	62.284		
12,400.00	12,269.10	10,450.00	10,154.35	45.76	38.20	-45.33	478.31	-998.99	2,864.49	2,818.98	45.51	62.944		
12,450.00	12,301.75	10,450.00	10,154.35	45.83	38.20	-43.97	478.31	-998.99	2,882.50	2,837.14	45.36	63.546		
12,500.00	12,330.98	10,450.00	10,154.35	45.90	38.20	-42.83	478.31	-998.99	2,898.33	2,853.10	45.23	64.084		
12,550.00	12,356.57	10,450.00	10,154.35	45.96	38.20	-41.88	478.31	-998.99	2,911.88	2,866.77	45.11	64.550		
12,600.00	12,378.31	10,478.50	10,158.28	46.01	38.27	-40.99	506.53	-999.30	2,922.42	2,877.30	45.12	64.777		
12,650.00	12,396.05	10,500.00	10,160.31	46.06	38.33	-40.37	527.93	-999.53	2,930.80	2,885.69	45.11	64.974		
12,700.00	12,409.66	10,500.00	10,160.31	46.11	38.33	-40.01	527.93	-999.53	2,936.33	2,891.28	45.05	65.182		
12,750.00	12,419.01	10,500.00	10,160.31	46.17	38.33	-39.81	527.93	-999.53	2,939.38	2,894.37	45.01	65.299		
12,800.00	12,424.05	10,500.00	10,160.31	46.24	38.33	-39.77	527.93	-999.53	2,939.94	2,894.93	45.01	65.323		
12,832.89	12,425.00	10,525.19	10,161.67	46.30	38.40	-39.84	553.08	-999.81	2,938.40	2,893.32	45.09	65.173		
12,900.00	12,425.00	10,550.00	10,161.92	46.43	38.47	-39.87	577.89	-1,000.08	2,935.90	2,890.71	45.19	64.963		
12,946.20	12,425.00	10,550.00	10,161.92	46.55	38.47	-39.88	577.89	-1,000.08	2,935.30	2,890.05	45.25	64.873		
12,971.32	12,425.00	10,553.24	10,161.87	46.62	38.48	-39.87	581.13	-1,000.12	2,935.47	2,890.18	45.29	64.819		
13,000.00	12,425.00	10,569.98	10,161.51	46.71	38.54	-39.87	597.86	-1,000.30	2,935.93	2,890.56	45.37	64.713		
13,100.00	12,425.00	10,669.96	10,159.27	47.06	38.91	-39.84	697.81	-1,001.40	2,937.65	2,891.87	45.78	64.167		
13,200.00	12,425.00	10,769.93	10,157.04	47.49	39.36	-39.81	797.75	-1,002.50	2,939.36	2,893.11	46.25	63.551		
13,300.00	12,425.00	10,869.91	10,154.80	47.98	39.89	-39.79	897.69	-1,003.60	2,941.08	2,894.30	46.78	62.871		
13,400.00	12,425.00	10,969.88	10,152.57	48.53	40.48	-39.76	997.64	-1,004.71	2,942.80	2,895.44	47.36	62.134		
13,500.00	12,425.00	11,069.86	10,150.34	49.13	41.13	-39.73	1,097.58	-1,005.81	2,944.52	2,896.52	48.00	61.347		
13,600.00	12,425.00	11,169.83	10,148.10	49.79	41.85	-39.70	1,197.53	-1,006.91	2,946.24	2,897.55	48.68	60.518		
13,700.00	12,425.00	11,269.81	10,145.87	50.49	42.62	-39.68	1,297.47	-1,008.01	2,947.95	2,898.54	49.42	59.653		
13,800.00	12,425.00	11,369.78	10,143.63	51.24	43.43	-39.65	1,397.41	-1,009.11	2,949.68	2,899.48	50.20	58.759		
13,900.00	12,425.00	11,469.76	10,141.40	52.03	44.30	-39.62	1,497.36	-1,010.21	2,951.40	2,900.37	51.02	57.842		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Georgetown Fed Com 301H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	12,425.00	11,569.73	10,139.16	52.87	45.21	-39.59	1,597.30	-1,011.31	2,953.12	2,901.23	51.89	56.909		
14,100.00	12,425.00	11,669.71	10,136.93	53.74	46.16	-39.56	1,697.25	-1,012.41	2,954.84	2,902.04	52.80	55.964		
14,200.00	12,425.00	11,769.68	10,134.69	54.65	47.15	-39.54	1,797.19	-1,013.51	2,956.56	2,902.82	53.74	55.012		
14,300.00	12,425.00	11,869.66	10,132.46	55.59	48.18	-39.51	1,897.13	-1,014.61	2,958.29	2,903.56	54.72	54.058		
14,400.00	12,425.00	11,969.63	10,130.22	56.57	49.24	-39.48	1,997.08	-1,015.71	2,960.01	2,904.27	55.74	53.106		
14,500.00	12,425.00	12,069.61	10,127.99	57.57	50.33	-39.45	2,097.02	-1,016.81	2,961.74	2,904.96	56.78	52.161		
14,600.00	12,425.00	12,169.58	10,125.75	58.61	51.45	-39.43	2,196.97	-1,017.91	2,963.46	2,905.61	57.85	51.224		
14,700.00	12,425.00	12,269.56	10,123.52	59.67	52.60	-39.40	2,296.91	-1,019.01	2,965.19	2,906.24	58.95	50.296		
14,800.00	12,425.00	12,369.53	10,121.28	60.76	53.78	-39.37	2,396.85	-1,020.12	2,966.92	2,906.83	60.08	49.381		
14,900.00	12,425.00	12,469.51	10,119.05	61.88	54.98	-39.34	2,496.80	-1,021.22	2,968.64	2,907.41	61.23	48.480		
15,000.00	12,425.00	12,569.48	10,116.82	63.02	56.20	-39.32	2,596.74	-1,022.32	2,970.37	2,907.96	62.41	47.595		
15,100.00	12,425.00	12,669.46	10,114.58	64.18	57.45	-39.29	2,696.69	-1,023.42	2,972.10	2,908.50	63.61	46.726		
15,200.00	12,425.00	12,769.43	10,112.35	65.36	58.71	-39.26	2,796.63	-1,024.52	2,973.83	2,909.01	64.83	45.875		
15,300.00	12,425.00	12,869.41	10,110.11	66.56	60.00	-39.24	2,896.57	-1,025.62	2,975.56	2,909.50	66.06	45.041		
15,400.00	12,425.00	12,969.38	10,107.88	67.78	61.30	-39.21	2,996.52	-1,026.72	2,977.29	2,909.98	67.32	44.227		
15,500.00	12,425.00	13,069.36	10,105.64	69.02	62.62	-39.18	3,096.46	-1,027.82	2,979.03	2,910.43	68.59	43.431		
15,600.00	12,425.00	13,169.33	10,103.41	70.28	63.95	-39.15	3,196.41	-1,028.92	2,980.76	2,910.88	69.88	42.654		
15,700.00	12,425.00	13,269.31	10,101.17	71.55	65.30	-39.13	3,296.35	-1,030.02	2,982.49	2,911.31	71.19	41.897		
15,800.00	12,425.00	13,369.28	10,098.94	72.84	66.66	-39.10	3,396.29	-1,031.12	2,984.23	2,911.72	72.50	41.160		
15,900.00	12,425.00	13,469.26	10,096.70	74.14	68.04	-39.07	3,496.24	-1,032.22	2,985.96	2,912.13	73.83	40.443		
16,000.00	12,425.00	13,569.23	10,094.47	75.46	69.42	-39.05	3,596.18	-1,033.32	2,987.70	2,912.52	75.17	39.744		
16,100.00	12,425.00	13,669.21	10,092.23	76.79	70.82	-39.02	3,696.13	-1,034.43	2,989.43	2,912.90	76.53	39.064		
16,200.00	12,425.00	13,769.18	10,090.00	78.13	72.23	-38.99	3,796.07	-1,035.53	2,991.17	2,913.28	77.89	38.401		
16,300.00	12,425.00	13,869.16	10,087.76	79.48	73.65	-38.96	3,896.01	-1,036.63	2,992.91	2,913.64	79.27	37.757		
16,400.00	12,425.00	13,969.13	10,085.53	80.85	75.08	-38.94	3,995.96	-1,037.73	2,994.64	2,913.99	80.65	37.131		
16,500.00	12,425.00	14,069.11	10,083.29	82.22	76.52	-38.91	4,095.90	-1,038.83	2,996.38	2,914.34	82.04	36.522		
16,600.00	12,425.00	14,169.08	10,081.06	83.61	77.96	-38.88	4,195.85	-1,039.93	2,998.12	2,914.68	83.45	35.929		
16,700.00	12,425.00	14,269.06	10,078.83	85.00	79.42	-38.86	4,295.79	-1,041.03	2,999.86	2,915.01	84.86	35.353		
16,800.00	12,425.00	14,369.03	10,076.59	86.40	80.88	-38.83	4,395.73	-1,042.13	3,001.60	2,915.33	86.27	34.792		
16,900.00	12,425.00	14,469.01	10,074.36	87.82	82.35	-38.80	4,495.68	-1,043.23	3,003.34	2,915.65	87.70	34.247		
17,000.00	12,425.00	14,568.98	10,072.12	89.24	83.82	-38.78	4,595.62	-1,044.33	3,005.08	2,915.96	89.13	33.717		
17,100.00	12,425.00	14,668.96	10,069.89	90.66	85.31	-38.75	4,695.57	-1,045.43	3,006.83	2,916.27	90.56	33.202		
17,200.00	12,425.00	14,768.93	10,067.65	92.10	86.79	-38.72	4,795.51	-1,046.53	3,008.57	2,916.57	92.00	32.701		
17,300.00	12,425.00	14,868.91	10,065.42	93.54	88.29	-38.70	4,895.45	-1,047.63	3,010.31	2,916.86	93.45	32.213		
17,400.00	12,425.00	14,968.88	10,063.18	94.99	89.79	-38.67	4,995.40	-1,048.74	3,012.06	2,917.16	94.90	31.739		
17,500.00	12,425.00	15,068.86	10,060.95	96.45	91.29	-38.64	5,095.34	-1,049.84	3,013.80	2,917.44	96.36	31.277		
17,600.00	12,425.00	15,168.83	10,058.71	97.91	92.80	-38.62	5,195.29	-1,050.94	3,015.55	2,917.73	97.82	30.827		
17,700.00	12,425.00	15,268.81	10,056.48	99.38	94.32	-38.59	5,295.23	-1,052.04	3,017.30	2,918.01	99.29	30.389		
17,800.00	12,425.00	15,368.78	10,054.24	100.86	95.84	-38.56	5,395.17	-1,053.14	3,019.04	2,918.28	100.76	29.962		
17,900.00	12,425.00	15,468.76	10,052.01	102.34	97.36	-38.54	5,495.12	-1,054.24	3,020.79	2,918.55	102.24	29.547		
18,000.00	12,425.00	15,568.73	10,049.77	103.82	98.89	-38.51	5,595.06	-1,055.34	3,022.54	2,918.82	103.72	29.142		
18,100.00	12,425.00	15,668.71	10,047.54	105.31	100.42	-38.49	5,695.01	-1,056.44	3,024.29	2,919.09	105.20	28.748		
18,200.00	12,425.00	15,768.68	10,045.31	106.80	101.96	-38.46	5,794.95	-1,057.54	3,026.04	2,919.35	106.68	28.365		
18,300.00	12,425.00	15,868.66	10,043.07	108.30	103.50	-38.43	5,894.89	-1,058.64	3,027.79	2,919.62	108.17	27.991		
18,400.00	12,425.00	15,968.63	10,040.84	109.81	105.04	-38.41	5,994.84	-1,059.74	3,029.54	2,919.88	109.66	27.627		
18,500.00	12,425.00	16,068.61	10,038.60	111.32	106.59	-38.38	6,094.78	-1,060.84	3,031.29	2,920.14	111.15	27.271		
18,600.00	12,425.00	16,168.58	10,036.37	112.83	108.14	-38.35	6,194.73	-1,061.94	3,033.04	2,920.39	112.65	26.925		
18,700.00	12,425.00	16,268.56	10,034.13	114.34	109.69	-38.33	6,294.67	-1,063.04	3,034.80	2,920.65	114.15	26.587		
18,800.00	12,425.00	16,368.53	10,031.90	115.86	111.24	-38.30	6,394.61	-1,064.15	3,036.55	2,920.90	115.64	26.258		
18,900.00	12,425.00	16,468.51	10,029.66	117.39	112.80	-38.28	6,494.56	-1,065.25	3,038.30	2,921.16	117.14	25.936		
19,000.00	12,425.00	16,568.48	10,027.43	118.91	114.36	-38.25	6,594.50	-1,066.35	3,040.06	2,921.41	118.65	25.623		
19,100.00	12,425.00	16,668.46	10,025.19	120.44	115.93	-38.22	6,694.45	-1,067.45	3,041.81	2,921.66	120.15	25.316		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Georgetown Fed Com 301H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,200.00	12,425.00	16,768.43	10,022.96	121.98	117.49	-38.20	6,794.39	-1,068.55	3,043.57	2,921.91	121.66	25.017		
19,300.00	12,425.00	16,868.41	10,020.72	123.51	119.06	-38.17	6,894.33	-1,069.65	3,045.33	2,922.16	123.17	24.725		
19,400.00	12,425.00	16,968.38	10,018.49	125.05	120.63	-38.14	6,994.28	-1,070.75	3,047.08	2,922.41	124.68	24.440		
19,500.00	12,425.00	17,068.36	10,016.25	126.60	122.20	-38.12	7,094.22	-1,071.85	3,048.84	2,922.66	126.18	24.162		
19,600.00	12,425.00	17,168.33	10,014.02	128.14	123.78	-38.09	7,194.17	-1,072.95	3,050.60	2,922.91	127.69	23.890		
19,700.00	12,425.00	17,268.31	10,011.79	129.69	125.36	-38.07	7,294.11	-1,074.05	3,052.36	2,923.15	129.20	23.624		
19,800.00	12,425.00	17,368.28	10,009.55	131.24	126.93	-38.04	7,394.05	-1,075.15	3,054.12	2,923.40	130.72	23.364		
19,900.00	12,425.00	17,468.26	10,007.32	132.79	128.51	-38.02	7,494.00	-1,076.25	3,055.88	2,923.65	132.23	23.110		
20,000.00	12,425.00	17,568.23	10,005.08	134.35	130.10	-37.99	7,593.94	-1,077.35	3,057.64	2,923.89	133.75	22.861		
20,100.00	12,425.00	17,668.21	10,002.85	135.91	131.68	-37.96	7,693.89	-1,078.46	3,059.40	2,924.14	135.26	22.618		
20,200.00	12,425.00	17,768.18	10,000.61	137.47	133.27	-37.94	7,793.83	-1,079.56	3,061.16	2,924.38	136.78	22.380		
20,300.00	12,425.00	17,868.16	9,998.38	139.03	134.85	-37.91	7,893.77	-1,080.66	3,062.93	2,924.63	138.30	22.147		
20,400.00	12,425.00	17,968.13	9,996.14	140.59	136.44	-37.89	7,993.72	-1,081.76	3,064.69	2,924.87	139.82	21.919		
20,500.00	12,425.00	18,068.11	9,993.91	142.16	138.03	-37.86	8,093.66	-1,082.86	3,066.45	2,925.12	141.33	21.697		
20,600.00	12,425.00	18,168.08	9,991.67	143.73	139.63	-37.84	8,193.60	-1,083.96	3,068.22	2,925.37	142.85	21.479		
20,700.00	12,425.00	18,268.06	9,989.44	145.30	141.22	-37.81	8,293.55	-1,085.06	3,069.98	2,925.62	144.37	21.265		
20,800.00	12,425.00	18,368.03	9,987.20	146.87	142.81	-37.78	8,393.49	-1,086.16	3,071.75	2,925.87	145.88	21.056		
20,900.00	12,425.00	18,468.01	9,984.97	148.44	144.41	-37.76	8,493.44	-1,087.26	3,073.52	2,926.11	147.40	20.851		
21,000.00	12,425.00	18,567.98	9,982.73	150.02	146.01	-37.73	8,593.38	-1,088.36	3,075.28	2,926.36	148.92	20.651		
21,100.00	12,425.00	18,667.96	9,980.50	151.59	147.61	-37.71	8,693.32	-1,089.46	3,077.05	2,926.61	150.44	20.454		
21,200.00	12,425.00	18,767.93	9,978.27	153.17	149.20	-37.68	8,793.27	-1,090.56	3,078.82	2,926.86	151.96	20.261		
21,300.00	12,425.00	18,867.91	9,976.03	154.75	150.81	-37.66	8,893.21	-1,091.66	3,080.59	2,927.11	153.48	20.072		
21,400.00	12,425.00	18,967.88	9,973.80	156.33	152.41	-37.63	8,993.16	-1,092.77	3,082.36	2,927.36	155.00	19.886		
21,500.00	12,425.00	19,067.86	9,971.56	157.92	154.01	-37.61	9,093.10	-1,093.87	3,084.13	2,927.61	156.52	19.705		
21,600.00	12,425.00	19,167.83	9,969.33	159.50	155.61	-37.58	9,193.04	-1,094.97	3,085.90	2,927.86	158.04	19.527		
21,700.00	12,425.00	19,267.81	9,967.09	161.09	157.22	-37.56	9,292.99	-1,096.07	3,087.67	2,928.11	159.56	19.352		
21,800.00	12,425.00	19,367.78	9,964.86	162.67	158.83	-37.53	9,392.93	-1,097.17	3,089.44	2,928.37	161.07	19.180		
21,900.00	12,425.00	19,467.76	9,962.62	164.26	160.43	-37.50	9,492.88	-1,098.27	3,091.21	2,928.63	162.59	19.012		
22,000.00	12,425.00	19,567.73	9,960.39	165.85	162.04	-37.48	9,592.82	-1,099.37	3,092.99	2,928.88	164.11	18.848		
22,100.00	12,425.00	19,667.71	9,958.15	167.44	163.65	-37.45	9,692.76	-1,100.47	3,094.76	2,929.14	165.62	18.686		
22,200.00	12,425.00	19,767.68	9,955.92	169.03	165.26	-37.43	9,792.71	-1,101.57	3,096.54	2,929.40	167.14	18.527		
22,300.00	12,425.00	19,867.66	9,953.68	170.63	166.87	-37.40	9,892.65	-1,102.67	3,098.31	2,929.65	168.66	18.371		
22,400.00	12,425.00	19,967.63	9,951.45	172.22	168.48	-37.38	9,992.60	-1,103.77	3,100.09	2,929.91	170.17	18.217		
22,506.08	12,425.00	20,073.69	9,949.08	173.92	170.19	-37.35	10,098.62	-1,104.94	3,101.97	2,930.19	171.78	18.058 SF		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Georgetown Fed Com 601H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-65.08	73.74	-158.71	175.28					
100.00	100.00	90.10	90.10	0.13	0.13	-65.08	73.74	-158.71	175.00	174.83	0.18	978.031		
200.00	200.00	190.10	190.10	0.48	0.46	-65.08	73.74	-158.71	175.00	174.33	0.67	260.872		
300.00	300.00	290.10	290.10	0.84	0.82	-65.08	73.74	-158.71	175.00	173.83	1.18	148.594		
400.00	400.00	390.10	390.10	1.20	1.18	-65.08	73.74	-158.71	175.00	173.32	1.68	103.880		
500.00	500.00	490.10	490.10	1.56	1.54	-65.08	73.74	-158.71	175.00	172.81	2.19	79.852		
600.00	600.00	590.10	590.10	1.92	1.90	-65.08	73.74	-158.71	175.00	172.31	2.70	64.851		
700.00	700.00	690.10	690.10	2.28	2.26	-65.08	73.74	-158.71	175.00	171.80	3.21	54.595		
800.00	800.00	790.10	790.10	2.63	2.62	-65.08	73.74	-158.71	175.00	171.29	3.71	47.140		
900.00	900.00	890.10	890.10	2.99	2.97	-65.08	73.74	-158.71	175.00	170.78	4.22	41.476		
1,000.00	1,000.00	990.10	990.10	3.35	3.33	-65.08	73.74	-158.71	175.00	170.28	4.73	37.027		
1,100.00	1,100.00	1,090.10	1,090.10	3.71	3.69	-65.08	73.74	-158.71	175.00	169.77	5.23	33.440		
1,200.00	1,200.00	1,190.10	1,190.10	4.07	4.05	-65.08	73.74	-158.71	175.00	169.26	5.74	30.487		
1,300.00	1,300.00	1,290.10	1,290.10	4.43	4.41	-65.08	73.74	-158.71	175.00	168.76	6.25	28.013		
1,400.00	1,400.00	1,390.10	1,390.10	4.79	4.77	-65.08	73.74	-158.71	175.00	168.25	6.75	25.910		
1,500.00	1,500.00	1,490.10	1,490.10	5.14	5.12	-65.08	73.74	-158.71	175.00	167.74	7.26	24.101 CC, ES		
1,600.00	1,599.99	1,590.09	1,590.09	5.49	5.48	-159.57	73.74	-158.71	176.23	168.47	7.76	22.706		
1,700.00	1,699.91	1,690.01	1,690.01	5.84	5.84	-159.99	73.74	-158.71	179.91	171.66	8.26	21.792		
1,800.00	1,799.69	1,789.79	1,789.79	6.18	6.20	-160.65	73.74	-158.71	186.07	177.32	8.75	21.261		
1,900.00	1,899.27	1,889.37	1,889.37	6.53	6.56	-161.50	73.74	-158.71	194.73	185.49	9.25	21.056		
2,000.00	1,998.57	1,988.67	1,988.67	6.89	6.91	-162.49	73.74	-158.71	205.92	196.17	9.75	21.130		
2,100.00	2,097.54	2,087.64	2,087.64	7.26	7.27	-163.55	73.74	-158.71	219.66	209.41	10.24	21.446		
2,200.03	2,196.12	2,186.22	2,186.22	7.64	7.62	-164.65	73.74	-158.71	235.97	225.23	10.74	21.972		
2,300.00	2,294.41	2,284.51	2,284.51	8.03	7.97	-165.74	73.74	-158.71	253.60	242.36	11.24	22.571		
2,400.00	2,392.74	2,382.84	2,382.84	8.42	8.32	-166.69	73.74	-158.71	271.32	259.58	11.73	23.124		
2,500.00	2,491.06	2,481.16	2,481.16	8.83	8.68	-167.52	73.74	-158.71	289.10	276.86	12.23	23.636		
2,600.00	2,589.39	2,579.49	2,579.49	9.24	9.03	-168.25	73.74	-158.71	306.93	294.20	12.73	24.109		
2,700.00	2,687.72	2,677.82	2,677.82	9.65	9.38	-168.91	73.74	-158.71	324.80	311.57	13.23	24.547		
2,800.00	2,786.04	2,776.14	2,776.14	10.07	9.73	-169.49	73.74	-158.71	342.72	328.98	13.73	24.955		
2,900.00	2,884.37	2,874.47	2,874.47	10.49	10.09	-170.02	73.74	-158.71	360.66	346.42	14.24	25.334		
3,000.00	2,982.69	2,972.79	2,972.79	10.92	10.44	-170.50	73.74	-158.71	378.63	363.89	14.74	25.688		
3,100.00	3,081.02	3,071.12	3,071.12	11.35	10.79	-170.93	73.74	-158.71	396.62	381.38	15.24	26.018		
3,200.00	3,179.34	3,169.44	3,169.44	11.78	11.14	-171.33	73.74	-158.71	414.64	398.89	15.75	26.328		
3,300.00	3,277.67	3,267.77	3,267.77	12.21	11.50	-171.69	73.74	-158.71	432.67	416.41	16.25	26.619		
3,400.00	3,375.99	3,366.09	3,366.09	12.65	11.85	-172.03	73.74	-158.71	450.71	433.95	16.76	26.892		
3,500.00	3,474.32	3,457.86	3,457.86	13.09	12.17	-172.34	73.66	-159.14	469.22	451.99	17.24	27.224		
3,600.00	3,572.64	3,545.52	3,545.49	13.53	12.47	-172.70	73.22	-161.43	489.71	472.03	17.68	27.695		
3,700.00	3,670.97	3,632.31	3,632.17	13.97	12.77	-173.12	72.41	-165.65	512.29	494.18	18.11	28.281		
3,800.00	3,769.29	3,718.16	3,717.79	14.41	13.06	-173.58	71.24	-171.72	536.94	518.41	18.54	28.967		
3,900.00	3,867.62	3,800.00	3,799.27	14.86	13.34	-174.06	69.80	-179.26	563.66	544.73	18.93	29.781		
4,000.00	3,965.94	3,889.67	3,888.34	15.30	13.65	-174.60	67.85	-189.42	592.32	572.96	19.37	30.584		
4,100.00	4,064.27	3,985.12	3,983.08	15.75	13.99	-175.15	65.66	-200.85	621.62	601.77	19.85	31.317		
4,200.00	4,162.60	4,080.57	4,077.82	16.20	14.33	-175.65	63.47	-212.27	650.96	630.63	20.33	32.014		
4,300.00	4,260.92	4,176.02	4,172.56	16.65	14.67	-176.11	61.27	-223.69	680.35	659.53	20.82	32.680		
4,400.00	4,359.25	4,271.47	4,267.30	17.09	15.01	-176.53	59.08	-235.11	709.77	688.46	21.31	33.314		
4,500.00	4,457.57	4,366.92	4,362.04	17.55	15.35	-176.91	56.89	-246.53	739.22	717.43	21.79	33.920		
4,600.00	4,555.90	4,462.38	4,456.78	18.00	15.70	-177.27	54.70	-257.95	768.70	746.42	22.28	34.498		
4,700.00	4,654.22	4,557.83	4,551.52	18.45	16.05	-177.60	52.51	-269.38	798.21	775.44	22.77	35.052		
4,800.00	4,752.55	4,653.28	4,646.25	18.90	16.40	-177.91	50.32	-280.80	827.74	804.47	23.26	35.581		
4,900.00	4,850.87	4,748.73	4,740.99	19.35	16.75	-178.19	48.13	-292.22	857.29	833.53	23.76	36.088		
5,000.00	4,949.20	4,844.18	4,835.73	19.81	17.11	-178.46	45.94	-303.64	886.85	862.61	24.25	36.574		
5,100.00	5,047.52	4,939.63	4,930.47	20.26	17.46	-178.71	43.74	-315.06	916.44	891.70	24.74	37.040		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Georgetown Fed Com 601H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,145.85	5,035.08	5,025.21	20.72	17.82	-178.94	41.55	-326.48	946.04	920.80	25.24	37.487		
5,300.00	5,244.17	5,130.53	5,119.95	21.17	18.18	-179.16	39.36	-337.90	975.65	949.92	25.73	37.916		
5,400.00	5,342.50	5,225.98	5,214.69	21.63	18.54	-179.37	37.17	-349.33	1,005.27	979.05	26.23	38.328		
5,500.00	5,440.82	5,321.43	5,309.43	22.08	18.90	-179.56	34.98	-360.75	1,034.91	1,008.19	26.72	38.725		
5,600.00	5,539.15	5,416.88	5,404.17	22.54	19.26	-179.75	32.79	-372.17	1,064.56	1,037.33	27.22	39.107		
5,700.00	5,637.48	5,512.33	5,498.91	22.99	19.62	-179.92	30.60	-383.59	1,094.21	1,066.49	27.72	39.474		
5,800.00	5,735.80	5,607.78	5,593.64	23.45	19.99	179.91	28.41	-395.01	1,123.88	1,095.66	28.22	39.828		
5,900.00	5,834.13	5,703.23	5,688.38	23.91	20.35	179.76	26.22	-406.43	1,153.55	1,124.83	28.72	40.169		
6,000.00	5,932.45	5,798.68	5,783.12	24.37	20.72	179.61	24.02	-417.85	1,183.23	1,154.01	29.22	40.499		
6,100.00	6,030.78	5,894.13	5,877.86	24.82	21.09	179.47	21.83	-429.28	1,212.92	1,183.20	29.72	40.816		
6,200.00	6,129.10	5,989.58	5,972.60	25.28	21.45	179.33	19.64	-440.70	1,242.61	1,212.39	30.22	41.123		
6,300.00	6,227.43	6,085.03	6,067.34	25.74	21.82	179.20	17.45	-452.12	1,272.31	1,241.59	30.72	41.419		
6,400.00	6,325.75	6,180.48	6,162.08	26.20	22.19	179.08	15.26	-463.54	1,302.01	1,270.79	31.22	41.705		
6,500.00	6,424.08	6,275.93	6,256.82	26.66	22.56	178.96	13.07	-474.96	1,331.72	1,300.00	31.72	41.982		
6,560.82	6,483.88	6,333.98	6,314.44	26.94	22.79	178.89	11.74	-481.91	1,349.80	1,317.77	32.03	42.146		
6,600.00	6,522.44	6,371.44	6,351.61	27.11	22.93	178.85	10.88	-486.39	1,361.25	1,329.02	32.22	42.244		
6,700.00	6,621.16	6,467.55	6,447.01	27.55	23.31	178.75	8.67	-497.89	1,388.73	1,356.00	32.73	42.436		
6,800.00	6,720.27	6,564.35	6,543.09	27.97	23.69	178.66	6.45	-509.47	1,413.69	1,380.46	33.23	42.546		
6,900.00	6,819.68	6,661.76	6,639.78	28.36	24.07	178.56	4.21	-521.13	1,436.11	1,402.38	33.73	42.577		
7,000.00	6,919.35	6,759.73	6,737.02	28.73	24.45	178.46	1.96	-532.85	1,455.98	1,421.75	34.23	42.534		
7,100.00	7,019.20	6,858.18	6,834.74	29.08	24.83	178.36	-0.30	-544.63	1,473.28	1,438.55	34.73	42.420		
7,200.00	7,119.15	6,957.05	6,932.87	29.41	25.22	178.26	-2.57	-556.47	1,488.01	1,452.78	35.23	42.239		
7,260.85	7,180.00	7,017.39	6,992.76	29.60	25.46	-87.45	-3.95	-563.69	1,495.71	1,460.18	35.53	42.099		
7,300.00	7,219.15	7,056.25	7,031.32	29.72	25.61	-87.49	-4.85	-568.33	1,500.35	1,464.63	35.72	42.004		
7,400.00	7,319.15	7,155.50	7,129.84	30.02	26.00	-87.60	-7.12	-580.21	1,512.21	1,476.00	36.21	41.765		
7,500.00	7,419.15	7,254.76	7,228.36	30.32	26.39	-87.71	-9.40	-592.09	1,524.08	1,487.38	36.70	41.531		
7,600.00	7,519.15	7,354.01	7,326.87	30.62	26.78	-87.81	-11.68	-603.97	1,535.95	1,498.76	37.19	41.303		
7,700.00	7,619.15	7,453.27	7,425.39	30.92	27.18	-87.91	-13.96	-615.84	1,547.82	1,510.14	37.68	41.080		
7,800.00	7,719.15	7,552.52	7,523.90	31.23	27.57	-88.01	-16.24	-627.72	1,559.70	1,521.53	38.17	40.863		
7,900.00	7,819.15	7,651.78	7,622.42	31.54	27.96	-88.11	-18.52	-639.60	1,571.59	1,532.93	38.66	40.650		
8,000.00	7,919.15	7,751.03	7,720.93	31.84	28.35	-88.21	-20.79	-651.47	1,583.48	1,544.33	39.15	40.443		
8,100.00	8,019.15	7,850.29	7,819.45	32.15	28.75	-88.30	-23.07	-663.35	1,595.37	1,555.73	39.65	40.240		
8,200.00	8,119.15	7,949.54	7,917.96	32.46	29.14	-88.40	-25.35	-675.23	1,607.27	1,567.13	40.14	40.042		
8,300.00	8,219.15	8,048.80	8,016.48	32.77	29.53	-88.49	-27.63	-687.10	1,619.18	1,578.54	40.63	39.848		
8,400.00	8,319.15	8,148.05	8,114.99	33.08	29.93	-88.58	-29.91	-698.98	1,631.08	1,589.96	41.13	39.658		
8,500.00	8,419.15	8,247.31	8,213.51	33.39	30.32	-88.67	-32.19	-710.86	1,643.00	1,601.37	41.62	39.473		
8,600.00	8,519.15	8,346.56	8,312.03	33.71	30.72	-88.76	-34.47	-722.73	1,654.91	1,612.79	42.12	39.292		
8,700.00	8,619.15	8,445.82	8,410.54	34.02	31.11	-88.85	-36.74	-734.61	1,666.83	1,624.22	42.61	39.114		
8,800.00	8,719.15	8,545.07	8,509.06	34.33	31.51	-88.94	-39.02	-746.49	1,678.75	1,635.64	43.11	38.941		
8,900.00	8,819.15	8,644.33	8,607.57	34.65	31.90	-89.02	-41.30	-758.36	1,690.68	1,647.07	43.61	38.771		
9,000.00	8,919.15	8,743.58	8,706.09	34.97	32.30	-89.10	-43.58	-770.24	1,702.61	1,658.51	44.10	38.605		
9,100.00	9,019.15	8,842.84	8,804.60	35.28	32.69	-89.19	-45.86	-782.12	1,714.54	1,669.94	44.60	38.442		
9,200.00	9,119.15	8,942.09	8,903.12	35.60	33.09	-89.27	-48.14	-793.99	1,726.48	1,681.38	45.10	38.283		
9,300.00	9,219.15	9,041.35	9,001.63	35.92	33.49	-89.35	-50.42	-805.87	1,738.42	1,692.83	45.60	38.126		
9,400.00	9,319.15	9,140.60	9,100.15	36.24	33.88	-89.43	-52.69	-817.75	1,750.37	1,704.27	46.09	37.973		
9,500.00	9,419.15	9,239.86	9,198.67	36.56	34.28	-89.51	-54.97	-829.62	1,762.32	1,715.72	46.59	37.823		
9,600.00	9,519.15	9,339.11	9,297.18	36.88	34.68	-89.59	-57.25	-841.50	1,774.27	1,727.17	47.09	37.677		
9,700.00	9,619.15	9,438.37	9,395.70	37.20	35.08	-89.66	-59.53	-853.38	1,786.22	1,738.63	47.59	37.532		
9,800.00	9,719.15	9,537.62	9,494.21	37.53	35.47	-89.74	-61.81	-865.25	1,798.18	1,750.09	48.09	37.391		
9,900.00	9,819.15	9,636.88	9,592.73	37.85	35.87	-89.81	-64.09	-877.13	1,810.14	1,761.55	48.59	37.253		
10,000.00	9,919.15	9,736.13	9,691.24	38.17	36.27	-89.88	-66.37	-889.01	1,822.10	1,773.01	49.09	37.117		
10,100.00	10,019.15	9,835.39	9,789.76	38.50	36.67	-89.96	-68.64	-900.88	1,834.07	1,784.48	49.59	36.984		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Georgetown Fed Com 601H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.00	10,119.15	9,934.64	9,888.27	38.82	37.07	-90.03	-70.92	-912.76	1,846.04	1,795.94	50.09	36.853		
10,300.00	10,219.15	10,033.90	9,986.79	39.15	37.47	-90.10	-73.20	-924.64	1,858.01	1,807.41	50.59	36.725		
10,400.00	10,319.15	10,133.15	10,085.30	39.47	37.86	-90.17	-75.48	-936.52	1,869.98	1,818.89	51.09	36.599		
10,500.00	10,419.15	10,232.41	10,183.82	39.80	38.26	-90.24	-77.76	-948.39	1,881.96	1,830.36	51.59	36.476		
10,600.00	10,519.15	10,331.66	10,282.34	40.13	38.66	-90.31	-80.04	-960.27	1,893.94	1,841.84	52.10	36.354		
10,700.00	10,619.15	10,490.35	10,440.05	40.45	39.29	-90.40	-83.32	-977.38	1,904.96	1,852.07	52.89	36.020		
10,800.00	10,719.15	10,686.55	10,635.82	40.78	40.01	-90.47	-85.71	-989.85	1,911.32	1,857.56	53.77	35.548		
10,900.00	10,819.15	10,860.01	10,809.25	41.11	40.61	-90.49	-86.26	-992.71	1,912.78	1,858.29	54.49	35.106		
11,000.00	10,919.15	10,960.01	10,909.25	41.44	40.94	-90.49	-86.26	-992.71	1,912.78	1,857.81	54.97	34.795		
11,100.00	11,019.15	11,060.01	11,009.25	41.77	41.27	-90.49	-86.26	-992.71	1,912.78	1,857.32	55.46	34.490		
11,200.00	11,119.15	11,160.01	11,109.25	42.10	41.60	-90.49	-86.26	-992.71	1,912.78	1,856.83	55.95	34.190		
11,300.00	11,219.15	11,260.01	11,209.25	42.43	41.92	-90.49	-86.26	-992.71	1,912.78	1,856.35	56.43	33.894		
11,400.00	11,319.15	11,360.01	11,309.25	42.76	42.25	-90.49	-86.26	-992.71	1,912.78	1,855.86	56.92	33.604		
11,404.50	11,323.65	11,364.52	11,313.75	42.78	42.27	-90.49	-86.26	-992.71	1,912.78	1,855.84	56.94	33.591		
11,500.00	11,419.15	11,458.73	11,407.67	43.09	42.57	-90.31	-80.26	-992.78	1,912.80	1,855.40	57.40	33.323		
11,600.00	11,519.15	11,552.64	11,499.08	43.43	42.86	-89.68	-59.18	-993.01	1,913.07	1,855.21	57.86	33.065		
11,700.00	11,619.15	11,637.72	11,577.93	43.76	43.09	-88.73	-27.42	-993.36	1,914.09	1,855.81	58.27	32.846		
11,800.00	11,719.15	11,712.02	11,642.29	44.09	43.26	-87.62	9.61	-993.77	1,916.59	1,857.95	58.64	32.682		
11,900.00	11,819.15	11,775.44	11,693.04	44.42	43.38	-86.49	47.57	-994.18	1,921.31	1,862.35	58.95	32.590		
11,932.89	11,852.04	11,800.00	11,711.52	44.53	43.43	-86.00	63.74	-994.36	1,923.47	1,864.41	59.06	32.567		
11,950.00	11,869.15	11,800.00	11,711.52	44.59	43.43	-82.48	63.74	-994.36	1,924.67	1,865.60	59.08	32.580		
12,000.00	11,918.99	11,830.83	11,733.71	44.75	43.48	-81.53	85.14	-994.60	1,928.32	1,869.12	59.20	32.571		
12,050.00	11,968.33	11,850.00	11,746.91	44.91	43.51	-80.81	99.04	-994.75	1,932.10	1,872.82	59.28	32.593		
12,100.00	12,016.79	11,885.04	11,769.82	45.06	43.56	-79.83	125.55	-995.04	1,935.84	1,876.45	59.39	32.594		
12,150.00	12,063.99	11,911.95	11,786.28	45.21	43.59	-79.04	146.82	-995.28	1,939.55	1,880.08	59.47	32.615		
12,200.00	12,109.58	11,938.74	11,801.66	45.34	43.62	-78.28	168.76	-995.52	1,943.13	1,883.59	59.53	32.640		
12,250.00	12,153.20	11,965.43	11,815.95	45.46	43.65	-77.58	191.30	-995.77	1,946.50	1,886.91	59.59	32.666		
12,300.00	12,194.54	12,000.00	11,832.87	45.57	43.69	-76.83	221.44	-996.10	1,949.64	1,889.97	59.66	32.677		
12,350.00	12,233.27	12,018.58	11,841.20	45.67	43.71	-76.35	238.05	-996.28	1,952.40	1,892.72	59.68	32.715		
12,400.00	12,269.10	12,050.00	11,854.05	45.76	43.74	-75.78	266.71	-996.60	1,954.81	1,895.08	59.74	32.723		
12,450.00	12,301.75	12,071.49	11,861.93	45.83	43.76	-75.38	286.70	-996.82	1,956.79	1,897.02	59.76	32.742		
12,500.00	12,330.98	12,100.00	11,871.21	45.90	43.79	-75.00	313.65	-997.12	1,958.31	1,898.49	59.82	32.738		
12,550.00	12,356.57	12,124.22	11,878.03	45.96	43.82	-74.72	336.89	-997.37	1,959.32	1,899.46	59.86	32.730		
12,600.00	12,378.31	12,150.00	11,884.21	46.01	43.85	-74.52	361.91	-997.65	1,959.81	1,899.89	59.92	32.705		
12,650.00	12,396.05	12,176.83	11,889.44	46.06	43.89	-74.39	388.22	-997.94	1,959.76	1,899.75	60.00	32.662		
12,700.00	12,409.66	12,200.00	11,892.96	46.11	43.92	-74.35	411.12	-998.19	1,959.14	1,899.06	60.08	32.608		
12,750.00	12,419.01	12,229.36	11,896.08	46.17	43.97	-74.38	440.31	-998.51	1,957.95	1,897.76	60.19	32.527		
12,800.00	12,424.05	12,250.00	11,897.38	46.24	44.00	-74.52	460.91	-998.74	1,956.22	1,895.92	60.30	32.441		
12,832.89	12,425.00	12,272.88	11,897.95	46.30	44.05	-74.64	483.78	-998.99	1,954.75	1,894.34	60.40	32.361		
12,900.00	12,425.00	12,323.30	11,896.88	46.43	44.16	-74.61	534.19	-999.55	1,952.71	1,892.07	60.64	32.202		
12,949.88	12,425.00	12,373.16	11,895.53	46.56	44.29	-74.57	584.02	-1,000.10	1,952.29	1,891.43	60.86	32.076		
12,971.32	12,425.00	12,394.59	11,894.95	46.62	44.35	-74.55	605.44	-1,000.33	1,952.37	1,891.41	60.96	32.026		
13,000.00	12,425.00	12,423.26	11,894.17	46.71	44.44	-74.53	634.10	-1,000.65	1,952.58	1,891.47	61.11	31.954		
13,100.00	12,425.00	12,523.22	11,891.46	47.06	44.81	-74.45	734.02	-1,001.75	1,953.30	1,891.65	61.65	31.681		
13,200.00	12,425.00	12,623.19	11,888.75	47.49	45.24	-74.37	833.94	-1,002.85	1,954.03	1,891.75	62.28	31.375		
13,300.00	12,425.00	12,723.15	11,886.04	47.98	45.74	-74.30	933.86	-1,003.95	1,954.76	1,891.78	62.98	31.038		
13,400.00	12,425.00	12,823.11	11,883.33	48.53	46.30	-74.22	1,033.78	-1,005.05	1,955.50	1,891.75	63.75	30.673		
13,500.00	12,425.00	12,923.08	11,880.62	49.13	46.91	-74.14	1,133.70	-1,006.15	1,956.24	1,891.64	64.59	30.285		
13,600.00	12,425.00	13,023.04	11,877.91	49.79	47.58	-74.07	1,233.62	-1,007.25	1,956.98	1,891.48	65.50	29.876		
13,700.00	12,425.00	13,123.00	11,875.21	50.49	48.29	-73.99	1,333.54	-1,008.36	1,957.72	1,891.25	66.47	29.451		
13,800.00	12,425.00	13,222.97	11,872.50	51.24	49.05	-73.92	1,433.46	-1,009.46	1,958.47	1,890.97	67.51	29.012		
13,900.00	12,425.00	13,322.93	11,869.79	52.03	49.85	-73.84	1,533.38	-1,010.56	1,959.23	1,890.63	68.60	28.562		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Georgetown Fed Com 601H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	12,425.00	13,422.89	11,867.08	52.87	50.70	-73.76	1,633.30	-1,011.66	1,959.98	1,890.24	69.74	28.103		
14,100.00	12,425.00	13,522.86	11,864.37	53.74	51.58	-73.69	1,733.22	-1,012.76	1,960.74	1,889.80	70.94	27.640		
14,200.00	12,425.00	13,622.82	11,861.66	54.65	52.50	-73.61	1,833.14	-1,013.86	1,961.50	1,889.32	72.19	27.173		
14,300.00	12,425.00	13,722.78	11,858.95	55.59	53.46	-73.53	1,933.06	-1,014.96	1,962.27	1,888.79	73.48	26.705		
14,400.00	12,425.00	13,822.75	11,856.24	56.57	54.44	-73.46	2,032.98	-1,016.06	1,963.04	1,888.22	74.82	26.238		
14,500.00	12,425.00	13,922.71	11,853.53	57.57	55.46	-73.38	2,132.91	-1,017.16	1,963.81	1,887.62	76.20	25.773		
14,600.00	12,425.00	14,022.67	11,850.82	58.61	56.51	-73.31	2,232.83	-1,018.26	1,964.59	1,886.98	77.62	25.312		
14,700.00	12,425.00	14,122.64	11,848.11	59.67	57.59	-73.23	2,332.75	-1,019.37	1,965.37	1,886.30	79.07	24.855		
14,800.00	12,425.00	14,222.60	11,845.40	60.76	58.70	-73.16	2,432.67	-1,020.47	1,966.15	1,885.59	80.56	24.405		
14,900.00	12,425.00	14,322.56	11,842.69	61.88	59.83	-73.08	2,532.59	-1,021.57	1,966.94	1,884.85	82.09	23.962		
15,000.00	12,425.00	14,422.53	11,839.98	63.02	60.98	-73.01	2,632.51	-1,022.67	1,967.73	1,884.09	83.64	23.526		
15,100.00	12,425.00	14,522.49	11,837.27	64.18	62.16	-72.93	2,732.43	-1,023.77	1,968.53	1,883.30	85.23	23.098		
15,200.00	12,425.00	14,622.45	11,834.56	65.36	63.35	-72.85	2,832.35	-1,024.87	1,969.32	1,882.49	86.84	22.678		
15,300.00	12,425.00	14,722.42	11,831.85	66.56	64.57	-72.78	2,932.27	-1,025.97	1,970.12	1,881.65	88.47	22.268		
15,400.00	12,425.00	14,822.38	11,829.15	67.78	65.81	-72.70	3,032.19	-1,027.07	1,970.93	1,880.79	90.14	21.866		
15,500.00	12,425.00	14,922.34	11,826.44	69.02	67.06	-72.63	3,132.11	-1,028.17	1,971.74	1,879.91	91.82	21.474		
15,600.00	12,425.00	15,022.31	11,823.73	70.28	68.33	-72.55	3,232.03	-1,029.28	1,972.55	1,879.02	93.53	21.091		
15,700.00	12,425.00	15,122.27	11,821.02	71.55	69.62	-72.48	3,331.95	-1,030.38	1,973.36	1,878.11	95.25	20.717		
15,800.00	12,425.00	15,222.23	11,818.31	72.84	70.92	-72.40	3,431.87	-1,031.48	1,974.18	1,877.18	97.00	20.353		
15,900.00	12,425.00	15,322.20	11,815.60	74.14	72.24	-72.33	3,531.79	-1,032.58	1,975.00	1,876.24	98.76	19.998		
16,000.00	12,425.00	15,422.16	11,812.89	75.46	73.57	-72.25	3,631.71	-1,033.68	1,975.82	1,875.29	100.54	19.653		
16,100.00	12,425.00	15,522.12	11,810.18	76.79	74.91	-72.18	3,731.63	-1,034.78	1,976.65	1,874.32	102.33	19.316		
16,200.00	12,425.00	15,622.09	11,807.47	78.13	76.26	-72.10	3,831.55	-1,035.88	1,977.48	1,873.34	104.14	18.988		
16,300.00	12,425.00	15,722.05	11,804.76	79.48	77.63	-72.03	3,931.47	-1,036.98	1,978.32	1,872.35	105.97	18.669		
16,400.00	12,425.00	15,822.01	11,802.05	80.85	79.01	-71.96	4,031.39	-1,038.08	1,979.16	1,871.35	107.80	18.359		
16,500.00	12,425.00	15,921.98	11,799.34	82.22	80.39	-71.88	4,131.31	-1,039.18	1,980.00	1,870.34	109.65	18.057		
16,600.00	12,425.00	16,021.94	11,796.63	83.61	81.79	-71.81	4,231.24	-1,040.29	1,980.84	1,869.33	111.51	17.763		
16,700.00	12,425.00	16,121.90	11,793.92	85.00	83.20	-71.73	4,331.16	-1,041.39	1,981.69	1,868.30	113.39	17.477		
16,800.00	12,425.00	16,221.86	11,791.21	86.40	84.61	-71.66	4,431.08	-1,042.49	1,982.54	1,867.27	115.27	17.199		
16,900.00	12,425.00	16,321.83	11,788.50	87.82	86.04	-71.58	4,531.00	-1,043.59	1,983.39	1,866.23	117.16	16.929		
17,000.00	12,425.00	16,421.79	11,785.79	89.24	87.47	-71.51	4,630.92	-1,044.69	1,984.25	1,865.19	119.06	16.665		
17,100.00	12,425.00	16,521.75	11,783.09	90.66	88.91	-71.43	4,730.84	-1,045.79	1,985.11	1,864.14	120.97	16.409		
17,200.00	12,425.00	16,621.72	11,780.38	92.10	90.36	-71.36	4,830.76	-1,046.89	1,985.98	1,863.09	122.89	16.160		
17,300.00	12,425.00	16,721.68	11,777.67	93.54	91.81	-71.29	4,930.68	-1,047.99	1,986.85	1,862.03	124.82	15.918		
17,400.00	12,425.00	16,821.64	11,774.96	94.99	93.27	-71.21	5,030.60	-1,049.09	1,987.72	1,860.97	126.75	15.682		
17,500.00	12,425.00	16,921.61	11,772.25	96.45	94.74	-71.14	5,130.52	-1,050.20	1,988.59	1,859.90	128.69	15.453		
17,600.00	12,425.00	17,021.57	11,769.54	97.91	96.21	-71.06	5,230.44	-1,051.30	1,989.47	1,858.84	130.63	15.229		
17,700.00	12,425.00	17,121.53	11,766.83	99.38	97.69	-70.99	5,330.36	-1,052.40	1,990.35	1,857.76	132.59	15.012		
17,800.00	12,425.00	17,221.50	11,764.12	100.86	99.17	-70.92	5,430.28	-1,053.50	1,991.24	1,856.69	134.54	14.800		
17,900.00	12,425.00	17,321.46	11,761.41	102.34	100.66	-70.84	5,530.20	-1,054.60	1,992.12	1,855.62	136.50	14.594		
18,000.00	12,425.00	17,421.42	11,758.70	103.82	102.16	-70.77	5,630.12	-1,055.70	1,993.01	1,854.54	138.47	14.393		
18,100.00	12,425.00	17,521.39	11,755.99	105.31	103.65	-70.70	5,730.04	-1,056.80	1,993.91	1,853.47	140.44	14.197		
18,200.00	12,425.00	17,621.35	11,753.28	106.80	105.16	-70.62	5,829.96	-1,057.90	1,994.81	1,852.39	142.42	14.007		
18,300.00	12,425.00	17,721.31	11,750.57	108.30	106.67	-70.55	5,929.88	-1,059.00	1,995.71	1,851.31	144.40	13.821		
18,400.00	12,425.00	17,821.28	11,747.86	109.81	108.18	-70.48	6,029.80	-1,060.10	1,996.61	1,850.23	146.38	13.640		
18,500.00	12,425.00	17,921.24	11,745.15	111.32	109.69	-70.40	6,129.72	-1,061.21	1,997.52	1,849.15	148.37	13.463		
18,600.00	12,425.00	18,021.20	11,742.44	112.83	111.22	-70.33	6,229.64	-1,062.31	1,998.43	1,848.07	150.36	13.291		
18,700.00	12,425.00	18,121.17	11,739.73	114.34	112.74	-70.26	6,329.57	-1,063.41	1,999.34	1,846.99	152.35	13.123		
18,800.00	12,425.00	18,221.13	11,737.03	115.86	114.27	-70.18	6,429.49	-1,064.51	2,000.26	1,845.91	154.35	12.959		
18,900.00	12,425.00	18,321.09	11,734.32	117.39	115.80	-70.11	6,529.41	-1,065.61	2,001.18	1,844.83	156.35	12.800		
19,000.00	12,425.00	18,421.06	11,731.61	118.91	117.33	-70.04	6,629.33	-1,066.71	2,002.11	1,843.76	158.35	12.644		
19,100.00	12,425.00	18,521.02	11,728.90	120.44	118.87	-69.96	6,729.25	-1,067.81	2,003.03	1,842.68	160.35	12.491		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Georgetown Fed Com 601H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,200.00	12,425.00	18,620.98	11,726.19	121.98	120.41	-69.89	6,829.17	-1,068.91	2,003.96	1,841.60	162.36	12.343		
19,300.00	12,425.00	18,720.95	11,723.48	123.51	121.95	-69.82	6,929.09	-1,070.01	2,004.90	1,840.53	164.37	12.198		
19,400.00	12,425.00	18,820.91	11,720.77	125.05	123.50	-69.75	7,029.01	-1,071.12	2,005.83	1,839.45	166.38	12.056		
19,500.00	12,425.00	18,920.87	11,718.06	126.60	125.05	-69.67	7,128.93	-1,072.22	2,006.77	1,838.38	168.39	11.917		
19,600.00	12,425.00	19,020.84	11,715.35	128.14	126.60	-69.60	7,228.85	-1,073.32	2,007.72	1,837.31	170.40	11.782		
19,700.00	12,425.00	19,120.80	11,712.64	129.69	128.16	-69.53	7,328.77	-1,074.42	2,008.66	1,836.25	172.42	11.650		
19,800.00	12,425.00	19,220.76	11,709.93	131.24	129.71	-69.46	7,428.69	-1,075.52	2,009.61	1,835.18	174.43	11.521		
19,900.00	12,425.00	19,320.73	11,707.22	132.79	131.27	-69.38	7,528.61	-1,076.62	2,010.56	1,834.12	176.45	11.395		
20,000.00	12,425.00	19,420.69	11,704.51	134.35	132.83	-69.31	7,628.53	-1,077.72	2,011.52	1,833.05	178.47	11.271		
20,100.00	12,425.00	19,520.65	11,701.80	135.91	134.40	-69.24	7,728.45	-1,078.82	2,012.48	1,832.00	180.48	11.151		
20,200.00	12,425.00	19,620.62	11,699.09	137.47	135.96	-69.17	7,828.37	-1,079.92	2,013.44	1,830.94	182.50	11.033		
20,300.00	12,425.00	19,720.58	11,696.38	139.03	137.53	-69.10	7,928.29	-1,081.02	2,014.41	1,829.89	184.52	10.917		
20,400.00	12,425.00	19,820.54	11,693.68	140.59	139.10	-69.02	8,028.21	-1,082.13	2,015.38	1,828.84	186.54	10.804		
20,500.00	12,425.00	19,920.51	11,690.97	142.16	140.67	-68.95	8,128.13	-1,083.23	2,016.35	1,827.79	188.56	10.693		
20,600.00	12,425.00	20,020.47	11,688.26	143.73	142.24	-68.88	8,228.05	-1,084.33	2,017.32	1,826.74	190.58	10.585		
20,700.00	12,425.00	20,120.43	11,685.55	145.30	143.82	-68.81	8,327.97	-1,085.43	2,018.30	1,825.70	192.60	10.479		
20,800.00	12,425.00	20,220.40	11,682.84	146.87	145.40	-68.74	8,427.90	-1,086.53	2,019.28	1,824.66	194.62	10.375		
20,900.00	12,425.00	20,320.36	11,680.13	148.44	146.97	-68.67	8,527.82	-1,087.63	2,020.27	1,823.63	196.64	10.274		
21,000.00	12,425.00	20,420.32	11,677.42	150.02	148.55	-68.59	8,627.74	-1,088.73	2,021.25	1,822.59	198.66	10.174		
21,100.00	12,425.00	20,520.29	11,674.71	151.59	150.14	-68.52	8,727.66	-1,089.83	2,022.25	1,821.56	200.68	10.077		
21,200.00	12,425.00	20,620.25	11,672.00	153.17	151.72	-68.45	8,827.58	-1,090.93	2,023.24	1,820.53	202.70	9.981		
21,300.00	12,425.00	20,720.21	11,669.29	154.75	153.30	-68.38	8,927.50	-1,092.04	2,024.24	1,819.51	204.73	9.888		
21,400.00	12,425.00	20,820.18	11,666.58	156.33	154.89	-68.31	9,027.42	-1,093.14	2,025.24	1,818.49	206.75	9.796		
21,500.00	12,425.00	20,920.14	11,663.87	157.92	156.48	-68.24	9,127.34	-1,094.24	2,026.24	1,817.47	208.77	9.706		
21,600.00	12,425.00	21,020.10	11,661.16	159.50	158.07	-68.17	9,227.26	-1,095.34	2,027.25	1,816.46	210.79	9.618		
21,700.00	12,425.00	21,120.06	11,658.45	161.09	159.66	-68.09	9,327.18	-1,096.44	2,028.26	1,815.45	212.80	9.531		
21,800.00	12,425.00	21,220.03	11,655.74	162.67	161.25	-68.02	9,427.10	-1,097.54	2,029.27	1,814.45	214.82	9.446		
21,900.00	12,425.00	21,319.99	11,653.03	164.26	162.84	-67.95	9,527.02	-1,098.64	2,030.28	1,813.45	216.84	9.363		
22,000.00	12,425.00	21,419.95	11,650.32	165.85	164.43	-67.88	9,626.94	-1,099.74	2,031.30	1,812.45	218.85	9.282		
22,100.00	12,425.00	21,519.92	11,647.62	167.44	166.03	-67.81	9,726.86	-1,100.84	2,032.33	1,811.46	220.87	9.201		
22,200.00	12,425.00	21,619.88	11,644.91	169.03	167.63	-67.74	9,826.78	-1,101.94	2,033.35	1,810.47	222.89	9.123		
22,300.00	12,425.00	21,719.84	11,642.20	170.63	169.22	-67.67	9,926.70	-1,103.05	2,034.38	1,809.48	224.90	9.046		
22,400.00	12,425.00	21,819.81	11,639.49	172.22	170.82	-67.60	10,026.62	-1,104.15	2,035.41	1,808.49	226.92	8.970		
22,506.08	12,425.00	21,925.85	11,636.61	173.92	172.52	-67.52	10,132.62	-1,105.31	2,036.51	1,807.46	229.05	8.891 SF		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Georgetown Fed Com 701H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-59.10	74.05	-123.71	144.50					
100.00	100.00	90.30	90.30	0.13	0.13	-59.10	74.05	-123.71	144.18	144.00	0.18	804.852		
200.00	200.00	190.30	190.30	0.48	0.47	-59.10	74.05	-123.71	144.18	143.51	0.67	214.763		
300.00	300.00	290.30	290.30	0.84	0.82	-59.10	74.05	-123.71	144.18	143.00	1.18	122.368		
400.00	400.00	390.30	390.30	1.20	1.18	-59.10	74.05	-123.71	144.18	142.49	1.69	85.557		
500.00	500.00	490.30	490.30	1.56	1.54	-59.10	74.05	-123.71	144.18	141.99	2.19	65.772		
600.00	600.00	590.30	590.30	1.92	1.90	-59.10	74.05	-123.71	144.18	141.48	2.70	53.418		
700.00	700.00	690.30	690.30	2.28	2.26	-59.10	74.05	-123.71	144.18	140.97	3.21	44.971		
800.00	800.00	790.30	790.30	2.63	2.62	-59.10	74.05	-123.71	144.18	140.47	3.71	38.831		
900.00	900.00	890.30	890.30	2.99	2.97	-59.10	74.05	-123.71	144.18	139.96	4.22	34.166		
1,000.00	1,000.00	990.30	990.30	3.35	3.33	-59.10	74.05	-123.71	144.18	139.45	4.73	30.502		
1,100.00	1,100.00	1,090.30	1,090.30	3.71	3.69	-59.10	74.05	-123.71	144.18	138.95	5.23	27.548		
1,200.00	1,200.00	1,190.30	1,190.30	4.07	4.05	-59.10	74.05	-123.71	144.18	138.44	5.74	25.115		
1,300.00	1,300.00	1,290.30	1,290.30	4.43	4.41	-59.10	74.05	-123.71	144.18	137.93	6.25	23.077		
1,400.00	1,400.00	1,390.30	1,390.30	4.79	4.77	-59.10	74.05	-123.71	144.18	137.42	6.75	21.345		
1,500.00	1,500.00	1,490.30	1,490.30	5.14	5.13	-59.10	74.05	-123.71	144.18	136.92	7.26	19.855 CC, ES		
1,600.00	1,599.99	1,590.29	1,590.29	5.49	5.48	-153.67	74.05	-123.71	145.35	137.59	7.76	18.726		
1,700.00	1,699.91	1,690.21	1,690.21	5.84	5.84	-154.32	74.05	-123.71	148.88	140.62	8.26	18.032		
1,800.00	1,799.69	1,789.99	1,789.99	6.18	6.20	-155.33	74.05	-123.71	154.80	146.05	8.75	17.686		
1,900.00	1,899.27	1,889.57	1,889.57	6.53	6.56	-156.62	74.05	-123.71	163.17	153.92	9.25	17.641		
2,000.00	1,998.57	1,988.87	1,988.87	6.89	6.91	-158.09	74.05	-123.71	174.02	164.28	9.75	17.855		
2,100.00	2,097.54	2,087.84	2,087.84	7.26	7.27	-159.66	74.05	-123.71	187.43	177.18	10.24	18.296		
2,200.03	2,196.12	2,186.42	2,186.42	7.64	7.62	-161.24	74.05	-123.71	203.42	192.68	10.74	18.938		
2,300.00	2,294.41	2,284.71	2,284.71	8.03	7.97	-162.75	74.05	-123.71	220.77	209.54	11.24	19.645		
2,400.00	2,392.74	2,383.04	2,383.04	8.42	8.33	-164.05	74.05	-123.71	238.26	226.53	11.74	20.303		
2,500.00	2,491.06	2,481.36	2,481.36	8.83	8.68	-165.17	74.05	-123.71	255.86	243.62	12.23	20.913		
2,600.00	2,589.39	2,579.69	2,579.69	9.24	9.03	-166.15	74.05	-123.71	273.53	260.80	12.73	21.480		
2,700.00	2,687.72	2,678.02	2,678.02	9.65	9.38	-167.01	74.05	-123.71	291.27	278.04	13.24	22.008		
2,800.00	2,786.04	2,776.34	2,776.34	10.07	9.74	-167.76	74.05	-123.71	309.07	295.34	13.74	22.500		
2,900.00	2,884.37	2,874.67	2,874.67	10.49	10.09	-168.44	74.05	-123.71	326.92	312.68	14.24	22.959		
3,000.00	2,982.69	2,972.99	2,972.99	10.92	10.44	-169.05	74.05	-123.71	344.80	330.06	14.74	23.388		
3,100.00	3,081.02	3,071.32	3,071.32	11.35	10.79	-169.59	74.05	-123.71	362.72	347.48	15.25	23.790		
3,200.00	3,179.34	3,169.64	3,169.64	11.78	11.15	-170.09	74.05	-123.71	380.67	364.92	15.75	24.167		
3,300.00	3,277.67	3,267.97	3,267.97	12.21	11.50	-170.54	74.05	-123.71	398.65	382.39	16.26	24.521		
3,400.00	3,375.99	3,366.29	3,366.29	12.65	11.85	-170.95	74.05	-123.71	416.64	399.88	16.76	24.854		
3,500.00	3,474.32	3,464.62	3,464.62	13.09	12.20	-171.33	74.05	-123.71	434.65	417.38	17.27	25.169		
3,600.00	3,572.64	3,562.94	3,562.94	13.53	12.56	-171.68	74.05	-123.71	452.69	434.91	17.78	25.465		
3,700.00	3,670.97	3,655.35	3,655.34	13.97	12.88	-172.00	73.93	-124.09	471.12	452.86	18.25	25.809		
3,800.00	3,769.29	3,743.53	3,743.50	14.41	13.18	-172.41	73.24	-126.28	491.40	472.70	18.70	26.276		
3,900.00	3,867.62	3,830.87	3,830.73	14.86	13.48	-172.89	71.94	-130.36	513.68	494.54	19.13	26.846		
4,000.00	3,965.94	3,917.28	3,916.92	15.30	13.77	-173.43	70.07	-136.26	537.94	518.38	19.56	27.507		
4,100.00	4,064.27	4,000.00	3,999.27	15.75	14.05	-174.00	67.73	-143.66	564.19	544.24	19.95	28.281		
4,200.00	4,162.60	4,087.03	4,085.72	16.20	14.35	-174.65	64.68	-153.27	592.38	572.02	20.37	29.083		
4,300.00	4,260.92	4,175.61	4,173.47	16.65	14.66	-175.32	61.04	-164.76	622.36	601.56	20.80	29.923		
4,400.00	4,359.25	4,270.62	4,267.55	17.09	15.00	-176.00	57.05	-177.37	652.71	631.43	21.28	30.675		
4,500.00	4,457.57	4,365.64	4,361.64	17.55	15.33	-176.61	53.05	-189.98	683.14	661.38	21.76	31.394		
4,600.00	4,555.90	4,460.65	4,455.73	18.00	15.67	-177.17	49.06	-202.59	713.63	691.39	22.24	32.082		
4,700.00	4,654.22	4,555.66	4,549.82	18.45	16.02	-177.69	45.06	-215.21	744.18	721.45	22.73	32.741		
4,800.00	4,752.55	4,650.68	4,643.91	18.90	16.36	-178.16	41.07	-227.82	774.78	751.56	23.22	33.373		
4,900.00	4,850.87	4,745.69	4,738.00	19.35	16.71	-178.60	37.07	-240.43	805.42	781.72	23.70	33.979		
5,000.00	4,949.20	4,840.71	4,832.08	19.81	17.07	-179.01	33.08	-253.04	836.11	811.91	24.19	34.560		
5,100.00	5,047.52	4,935.72	4,926.17	20.26	17.42	-179.39	29.08	-265.65	866.83	842.14	24.68	35.118		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Georgetown Fed Com 701H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,145.85	5,030.73	5,020.26	20.72	17.77	-179.74	25.08	-278.27	897.58	872.40	25.17	35.654		
5,300.00	5,244.17	5,125.75	5,114.35	21.17	18.13	179.93	21.09	-290.88	928.36	902.69	25.67	36.169		
5,400.00	5,342.50	5,220.76	5,208.44	21.63	18.49	179.62	17.09	-303.49	959.17	933.01	26.16	36.664		
5,500.00	5,440.82	5,315.77	5,302.52	22.08	18.85	179.34	13.10	-316.10	990.00	963.34	26.66	37.141		
5,600.00	5,539.15	5,410.79	5,396.61	22.54	19.22	179.06	9.10	-328.71	1,020.85	993.70	27.15	37.600		
5,700.00	5,637.48	5,505.80	5,490.70	22.99	19.58	178.81	5.11	-341.32	1,051.72	1,024.07	27.65	38.042		
5,800.00	5,735.80	5,600.81	5,584.79	23.45	19.95	178.57	1.11	-353.94	1,082.61	1,054.47	28.14	38.468		
5,900.00	5,834.13	5,695.83	5,678.88	23.91	20.31	178.34	-2.89	-366.55	1,113.51	1,084.87	28.64	38.879		
6,000.00	5,932.45	5,790.84	5,772.96	24.37	20.68	178.12	-6.88	-379.16	1,144.44	1,115.30	29.14	39.275		
6,100.00	6,030.78	5,885.85	5,867.05	24.82	21.05	177.92	-10.88	-391.77	1,175.37	1,145.73	29.64	39.657		
6,200.00	6,129.10	5,980.87	5,961.14	25.28	21.42	177.73	-14.87	-404.38	1,206.32	1,176.18	30.14	40.027		
6,300.00	6,227.43	6,075.88	6,055.23	25.74	21.80	177.54	-18.87	-417.00	1,237.28	1,206.64	30.64	40.384		
6,400.00	6,325.75	6,170.90	6,149.32	26.20	22.17	177.37	-22.86	-429.61	1,268.25	1,237.11	31.14	40.729		
6,500.00	6,424.08	6,265.91	6,243.40	26.66	22.54	177.20	-26.86	-442.22	1,299.23	1,267.59	31.64	41.063		
6,560.82	6,483.88	6,323.70	6,300.63	26.94	22.77	177.10	-29.29	-449.89	1,318.08	1,286.13	31.94	41.261		
6,600.00	6,522.44	6,360.98	6,337.55	27.11	22.92	177.05	-30.86	-454.84	1,330.03	1,297.89	32.14	41.381		
6,700.00	6,621.16	6,456.69	6,432.32	27.55	23.30	176.92	-34.88	-467.54	1,358.80	1,326.16	32.64	41.626		
6,800.00	6,720.27	6,553.10	6,527.80	27.97	23.68	176.78	-38.94	-480.34	1,385.07	1,351.92	33.15	41.788		
6,900.00	6,819.68	6,650.17	6,623.92	28.36	24.07	176.65	-43.02	-493.22	1,408.82	1,375.17	33.65	41.870		
7,000.00	6,919.35	6,747.81	6,720.61	28.73	24.46	176.51	-47.13	-506.19	1,430.03	1,395.88	34.15	41.876		
7,100.00	7,019.20	6,845.97	6,817.82	29.08	24.85	176.36	-51.25	-519.22	1,448.69	1,414.04	34.65	41.810		
7,200.00	7,119.15	6,944.58	6,915.46	29.41	25.24	176.22	-55.40	-532.30	1,464.80	1,429.65	35.15	41.675		
7,260.85	7,180.00	7,004.77	6,975.07	29.60	25.48	-89.53	-57.93	-540.29	1,473.34	1,437.89	35.45	41.563		
7,300.00	7,219.15	7,043.54	7,013.46	29.72	25.64	-89.59	-59.56	-545.44	1,478.52	1,442.88	35.64	41.486		
7,400.00	7,319.15	7,142.57	7,111.52	30.02	26.04	-89.76	-63.73	-558.58	1,491.79	1,455.66	36.13	41.290		
7,500.00	7,419.15	7,241.59	7,209.58	30.32	26.43	-89.92	-67.89	-571.73	1,505.06	1,468.44	36.62	41.100		
7,600.00	7,519.15	7,340.62	7,307.64	30.62	26.83	-90.08	-72.06	-584.87	1,518.35	1,481.23	37.11	40.914		
7,700.00	7,619.15	7,439.64	7,405.70	30.92	27.23	-90.23	-76.22	-598.02	1,531.64	1,494.04	37.60	40.733		
7,800.00	7,719.15	7,538.67	7,503.77	31.23	27.63	-90.39	-80.38	-611.16	1,544.95	1,506.86	38.09	40.556		
7,900.00	7,819.15	7,637.69	7,601.83	31.54	28.03	-90.54	-84.55	-624.31	1,558.27	1,519.68	38.59	40.383		
8,000.00	7,919.15	7,736.72	7,699.89	31.84	28.44	-90.69	-88.71	-637.45	1,571.60	1,532.52	39.08	40.214		
8,100.00	8,019.15	7,835.75	7,797.95	32.15	28.84	-90.83	-92.88	-650.59	1,584.94	1,545.36	39.57	40.049		
8,200.00	8,119.15	7,934.77	7,896.01	32.46	29.24	-90.98	-97.04	-663.74	1,598.29	1,558.22	40.07	39.888		
8,300.00	8,219.15	8,033.80	7,994.07	32.77	29.64	-91.12	-101.21	-676.88	1,611.64	1,571.08	40.56	39.731		
8,400.00	8,319.15	8,132.82	8,092.13	33.08	30.05	-91.26	-105.37	-690.03	1,625.01	1,583.95	41.06	39.577		
8,500.00	8,419.15	8,231.85	8,190.19	33.39	30.45	-91.40	-109.54	-703.17	1,638.39	1,596.83	41.56	39.426		
8,600.00	8,519.15	8,330.88	8,288.26	33.71	30.86	-91.53	-113.70	-716.32	1,651.78	1,609.73	42.05	39.279		
8,700.00	8,619.15	8,429.90	8,386.32	34.02	31.26	-91.66	-117.86	-729.46	1,665.17	1,622.62	42.55	39.135		
8,800.00	8,719.15	8,528.93	8,484.38	34.33	31.66	-91.79	-122.03	-742.61	1,678.58	1,635.53	43.05	38.995		
8,900.00	8,819.15	8,627.95	8,582.44	34.65	32.07	-91.92	-126.19	-755.75	1,691.99	1,648.45	43.54	38.857		
9,000.00	8,919.15	8,726.98	8,680.50	34.97	32.48	-92.05	-130.36	-768.89	1,705.41	1,661.37	44.04	38.722		
9,100.00	9,019.15	8,826.01	8,778.56	35.28	32.88	-92.17	-134.52	-782.04	1,718.84	1,674.30	44.54	38.591		
9,200.00	9,119.15	8,925.03	8,876.62	35.60	33.29	-92.29	-138.69	-795.18	1,732.28	1,687.24	45.04	38.461		
9,300.00	9,219.15	9,024.06	8,974.68	35.92	33.70	-92.41	-142.85	-808.33	1,745.72	1,700.18	45.54	38.335		
9,400.00	9,319.15	9,123.08	9,072.75	36.24	34.10	-92.53	-147.02	-821.47	1,759.17	1,713.13	46.04	38.211		
9,500.00	9,419.15	9,222.11	9,170.81	36.56	34.51	-92.65	-151.18	-834.62	1,772.63	1,726.09	46.54	38.090		
9,600.00	9,519.15	9,321.13	9,268.87	36.88	34.92	-92.76	-155.34	-847.76	1,786.10	1,739.06	47.04	37.972		
9,700.00	9,619.15	9,420.16	9,366.93	37.20	35.33	-92.88	-159.51	-860.91	1,799.57	1,752.03	47.54	37.855		
9,800.00	9,719.15	9,519.19	9,464.99	37.53	35.73	-92.99	-163.67	-874.05	1,813.05	1,765.01	48.04	37.741		
9,900.00	9,819.15	9,618.21	9,563.05	37.85	36.14	-93.10	-167.84	-887.19	1,826.54	1,778.00	48.54	37.629		
10,000.00	9,919.15	9,717.24	9,661.11	38.17	36.55	-93.21	-172.00	-900.34	1,840.03	1,790.99	49.04	37.520		
10,100.00	10,019.15	9,816.26	9,759.17	38.50	36.96	-93.31	-176.17	-913.48	1,853.53	1,803.99	49.54	37.413		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Georgetown Fed Com 701H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,200.00	10,119.15	9,915.29	9,857.24	38.82	37.37	-93.42	-180.33	-926.63	1,867.03	1,816.99	50.04	37.307		
10,300.00	10,219.15	10,014.32	9,955.30	39.15	37.78	-93.52	-184.49	-939.77	1,880.55	1,830.00	50.55	37.204		
10,400.00	10,319.15	10,113.34	10,053.36	39.47	38.19	-93.63	-188.66	-952.92	1,894.06	1,843.01	51.05	37.103		
10,500.00	10,419.15	10,282.03	10,220.74	39.80	38.87	-93.78	-194.94	-972.75	1,906.24	1,854.33	51.90	36.726		
10,600.00	10,519.15	10,475.95	10,414.07	40.13	39.60	-93.88	-199.43	-986.92	1,913.68	1,860.89	52.79	36.249		
10,700.00	10,619.15	10,670.88	10,608.92	40.45	40.27	-93.92	-200.95	-991.71	1,916.19	1,862.61	53.58	35.763		
10,800.00	10,719.15	10,771.41	10,709.45	40.78	40.60	-93.92	-200.95	-991.71	1,916.19	1,862.12	54.07	35.441		
10,900.00	10,819.15	10,871.41	10,809.45	41.11	40.92	-93.92	-200.95	-991.71	1,916.19	1,861.64	54.55	35.126		
11,000.00	10,919.15	10,971.41	10,909.45	41.44	41.25	-93.92	-200.95	-991.71	1,916.19	1,861.15	55.04	34.817		
11,100.00	11,019.15	11,071.41	11,009.45	41.77	41.57	-93.92	-200.95	-991.71	1,916.19	1,860.67	55.52	34.512		
11,200.00	11,119.15	11,171.41	11,109.45	42.10	41.90	-93.92	-200.95	-991.71	1,916.19	1,860.18	56.01	34.213		
11,300.00	11,219.15	11,271.41	11,209.45	42.43	42.22	-93.92	-200.95	-991.71	1,916.19	1,859.70	56.49	33.918		
11,400.00	11,319.15	11,371.41	11,309.45	42.76	42.55	-93.92	-200.95	-991.71	1,916.19	1,859.21	56.98	33.629		
11,500.00	11,419.15	11,471.41	11,409.45	43.09	42.88	-93.92	-200.95	-991.71	1,916.19	1,858.72	57.47	33.344		
11,600.00	11,519.15	11,571.75	11,509.79	43.43	43.21	-93.92	-200.95	-991.71	1,916.19	1,858.23	57.96	33.063		
11,700.00	11,619.15	11,693.54	11,630.62	43.76	43.59	-93.52	-187.68	-991.86	1,915.59	1,857.11	58.48	32.754		
11,800.00	11,719.15	11,805.08	11,736.58	44.09	43.89	-92.50	-153.38	-992.23	1,914.24	1,855.28	58.96	32.465		
11,900.00	11,819.15	11,900.62	11,820.60	44.42	44.09	-91.14	-108.16	-992.73	1,913.14	1,853.75	59.39	32.213		
11,932.89	11,852.04	11,928.28	11,843.41	44.53	44.14	-90.67	-92.52	-992.90	1,913.03	1,853.52	59.52	32.141		
11,938.85	11,857.99	11,933.11	11,847.32	44.55	44.15	-87.19	-89.67	-992.93	1,913.03	1,853.49	59.54	32.129		
11,950.00	11,869.15	11,942.10	11,854.52	44.59	44.17	-87.03	-84.29	-992.99	1,913.04	1,853.45	59.58	32.106		
12,000.00	11,918.99	11,981.52	11,885.07	44.75	44.23	-86.34	-59.39	-993.27	1,913.20	1,853.43	59.77	32.012		
12,050.00	11,968.33	12,019.65	11,912.92	44.91	44.28	-85.67	-33.36	-993.55	1,913.55	1,853.62	59.93	31.927		
12,100.00	12,016.79	12,056.70	11,938.27	45.06	44.32	-85.02	-6.35	-993.85	1,914.06	1,853.97	60.09	31.853		
12,150.00	12,063.99	12,092.82	11,961.25	45.21	44.36	-84.40	21.50	-994.16	1,914.69	1,854.45	60.23	31.788		
12,200.00	12,109.58	12,128.15	11,981.99	45.34	44.38	-83.80	50.10	-994.47	1,915.39	1,855.02	60.36	31.731		
12,250.00	12,153.20	12,162.79	12,000.57	45.46	44.41	-83.23	79.32	-994.79	1,916.13	1,855.64	60.48	31.681		
12,300.00	12,194.54	12,200.00	12,018.53	45.57	44.43	-82.66	111.91	-995.15	1,916.87	1,856.27	60.60	31.632		
12,350.00	12,233.27	12,230.38	12,031.59	45.67	44.44	-82.20	139.33	-995.45	1,917.56	1,856.87	60.69	31.596		
12,400.00	12,269.10	12,263.48	12,044.15	45.76	44.45	-81.75	169.95	-995.79	1,918.17	1,857.39	60.78	31.558		
12,450.00	12,301.75	12,300.00	12,055.93	45.83	44.47	-81.29	204.50	-996.17	1,918.68	1,857.80	60.88	31.516		
12,500.00	12,330.98	12,328.58	12,063.60	45.90	44.48	-80.96	232.03	-996.47	1,919.03	1,858.07	60.96	31.482		
12,550.00	12,356.57	12,360.68	12,070.57	45.96	44.49	-80.64	263.36	-996.81	1,919.21	1,858.17	61.04	31.441		
12,600.00	12,378.31	12,400.00	12,076.69	46.01	44.51	-80.31	302.19	-997.24	1,919.21	1,858.06	61.15	31.387		
12,650.00	12,396.05	12,424.18	12,079.13	46.06	44.53	-80.15	326.24	-997.51	1,918.95	1,857.72	61.23	31.342		
12,700.00	12,409.66	12,450.00	12,080.61	46.11	44.55	-80.02	352.02	-997.79	1,918.48	1,857.16	61.32	31.288		
12,750.00	12,419.01	12,487.81	12,080.68	46.17	44.59	-79.87	389.81	-998.20	1,917.72	1,856.28	61.44	31.213		
12,800.00	12,424.05	12,537.32	12,079.34	46.24	44.65	-79.80	439.31	-998.75	1,916.46	1,854.85	61.61	31.107		
12,832.89	12,425.00	12,570.12	12,078.45	46.30	44.71	-79.86	472.09	-999.11	1,915.22	1,853.49	61.73	31.025		
12,900.00	12,425.00	12,637.16	12,076.64	46.43	44.86	-79.80	539.10	-999.85	1,913.12	1,851.11	62.01	30.850		
12,957.36	12,425.00	12,694.49	12,075.08	46.58	45.02	-79.75	596.40	-1,000.48	1,912.56	1,850.27	62.28	30.707		
12,971.32	12,425.00	12,708.44	12,074.71	46.62	45.06	-79.74	610.35	-1,000.63	1,912.59	1,850.24	62.35	30.673		
13,000.00	12,425.00	12,737.11	12,073.93	46.71	45.15	-79.72	639.01	-1,000.94	1,912.73	1,850.22	62.51	30.601		
13,100.00	12,425.00	12,837.08	12,071.22	47.06	45.53	-79.64	738.93	-1,002.04	1,913.21	1,850.13	63.08	30.331		
13,200.00	12,425.00	12,937.04	12,068.51	47.49	45.98	-79.56	838.85	-1,003.14	1,913.70	1,849.97	63.73	30.029		
13,300.00	12,425.00	13,037.00	12,065.80	47.98	46.49	-79.48	938.77	-1,004.24	1,914.19	1,849.73	64.45	29.699		
13,400.00	12,425.00	13,136.97	12,063.09	48.53	47.06	-79.40	1,038.69	-1,005.34	1,914.68	1,849.43	65.25	29.343		
13,500.00	12,425.00	13,236.93	12,060.38	49.13	47.69	-79.32	1,138.62	-1,006.44	1,915.18	1,849.06	66.12	28.965		
13,600.00	12,425.00	13,336.89	12,057.67	49.79	48.36	-79.24	1,238.54	-1,007.54	1,915.68	1,848.62	67.06	28.569		
13,700.00	12,425.00	13,436.85	12,054.96	50.49	49.08	-79.16	1,338.46	-1,008.63	1,916.19	1,848.13	68.06	28.156		
13,800.00	12,425.00	13,536.82	12,052.26	51.24	49.85	-79.08	1,438.38	-1,009.73	1,916.69	1,847.58	69.12	27.731		
13,900.00	12,425.00	13,636.78	12,049.55	52.03	50.66	-79.00	1,538.30	-1,010.83	1,917.21	1,846.97	70.24	27.296		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Georgetown Fed Com 701H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	12,425.00	13,736.74	12,046.84	52.87	51.51	-78.92	1,638.22	-1,011.93	1,917.72	1,846.31	71.41	26.854		
14,100.00	12,425.00	13,836.71	12,044.13	53.74	52.40	-78.84	1,738.14	-1,013.03	1,918.24	1,845.60	72.64	26.407		
14,200.00	12,425.00	13,936.67	12,041.42	54.65	53.32	-78.76	1,838.06	-1,014.13	1,918.77	1,844.85	73.92	25.957		
14,300.00	12,425.00	14,036.63	12,038.71	55.59	54.28	-78.68	1,937.98	-1,015.23	1,919.29	1,844.05	75.25	25.507		
14,400.00	12,425.00	14,136.60	12,036.00	56.57	55.27	-78.61	2,037.90	-1,016.32	1,919.82	1,843.21	76.62	25.057		
14,500.00	12,425.00	14,236.56	12,033.29	57.57	56.30	-78.53	2,137.82	-1,017.42	1,920.36	1,842.33	78.03	24.610		
14,600.00	12,425.00	14,336.52	12,030.58	58.61	57.35	-78.45	2,237.74	-1,018.52	1,920.90	1,841.41	79.49	24.167		
14,700.00	12,425.00	14,436.49	12,027.87	59.67	58.43	-78.37	2,337.66	-1,019.62	1,921.44	1,840.46	80.98	23.728		
14,800.00	12,425.00	14,536.45	12,025.16	60.76	59.53	-78.29	2,437.58	-1,020.72	1,921.99	1,839.48	82.51	23.295		
14,900.00	12,425.00	14,636.41	12,022.46	61.88	60.66	-78.21	2,537.50	-1,021.82	1,922.53	1,838.47	84.07	22.869		
15,000.00	12,425.00	14,736.38	12,019.75	63.02	61.81	-78.13	2,637.42	-1,022.91	1,923.09	1,837.43	85.66	22.451		
15,100.00	12,425.00	14,836.34	12,017.04	64.18	62.99	-78.05	2,737.34	-1,024.01	1,923.64	1,836.36	87.28	22.040		
15,200.00	12,425.00	14,936.30	12,014.33	65.36	64.18	-77.97	2,837.26	-1,025.11	1,924.20	1,835.27	88.93	21.637		
15,300.00	12,425.00	15,036.27	12,011.62	66.56	65.40	-77.89	2,937.18	-1,026.21	1,924.77	1,834.16	90.61	21.243		
15,400.00	12,425.00	15,136.23	12,008.91	67.78	66.63	-77.81	3,037.11	-1,027.31	1,925.34	1,833.03	92.31	20.858		
15,500.00	12,425.00	15,236.19	12,006.20	69.02	67.89	-77.74	3,137.03	-1,028.41	1,925.91	1,831.87	94.03	20.481		
15,600.00	12,425.00	15,336.16	12,003.49	70.28	69.16	-77.66	3,236.95	-1,029.51	1,926.48	1,830.70	95.78	20.114		
15,700.00	12,425.00	15,436.12	12,000.78	71.55	70.44	-77.58	3,336.87	-1,030.60	1,927.06	1,829.51	97.55	19.755		
15,800.00	12,425.00	15,536.08	11,998.07	72.84	71.74	-77.50	3,436.79	-1,031.70	1,927.64	1,828.31	99.33	19.406		
15,900.00	12,425.00	15,636.05	11,995.36	74.14	73.05	-77.42	3,536.71	-1,032.80	1,928.23	1,827.09	101.14	19.065		
16,000.00	12,425.00	15,736.01	11,992.66	75.46	74.38	-77.34	3,636.63	-1,033.90	1,928.82	1,825.85	102.96	18.733		
16,100.00	12,425.00	15,835.97	11,989.95	76.79	75.72	-77.26	3,736.55	-1,035.00	1,929.41	1,824.61	104.80	18.410		
16,200.00	12,425.00	15,935.94	11,987.24	78.13	77.07	-77.19	3,836.47	-1,036.10	1,930.01	1,823.35	106.66	18.095		
16,300.00	12,425.00	16,035.90	11,984.53	79.48	78.44	-77.11	3,936.39	-1,037.20	1,930.61	1,822.08	108.53	17.789		
16,400.00	12,425.00	16,135.86	11,981.82	80.85	79.81	-77.03	4,036.31	-1,038.29	1,931.21	1,820.80	110.41	17.491		
16,500.00	12,425.00	16,235.83	11,979.11	82.22	81.20	-76.95	4,136.23	-1,039.39	1,931.82	1,819.51	112.31	17.201		
16,600.00	12,425.00	16,335.79	11,976.40	83.61	82.59	-76.87	4,236.15	-1,040.49	1,932.43	1,818.22	114.21	16.919		
16,700.00	12,425.00	16,435.75	11,973.69	85.00	83.99	-76.79	4,336.07	-1,041.59	1,933.05	1,816.91	116.13	16.645		
16,800.00	12,425.00	16,535.72	11,970.98	86.40	85.41	-76.72	4,435.99	-1,042.69	1,933.66	1,815.60	118.07	16.378		
16,900.00	12,425.00	16,635.68	11,968.27	87.82	86.83	-76.64	4,535.91	-1,043.79	1,934.29	1,814.28	120.01	16.118		
17,000.00	12,425.00	16,735.64	11,965.56	89.24	88.26	-76.56	4,635.83	-1,044.88	1,934.91	1,812.96	121.96	15.866		
17,100.00	12,425.00	16,835.61	11,962.86	90.66	89.69	-76.48	4,735.75	-1,045.98	1,935.54	1,811.63	123.91	15.620		
17,200.00	12,425.00	16,935.57	11,960.15	92.10	91.14	-76.40	4,835.67	-1,047.08	1,936.17	1,810.29	125.88	15.381		
17,300.00	12,425.00	17,035.53	11,957.44	93.54	92.59	-76.33	4,935.59	-1,048.18	1,936.81	1,808.95	127.86	15.148		
17,400.00	12,425.00	17,135.50	11,954.73	94.99	94.05	-76.25	5,035.52	-1,049.28	1,937.45	1,807.61	129.84	14.922		
17,500.00	12,425.00	17,235.46	11,952.02	96.45	95.51	-76.17	5,135.44	-1,050.38	1,938.09	1,806.26	131.83	14.701		
17,600.00	12,425.00	17,335.42	11,949.31	97.91	96.98	-76.09	5,235.36	-1,051.48	1,938.74	1,804.91	133.83	14.487		
17,700.00	12,425.00	17,435.39	11,946.60	99.38	98.46	-76.01	5,335.28	-1,052.57	1,939.39	1,803.56	135.83	14.278		
17,800.00	12,425.00	17,535.35	11,943.89	100.86	99.94	-75.94	5,435.20	-1,053.67	1,940.04	1,802.20	137.84	14.074		
17,900.00	12,425.00	17,635.31	11,941.18	102.34	101.43	-75.86	5,535.12	-1,054.77	1,940.70	1,800.84	139.86	13.876		
18,000.00	12,425.00	17,735.28	11,938.47	103.82	102.92	-75.78	5,635.04	-1,055.87	1,941.36	1,799.48	141.88	13.683		
18,100.00	12,425.00	17,835.24	11,935.76	105.31	104.42	-75.70	5,734.96	-1,056.97	1,942.03	1,798.12	143.91	13.495		
18,200.00	12,425.00	17,935.20	11,933.06	106.80	105.92	-75.63	5,834.88	-1,058.07	1,942.70	1,796.76	145.94	13.311		
18,300.00	12,425.00	18,035.17	11,930.35	108.30	107.42	-75.55	5,934.80	-1,059.17	1,943.37	1,795.39	147.98	13.133		
18,400.00	12,425.00	18,135.13	11,927.64	109.81	108.93	-75.47	6,034.72	-1,060.26	1,944.04	1,794.03	150.02	12.959		
18,500.00	12,425.00	18,235.09	11,924.93	111.32	110.45	-75.39	6,134.64	-1,061.36	1,944.72	1,792.66	152.06	12.789		
18,600.00	12,425.00	18,335.06	11,922.22	112.83	111.96	-75.32	6,234.56	-1,062.46	1,945.41	1,791.30	154.11	12.624		
18,700.00	12,425.00	18,435.02	11,919.51	114.34	113.49	-75.24	6,334.48	-1,063.56	1,946.09	1,789.93	156.16	12.462		
18,800.00	12,425.00	18,534.98	11,916.80	115.86	115.01	-75.16	6,434.40	-1,064.66	1,946.78	1,788.57	158.21	12.305		
18,900.00	12,425.00	18,634.95	11,914.09	117.39	116.54	-75.09	6,534.32	-1,065.76	1,947.48	1,787.20	160.27	12.151		
19,000.00	12,425.00	18,734.91	11,911.38	118.91	118.07	-75.01	6,634.24	-1,066.85	1,948.17	1,785.84	162.33	12.001		
19,100.00	12,425.00	18,834.87	11,908.67	120.44	119.61	-74.93	6,734.16	-1,067.95	1,948.87	1,784.48	164.40	11.855		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Georgetown Fed Com 701H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,200.00	12,425.00	18,934.83	11,905.96	121.98	121.15	-74.86	6,834.08	-1,069.05	1,949.58	1,783.12	166.46	11.712		
19,300.00	12,425.00	19,034.80	11,903.26	123.51	122.69	-74.78	6,934.01	-1,070.15	1,950.28	1,781.75	168.53	11.572		
19,400.00	12,425.00	19,134.76	11,900.55	125.05	124.23	-74.70	7,033.93	-1,071.25	1,950.99	1,780.40	170.60	11.436		
19,500.00	12,425.00	19,234.72	11,897.84	126.60	125.78	-74.62	7,133.85	-1,072.35	1,951.71	1,779.04	172.67	11.303		
19,600.00	12,425.00	19,334.69	11,895.13	128.14	127.33	-74.55	7,233.77	-1,073.45	1,952.43	1,777.68	174.75	11.173		
19,700.00	12,425.00	19,434.65	11,892.42	129.69	128.88	-74.47	7,333.69	-1,074.54	1,953.15	1,776.33	176.82	11.046		
19,800.00	12,425.00	19,534.61	11,889.71	131.24	130.44	-74.39	7,433.61	-1,075.64	1,953.87	1,774.98	178.90	10.922		
19,900.00	12,425.00	19,634.58	11,887.00	132.79	131.99	-74.32	7,533.53	-1,076.74	1,954.60	1,773.63	180.97	10.800		
20,000.00	12,425.00	19,734.54	11,884.29	134.35	133.55	-74.24	7,633.45	-1,077.84	1,955.33	1,772.28	183.05	10.682		
20,100.00	12,425.00	19,834.50	11,881.58	135.91	135.11	-74.17	7,733.37	-1,078.94	1,956.07	1,770.93	185.13	10.566		
20,200.00	12,425.00	19,934.47	11,878.87	137.47	136.68	-74.09	7,833.29	-1,080.04	1,956.81	1,769.59	187.22	10.452		
20,300.00	12,425.00	20,034.43	11,876.16	139.03	138.24	-74.01	7,933.21	-1,081.14	1,957.55	1,768.25	189.30	10.341		
20,400.00	12,425.00	20,134.39	11,873.46	140.59	139.81	-73.94	8,033.13	-1,082.23	1,958.29	1,766.91	191.38	10.232		
20,500.00	12,425.00	20,234.36	11,870.75	142.16	141.38	-73.86	8,133.05	-1,083.33	1,959.04	1,765.57	193.47	10.126		
20,600.00	12,425.00	20,334.32	11,868.04	143.73	142.95	-73.78	8,232.97	-1,084.43	1,959.80	1,764.24	195.56	10.022		
20,700.00	12,425.00	20,434.28	11,865.33	145.30	144.53	-73.71	8,332.89	-1,085.53	1,960.55	1,762.91	197.64	9.920		
20,800.00	12,425.00	20,534.25	11,862.62	146.87	146.10	-73.63	8,432.81	-1,086.63	1,961.31	1,761.58	199.73	9.820		
20,900.00	12,425.00	20,634.21	11,859.91	148.44	147.68	-73.56	8,532.73	-1,087.73	1,962.07	1,760.26	201.82	9.722		
21,000.00	12,425.00	20,734.17	11,857.20	150.02	149.26	-73.48	8,632.65	-1,088.83	1,962.84	1,758.94	203.90	9.626		
21,100.00	12,425.00	20,834.14	11,854.49	151.59	150.84	-73.40	8,732.57	-1,089.92	1,963.61	1,757.62	205.99	9.532		
21,200.00	12,425.00	20,934.10	11,851.78	153.17	152.42	-73.33	8,832.50	-1,091.02	1,964.38	1,756.30	208.08	9.441		
21,300.00	12,425.00	21,034.06	11,849.07	154.75	154.00	-73.25	8,932.42	-1,092.12	1,965.16	1,754.99	210.17	9.350		
21,400.00	12,425.00	21,134.03	11,846.36	156.33	155.59	-73.18	9,032.34	-1,093.22	1,965.94	1,753.68	212.26	9.262		
21,500.00	12,425.00	21,233.99	11,843.66	157.92	157.17	-73.10	9,132.26	-1,094.32	1,966.72	1,752.38	214.34	9.176		
21,600.00	12,425.00	21,333.95	11,840.95	159.50	158.76	-73.03	9,232.18	-1,095.42	1,967.51	1,751.08	216.43	9.091		
21,700.00	12,425.00	21,433.92	11,838.24	161.09	160.35	-72.95	9,332.10	-1,096.51	1,968.30	1,749.78	218.52	9.007		
21,800.00	12,425.00	21,533.88	11,835.53	162.67	161.94	-72.88	9,432.02	-1,097.61	1,969.10	1,748.49	220.61	8.926		
21,900.00	12,425.00	21,633.84	11,832.82	164.26	163.53	-72.80	9,531.94	-1,098.71	1,969.89	1,747.20	222.69	8.846		
22,000.00	12,425.00	21,733.81	11,830.11	165.85	165.12	-72.73	9,631.86	-1,099.81	1,970.69	1,745.91	224.78	8.767		
22,100.00	12,425.00	21,833.77	11,827.40	167.44	166.72	-72.65	9,731.78	-1,100.91	1,971.50	1,744.63	226.86	8.690		
22,200.00	12,425.00	21,933.73	11,824.69	169.03	168.31	-72.57	9,831.70	-1,102.01	1,972.30	1,743.36	228.95	8.615		
22,300.00	12,425.00	22,033.70	11,821.98	170.63	169.91	-72.50	9,931.62	-1,103.11	1,973.12	1,742.08	231.03	8.540		
22,400.00	12,425.00	22,133.66	11,819.27	172.22	171.51	-72.42	10,031.54	-1,104.20	1,973.93	1,740.81	233.12	8.468		
22,506.08	12,425.00	22,239.70	11,816.40	173.92	173.20	-72.35	10,137.54	-1,105.37	1,974.80	1,739.47	235.33	8.392 SF		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Ouray Fed Com 302H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.60	0.60	0.00	0.00	12.14	75.42	16.23	77.15					
100.00	100.00	100.60	100.60	0.13	0.13	12.14	75.42	16.23	77.15	76.97	0.18	431.078		
200.00	200.00	200.60	200.60	0.48	0.49	12.14	75.42	16.23	77.15	76.46	0.69	112.473		
300.00	300.00	300.60	300.60	0.84	0.84	12.14	75.42	16.23	77.15	75.95	1.19	64.673		
400.00	400.00	400.60	400.60	1.20	1.20	12.14	75.42	16.23	77.15	75.45	1.70	45.385		
500.00	500.00	500.60	500.60	1.56	1.56	12.14	75.42	16.23	77.15	74.94	2.21	34.959		
600.00	600.00	600.60	600.60	1.92	1.92	12.14	75.42	16.23	77.15	74.43	2.71	28.428		
700.00	700.00	700.60	700.60	2.28	2.28	12.14	75.42	16.23	77.15	73.93	3.22	23.953		
800.00	800.00	800.60	800.60	2.63	2.64	12.14	75.42	16.23	77.15	73.42	3.73	20.696		
900.00	900.00	900.60	900.60	2.99	3.00	12.14	75.42	16.23	77.15	72.91	4.23	18.218		
1,000.00	1,000.00	1,000.60	1,000.60	3.35	3.35	12.14	75.42	16.23	77.15	72.40	4.74	16.270		
1,100.00	1,100.00	1,100.60	1,100.60	3.71	3.71	12.14	75.42	16.23	77.15	71.90	5.25	14.699		
1,200.00	1,200.00	1,200.60	1,200.60	4.07	4.07	12.14	75.42	16.23	77.15	71.39	5.76	13.404		
1,300.00	1,300.00	1,300.60	1,300.60	4.43	4.43	12.14	75.42	16.23	77.15	70.88	6.26	12.319		
1,400.00	1,400.00	1,400.60	1,400.60	4.79	4.79	12.14	75.42	16.23	77.15	70.38	6.77	11.396		
1,500.00	1,500.00	1,500.96	1,500.95	5.14	5.13	12.78	75.00	17.02	76.91	69.64	7.27	10.582		
1,600.00	1,599.99	1,601.28	1,601.24	5.49	5.47	-80.64	73.76	19.35	76.04	68.29	7.75	9.808		
1,700.00	1,699.91	1,701.59	1,701.45	5.84	5.81	-80.37	71.70	23.24	74.33	66.09	8.23	9.026		
1,800.00	1,799.69	1,801.86	1,801.53	6.18	6.16	-80.80	68.82	28.68	71.76	63.03	8.72	8.226		
1,900.00	1,899.27	1,902.11	1,901.47	6.53	6.50	-82.03	65.13	35.66	68.35	59.14	9.22	7.416		
2,000.00	1,998.57	2,002.31	2,001.20	6.89	6.86	-84.23	60.61	44.18	64.18	54.46	9.72	6.605		
2,100.00	2,097.54	2,102.10	2,100.45	7.26	7.22	-88.46	55.73	53.39	59.70	49.47	10.23	5.838		
2,200.03	2,196.12	2,201.77	2,199.57	7.64	7.58	-96.01	50.85	62.60	55.79	45.05	10.74	5.196		
2,300.00	2,294.41	2,301.27	2,298.53	8.03	7.94	-105.78	45.98	71.78	53.31	42.07	11.25	4.740		
2,394.91	2,387.73	2,395.74	2,392.47	8.40	8.29	-115.64	41.36	80.51	52.52	40.80	11.72	4.480 CC		
2,400.00	2,392.74	2,400.80	2,397.51	8.42	8.31	-116.17	41.11	80.98	52.52	40.78	11.75	4.471 ES		
2,500.00	2,491.06	2,500.34	2,496.50	8.83	8.68	-126.52	36.24	90.17	53.49	41.26	12.24	4.372 SF		
2,600.00	2,589.39	2,599.87	2,595.49	9.24	9.05	-136.21	31.37	99.36	56.13	43.41	12.72	4.413		
2,700.00	2,687.72	2,699.40	2,694.48	9.65	9.42	-144.81	26.50	108.55	60.22	47.02	13.20	4.562		
2,800.00	2,786.04	2,798.94	2,793.46	10.07	9.80	-152.19	21.63	117.74	65.49	51.80	13.69	4.785		
2,900.00	2,884.37	2,898.47	2,892.45	10.49	10.17	-158.39	16.76	126.93	71.68	57.50	14.18	5.055		
3,000.00	2,982.69	2,998.00	2,991.44	10.92	10.55	-163.55	11.89	136.12	78.57	63.89	14.68	5.352		
3,100.00	3,081.02	3,097.53	3,090.43	11.35	10.93	-167.86	7.02	145.31	85.99	70.81	15.19	5.663		
3,200.00	3,179.34	3,197.07	3,189.42	11.78	11.31	-171.47	2.15	154.50	93.82	78.13	15.70	5.977		
3,300.00	3,277.67	3,296.60	3,288.40	12.21	11.69	-174.52	-2.72	163.70	101.97	85.76	16.21	6.289		
3,400.00	3,375.99	3,396.13	3,387.39	12.65	12.07	-177.11	-7.59	172.89	110.36	93.62	16.73	6.595		
3,500.00	3,474.32	3,495.66	3,486.38	13.09	12.45	-179.33	-12.46	182.08	118.94	101.68	17.26	6.892		
3,600.00	3,572.64	3,595.20	3,585.37	13.53	12.84	-178.75	-17.33	191.27	127.68	109.89	17.78	7.179		
3,700.00	3,670.97	3,694.73	3,684.35	13.97	13.22	-177.08	-22.20	200.46	136.54	118.22	18.31	7.456		
3,800.00	3,769.29	3,794.26	3,783.34	14.41	13.61	-175.61	-27.07	209.65	145.50	126.65	18.84	7.722		
3,900.00	3,867.62	3,893.79	3,882.33	14.86	13.99	-174.32	-31.94	218.84	154.54	135.17	19.37	7.976		
4,000.00	3,965.94	3,993.33	3,981.32	15.30	14.38	-173.16	-36.81	228.03	163.66	143.75	19.91	8.220		
4,100.00	4,064.27	4,092.86	4,080.30	15.75	14.76	-172.13	-41.68	237.22	172.83	152.39	20.44	8.454		
4,200.00	4,162.60	4,192.39	4,179.29	16.20	15.15	-171.20	-46.55	246.42	182.05	161.08	20.98	8.678		
4,300.00	4,260.92	4,291.93	4,278.28	16.65	15.54	-170.37	-51.42	255.61	191.32	169.80	21.52	8.892		
4,400.00	4,359.25	4,391.46	4,377.27	17.09	15.92	-169.61	-56.29	264.80	200.62	178.57	22.05	9.097		
4,500.00	4,457.57	4,490.99	4,476.25	17.55	16.31	-168.91	-61.16	273.99	209.96	187.37	22.59	9.293		
4,600.00	4,555.90	4,590.52	4,575.24	18.00	16.70	-168.28	-66.03	283.18	219.32	196.19	23.13	9.481		
4,700.00	4,654.22	4,690.06	4,674.23	18.45	17.09	-167.70	-70.90	292.37	228.71	205.04	23.67	9.661		
4,800.00	4,752.55	4,789.59	4,773.22	18.90	17.48	-167.16	-75.77	301.56	238.12	213.91	24.21	9.834		
4,900.00	4,850.87	4,889.12	4,872.21	19.35	17.86	-166.67	-80.64	310.75	247.55	222.79	24.76	10.000		
5,000.00	4,949.20	4,988.65	4,971.19	19.81	18.25	-166.21	-85.51	319.95	256.99	231.69	25.30	10.159		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Georgetown/Ouray - Ouray Fed Com 302H - OH - Plan #1													Offset Well Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD														
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,047.52	5,088.19	5,070.18	20.26	18.64	165.78	-90.38	329.14	266.45	240.61	25.84	10.312		
5,200.00	5,145.85	5,187.72	5,169.17	20.72	19.03	165.39	-95.25	338.33	275.93	249.54	26.38	10.458		
5,300.00	5,244.17	5,287.25	5,268.16	21.17	19.42	165.02	-100.12	347.52	285.41	258.49	26.93	10.600		
5,400.00	5,342.50	5,386.78	5,367.14	21.63	19.81	164.67	-104.99	356.71	294.91	267.44	27.47	10.735		
5,500.00	5,440.82	5,486.32	5,466.13	22.08	20.20	164.34	-109.86	365.90	304.42	276.40	28.01	10.866		
5,600.00	5,539.15	5,585.85	5,565.12	22.54	20.59	164.04	-114.73	375.09	313.93	285.37	28.56	10.992		
5,700.00	5,637.48	5,685.38	5,664.11	22.99	20.98	163.75	-119.60	384.28	323.46	294.35	29.10	11.114		
5,800.00	5,735.80	5,784.91	5,763.09	23.45	21.37	163.48	-124.47	393.47	332.99	303.34	29.65	11.231		
5,900.00	5,834.13	5,884.45	5,862.08	23.91	21.77	163.22	-129.34	402.67	342.53	312.33	30.20	11.344		
6,000.00	5,932.45	5,983.98	5,961.07	24.37	22.16	162.98	-134.21	411.86	352.08	321.33	30.74	11.453		
6,100.00	6,030.78	6,083.51	6,060.06	24.82	22.55	162.75	-139.08	421.05	361.63	330.34	31.29	11.558		
6,200.00	6,129.10	6,183.05	6,159.04	25.28	22.94	162.53	-143.95	430.24	371.18	339.35	31.83	11.660		
6,300.00	6,227.43	6,282.58	6,258.03	25.74	23.33	162.33	-148.82	439.43	380.75	348.37	32.38	11.759		
6,400.00	6,325.75	6,382.11	6,357.02	26.20	23.72	162.13	-153.69	448.62	390.31	357.39	32.93	11.854		
6,500.00	6,424.08	6,481.64	6,456.01	26.66	24.11	161.94	-158.56	457.81	399.88	366.41	33.47	11.946		
6,560.82	6,483.88	6,542.18	6,516.21	26.94	24.35	161.84	-161.52	463.40	405.71	371.90	33.81	12.001		
6,600.00	6,522.44	6,581.19	6,555.01	27.11	24.50	161.77	-163.43	467.00	409.27	375.25	34.02	12.030		
6,700.00	6,621.16	6,680.90	6,654.17	27.55	24.90	161.54	-168.31	476.21	416.64	382.07	34.57	12.052		
6,800.00	6,720.27	6,780.74	6,753.46	27.97	25.29	161.18	-173.19	485.43	421.55	386.43	35.12	12.003		
6,900.00	6,819.68	6,880.64	6,852.82	28.36	25.68	160.71	-178.08	494.66	424.00	388.33	35.67	11.887		
7,000.00	6,919.35	6,980.54	6,952.17	28.73	26.08	160.12	-182.97	503.88	424.03	387.81	36.22	11.707		
7,100.00	7,019.20	7,077.32	7,048.46	29.08	26.46	159.43	-187.57	512.57	421.86	385.11	36.76	11.477		
7,200.00	7,119.15	7,172.17	7,142.94	29.41	26.82	158.77	-191.40	519.80	418.40	381.13	37.27	11.226		
7,260.85	7,180.00	7,229.91	7,200.53	29.60	27.04	-107.28	-193.38	523.52	415.71	378.13	37.58	11.063		
7,300.00	7,219.15	7,267.08	7,237.63	29.72	27.17	-107.52	-194.50	525.65	413.93	376.16	37.77	10.960		
7,400.00	7,319.15	7,362.16	7,332.57	30.02	27.52	-108.03	-196.87	530.12	410.21	371.96	38.25	10.725		
7,500.00	7,419.15	7,457.38	7,427.73	30.32	27.86	-108.38	-198.50	533.20	407.67	368.95	38.71	10.530		
7,600.00	7,519.15	7,552.69	7,523.02	30.62	28.19	-108.57	-199.40	534.88	406.29	367.12	39.17	10.374		
7,700.00	7,619.15	7,649.43	7,619.75	30.92	28.51	-108.61	-199.58	535.23	406.00	366.39	39.61	10.250		
7,800.00	7,719.15	7,749.43	7,719.75	31.23	28.84	-108.61	-199.58	535.23	406.00	365.93	40.07	10.132		
7,900.00	7,819.15	7,849.43	7,819.75	31.54	29.16	-108.61	-199.58	535.23	406.00	365.47	40.54	10.016		
8,000.00	7,919.15	7,949.43	7,919.75	31.84	29.48	-108.61	-199.58	535.23	406.00	365.00	41.00	9.902		
8,100.00	8,019.15	8,049.43	8,019.75	32.15	29.81	-108.61	-199.58	535.23	406.00	364.53	41.47	9.791		
8,200.00	8,119.15	8,149.43	8,119.75	32.46	30.13	-108.61	-199.58	535.23	406.00	364.07	41.94	9.681		
8,300.00	8,219.15	8,249.43	8,219.75	32.77	30.46	-108.61	-199.58	535.23	406.00	363.60	42.40	9.575		
8,400.00	8,319.15	8,349.43	8,319.75	33.08	30.78	-108.61	-199.58	535.23	406.00	363.13	42.87	9.470		
8,500.00	8,419.15	8,449.43	8,419.75	33.39	31.11	-108.61	-199.58	535.23	406.00	362.66	43.34	9.367		
8,600.00	8,519.15	8,549.43	8,519.75	33.71	31.44	-108.61	-199.58	535.23	406.00	362.19	43.81	9.267		
8,700.00	8,619.15	8,649.43	8,619.75	34.02	31.76	-108.61	-199.58	535.23	406.00	361.72	44.28	9.168		
8,800.00	8,719.15	8,749.43	8,719.75	34.33	32.09	-108.61	-199.58	535.23	406.00	361.25	44.76	9.071		
8,900.00	8,819.15	8,849.43	8,819.75	34.65	32.42	-108.61	-199.58	535.23	406.00	360.77	45.23	8.976		
9,000.00	8,919.15	8,949.43	8,919.75	34.97	32.75	-108.61	-199.58	535.23	406.00	360.30	45.70	8.883		
9,100.00	9,019.15	9,049.43	9,019.75	35.28	33.08	-108.61	-199.58	535.23	406.00	359.83	46.18	8.792		
9,200.00	9,119.15	9,149.43	9,119.75	35.60	33.41	-108.61	-199.58	535.23	406.00	359.35	46.65	8.703		
9,300.00	9,219.15	9,249.43	9,219.75	35.92	33.75	-108.61	-199.58	535.23	406.00	358.87	47.13	8.615		
9,400.00	9,319.15	9,349.43	9,319.75	36.24	34.08	-108.61	-199.58	535.23	406.00	358.40	47.61	8.529		
9,500.00	9,419.15	9,449.43	9,419.75	36.56	34.41	-108.61	-199.58	535.23	406.00	357.92	48.08	8.444		
9,600.00	9,519.15	9,549.43	9,519.75	36.88	34.74	-108.61	-199.58	535.23	406.00	357.44	48.56	8.361		
9,700.00	9,619.15	9,661.77	9,631.99	37.20	35.11	-108.23	-196.74	535.20	405.32	356.21	49.11	8.253		
9,800.00	9,719.15	9,783.88	9,751.29	37.53	35.47	-104.81	-171.79	534.92	399.55	350.05	49.50	8.072		
9,900.00	9,819.15	9,891.37	9,849.87	37.85	35.73	-98.75	-129.34	534.46	391.24	341.51	49.73	7.867		
10,000.00	9,919.15	9,980.71	9,924.61	38.17	35.90	-91.57	-80.56	533.92	386.25	336.39	49.86	7.747		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Ouray Fed Com 302H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,012.91	9,932.06	9,990.94	9,932.66	38.21	35.92	-90.63	-74.25	533.85	386.17	336.32	49.86	7.746		
10,100.00	10,019.15	10,052.83	9,978.84	38.50	36.00	-84.54	-33.08	533.40	390.51	340.97	49.54	7.882		
10,200.00	10,119.15	10,110.58	10,017.68	38.82	36.06	-78.38	9.61	532.93	408.14	359.73	48.41	8.431		
10,300.00	10,219.15	10,156.97	10,045.65	39.15	36.10	-73.25	46.61	532.52	440.51	394.01	46.50	9.474		
10,400.00	10,319.15	10,200.00	10,068.84	39.47	36.13	-68.49	82.84	532.12	486.58	442.22	44.36	10.969		
10,500.00	10,419.15	10,225.49	10,081.27	39.80	36.14	-65.72	105.09	531.88	543.93	501.99	41.94	12.969		
10,600.00	10,519.15	10,250.00	10,092.28	40.13	36.14	-63.11	126.98	531.64	610.21	570.30	39.91	15.288		
10,700.00	10,619.15	10,272.75	10,101.66	40.45	36.15	-60.74	147.71	531.41	683.24	644.95	38.30	17.840		
10,800.00	10,719.15	10,300.00	10,111.79	40.78	36.15	-58.00	173.00	531.13	761.50	724.32	37.19	20.477		
10,900.00	10,819.15	10,300.00	10,111.79	41.11	36.15	-58.00	173.00	531.13	843.49	807.67	35.82	23.545		
11,000.00	10,919.15	10,320.57	10,118.63	41.44	36.15	-56.00	192.40	530.92	928.45	893.27	35.18	26.390		
11,100.00	11,019.15	10,332.54	10,122.29	41.77	36.15	-54.88	203.79	530.79	1,015.81	981.21	34.60	29.362		
11,200.00	11,119.15	10,350.00	10,127.21	42.10	36.15	-53.27	220.55	530.61	1,105.07	1,070.80	34.27	32.247		
11,300.00	11,219.15	10,350.00	10,127.21	42.43	36.15	-53.27	220.55	530.61	1,195.70	1,161.87	33.83	35.346		
11,400.00	11,319.15	10,350.00	10,127.21	42.76	36.15	-53.27	220.55	530.61	1,287.71	1,254.18	33.53	38.405		
11,500.00	11,419.15	10,368.29	10,131.80	43.09	36.15	-51.65	238.25	530.41	1,380.44	1,346.90	33.54	41.164		
11,600.00	11,519.15	10,375.06	10,133.36	43.43	36.15	-51.06	244.83	530.34	1,474.12	1,440.64	33.48	44.034		
11,700.00	11,619.15	10,381.20	10,134.70	43.76	36.15	-50.54	250.82	530.27	1,568.49	1,535.02	33.48	46.855		
11,800.00	11,719.15	10,400.00	10,138.42	44.09	36.16	-48.98	269.25	530.07	1,663.65	1,630.02	33.63	49.476		
11,900.00	11,819.15	10,400.00	10,138.42	44.42	36.16	-48.98	269.25	530.07	1,758.97	1,725.31	33.66	52.254		
11,932.89	11,852.04	10,400.00	10,138.42	44.53	36.16	-48.98	269.25	530.07	1,790.44	1,756.76	33.68	53.155		
11,950.00	11,869.15	10,400.00	10,138.42	44.59	36.16	-41.79	269.25	530.07	1,806.77	1,773.08	33.69	53.624		
12,000.00	11,918.99	10,400.00	10,138.42	44.75	36.16	-33.22	269.25	530.07	1,853.88	1,820.17	33.71	54.990		
12,050.00	11,968.33	10,400.00	10,138.42	44.91	36.16	-27.33	269.25	530.07	1,899.85	1,866.13	33.72	56.345		
12,100.00	12,016.79	10,400.00	10,138.42	45.06	36.16	-23.14	269.25	530.07	1,944.41	1,910.70	33.71	57.677		
12,150.00	12,063.99	10,400.00	10,138.42	45.21	36.16	-20.06	269.25	530.07	1,987.33	1,953.64	33.70	58.974		
12,200.00	12,109.58	10,400.00	10,138.42	45.34	36.16	-17.73	269.25	530.07	2,028.41	1,994.73	33.68	60.230		
12,250.00	12,153.20	10,424.73	10,142.39	45.46	36.18	-15.65	293.66	529.80	2,066.77	2,033.00	33.77	61.197		
12,300.00	12,194.54	10,450.00	10,145.35	45.57	36.23	-14.06	318.75	529.53	2,103.49	2,069.64	33.85	62.136		
12,350.00	12,233.27	10,450.00	10,145.35	45.67	36.23	-13.00	318.75	529.53	2,137.09	2,103.28	33.81	63.213		
12,400.00	12,269.10	10,450.00	10,145.35	45.76	36.23	-12.14	318.75	529.53	2,168.12	2,134.36	33.77	64.205		
12,450.00	12,301.75	10,450.00	10,145.35	45.83	36.23	-11.44	318.75	529.53	2,196.47	2,162.74	33.74	65.101		
12,500.00	12,330.98	10,450.00	10,145.35	45.90	36.23	-10.86	318.75	529.53	2,222.03	2,188.31	33.72	65.894		
12,550.00	12,356.57	10,474.53	10,147.16	45.96	36.29	-10.31	343.21	529.26	2,244.05	2,210.28	33.77	66.450		
12,600.00	12,378.31	10,500.00	10,147.94	46.01	36.37	-9.87	368.67	528.98	2,263.43	2,229.61	33.82	66.924		
12,650.00	12,396.05	10,500.00	10,147.94	46.06	36.37	-9.59	368.67	528.98	2,279.05	2,245.22	33.83	67.371		
12,700.00	12,409.66	10,500.00	10,147.94	46.11	36.37	-9.38	368.67	528.98	2,291.55	2,257.69	33.86	67.676		
12,750.00	12,419.01	10,517.47	10,147.82	46.17	36.42	-9.19	386.14	528.79	2,300.72	2,266.80	33.93	67.817		
12,800.00	12,424.05	10,545.65	10,147.19	46.24	36.52	-9.06	414.30	528.48	2,306.32	2,272.31	34.00	67.823		
12,832.89	12,425.00	10,578.46	10,146.45	46.30	36.63	-8.99	447.10	528.11	2,307.73	2,273.67	34.06	67.751		
12,900.00	12,425.00	10,645.50	10,144.96	46.43	36.90	-8.90	514.12	527.38	2,308.83	2,274.63	34.19	67.523		
12,971.32	12,425.00	10,716.79	10,143.36	46.62	37.20	-8.84	585.39	526.59	2,310.26	2,275.91	34.35	67.252		
13,000.00	12,425.00	10,745.47	10,142.72	46.71	37.34	-8.84	614.06	526.28	2,310.90	2,276.47	34.42	67.131		
13,100.00	12,425.00	10,845.44	10,140.49	47.06	37.84	-8.83	714.00	525.18	2,313.10	2,278.41	34.69	66.673		
13,200.00	12,425.00	10,945.42	10,138.26	47.49	38.40	-8.83	813.95	524.08	2,315.31	2,280.31	35.00	66.155		
13,300.00	12,425.00	11,045.39	10,136.03	47.98	39.02	-8.82	913.89	522.98	2,317.51	2,282.18	35.34	65.580		
13,400.00	12,425.00	11,145.37	10,133.79	48.53	39.70	-8.81	1,013.84	521.88	2,319.72	2,284.01	35.71	64.955		
13,500.00	12,425.00	11,245.34	10,131.56	49.13	40.43	-8.80	1,113.78	520.78	2,321.93	2,285.81	36.12	64.284		
13,600.00	12,425.00	11,345.32	10,129.33	49.79	41.21	-8.79	1,213.72	519.68	2,324.13	2,287.58	36.56	63.572		
13,700.00	12,425.00	11,445.29	10,127.10	50.49	42.04	-8.78	1,313.67	518.58	2,326.34	2,289.31	37.03	62.826		
13,800.00	12,425.00	11,545.27	10,124.86	51.24	42.92	-8.77	1,413.61	517.48	2,328.55	2,291.02	37.53	62.049		
13,900.00	12,425.00	11,645.24	10,122.63	52.03	43.84	-8.77	1,513.56	516.38	2,330.75	2,292.70	38.05	61.248		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Ouray Fed Com 302H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	12,425.00	11,745.22	10,120.40	52.87	44.80	-8.76	1,613.50	515.28	2,332.96	2,294.35	38.61	60.425		
14,100.00	12,425.00	11,845.19	10,118.17	53.74	45.80	-8.75	1,713.45	514.18	2,335.17	2,295.98	39.19	59.587		
14,200.00	12,425.00	11,945.17	10,115.93	54.65	46.84	-8.74	1,813.39	513.08	2,337.37	2,297.58	39.79	58.736		
14,300.00	12,425.00	12,045.14	10,113.70	55.59	47.91	-8.73	1,913.33	511.98	2,339.58	2,299.16	40.42	57.877		
14,400.00	12,425.00	12,145.12	10,111.47	56.57	49.02	-8.72	2,013.28	510.88	2,341.79	2,300.72	41.07	57.014		
14,500.00	12,425.00	12,245.09	10,109.24	57.57	50.15	-8.72	2,113.22	509.78	2,344.00	2,302.25	41.75	56.149		
14,600.00	12,425.00	12,345.07	10,107.00	58.61	51.31	-8.71	2,213.17	508.68	2,346.20	2,303.76	42.44	55.285		
14,700.00	12,425.00	12,445.04	10,104.77	59.67	52.50	-8.70	2,313.11	507.58	2,348.41	2,305.26	43.15	54.423		
14,800.00	12,425.00	12,545.02	10,102.54	60.76	53.71	-8.69	2,413.05	506.48	2,350.62	2,306.73	43.88	53.566		
14,900.00	12,425.00	12,644.99	10,100.31	61.88	54.95	-8.68	2,513.00	505.38	2,352.82	2,308.19	44.63	52.718		
15,000.00	12,425.00	12,744.97	10,098.07	63.02	56.20	-8.67	2,612.94	504.28	2,355.03	2,309.64	45.39	51.879		
15,100.00	12,425.00	12,844.94	10,095.84	64.18	57.48	-8.67	2,712.89	503.18	2,357.24	2,311.06	46.17	51.050		
15,200.00	12,425.00	12,944.92	10,093.61	65.36	58.78	-8.66	2,812.83	502.08	2,359.45	2,312.48	46.97	50.233		
15,300.00	12,425.00	13,044.89	10,091.38	66.56	60.09	-8.65	2,912.77	500.98	2,361.65	2,313.87	47.78	49.428		
15,400.00	12,425.00	13,144.87	10,089.14	67.78	61.42	-8.64	3,012.72	499.88	2,363.86	2,315.26	48.60	48.637		
15,500.00	12,425.00	13,244.84	10,086.91	69.02	62.76	-8.63	3,112.66	498.78	2,366.07	2,316.63	49.44	47.859		
15,600.00	12,425.00	13,344.82	10,084.68	70.28	64.12	-8.63	3,212.61	497.69	2,368.28	2,317.99	50.29	47.096		
15,700.00	12,425.00	13,444.79	10,082.45	71.55	65.49	-8.62	3,312.55	496.59	2,370.48	2,319.34	51.15	46.348		
15,800.00	12,425.00	13,544.77	10,080.21	72.84	66.88	-8.61	3,412.49	495.49	2,372.69	2,320.68	52.02	45.614		
15,900.00	12,425.00	13,644.74	10,077.98	74.14	68.27	-8.60	3,512.44	494.39	2,374.90	2,322.00	52.90	44.896		
16,000.00	12,425.00	13,744.72	10,075.75	75.46	69.68	-8.59	3,612.38	493.29	2,377.11	2,323.32	53.79	44.194		
16,100.00	12,425.00	13,844.70	10,073.52	76.79	71.10	-8.58	3,712.33	492.19	2,379.31	2,324.63	54.69	43.506		
16,200.00	12,425.00	13,944.67	10,071.28	78.13	72.53	-8.58	3,812.27	491.09	2,381.52	2,325.92	55.60	42.834		
16,300.00	12,425.00	14,044.65	10,069.05	79.48	73.97	-8.57	3,912.22	489.99	2,383.73	2,327.21	56.52	42.178		
16,400.00	12,425.00	14,144.62	10,066.82	80.85	75.41	-8.56	4,012.16	488.89	2,385.94	2,328.50	57.44	41.536		
16,500.00	12,425.00	14,244.60	10,064.59	82.22	76.87	-8.55	4,112.10	487.79	2,388.15	2,329.77	58.38	40.910		
16,600.00	12,425.00	14,344.57	10,062.35	83.61	78.33	-8.54	4,212.05	486.69	2,390.35	2,331.04	59.32	40.298		
16,700.00	12,425.00	14,444.55	10,060.12	85.00	79.80	-8.54	4,311.99	485.59	2,392.56	2,332.30	60.27	39.701		
16,800.00	12,425.00	14,544.52	10,057.89	86.40	81.28	-8.53	4,411.94	484.49	2,394.77	2,333.55	61.22	39.117		
16,900.00	12,425.00	14,644.50	10,055.66	87.82	82.76	-8.52	4,511.88	483.39	2,396.98	2,334.80	62.18	38.548		
17,000.00	12,425.00	14,744.47	10,053.42	89.24	84.25	-8.51	4,611.82	482.29	2,399.19	2,336.04	63.15	37.993		
17,100.00	12,425.00	14,844.45	10,051.19	90.66	85.75	-8.50	4,711.77	481.19	2,401.40	2,337.27	64.12	37.451		
17,200.00	12,425.00	14,944.42	10,048.96	92.10	87.25	-8.50	4,811.71	480.09	2,403.60	2,338.50	65.10	36.922		
17,300.00	12,425.00	15,044.40	10,046.72	93.54	88.76	-8.49	4,911.66	478.99	2,405.81	2,339.73	66.08	36.407		
17,400.00	12,425.00	15,144.37	10,044.49	94.99	90.27	-8.48	5,011.60	477.89	2,408.02	2,340.95	67.07	35.904		
17,500.00	12,425.00	15,244.35	10,042.26	96.45	91.78	-8.47	5,111.54	476.79	2,410.23	2,342.17	68.06	35.413		
17,600.00	12,425.00	15,344.32	10,040.03	97.91	93.31	-8.47	5,211.49	475.69	2,412.44	2,343.38	69.06	34.934		
17,700.00	12,425.00	15,444.30	10,037.79	99.38	94.83	-8.46	5,311.43	474.59	2,414.65	2,344.59	70.06	34.466		
17,800.00	12,425.00	15,544.27	10,035.56	100.86	96.36	-8.45	5,411.38	473.49	2,416.85	2,345.79	71.06	34.009		
17,900.00	12,425.00	15,644.25	10,033.33	102.34	97.90	-8.44	5,511.32	472.39	2,419.06	2,346.99	72.07	33.564		
18,000.00	12,425.00	15,744.22	10,031.10	103.82	99.43	-8.43	5,611.26	471.29	2,421.27	2,348.18	73.09	33.129		
18,100.00	12,425.00	15,844.20	10,028.86	105.31	100.98	-8.43	5,711.21	470.19	2,423.48	2,349.38	74.10	32.704		
18,200.00	12,425.00	15,944.17	10,026.63	106.80	102.52	-8.42	5,811.15	469.09	2,425.69	2,350.57	75.12	32.289		
18,300.00	12,425.00	16,044.15	10,024.40	108.30	104.07	-8.41	5,911.10	467.99	2,427.90	2,351.75	76.15	31.884		
18,400.00	12,425.00	16,144.12	10,022.17	109.81	105.62	-8.40	6,011.04	466.89	2,430.11	2,352.93	77.17	31.489		
18,500.00	12,425.00	16,244.10	10,019.93	111.32	107.18	-8.40	6,110.99	465.79	2,432.32	2,354.11	78.20	31.103		
18,600.00	12,425.00	16,344.07	10,017.70	112.83	108.73	-8.39	6,210.93	464.69	2,434.52	2,355.29	79.23	30.725		
18,700.00	12,425.00	16,444.05	10,015.47	114.34	110.29	-8.38	6,310.87	463.59	2,436.73	2,356.46	80.27	30.357		
18,800.00	12,425.00	16,544.02	10,013.24	115.86	111.86	-8.37	6,410.82	462.49	2,438.94	2,357.64	81.31	29.997		
18,900.00	12,425.00	16,644.00	10,011.00	117.39	113.42	-8.36	6,510.76	461.40	2,441.15	2,358.80	82.35	29.645		
19,000.00	12,425.00	16,743.97	10,008.77	118.91	114.99	-8.36	6,610.71	460.30	2,443.36	2,359.97	83.39	29.301		
19,100.00	12,425.00	16,843.95	10,006.54	120.44	116.56	-8.35	6,710.65	459.20	2,445.57	2,361.14	84.43	28.964		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Ouray Fed Com 302H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,200.00	12,425.00	16,943.92	10,004.31	121.98	118.13	-8.34	6,810.59	458.10	2,447.78	2,362.30	85.48	28.635		
19,300.00	12,425.00	17,043.90	10,002.07	123.51	119.71	-8.33	6,910.54	457.00	2,449.99	2,363.46	86.53	28.313		
19,400.00	12,425.00	17,143.87	9,999.84	125.05	121.28	-8.33	7,010.48	455.90	2,452.20	2,364.61	87.58	27.999		
19,500.00	12,425.00	17,243.85	9,997.61	126.60	122.86	-8.32	7,110.43	454.80	2,454.41	2,365.77	88.64	27.691		
19,600.00	12,425.00	17,343.82	9,995.38	128.14	124.44	-8.31	7,210.37	453.70	2,456.62	2,366.92	89.69	27.389		
19,700.00	12,425.00	17,443.80	9,993.14	129.69	126.03	-8.30	7,310.31	452.60	2,458.83	2,368.08	90.75	27.094		
19,800.00	12,425.00	17,543.77	9,990.91	131.24	127.61	-8.30	7,410.26	451.50	2,461.04	2,369.23	91.81	26.806		
19,900.00	12,425.00	17,643.75	9,988.68	132.79	129.20	-8.29	7,510.20	450.40	2,463.24	2,370.37	92.87	26.523		
20,000.00	12,425.00	17,743.72	9,986.45	134.35	130.79	-8.28	7,610.15	449.30	2,465.45	2,371.52	93.93	26.247		
20,100.00	12,425.00	17,843.70	9,984.21	135.91	132.38	-8.27	7,710.09	448.20	2,467.66	2,372.67	95.00	25.976		
20,200.00	12,425.00	17,943.67	9,981.98	137.47	133.97	-8.27	7,810.03	447.10	2,469.87	2,373.81	96.06	25.711		
20,300.00	12,425.00	18,043.65	9,979.75	139.03	135.56	-8.26	7,909.98	446.00	2,472.08	2,374.95	97.13	25.452		
20,400.00	12,425.00	18,143.62	9,977.52	140.59	137.15	-8.25	8,009.92	444.90	2,474.29	2,376.10	98.20	25.197		
20,500.00	12,425.00	18,243.60	9,975.28	142.16	138.75	-8.24	8,109.87	443.80	2,476.50	2,377.24	99.27	24.948		
20,600.00	12,425.00	18,343.57	9,973.05	143.73	140.34	-8.24	8,209.81	442.70	2,478.71	2,378.37	100.34	24.704		
20,700.00	12,425.00	18,443.55	9,970.82	145.30	141.94	-8.23	8,309.75	441.60	2,480.92	2,379.51	101.41	24.464		
20,800.00	12,425.00	18,543.52	9,968.59	146.87	143.54	-8.22	8,409.70	440.50	2,483.13	2,380.65	102.48	24.229		
20,900.00	12,425.00	18,643.50	9,966.35	148.44	145.14	-8.21	8,509.64	439.40	2,485.34	2,381.78	103.56	23.999		
21,000.00	12,425.00	18,743.47	9,964.12	150.02	146.74	-8.21	8,609.59	438.30	2,487.55	2,382.92	104.63	23.774		
21,100.00	12,425.00	18,843.45	9,961.89	151.59	148.35	-8.20	8,709.53	437.20	2,489.76	2,384.05	105.71	23.552		
21,200.00	12,425.00	18,943.42	9,959.66	153.17	149.95	-8.19	8,809.48	436.10	2,491.97	2,385.18	106.79	23.335		
21,300.00	12,425.00	19,043.40	9,957.42	154.75	151.56	-8.18	8,909.42	435.00	2,494.18	2,386.31	107.87	23.122		
21,400.00	12,425.00	19,143.37	9,955.19	156.33	153.16	-8.18	9,009.36	433.90	2,496.39	2,387.44	108.95	22.913		
21,500.00	12,425.00	19,243.35	9,952.96	157.92	154.77	-8.17	9,109.31	432.80	2,498.60	2,388.57	110.03	22.708		
21,600.00	12,425.00	19,343.32	9,950.73	159.50	156.38	-8.16	9,209.25	431.70	2,500.81	2,389.70	111.11	22.507		
21,700.00	12,425.00	19,443.30	9,948.49	161.09	157.98	-8.16	9,309.20	430.60	2,503.02	2,390.82	112.20	22.309		
21,800.00	12,425.00	19,543.27	9,946.26	162.67	159.59	-8.15	9,409.14	429.50	2,505.23	2,391.95	113.28	22.115		
21,900.00	12,425.00	19,643.25	9,944.03	164.26	161.21	-8.14	9,509.08	428.40	2,507.44	2,393.08	114.37	21.924		
22,000.00	12,425.00	19,743.22	9,941.80	165.85	162.82	-8.13	9,609.03	427.30	2,509.65	2,394.20	115.45	21.737		
22,100.00	12,425.00	19,843.20	9,939.56	167.44	164.43	-8.13	9,708.97	426.20	2,511.86	2,395.32	116.54	21.553		
22,200.00	12,425.00	19,943.17	9,937.33	169.03	166.04	-8.12	9,808.92	425.11	2,514.07	2,396.44	117.63	21.373		
22,300.00	12,425.00	20,043.15	9,935.10	170.63	167.66	-8.11	9,908.86	424.01	2,516.29	2,397.57	118.72	21.195		
22,400.00	12,425.00	20,143.12	9,932.87	172.22	169.27	-8.10	10,008.80	422.91	2,518.50	2,398.69	119.81	21.021		
22,506.08	12,425.00	20,249.18	9,930.50	173.92	170.98	-8.10	10,114.83	421.74	2,520.84	2,399.88	120.96	20.840		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Ouray Fed Com 602H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-35.74	74.66	-53.73	92.42					
100.00	100.00	91.00	91.00	0.13	0.13	-35.74	74.66	-53.73	91.98	91.80	0.18	511.459		
200.00	200.00	191.00	191.00	0.48	0.47	-35.74	74.66	-53.73	91.98	91.31	0.67	136.661		
300.00	300.00	291.00	291.00	0.84	0.83	-35.74	74.66	-53.73	91.98	90.80	1.18	77.953		
400.00	400.00	391.00	391.00	1.20	1.18	-35.74	74.66	-53.73	91.98	90.30	1.69	54.527		
500.00	500.00	491.00	491.00	1.56	1.54	-35.74	74.66	-53.73	91.98	89.79	2.19	41.927		
600.00	600.00	591.00	591.00	1.92	1.90	-35.74	74.66	-53.73	91.98	89.28	2.70	34.058		
700.00	700.00	691.00	691.00	2.28	2.26	-35.74	74.66	-53.73	91.98	88.78	3.21	28.675		
800.00	800.00	791.00	791.00	2.63	2.62	-35.74	74.66	-53.73	91.98	88.27	3.71	24.762		
900.00	900.00	891.00	891.00	2.99	2.98	-35.74	74.66	-53.73	91.98	87.76	4.22	21.788		
1,000.00	1,000.00	991.00	991.00	3.35	3.34	-35.74	74.66	-53.73	91.98	87.26	4.73	19.452		
1,100.00	1,100.00	1,091.00	1,091.00	3.71	3.69	-35.74	74.66	-53.73	91.98	86.75	5.24	17.569		
1,200.00	1,200.00	1,191.00	1,191.00	4.07	4.05	-35.74	74.66	-53.73	91.98	86.24	5.74	16.018		
1,300.00	1,300.00	1,291.00	1,291.00	4.43	4.41	-35.74	74.66	-53.73	91.98	85.73	6.25	14.719		
1,400.00	1,400.00	1,391.00	1,391.00	4.79	4.77	-35.74	74.66	-53.73	91.98	85.23	6.76	13.614		
1,500.00	1,500.00	1,491.00	1,491.00	5.14	5.13	-35.74	74.66	-53.73	91.98	84.72	7.26	12.664 CC		
1,600.00	1,599.99	1,590.99	1,590.99	5.49	5.49	-130.70	74.66	-53.73	92.83	85.07	7.76	11.957		
1,700.00	1,699.91	1,690.91	1,690.91	5.84	5.84	-132.46	74.66	-53.73	95.44	87.18	8.26	11.556		
1,800.00	1,799.69	1,790.69	1,790.69	6.18	6.20	-135.17	74.66	-53.73	99.97	91.22	8.76	11.419		
1,900.00	1,899.27	1,890.27	1,890.27	6.53	6.56	-138.57	74.66	-53.73	106.67	97.41	9.25	11.528		
2,000.00	1,998.57	1,989.57	1,989.57	6.89	6.92	-142.33	74.66	-53.73	115.76	106.01	9.75	11.871		
2,100.00	2,097.54	2,088.54	2,088.54	7.26	7.27	-146.16	74.66	-53.73	127.45	117.20	10.25	12.433		
2,200.03	2,196.12	2,187.12	2,187.12	7.64	7.62	-149.85	74.66	-53.73	141.89	131.14	10.75	13.198		
2,300.00	2,294.41	2,285.41	2,285.41	8.03	7.98	-153.16	74.66	-53.73	157.96	146.72	11.25	14.043		
2,400.00	2,392.74	2,383.74	2,383.74	8.42	8.33	-155.85	74.66	-53.73	174.47	162.72	11.75	14.852		
2,500.00	2,491.06	2,482.06	2,482.06	8.83	8.68	-158.08	74.66	-53.73	191.29	179.04	12.25	15.620		
2,600.00	2,589.39	2,580.39	2,580.39	9.24	9.03	-159.95	74.66	-53.73	208.34	195.60	12.75	16.346		
2,700.00	2,687.72	2,678.72	2,678.72	9.65	9.39	-161.53	74.66	-53.73	225.58	212.33	13.25	17.029		
2,800.00	2,786.04	2,777.04	2,777.04	10.07	9.74	-162.89	74.66	-53.73	242.96	229.21	13.75	17.672		
2,900.00	2,884.37	2,875.37	2,875.37	10.49	10.09	-164.07	74.66	-53.73	260.46	246.21	14.25	18.276		
3,000.00	2,982.69	2,973.69	2,973.69	10.92	10.44	-165.10	74.66	-53.73	278.05	263.29	14.75	18.845		
3,100.00	3,081.02	3,072.02	3,072.02	11.35	10.80	-166.01	74.66	-53.73	295.71	280.46	15.26	19.381		
3,200.00	3,179.34	3,170.34	3,170.34	11.78	11.15	-166.81	74.66	-53.73	313.45	297.68	15.76	19.885		
3,300.00	3,277.67	3,268.67	3,268.67	12.21	11.50	-167.53	74.66	-53.73	331.23	314.96	16.27	20.361		
3,400.00	3,375.99	3,366.99	3,366.99	12.65	11.85	-168.18	74.66	-53.73	349.06	332.29	16.77	20.810		
3,500.00	3,474.32	3,472.24	3,472.24	13.09	12.22	-168.80	74.45	-53.08	366.31	349.01	17.30	21.174		
3,600.00	3,572.64	3,581.81	3,581.74	13.53	12.59	-169.42	73.31	-49.62	380.94	363.12	17.82	21.372		
3,700.00	3,670.97	3,692.20	3,691.92	13.97	12.97	-170.02	71.18	-43.12	392.76	374.42	18.34	21.417		
3,800.00	3,769.29	3,803.25	3,802.50	14.41	13.35	-170.62	68.03	-33.52	401.73	382.89	18.84	21.320		
3,900.00	3,867.62	3,914.77	3,913.21	14.86	13.73	-171.23	63.86	-20.82	407.85	388.51	19.34	21.092		
4,000.00	3,965.94	4,016.58	4,014.03	15.30	14.09	-171.80	59.46	-7.40	412.11	392.28	19.84	20.776		
4,100.00	4,064.27	4,116.41	4,112.89	15.75	14.44	-172.35	55.13	5.80	416.37	396.03	20.34	20.471		
4,200.00	4,162.60	4,216.24	4,211.75	16.20	14.80	-172.88	50.79	19.00	420.67	399.82	20.84	20.182		
4,300.00	4,260.92	4,316.07	4,310.61	16.65	15.16	-173.40	46.46	32.20	425.00	403.65	21.35	19.906		
4,400.00	4,359.25	4,415.90	4,409.47	17.09	15.53	-173.92	42.13	45.40	429.37	407.51	21.86	19.644		
4,500.00	4,457.57	4,515.73	4,508.33	17.55	15.89	-174.42	37.80	58.60	433.77	411.40	22.37	19.394		
4,600.00	4,555.90	4,615.56	4,607.19	18.00	16.26	-174.91	33.47	71.80	438.20	415.32	22.88	19.155		
4,700.00	4,654.22	4,715.39	4,706.05	18.45	16.64	-175.40	29.13	85.00	442.66	419.28	23.39	18.927		
4,800.00	4,752.55	4,815.23	4,804.91	18.90	17.01	-175.87	24.80	98.20	447.16	423.26	23.90	18.710		
4,900.00	4,850.87	4,915.06	4,903.77	19.35	17.39	-176.33	20.47	111.40	451.68	427.27	24.41	18.502		
5,000.00	4,949.20	5,014.89	5,002.63	19.81	17.77	-176.79	16.14	124.60	456.24	431.31	24.93	18.302		
5,100.00	5,047.52	5,114.72	5,101.49	20.26	18.15	-177.23	11.81	137.80	460.82	435.38	25.44	18.112		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Ouray Fed Com 602H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,145.85	5,214.55	5,200.35	20.72	18.53	-177.67	7.47	151.00	465.43	439.47	25.96	17.929		
5,300.00	5,244.17	5,314.38	5,299.21	21.17	18.91	-178.10	3.14	164.20	470.07	443.59	26.48	17.753		
5,400.00	5,342.50	5,414.21	5,398.07	21.63	19.30	-178.52	-1.19	177.41	474.73	447.73	27.00	17.585		
5,500.00	5,440.82	5,514.05	5,496.93	22.08	19.69	-178.93	-5.52	190.61	479.41	451.90	27.52	17.423		
5,600.00	5,539.15	5,613.88	5,595.79	22.54	20.08	-179.33	-9.85	203.81	484.13	456.09	28.04	17.267		
5,700.00	5,637.48	5,713.71	5,694.65	22.99	20.47	-179.73	-14.19	217.01	488.86	460.30	28.56	17.118		
5,800.00	5,735.80	5,813.54	5,793.51	23.45	20.86	179.88	-18.52	230.21	493.62	464.54	29.08	16.974		
5,900.00	5,834.13	5,913.37	5,892.37	23.91	21.25	179.50	-22.85	243.41	498.40	468.79	29.60	16.835		
6,000.00	5,932.45	6,013.20	5,991.23	24.37	21.64	179.13	-27.18	256.61	503.20	473.07	30.13	16.702		
6,100.00	6,030.78	6,113.03	6,090.09	24.82	22.04	178.76	-31.51	269.81	508.02	477.37	30.65	16.573		
6,200.00	6,129.10	6,212.87	6,188.95	25.28	22.43	178.40	-35.85	283.01	512.86	481.68	31.18	16.449		
6,300.00	6,227.43	6,312.70	6,287.81	25.74	22.83	178.05	-40.18	296.21	517.73	486.02	31.71	16.329		
6,400.00	6,325.75	6,412.53	6,386.67	26.20	23.23	177.70	-44.51	309.41	522.61	490.37	32.23	16.213		
6,500.00	6,424.08	6,512.36	6,485.53	26.66	23.63	177.36	-48.84	322.61	527.51	494.75	32.76	16.101		
6,560.82	6,483.88	6,573.08	6,545.66	26.94	23.87	177.16	-51.48	330.64	530.50	497.41	33.08	16.035		
6,600.00	6,522.44	6,612.20	6,584.40	27.11	24.03	177.03	-53.17	335.81	532.23	498.93	33.29	15.987		
6,700.00	6,621.16	6,712.11	6,683.34	27.55	24.43	176.69	-57.51	349.03	534.83	501.01	33.82	15.815		
6,800.00	6,720.27	6,812.05	6,782.31	27.97	24.83	176.34	-61.85	362.24	534.85	500.50	34.34	15.573		
6,900.00	6,819.68	6,911.96	6,881.24	28.36	25.23	175.96	-66.18	375.45	532.27	497.40	34.87	15.266		
7,000.00	6,919.35	7,011.75	6,980.06	28.73	25.63	175.55	-70.51	388.65	527.11	491.72	35.39	14.895		
7,100.00	7,019.20	7,111.37	7,078.71	29.08	26.04	175.11	-74.83	401.82	519.37	483.47	35.90	14.465		
7,200.00	7,119.15	7,210.74	7,177.12	29.41	26.44	174.62	-79.15	414.96	509.07	472.65	36.42	13.979		
7,260.85	7,180.00	7,271.07	7,236.86	29.60	26.68	-91.36	-81.76	422.94	501.55	464.82	36.73	13.657		
7,300.00	7,219.15	7,309.83	7,275.25	29.72	26.84	-91.57	-83.45	428.06	496.41	459.49	36.92	13.445		
7,400.00	7,319.15	7,408.86	7,373.31	30.02	27.24	-92.12	-87.74	441.16	483.32	445.89	37.42	12.915		
7,500.00	7,419.15	7,507.89	7,471.37	30.32	27.64	-92.71	-92.04	454.25	470.27	432.34	37.93	12.399		
7,600.00	7,519.15	7,606.92	7,569.44	30.62	28.04	-93.33	-96.34	467.34	457.28	418.85	38.44	11.897		
7,700.00	7,619.15	7,705.94	7,667.50	30.92	28.45	-93.99	-100.63	480.44	444.34	405.40	38.95	11.409		
7,800.00	7,719.15	7,804.97	7,765.56	31.23	28.85	-94.68	-104.93	493.53	431.47	392.01	39.46	10.935		
7,900.00	7,819.15	7,904.00	7,863.63	31.54	29.25	-95.42	-109.23	506.63	418.66	378.68	39.98	10.473		
8,000.00	7,919.15	8,003.02	7,961.69	31.84	29.66	-96.21	-113.52	519.72	405.92	365.43	40.49	10.024		
8,100.00	8,019.15	8,102.05	8,059.75	32.15	30.06	-97.04	-117.82	532.81	393.27	352.25	41.02	9.588		
8,200.00	8,119.15	8,201.08	8,157.82	32.46	30.47	-97.93	-122.12	545.91	380.70	339.15	41.55	9.163		
8,300.00	8,219.15	8,300.10	8,255.88	32.77	30.87	-98.88	-126.42	559.00	368.23	326.15	42.08	8.751		
8,400.00	8,319.15	8,399.13	8,353.94	33.08	31.28	-99.90	-130.71	572.10	355.87	313.25	42.61	8.351		
8,500.00	8,419.15	8,498.16	8,452.01	33.39	31.69	-100.99	-135.01	585.19	343.62	300.46	43.16	7.962		
8,600.00	8,519.15	8,597.18	8,550.07	33.71	32.09	-102.16	-139.31	598.29	331.51	287.80	43.70	7.585		
8,700.00	8,619.15	8,696.21	8,648.13	34.02	32.50	-103.41	-143.60	611.38	319.54	275.28	44.26	7.220		
8,800.00	8,719.15	8,795.24	8,746.20	34.33	32.91	-104.77	-147.90	624.47	307.74	262.92	44.82	6.866		
8,900.00	8,819.15	8,894.26	8,844.26	34.65	33.31	-106.23	-152.20	637.57	296.12	250.73	45.39	6.523		
9,000.00	8,919.15	8,993.29	8,942.32	34.97	33.72	-107.80	-156.50	650.66	284.71	238.73	45.98	6.193		
9,100.00	9,019.15	9,092.32	9,040.39	35.28	34.13	-109.51	-160.79	663.76	273.53	226.96	46.57	5.874		
9,200.00	9,119.15	9,191.35	9,138.45	35.60	34.54	-111.36	-165.09	676.85	262.61	215.44	47.17	5.567		
9,300.00	9,219.15	9,290.37	9,236.51	35.92	34.95	-113.36	-169.39	689.95	251.99	204.20	47.79	5.273		
9,400.00	9,319.15	9,389.40	9,334.57	36.24	35.35	-115.54	-173.68	703.04	241.70	193.28	48.42	4.991		
9,500.00	9,419.15	9,488.43	9,432.64	36.56	35.76	-117.91	-177.98	716.13	231.79	182.72	49.07	4.724		
9,600.00	9,519.15	9,587.45	9,530.70	36.88	36.17	-120.48	-182.28	729.23	222.31	172.58	49.73	4.470		
9,700.00	9,619.15	9,686.48	9,628.76	37.20	36.58	-123.27	-186.57	742.32	213.32	162.90	50.42	4.231		
9,800.00	9,719.15	9,784.02	9,725.39	37.53	36.98	-126.18	-190.72	754.94	205.06	153.95	51.11	4.012		
9,900.00	9,819.15	9,880.47	9,821.21	37.85	37.37	-128.77	-194.15	765.42	198.57	146.81	51.76	3.836		
10,000.00	9,919.15	9,977.43	9,917.78	38.17	37.74	-130.91	-196.85	773.63	193.84	141.46	52.38	3.701		
10,100.00	10,019.15	10,074.77	10,014.92	38.50	38.10	-132.52	-198.79	779.53	190.63	137.68	52.95	3.600		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Ouray Fed Com 602H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.00	10,119.15	10,172.36	10,112.44	38.82	38.44	-133.51	-199.95	783.09	188.78	135.32	53.46	3.531		
10,300.00	10,219.15	10,270.08	10,210.15	39.15	38.77	-133.84	-200.34	784.27	188.18	134.25	53.92	3.490		
10,400.00	10,319.15	10,370.08	10,310.15	39.47	39.09	-133.84	-200.34	784.27	188.18	133.79	54.39	3.460		
10,500.00	10,419.15	10,470.08	10,410.15	39.80	39.42	-133.84	-200.34	784.27	188.18	133.32	54.86	3.430		
10,600.00	10,519.15	10,570.08	10,510.15	40.13	39.74	-133.84	-200.34	784.27	188.18	132.85	55.33	3.401		
10,700.00	10,619.15	10,670.08	10,610.15	40.45	40.07	-133.84	-200.34	784.27	188.18	132.38	55.79	3.373		
10,800.00	10,719.15	10,770.08	10,710.15	40.78	40.39	-133.84	-200.34	784.27	188.18	131.91	56.26	3.345		
10,900.00	10,819.15	10,870.08	10,810.15	41.11	40.72	-133.84	-200.34	784.27	188.18	131.44	56.73	3.317		
11,000.00	10,919.15	10,970.08	10,910.15	41.44	41.05	-133.84	-200.34	784.27	188.18	130.97	57.21	3.290		
11,100.00	11,019.15	11,070.08	11,010.15	41.77	41.38	-133.84	-200.34	784.27	188.18	130.50	57.68	3.263		
11,200.00	11,119.15	11,170.08	11,110.15	42.10	41.70	-133.84	-200.34	784.27	188.18	130.03	58.15	3.236		
11,300.00	11,219.15	11,270.08	11,210.15	42.43	42.03	-133.84	-200.34	784.27	188.18	129.56	58.62	3.210		
11,400.00	11,319.15	11,370.08	11,310.15	42.76	42.36	-133.84	-200.34	784.27	188.18	129.08	59.09	3.184		
11,500.00	11,419.15	11,489.17	11,428.90	43.09	42.74	-132.33	-193.71	784.20	184.66	125.15	59.51	3.103		
11,600.00	11,519.15	11,609.31	11,544.87	43.43	43.08	-124.40	-163.22	783.86	168.61	109.58	59.03	2.856		
11,700.00	11,619.15	11,713.16	11,638.14	43.76	43.31	-109.31	-117.88	783.36	147.46	88.61	58.85	2.506		
11,793.85	11,713.00	11,793.77	11,704.00	44.07	43.45	-90.63	-71.51	782.85	137.16	78.39	58.76	2.334 ES, SF		
11,800.00	11,719.15	11,798.50	11,707.65	44.09	43.46	-89.37	-68.50	782.82	137.21	78.54	58.68	2.338		
11,900.00	11,819.15	11,867.02	11,757.67	44.42	43.55	-70.68	-21.73	782.30	155.06	100.02	55.04	2.817		
11,932.89	11,852.04	11,886.40	11,770.76	44.53	43.57	-65.59	-7.45	782.15	167.75	114.35	53.40	3.142		
11,950.00	11,869.15	11,900.00	11,779.67	44.59	43.59	-58.11	2.84	782.03	175.43	122.46	52.97	3.312		
12,000.00	11,918.99	11,924.18	11,794.87	44.75	43.60	-50.68	21.63	781.83	199.93	149.56	50.38	3.969		
12,050.00	11,968.33	11,950.00	11,810.23	44.91	43.63	-43.93	42.39	781.60	226.47	178.13	48.34	4.685		
12,100.00	12,016.79	11,979.51	11,826.61	45.06	43.64	-37.85	66.93	781.33	253.73	206.80	46.93	5.407		
12,150.00	12,063.99	12,000.00	11,837.23	45.21	43.66	-33.76	84.45	781.14	281.08	236.07	45.02	6.244		
12,200.00	12,109.58	12,034.02	11,853.45	45.34	43.67	-29.29	114.34	780.81	307.66	263.38	44.27	6.949		
12,250.00	12,153.20	12,061.03	11,865.05	45.46	43.68	-26.16	138.73	780.54	333.47	290.32	43.15	7.729		
12,300.00	12,194.54	12,087.91	11,875.45	45.57	43.68	-23.59	163.52	780.26	358.14	316.01	42.13	8.501		
12,350.00	12,233.27	12,114.69	11,884.63	45.67	43.69	-21.46	188.66	779.99	381.50	340.28	41.22	9.255		
12,400.00	12,269.10	12,150.00	11,894.93	45.76	43.70	-19.43	222.43	779.62	403.56	362.81	40.75	9.903		
12,450.00	12,301.75	12,167.97	11,899.37	45.83	43.70	-18.22	239.84	779.42	423.75	384.03	39.72	10.668		
12,500.00	12,330.98	12,200.00	11,905.91	45.90	43.71	-16.86	271.19	779.08	442.49	403.22	39.28	11.266		
12,550.00	12,356.57	12,220.97	11,909.25	45.96	43.71	-15.94	291.89	778.85	459.39	420.72	38.67	11.879		
12,600.00	12,378.31	12,250.00	11,912.61	46.01	43.72	-15.02	320.72	778.53	474.57	436.21	38.37	12.369		
12,650.00	12,396.05	12,273.76	11,914.27	46.06	43.74	-14.32	344.43	778.27	487.89	449.77	38.12	12.799		
12,700.00	12,409.66	12,300.00	11,914.95	46.11	43.76	-13.70	370.65	777.98	499.33	461.29	38.04	13.127		
12,750.00	12,419.01	12,330.32	11,914.32	46.17	43.78	-13.15	400.95	777.65	508.81	470.74	38.07	13.364		
12,800.00	12,424.05	12,379.78	11,912.59	46.24	43.85	-12.58	450.39	777.11	514.89	476.78	38.10	13.513		
12,832.89	12,425.00	12,412.56	11,911.45	46.30	43.91	-12.32	483.15	776.75	516.59	478.46	38.13	13.547		
12,900.00	12,425.00	12,479.58	11,909.11	46.43	44.06	-11.97	550.12	776.01	518.36	480.14	38.22	13.563		
12,971.32	12,425.00	12,550.85	11,906.63	46.62	44.27	-11.77	621.34	775.23	520.61	482.26	38.35	13.575		
13,000.00	12,425.00	12,579.52	11,905.63	46.71	44.37	-11.75	649.99	774.91	521.59	483.18	38.41	13.579		
13,100.00	12,425.00	12,679.46	11,902.15	47.06	44.77	-11.67	749.86	773.81	525.00	486.35	38.65	13.583		
13,200.00	12,425.00	12,779.40	11,898.66	47.49	45.24	-11.59	849.73	772.71	528.42	489.49	38.92	13.575		
13,300.00	12,425.00	12,879.33	11,895.18	47.98	45.77	-11.52	949.61	771.61	531.83	492.60	39.23	13.556		
13,400.00	12,425.00	12,979.27	11,891.70	48.53	46.36	-11.44	1,049.48	770.51	535.25	495.68	39.57	13.526		
13,500.00	12,425.00	13,079.21	11,888.21	49.13	47.00	-11.37	1,149.35	769.41	538.66	498.72	39.94	13.486		
13,600.00	12,425.00	13,179.15	11,884.73	49.79	47.70	-11.30	1,249.22	768.31	542.08	501.74	40.34	13.437		
13,700.00	12,425.00	13,279.09	11,881.24	50.49	48.44	-11.22	1,349.09	767.21	545.50	504.73	40.77	13.378		
13,800.00	12,425.00	13,379.03	11,877.76	51.24	49.22	-11.15	1,448.97	766.12	548.92	507.69	41.23	13.312		
13,900.00	12,425.00	13,478.97	11,874.28	52.03	50.04	-11.08	1,548.84	765.02	552.34	510.62	41.72	13.239		
14,000.00	12,425.00	13,578.91	11,870.79	52.87	50.91	-11.01	1,648.71	763.92	555.76	513.53	42.23	13.159		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Ouray Fed Com 602H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	12,425.00	13,678.85	11,867.31	53.74	51.81	-10.95	1,748.58	762.82	559.18	516.41	42.77	13.073		
14,200.00	12,425.00	13,778.79	11,863.83	54.65	52.75	-10.88	1,848.46	761.72	562.60	519.27	43.34	12.982		
14,300.00	12,425.00	13,878.73	11,860.34	55.59	53.72	-10.81	1,948.33	760.62	566.03	522.11	43.92	12.887		
14,400.00	12,425.00	13,978.67	11,856.86	56.57	54.72	-10.75	2,048.20	759.52	569.45	524.92	44.53	12.788		
14,500.00	12,425.00	14,078.61	11,853.38	57.57	55.76	-10.68	2,148.07	758.42	572.88	527.72	45.16	12.685		
14,600.00	12,425.00	14,178.54	11,849.89	58.61	56.82	-10.62	2,247.95	757.32	576.30	530.49	45.81	12.580		
14,700.00	12,425.00	14,278.48	11,846.41	59.67	57.91	-10.55	2,347.82	756.22	579.73	533.25	46.48	12.473		
14,800.00	12,425.00	14,378.42	11,842.92	60.76	59.03	-10.49	2,447.69	755.12	583.16	535.99	47.17	12.364		
14,900.00	12,425.00	14,478.36	11,839.44	61.88	60.17	-10.43	2,547.56	754.02	586.58	538.71	47.87	12.253		
15,000.00	12,425.00	14,578.30	11,835.96	63.02	61.33	-10.37	2,647.44	752.92	590.01	541.42	48.59	12.142		
15,100.00	12,425.00	14,678.24	11,832.47	64.18	62.52	-10.30	2,747.31	751.82	593.44	544.11	49.33	12.030		
15,200.00	12,425.00	14,778.18	11,828.99	65.36	63.72	-10.24	2,847.18	750.72	596.87	546.79	50.08	11.918		
15,300.00	12,425.00	14,878.12	11,825.51	66.56	64.95	-10.19	2,947.05	749.62	600.30	549.45	50.85	11.805		
15,400.00	12,425.00	14,978.06	11,822.02	67.78	66.19	-10.13	3,046.93	748.53	603.73	552.10	51.63	11.693		
15,500.00	12,425.00	15,078.00	11,818.54	69.02	67.45	-10.07	3,146.80	747.43	607.16	554.74	52.42	11.582		
15,600.00	12,425.00	15,177.94	11,815.05	70.28	68.73	-10.01	3,246.67	746.33	610.60	557.37	53.23	11.471		
15,700.00	12,425.00	15,277.88	11,811.57	71.55	70.03	-9.95	3,346.54	745.23	614.03	559.98	54.05	11.361		
15,800.00	12,425.00	15,377.82	11,808.09	72.84	71.33	-9.90	3,446.42	744.13	617.46	562.59	54.88	11.252		
15,900.00	12,425.00	15,477.75	11,804.60	74.14	72.66	-9.84	3,546.29	743.03	620.90	565.18	55.71	11.144		
16,000.00	12,425.00	15,577.69	11,801.12	75.46	73.99	-9.79	3,646.16	741.93	624.33	567.77	56.56	11.038		
16,100.00	12,425.00	15,677.63	11,797.64	76.79	75.34	-9.73	3,746.03	740.83	627.77	570.34	57.42	10.932		
16,200.00	12,425.00	15,777.57	11,794.15	78.13	76.70	-9.68	3,845.91	739.73	631.20	572.91	58.29	10.829		
16,300.00	12,425.00	15,877.51	11,790.67	79.48	78.07	-9.63	3,945.78	738.63	634.64	575.47	59.17	10.726		
16,400.00	12,425.00	15,977.45	11,787.19	80.85	79.45	-9.58	4,045.65	737.53	638.07	578.02	60.05	10.625		
16,500.00	12,425.00	16,077.39	11,783.70	82.22	80.84	-9.52	4,145.52	736.43	641.51	580.57	60.94	10.526		
16,600.00	12,425.00	16,177.33	11,780.22	83.61	82.24	-9.47	4,245.40	735.33	644.95	583.10	61.85	10.428		
16,700.00	12,425.00	16,277.27	11,776.73	85.00	83.65	-9.42	4,345.27	734.23	648.39	585.64	62.75	10.332		
16,800.00	12,425.00	16,377.21	11,773.25	86.40	85.07	-9.37	4,445.14	733.13	651.83	588.16	63.67	10.238		
16,900.00	12,425.00	16,477.15	11,769.77	87.82	86.50	-9.32	4,545.01	732.04	655.27	590.68	64.59	10.145		
17,000.00	12,425.00	16,577.09	11,766.28	89.24	87.93	-9.27	4,644.89	730.94	658.71	593.19	65.52	10.054		
17,100.00	12,425.00	16,677.03	11,762.80	90.66	89.38	-9.22	4,744.76	729.84	662.15	595.70	66.45	9.965		
17,200.00	12,425.00	16,776.96	11,759.32	92.10	90.83	-9.17	4,844.63	728.74	665.59	598.20	67.39	9.877		
17,300.00	12,425.00	16,876.90	11,755.83	93.54	92.28	-9.13	4,944.50	727.64	669.03	600.70	68.33	9.791		
17,400.00	12,425.00	16,976.84	11,752.35	94.99	93.75	-9.08	5,044.38	726.54	672.47	603.19	69.28	9.707		
17,500.00	12,425.00	17,076.78	11,748.87	96.45	95.22	-9.03	5,144.25	725.44	675.91	605.68	70.23	9.624		
17,600.00	12,425.00	17,176.72	11,745.38	97.91	96.69	-8.99	5,244.12	724.34	679.36	608.16	71.19	9.542		
17,700.00	12,425.00	17,276.66	11,741.90	99.38	98.17	-8.94	5,343.99	723.24	682.80	610.64	72.16	9.463		
17,800.00	12,425.00	17,376.60	11,738.41	100.86	99.66	-8.90	5,443.87	722.14	686.24	613.12	73.12	9.385		
17,900.00	12,425.00	17,476.54	11,734.93	102.34	101.15	-8.85	5,543.74	721.04	689.69	615.59	74.10	9.308		
18,000.00	12,425.00	17,576.48	11,731.45	103.82	102.64	-8.81	5,643.61	719.94	693.13	618.06	75.07	9.233		
18,100.00	12,425.00	17,676.42	11,727.96	105.31	104.14	-8.76	5,743.48	718.84	696.57	620.52	76.05	9.159		
18,200.00	12,425.00	17,776.36	11,724.48	106.80	105.65	-8.72	5,843.35	717.74	700.02	622.98	77.04	9.087		
18,300.00	12,425.00	17,876.30	11,721.00	108.30	107.16	-8.68	5,943.23	716.64	703.47	625.44	78.02	9.016		
18,400.00	12,425.00	17,976.24	11,717.51	109.81	108.67	-8.63	6,043.10	715.55	706.91	627.90	79.01	8.947		
18,500.00	12,425.00	18,076.17	11,714.03	111.32	110.19	-8.59	6,142.97	714.45	710.36	630.35	80.01	8.879		
18,600.00	12,425.00	18,176.11	11,710.54	112.83	111.71	-8.55	6,242.84	713.35	713.80	632.80	81.00	8.812		
18,700.00	12,425.00	18,276.05	11,707.06	114.34	113.24	-8.51	6,342.72	712.25	717.25	635.25	82.00	8.747		
18,800.00	12,425.00	18,375.99	11,703.58	115.86	114.77	-8.47	6,442.59	711.15	720.70	637.70	83.00	8.683		
18,900.00	12,425.00	18,475.93	11,700.09	117.39	116.30	-8.43	6,542.46	710.05	724.15	640.14	84.01	8.620		
19,000.00	12,425.00	18,575.87	11,696.61	118.91	117.83	-8.39	6,642.33	708.95	727.60	642.58	85.02	8.558		
19,100.00	12,425.00	18,675.81	11,693.13	120.44	119.37	-8.35	6,742.21	707.85	731.04	645.02	86.03	8.498		
19,200.00	12,425.00	18,775.75	11,689.64	121.98	120.91	-8.31	6,842.08	706.75	734.49	647.45	87.04	8.439		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Ouray Fed Com 602H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,300.00	12,425.00	18,875.69	11,686.16	123.51	122.46	-8.27	6,941.95	705.65	737.94	649.89	88.05	8.380		
19,400.00	12,425.00	18,975.63	11,682.68	125.05	124.00	-8.23	7,041.82	704.55	741.39	652.32	89.07	8.324		
19,500.00	12,425.00	19,075.57	11,679.19	126.60	125.55	-8.19	7,141.70	703.45	744.84	654.75	90.09	8.268		
19,600.00	12,425.00	19,175.51	11,675.71	128.14	127.11	-8.15	7,241.57	702.35	748.29	657.18	91.11	8.213		
19,700.00	12,425.00	19,275.45	11,672.22	129.69	128.66	-8.11	7,341.44	701.25	751.74	659.60	92.14	8.159		
19,800.00	12,425.00	19,375.38	11,668.74	131.24	130.22	-8.08	7,441.31	700.15	755.19	662.03	93.16	8.106		
19,900.00	12,425.00	19,475.32	11,665.26	132.79	131.78	-8.04	7,541.19	699.05	758.64	664.45	94.19	8.054		
20,000.00	12,425.00	19,575.26	11,661.77	134.35	133.34	-8.00	7,641.06	697.96	762.10	666.88	95.22	8.004		
20,100.00	12,425.00	19,675.20	11,658.29	135.91	134.90	-7.97	7,740.93	696.86	765.55	669.30	96.25	7.954		
20,200.00	12,425.00	19,775.14	11,654.81	137.47	136.47	-7.93	7,840.80	695.76	769.00	671.72	97.28	7.905		
20,300.00	12,425.00	19,875.08	11,651.32	139.03	138.04	-7.89	7,940.68	694.66	772.45	674.13	98.32	7.857		
20,400.00	12,425.00	19,975.02	11,647.84	140.59	139.61	-7.86	8,040.55	693.56	775.91	676.55	99.35	7.809		
20,500.00	12,425.00	20,074.96	11,644.36	142.16	141.18	-7.82	8,140.42	692.46	779.36	678.97	100.39	7.763		
20,600.00	12,425.00	20,174.90	11,640.87	143.73	142.75	-7.79	8,240.29	691.36	782.81	681.38	101.43	7.718		
20,700.00	12,425.00	20,274.84	11,637.39	145.30	144.33	-7.75	8,340.17	690.26	786.27	683.79	102.47	7.673		
20,800.00	12,425.00	20,374.78	11,633.90	146.87	145.91	-7.72	8,440.04	689.16	789.72	686.21	103.51	7.629		
20,900.00	12,425.00	20,474.72	11,630.42	148.44	147.49	-7.69	8,539.91	688.06	793.17	688.62	104.56	7.586		
21,000.00	12,425.00	20,574.66	11,626.94	150.02	149.07	-7.65	8,639.78	686.96	796.63	691.03	105.60	7.544		
21,100.00	12,425.00	20,674.59	11,623.45	151.59	150.65	-7.62	8,739.66	685.86	800.08	693.44	106.65	7.502		
21,200.00	12,425.00	20,774.53	11,619.97	153.17	152.23	-7.59	8,839.53	684.76	803.54	695.84	107.69	7.461		
21,300.00	12,425.00	20,874.47	11,616.49	154.75	153.82	-7.55	8,939.40	683.66	806.99	698.25	108.74	7.421		
21,400.00	12,425.00	20,974.41	11,613.00	156.33	155.40	-7.52	9,039.27	682.56	810.45	700.66	109.79	7.382		
21,500.00	12,425.00	21,074.35	11,609.52	157.92	156.99	-7.49	9,139.15	681.47	813.90	703.06	110.84	7.343		
21,600.00	12,425.00	21,174.29	11,606.03	159.50	158.58	-7.46	9,239.02	680.37	817.36	705.47	111.89	7.305		
21,700.00	12,425.00	21,274.23	11,602.55	161.09	160.17	-7.42	9,338.89	679.27	820.82	707.87	112.95	7.267		
21,800.00	12,425.00	21,374.17	11,599.07	162.67	161.76	-7.39	9,438.76	678.17	824.27	710.27	114.00	7.231		
21,900.00	12,425.00	21,474.11	11,595.58	164.26	163.35	-7.36	9,538.64	677.07	827.73	712.67	115.05	7.194		
22,000.00	12,425.00	21,574.05	11,592.10	165.85	164.95	-7.33	9,638.51	675.97	831.19	715.08	116.11	7.159		
22,100.00	12,425.00	21,673.99	11,588.62	167.44	166.54	-7.30	9,738.38	674.87	834.64	717.48	117.17	7.124		
22,200.00	12,425.00	21,773.93	11,585.13	169.03	168.14	-7.27	9,838.25	673.77	838.10	719.88	118.22	7.089		
22,300.00	12,425.00	21,873.87	11,581.65	170.63	169.74	-7.24	9,938.13	672.67	841.56	722.28	119.28	7.055		
22,400.00	12,425.00	21,973.80	11,578.17	172.22	171.33	-7.21	10,038.00	671.57	845.02	724.67	120.34	7.022		
22,506.08	12,425.00	22,079.82	11,574.47	173.92	173.03	-7.18	10,143.94	670.40	848.69	727.22	121.47	6.987		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Ouray Fed Com 702H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-50.04	74.35	-88.72	116.16					
100.00	100.00	90.30	90.30	0.13	0.13	-50.04	74.35	-88.72	115.75	115.58	0.18	646.180		
200.00	200.00	190.30	190.30	0.48	0.47	-50.04	74.35	-88.72	115.75	115.08	0.67	172.424		
300.00	300.00	290.30	290.30	0.84	0.82	-50.04	74.35	-88.72	115.75	114.58	1.18	98.244		
400.00	400.00	390.30	390.30	1.20	1.18	-50.04	74.35	-88.72	115.75	114.07	1.69	68.690		
500.00	500.00	490.30	490.30	1.56	1.54	-50.04	74.35	-88.72	115.75	113.56	2.19	52.805		
600.00	600.00	590.30	590.30	1.92	1.90	-50.04	74.35	-88.72	115.75	113.06	2.70	42.887		
700.00	700.00	690.30	690.30	2.28	2.26	-50.04	74.35	-88.72	115.75	112.55	3.21	36.106		
800.00	800.00	790.30	790.30	2.63	2.62	-50.04	74.35	-88.72	115.75	112.04	3.71	31.176		
900.00	900.00	890.30	890.30	2.99	2.97	-50.04	74.35	-88.72	115.75	111.53	4.22	27.431		
1,000.00	1,000.00	990.30	990.30	3.35	3.33	-50.04	74.35	-88.72	115.75	111.03	4.73	24.489		
1,100.00	1,100.00	1,090.30	1,090.30	3.71	3.69	-50.04	74.35	-88.72	115.75	110.52	5.23	22.117		
1,200.00	1,200.00	1,190.30	1,190.30	4.07	4.05	-50.04	74.35	-88.72	115.75	110.01	5.74	20.164		
1,300.00	1,300.00	1,290.30	1,290.30	4.43	4.41	-50.04	74.35	-88.72	115.75	109.51	6.25	18.527		
1,400.00	1,400.00	1,390.30	1,390.30	4.79	4.77	-50.04	74.35	-88.72	115.75	109.00	6.75	17.137		
1,500.00	1,500.00	1,490.30	1,490.30	5.14	5.13	-50.04	74.35	-88.72	115.75	108.49	7.26	15.941 CC, ES		
1,600.00	1,599.99	1,590.29	1,590.29	5.49	5.48	-144.75	74.35	-88.72	116.82	109.06	7.76	15.051		
1,700.00	1,699.91	1,690.21	1,690.21	5.84	5.84	-145.81	74.35	-88.72	120.05	111.79	8.26	14.540		
1,800.00	1,799.69	1,789.99	1,789.99	6.18	6.20	-147.44	74.35	-88.72	125.51	116.76	8.75	14.340		
1,900.00	1,899.27	1,889.57	1,889.57	6.53	6.56	-149.49	74.35	-88.72	133.32	124.07	9.25	14.413		
2,000.00	1,998.57	1,988.87	1,988.87	6.89	6.91	-151.80	74.35	-88.72	143.59	133.84	9.75	14.730		
2,100.00	2,097.54	2,087.84	2,087.84	7.26	7.27	-154.19	74.35	-88.72	156.40	146.16	10.25	15.265		
2,200.03	2,196.12	2,186.42	2,186.42	7.64	7.62	-156.55	74.35	-88.72	171.84	161.10	10.74	15.994		
2,300.00	2,294.41	2,284.71	2,284.71	8.03	7.97	-158.75	74.35	-88.72	188.74	177.50	11.24	16.790		
2,400.00	2,392.74	2,383.04	2,383.04	8.42	8.33	-160.59	74.35	-88.72	205.86	194.12	11.74	17.536		
2,500.00	2,491.06	2,481.36	2,481.36	8.83	8.68	-162.14	74.35	-88.72	223.16	210.92	12.24	18.235		
2,600.00	2,589.39	2,579.69	2,579.69	9.24	9.03	-163.47	74.35	-88.72	240.60	227.86	12.74	18.888		
2,700.00	2,687.72	2,678.02	2,678.02	9.65	9.38	-164.62	74.35	-88.72	258.14	244.90	13.24	19.499		
2,800.00	2,786.04	2,776.34	2,776.34	10.07	9.74	-165.62	74.35	-88.72	275.78	262.04	13.74	20.070		
2,900.00	2,884.37	2,874.67	2,874.67	10.49	10.09	-166.50	74.35	-88.72	293.48	279.24	14.24	20.605		
3,000.00	2,982.69	2,972.99	2,972.99	10.92	10.44	-167.29	74.35	-88.72	311.25	296.50	14.75	21.106		
3,100.00	3,081.02	3,071.32	3,071.32	11.35	10.79	-167.98	74.35	-88.72	329.06	313.81	15.25	21.577		
3,200.00	3,179.34	3,169.64	3,169.64	11.78	11.15	-168.61	74.35	-88.72	346.92	331.17	15.76	22.019		
3,300.00	3,277.67	3,267.97	3,267.97	12.21	11.50	-169.18	74.35	-88.72	364.82	348.55	16.26	22.435		
3,400.00	3,375.99	3,366.29	3,366.29	12.65	11.85	-169.69	74.35	-88.72	382.74	365.97	16.77	22.827		
3,500.00	3,474.32	3,464.62	3,464.62	13.09	12.20	-170.15	74.35	-88.72	400.69	383.42	17.27	23.198		
3,600.00	3,572.64	3,562.94	3,562.94	13.53	12.56	-170.58	74.35	-88.72	418.67	400.89	17.78	23.547		
3,700.00	3,670.97	3,661.27	3,661.27	13.97	12.91	-170.97	74.35	-88.72	436.67	418.38	18.29	23.878		
3,800.00	3,769.29	3,759.59	3,759.59	14.41	13.26	-171.33	74.35	-88.72	454.68	435.89	18.79	24.192		
3,900.00	3,867.62	3,857.92	3,857.92	14.86	13.61	-171.66	74.35	-88.72	472.71	453.41	19.30	24.489		
4,000.00	3,965.94	3,956.24	3,956.24	15.30	13.97	-171.97	74.35	-88.72	490.76	470.94	19.81	24.771		
4,100.00	4,064.27	4,054.57	4,054.57	15.75	14.32	-172.26	74.35	-88.72	508.81	488.49	20.32	25.040		
4,200.00	4,162.60	4,152.90	4,152.90	16.20	14.67	-172.53	74.35	-88.72	526.88	506.05	20.83	25.295		
4,300.00	4,260.92	4,251.22	4,251.22	16.65	15.02	-172.78	74.35	-88.72	544.96	523.62	21.34	25.539		
4,400.00	4,359.25	4,349.55	4,349.55	17.09	15.38	-173.01	74.35	-88.72	563.05	541.20	21.85	25.771		
4,500.00	4,457.57	4,447.87	4,447.87	17.55	15.73	-173.23	74.35	-88.72	581.15	558.79	22.36	25.993		
4,600.00	4,555.90	4,546.20	4,546.20	18.00	16.08	-173.43	74.35	-88.72	599.25	576.39	22.87	26.205		
4,700.00	4,654.22	4,644.52	4,644.52	18.45	16.43	-173.63	74.35	-88.72	617.37	593.99	23.38	26.407		
4,800.00	4,752.55	4,742.85	4,742.85	18.90	16.78	-173.81	74.35	-88.72	635.48	611.59	23.89	26.601		
4,900.00	4,850.87	4,841.17	4,841.17	19.35	17.14	-173.98	74.35	-88.72	653.61	629.21	24.40	26.787		
5,000.00	4,949.20	4,939.50	4,939.50	19.81	17.49	-174.14	74.35	-88.72	671.74	646.83	24.91	26.965		
5,100.00	5,047.52	5,041.50	5,041.50	20.26	17.85	-174.32	74.14	-88.65	689.77	664.34	25.43	27.121		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Ouray Fed Com 702H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,145.85	5,149.63	5,149.59	20.72	18.21	-174.67	71.59	-87.75	706.71	680.75	25.96	27.220		
5,300.00	5,244.17	5,257.97	5,257.78	21.17	18.56	-175.23	66.14	-85.82	722.34	695.85	26.48	27.276		
5,400.00	5,342.50	5,366.36	5,365.80	21.63	18.91	-175.97	57.79	-82.88	736.70	709.70	27.00	27.285		
5,500.00	5,440.82	5,467.95	5,466.85	22.08	19.24	-176.78	47.92	-79.40	750.18	722.68	27.50	27.281		
5,600.00	5,539.15	5,566.50	5,564.86	22.54	19.57	-177.55	38.20	-75.97	763.75	735.75	27.99	27.286		
5,700.00	5,637.48	5,665.06	5,662.88	22.99	19.89	-178.30	28.49	-72.54	777.44	748.95	28.49	27.293		
5,800.00	5,735.80	5,763.61	5,760.89	23.45	20.22	-179.01	18.78	-69.12	791.26	762.28	28.98	27.302		
5,900.00	5,834.13	5,862.17	5,858.91	23.91	20.56	-179.71	9.06	-65.69	805.20	775.72	29.48	27.312		
6,000.00	5,932.45	5,960.72	5,956.92	24.37	20.89	-179.62	-0.65	-62.26	819.25	789.27	29.98	27.324		
6,100.00	6,030.78	6,059.28	6,054.94	24.82	21.22	-178.97	-10.37	-58.84	833.41	802.93	30.49	27.338		
6,200.00	6,129.10	6,157.83	6,152.95	25.28	21.56	-178.35	-20.08	-55.41	847.67	816.68	30.99	27.353		
6,300.00	6,227.43	6,256.39	6,250.97	25.74	21.90	-177.74	-29.80	-51.98	862.03	830.53	31.50	27.368		
6,400.00	6,325.75	6,354.94	6,348.98	26.20	22.24	-177.15	-39.51	-48.56	876.48	844.48	32.01	27.384		
6,500.00	6,424.08	6,453.50	6,447.00	26.66	22.58	-176.59	-49.22	-45.13	891.02	858.50	32.52	27.401		
6,560.82	6,483.88	6,513.44	6,506.61	26.94	22.79	-176.25	-55.13	-43.05	899.91	867.08	32.83	27.412		
6,600.00	6,522.44	6,552.08	6,545.04	27.11	22.93	-176.04	-58.94	-41.70	905.45	872.42	33.03	27.413		
6,700.00	6,621.16	6,650.93	6,643.35	27.55	23.28	-175.51	-68.69	-38.27	917.84	884.30	33.54	27.364		
6,800.00	6,720.27	6,750.06	6,741.93	27.97	23.62	-174.98	-78.46	-34.82	927.72	893.67	34.05	27.243		
6,900.00	6,819.68	6,849.38	6,840.71	28.36	23.98	-174.44	-88.25	-31.37	935.09	900.53	34.57	27.053		
7,000.00	6,919.35	6,948.85	6,939.63	28.73	24.33	-173.90	-98.05	-27.91	939.95	904.88	35.07	26.799		
7,100.00	7,019.20	7,048.38	7,038.62	29.08	24.68	-173.33	-107.86	-24.45	942.29	906.71	35.58	26.482		
7,200.00	7,119.15	7,147.91	7,137.60	29.41	25.04	-172.75	-117.67	-20.99	942.14	906.05	36.09	26.108		
7,260.85	7,180.00	7,208.44	7,197.81	29.60	25.26	-93.27	-123.64	-18.88	940.82	904.43	36.39	25.854		
7,300.00	7,219.15	7,247.38	7,236.53	29.72	25.40	-93.51	-127.48	-17.53	939.68	903.10	36.58	25.686		
7,400.00	7,319.15	7,346.83	7,335.43	30.02	25.75	-94.12	-137.28	-14.07	936.85	899.77	37.08	25.267		
7,500.00	7,419.15	7,446.28	7,434.34	30.32	26.11	-94.73	-147.08	-10.62	934.13	896.56	37.58	24.860		
7,600.00	7,519.15	7,545.73	7,533.25	30.62	26.47	-95.35	-156.88	-7.16	931.52	893.45	38.07	24.466		
7,700.00	7,619.15	7,645.18	7,632.16	30.92	26.83	-95.98	-166.69	-3.70	929.02	890.45	38.57	24.084		
7,800.00	7,719.15	7,744.64	7,731.06	31.23	27.20	-96.60	-176.49	-0.24	926.64	887.56	39.07	23.714		
7,900.00	7,819.15	7,841.42	7,827.35	31.54	27.55	-97.19	-185.70	3.01	924.44	884.87	39.57	23.365		
8,000.00	7,919.15	7,936.32	7,921.96	31.84	27.89	-97.64	-192.74	5.49	922.80	882.75	40.04	23.045		
8,100.00	8,019.15	8,031.54	8,017.04	32.15	28.23	-97.96	-197.57	7.19	921.71	881.19	40.51	22.750		
8,200.00	8,119.15	8,126.95	8,112.41	32.46	28.56	-98.12	-200.17	8.11	921.14	880.16	40.98	22.477		
8,296.51	8,215.66	8,220.51	8,205.96	32.76	28.88	-98.16	-200.65	8.28	921.03	879.60	41.43	22.229		
8,300.00	8,219.15	8,224.00	8,209.45	32.77	28.90	-98.16	-200.65	8.28	921.03	879.58	41.45	22.220		
8,400.00	8,319.15	8,324.00	8,309.45	33.08	29.24	-98.16	-200.65	8.28	921.03	879.10	41.93	21.964		
8,500.00	8,419.15	8,424.00	8,409.45	33.39	29.59	-98.16	-200.65	8.28	921.03	878.61	42.42	21.713		
8,600.00	8,519.15	8,524.00	8,509.45	33.71	29.94	-98.16	-200.65	8.28	921.03	878.13	42.90	21.468		
8,700.00	8,619.15	8,624.00	8,609.45	34.02	30.29	-98.16	-200.65	8.28	921.03	877.65	43.39	21.228		
8,800.00	8,719.15	8,724.00	8,709.45	34.33	30.64	-98.16	-200.65	8.28	921.03	877.16	43.87	20.993		
8,900.00	8,819.15	8,824.00	8,809.45	34.65	30.99	-98.16	-200.65	8.28	921.03	876.67	44.36	20.763		
9,000.00	8,919.15	8,924.00	8,909.45	34.97	31.34	-98.16	-200.65	8.28	921.03	876.19	44.85	20.537		
9,100.00	9,019.15	9,024.00	9,009.45	35.28	31.69	-98.16	-200.65	8.28	921.03	875.70	45.33	20.317		
9,200.00	9,119.15	9,124.00	9,109.45	35.60	32.04	-98.16	-200.65	8.28	921.03	875.21	45.82	20.101		
9,300.00	9,219.15	9,224.00	9,209.45	35.92	32.39	-98.16	-200.65	8.28	921.03	874.72	46.31	19.889		
9,400.00	9,319.15	9,324.00	9,309.45	36.24	32.74	-98.16	-200.65	8.28	921.03	874.24	46.80	19.681		
9,500.00	9,419.15	9,424.00	9,409.45	36.56	33.09	-98.16	-200.65	8.28	921.03	873.75	47.29	19.478		
9,600.00	9,519.15	9,524.00	9,509.45	36.88	33.44	-98.16	-200.65	8.28	921.03	873.26	47.78	19.278		
9,700.00	9,619.15	9,624.00	9,609.45	37.20	33.79	-98.16	-200.65	8.28	921.03	872.77	48.26	19.083		
9,800.00	9,719.15	9,724.00	9,709.45	37.53	34.14	-98.16	-200.65	8.28	921.03	872.28	48.75	18.891		
9,900.00	9,819.15	9,824.00	9,809.45	37.85	34.49	-98.16	-200.65	8.28	921.03	871.79	49.24	18.703		
10,000.00	9,919.15	9,924.00	9,909.45	38.17	34.84	-98.16	-200.65	8.28	921.03	871.30	49.74	18.519		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Ouray Fed Com 702H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.00	10,019.15	10,024.00	10,009.45	38.50	35.19	-98.16	-200.65	8.28	921.03	870.81	50.23	18.338		
10,200.00	10,119.15	10,124.00	10,109.45	38.82	35.54	-98.16	-200.65	8.28	921.03	870.32	50.72	18.160		
10,300.00	10,219.15	10,224.00	10,209.45	39.15	35.89	-98.16	-200.65	8.28	921.03	869.83	51.21	17.986		
10,400.00	10,319.15	10,324.00	10,309.45	39.47	36.25	-98.16	-200.65	8.28	921.03	869.33	51.70	17.815		
10,500.00	10,419.15	10,424.00	10,409.45	39.80	36.60	-98.16	-200.65	8.28	921.03	868.84	52.19	17.647		
10,600.00	10,519.15	10,524.00	10,509.45	40.13	36.95	-98.16	-200.65	8.28	921.03	868.35	52.68	17.482		
10,700.00	10,619.15	10,624.00	10,609.45	40.45	37.30	-98.16	-200.65	8.28	921.03	867.86	53.18	17.320		
10,800.00	10,719.15	10,724.00	10,709.45	40.78	37.65	-98.16	-200.65	8.28	921.03	867.36	53.67	17.161		
10,900.00	10,819.15	10,824.00	10,809.45	41.11	38.01	-98.16	-200.65	8.28	921.03	866.87	54.16	17.005		
11,000.00	10,919.15	10,924.00	10,909.45	41.44	38.36	-98.16	-200.65	8.28	921.03	866.38	54.66	16.851		
11,100.00	11,019.15	11,024.00	11,009.45	41.77	38.71	-98.16	-200.65	8.28	921.03	865.88	55.15	16.700		
11,200.00	11,119.15	11,124.00	11,109.45	42.10	39.06	-98.16	-200.65	8.28	921.03	865.39	55.64	16.552		
11,300.00	11,219.15	11,224.00	11,209.45	42.43	39.42	-98.16	-200.65	8.28	921.03	864.90	56.14	16.407		
11,400.00	11,319.15	11,324.00	11,309.45	42.76	39.77	-98.16	-200.65	8.28	921.03	864.40	56.63	16.263		
11,500.00	11,419.15	11,424.00	11,409.45	43.09	40.12	-98.16	-200.65	8.28	921.03	863.91	57.13	16.123		
11,600.00	11,519.15	11,548.12	11,532.66	43.43	40.54	-97.36	-187.80	8.14	919.73	862.04	57.69	15.943		
11,700.00	11,619.15	11,662.36	11,641.21	43.76	40.88	-95.19	-152.81	7.75	916.55	858.40	58.15	15.762		
11,800.00	11,719.15	11,759.83	11,726.80	44.09	41.13	-92.29	-106.43	7.24	913.65	855.12	58.53	15.610		
11,854.21	11,773.36	11,805.17	11,763.66	44.27	41.24	-90.63	-80.04	6.95	913.10	854.41	58.70	15.557		
11,900.00	11,819.15	11,839.59	11,790.18	44.42	41.32	-89.25	-58.12	6.71	913.57	854.76	58.80	15.536		
11,932.89	11,852.04	11,862.27	11,806.92	44.53	41.37	-88.30	-42.82	6.54	914.55	855.69	58.86	15.538		
11,950.00	11,869.15	11,873.59	11,815.05	44.59	41.39	-84.34	-34.93	6.46	915.27	856.39	58.88	15.544		
12,000.00	11,918.99	11,906.13	11,837.51	44.75	41.46	-82.70	-11.40	6.20	918.02	859.10	58.92	15.581		
12,050.00	11,968.33	11,937.96	11,858.16	44.91	41.53	-81.06	12.82	5.93	921.60	862.69	58.91	15.644		
12,100.00	12,016.79	11,969.19	11,877.08	45.06	41.60	-79.43	37.66	5.66	925.89	867.03	58.86	15.730		
12,150.00	12,063.99	12,000.00	11,894.39	45.21	41.66	-77.83	63.14	5.38	930.73	871.97	58.77	15.837		
12,200.00	12,109.58	12,030.23	11,910.03	45.34	41.72	-76.26	89.01	5.09	935.99	877.35	58.64	15.963		
12,250.00	12,153.20	12,060.17	11,924.14	45.46	41.79	-74.74	115.41	4.80	941.51	883.04	58.47	16.102		
12,300.00	12,194.54	12,089.81	11,936.74	45.57	41.85	-73.29	142.22	4.51	947.18	888.90	58.28	16.252		
12,350.00	12,233.27	12,119.17	11,947.84	45.67	41.91	-71.91	169.41	4.21	952.85	894.77	58.07	16.408		
12,400.00	12,269.10	12,150.00	11,957.97	45.76	41.98	-70.57	198.51	3.89	958.40	900.54	57.86	16.563		
12,450.00	12,301.75	12,177.24	11,965.61	45.83	42.03	-69.41	224.66	3.60	963.73	906.10	57.63	16.722		
12,500.00	12,330.98	12,200.00	11,971.04	45.90	42.08	-68.43	246.76	3.36	968.75	911.37	57.38	16.882		
12,550.00	12,356.57	12,234.63	11,977.60	45.96	42.16	-67.31	280.75	2.98	973.29	916.08	57.22	17.011		
12,600.00	12,378.31	12,263.13	11,981.45	46.01	42.22	-66.43	308.98	2.67	977.35	920.31	57.04	17.134		
12,650.00	12,396.05	12,300.00	11,984.34	46.06	42.31	-65.53	345.73	2.27	980.88	923.97	56.92	17.233		
12,700.00	12,409.66	12,319.82	11,984.92	46.11	42.35	-65.02	365.54	2.05	983.64	926.86	56.78	17.323		
12,750.00	12,419.01	12,352.15	11,984.47	46.17	42.43	-64.45	397.86	1.70	985.74	929.02	56.72	17.378		
12,800.00	12,424.05	12,401.66	11,983.09	46.24	42.57	-64.00	447.35	1.15	986.36	929.61	56.76	17.379		
12,832.89	12,425.00	12,434.46	11,982.17	46.30	42.67	-63.92	480.13	0.79	985.75	928.92	56.83	17.347		
12,900.00	12,425.00	12,501.49	11,980.31	46.43	42.88	-63.77	547.14	0.05	984.37	927.35	57.02	17.264		
12,931.92	12,425.00	12,533.39	11,979.42	46.51	43.00	-63.71	579.03	-0.30	984.21	927.07	57.13	17.226		
12,971.32	12,425.00	12,572.77	11,978.32	46.62	43.15	-63.65	618.39	-0.73	984.45	927.17	57.28	17.186		
13,000.00	12,425.00	12,601.44	11,977.52	46.71	43.26	-63.60	647.05	-1.05	984.81	927.41	57.40	17.158		
13,100.00	12,425.00	12,701.41	11,974.73	47.06	43.70	-63.46	746.96	-2.15	986.05	928.19	57.86	17.042		
13,200.00	12,425.00	12,801.37	11,971.95	47.49	44.19	-63.31	846.88	-3.24	987.29	928.90	58.39	16.908		
13,300.00	12,425.00	12,901.33	11,969.16	47.98	44.74	-63.17	946.80	-4.34	988.55	929.55	59.00	16.756		
13,400.00	12,425.00	13,001.29	11,966.38	48.53	45.35	-63.03	1,046.71	-5.44	989.81	930.14	59.67	16.589		
13,500.00	12,425.00	13,101.25	11,963.59	49.13	46.00	-62.88	1,146.63	-6.54	991.07	930.67	60.40	16.408		
13,600.00	12,425.00	13,201.21	11,960.80	49.79	46.71	-62.74	1,246.55	-7.64	992.34	931.15	61.20	16.216		
13,700.00	12,425.00	13,301.17	11,958.02	50.49	47.46	-62.60	1,346.46	-8.74	993.62	931.57	62.05	16.013		
13,800.00	12,425.00	13,401.13	11,955.23	51.24	48.26	-62.45	1,446.38	-9.84	994.91	931.95	62.96	15.802		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Ouray Fed Com 702H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	12,425.00	13,501.09	11,952.45	52.03	49.10	-62.31	1,546.29	-10.94	996.20	932.28	63.92	15.584		
14,000.00	12,425.00	13,601.06	11,949.66	52.87	49.98	-62.17	1,646.21	-12.04	997.49	932.56	64.94	15.361		
14,100.00	12,425.00	13,701.02	11,946.88	53.74	50.90	-62.03	1,746.13	-13.14	998.80	932.80	66.00	15.134		
14,200.00	12,425.00	13,800.98	11,944.09	54.65	51.85	-61.89	1,846.04	-14.24	1,000.11	933.01	67.10	14.905		
14,300.00	12,425.00	13,900.94	11,941.30	55.59	52.84	-61.75	1,945.96	-15.34	1,001.42	933.17	68.25	14.673		
14,400.00	12,425.00	14,000.90	11,938.52	56.57	53.86	-61.61	2,045.88	-16.44	1,002.74	933.31	69.43	14.442		
14,500.00	12,425.00	14,100.86	11,935.73	57.57	54.91	-61.47	2,145.79	-17.53	1,004.07	933.41	70.65	14.211		
14,600.00	12,425.00	14,200.82	11,932.95	58.61	56.00	-61.33	2,245.71	-18.63	1,005.40	933.49	71.91	13.981		
14,700.00	12,425.00	14,300.78	11,930.16	59.67	57.11	-61.19	2,345.62	-19.73	1,006.74	933.54	73.20	13.753		
14,800.00	12,425.00	14,400.74	11,927.37	60.76	58.24	-61.05	2,445.54	-20.83	1,008.08	933.56	74.52	13.527		
14,900.00	12,425.00	14,500.71	11,924.59	61.88	59.40	-60.91	2,545.46	-21.93	1,009.43	933.56	75.87	13.304		
15,000.00	12,425.00	14,600.67	11,921.80	63.02	60.58	-60.77	2,645.37	-23.03	1,010.79	933.54	77.25	13.085		
15,100.00	12,425.00	14,700.63	11,919.02	64.18	61.79	-60.64	2,745.29	-24.13	1,012.15	933.51	78.65	12.870		
15,200.00	12,425.00	14,800.59	11,916.23	65.36	63.01	-60.50	2,845.21	-25.23	1,013.52	933.45	80.07	12.658		
15,300.00	12,425.00	14,900.55	11,913.45	66.56	64.25	-60.36	2,945.12	-26.33	1,014.90	933.38	81.51	12.451		
15,400.00	12,425.00	15,000.51	11,910.66	67.78	65.51	-60.22	3,045.04	-27.43	1,016.28	933.30	82.98	12.248		
15,500.00	12,425.00	15,100.47	11,907.87	69.02	66.79	-60.09	3,144.96	-28.53	1,017.66	933.20	84.46	12.049		
15,600.00	12,425.00	15,200.43	11,905.09	70.28	68.09	-59.95	3,244.87	-29.63	1,019.05	933.09	85.96	11.855		
15,700.00	12,425.00	15,300.40	11,902.30	71.55	69.40	-59.82	3,344.79	-30.73	1,020.45	932.98	87.47	11.666		
15,800.00	12,425.00	15,400.36	11,899.52	72.84	70.72	-59.68	3,444.70	-31.82	1,021.85	932.85	89.00	11.481		
15,900.00	12,425.00	15,500.32	11,896.73	74.14	72.06	-59.55	3,544.62	-32.92	1,023.26	932.71	90.55	11.301		
16,000.00	12,425.00	15,600.28	11,893.94	75.46	73.41	-59.41	3,644.54	-34.02	1,024.67	932.57	92.10	11.126		
16,100.00	12,425.00	15,700.24	11,891.16	76.79	74.77	-59.28	3,744.45	-35.12	1,026.09	932.42	93.67	10.954		
16,200.00	12,425.00	15,800.20	11,888.37	78.13	76.15	-59.15	3,844.37	-36.22	1,027.52	932.27	95.25	10.788		
16,300.00	12,425.00	15,900.16	11,885.59	79.48	77.53	-59.01	3,944.29	-37.32	1,028.95	932.11	96.83	10.626		
16,400.00	12,425.00	16,000.12	11,882.80	80.85	78.93	-58.88	4,044.20	-38.42	1,030.39	931.95	98.43	10.468		
16,500.00	12,425.00	16,100.08	11,880.01	82.22	80.33	-58.75	4,144.12	-39.52	1,031.83	931.79	100.04	10.315		
16,600.00	12,425.00	16,200.05	11,877.23	83.61	81.75	-58.61	4,244.03	-40.62	1,033.27	931.63	101.65	10.165		
16,700.00	12,425.00	16,300.01	11,874.44	85.00	83.17	-58.48	4,343.95	-41.72	1,034.73	931.46	103.27	10.020		
16,800.00	12,425.00	16,399.97	11,871.66	86.40	84.60	-58.35	4,443.87	-42.82	1,036.19	931.29	104.89	9.878		
16,900.00	12,425.00	16,499.93	11,868.87	87.82	86.04	-58.22	4,543.78	-43.92	1,037.65	931.12	106.52	9.741		
17,000.00	12,425.00	16,599.89	11,866.09	89.24	87.49	-58.09	4,643.70	-45.02	1,039.12	930.96	108.16	9.607		
17,100.00	12,425.00	16,699.85	11,863.30	90.66	88.94	-57.96	4,743.62	-46.11	1,040.59	930.79	109.80	9.477		
17,200.00	12,425.00	16,799.81	11,860.51	92.10	90.41	-57.83	4,843.53	-47.21	1,042.07	930.63	111.45	9.350		
17,300.00	12,425.00	16,899.77	11,857.73	93.54	91.87	-57.70	4,943.45	-48.31	1,043.56	930.46	113.10	9.227		
17,400.00	12,425.00	16,999.73	11,854.94	94.99	93.35	-57.57	5,043.36	-49.41	1,045.05	930.30	114.75	9.107		
17,500.00	12,425.00	17,099.70	11,852.16	96.45	94.83	-57.44	5,143.28	-50.51	1,046.54	930.14	116.40	8.991		
17,600.00	12,425.00	17,199.66	11,849.37	97.91	96.31	-57.31	5,243.20	-51.61	1,048.05	929.99	118.06	8.877		
17,700.00	12,425.00	17,299.62	11,846.58	99.38	97.80	-57.19	5,343.11	-52.71	1,049.55	929.83	119.72	8.767		
17,800.00	12,425.00	17,399.58	11,843.80	100.86	99.30	-57.06	5,443.03	-53.81	1,051.06	929.68	121.38	8.659		
17,900.00	12,425.00	17,499.54	11,841.01	102.34	100.80	-56.93	5,542.95	-54.91	1,052.58	929.54	123.04	8.555		
18,000.00	12,425.00	17,599.50	11,838.23	103.82	102.31	-56.80	5,642.86	-56.01	1,054.10	929.40	124.70	8.453		
18,100.00	12,425.00	17,699.46	11,835.44	105.31	103.82	-56.68	5,742.78	-57.11	1,055.63	929.26	126.37	8.354		
18,200.00	12,425.00	17,799.42	11,832.66	106.80	105.33	-56.55	5,842.69	-58.21	1,057.16	929.13	128.03	8.257		
18,300.00	12,425.00	17,899.39	11,829.87	108.30	106.85	-56.42	5,942.61	-59.31	1,058.70	929.00	129.70	8.163		
18,400.00	12,425.00	17,999.35	11,827.08	109.81	108.37	-56.30	6,042.53	-60.40	1,060.24	928.88	131.36	8.071		
18,500.00	12,425.00	18,099.31	11,824.30	111.32	109.90	-56.17	6,142.44	-61.50	1,061.79	928.76	133.02	7.982		
18,600.00	12,425.00	18,199.27	11,821.51	112.83	111.43	-56.05	6,242.36	-62.60	1,063.34	928.65	134.69	7.895		
18,700.00	12,425.00	18,299.23	11,818.73	114.34	112.96	-55.92	6,342.28	-63.70	1,064.90	928.55	136.35	7.810		
18,800.00	12,425.00	18,399.19	11,815.94	115.86	114.50	-55.80	6,442.19	-64.80	1,066.46	928.45	138.01	7.727		
18,900.00	12,425.00	18,499.15	11,813.15	117.39	116.04	-55.68	6,542.11	-65.90	1,068.03	928.35	139.68	7.646		
19,000.00	12,425.00	18,599.11	11,810.37	118.91	117.58	-55.55	6,642.03	-67.00	1,069.60	928.27	141.33	7.568		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Ouray Fed Com 702H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,100.00	12,425.00	18,699.07	11,807.58	120.44	119.12	-55.43	6,741.94	-68.10	1,071.18	928.19	142.99	7.491	
19,200.00	12,425.00	18,799.04	11,804.80	121.98	120.67	-55.31	6,841.86	-69.20	1,072.76	928.11	144.65	7.416	
19,300.00	12,425.00	18,899.00	11,802.01	123.51	122.22	-55.19	6,941.77	-70.30	1,074.35	928.04	146.31	7.343	
19,400.00	12,425.00	18,998.96	11,799.23	125.05	123.78	-55.06	7,041.69	-71.40	1,075.94	927.98	147.96	7.272	
19,500.00	12,425.00	19,098.92	11,796.44	126.60	125.34	-54.94	7,141.61	-72.50	1,077.54	927.93	149.61	7.202	
19,600.00	12,425.00	19,198.88	11,793.65	128.14	126.89	-54.82	7,241.52	-73.59	1,079.14	927.88	151.26	7.134	
19,700.00	12,425.00	19,298.84	11,790.87	129.69	128.46	-54.70	7,341.44	-74.69	1,080.75	927.84	152.91	7.068	
19,800.00	12,425.00	19,398.80	11,788.08	131.24	130.02	-54.58	7,441.36	-75.79	1,082.36	927.80	154.55	7.003	
19,900.00	12,425.00	19,498.76	11,785.30	132.79	131.59	-54.46	7,541.27	-76.89	1,083.97	927.78	156.20	6.940	
20,000.00	12,425.00	19,598.73	11,782.51	134.35	133.15	-54.34	7,641.19	-77.99	1,085.60	927.76	157.84	6.878	
20,100.00	12,425.00	19,698.69	11,779.72	135.91	134.72	-54.22	7,741.10	-79.09	1,087.22	927.75	159.48	6.817	
20,200.00	12,425.00	19,798.65	11,776.94	137.47	136.29	-54.10	7,841.02	-80.19	1,088.85	927.74	161.11	6.758	
20,300.00	12,425.00	19,898.61	11,774.15	139.03	137.87	-53.98	7,940.94	-81.29	1,090.49	927.74	162.74	6.701	
20,400.00	12,425.00	19,998.57	11,771.37	140.59	139.44	-53.86	8,040.85	-82.39	1,092.13	927.76	164.37	6.644	
20,500.00	12,425.00	20,098.53	11,768.58	142.16	141.02	-53.75	8,140.77	-83.49	1,093.77	927.77	166.00	6.589	
20,600.00	12,425.00	20,198.49	11,765.80	143.73	142.60	-53.63	8,240.69	-84.59	1,095.42	927.80	167.62	6.535	
20,700.00	12,425.00	20,298.45	11,763.01	145.30	144.18	-53.51	8,340.60	-85.69	1,097.07	927.84	169.24	6.482	
20,800.00	12,425.00	20,398.41	11,760.22	146.87	145.76	-53.40	8,440.52	-86.79	1,098.73	927.88	170.86	6.431	
20,900.00	12,425.00	20,498.38	11,757.44	148.44	147.35	-53.28	8,540.43	-87.88	1,100.40	927.92	172.47	6.380	
21,000.00	12,425.00	20,598.34	11,754.65	150.02	148.93	-53.16	8,640.35	-88.98	1,102.06	927.98	174.08	6.331	
21,100.00	12,425.00	20,698.30	11,751.87	151.59	150.52	-53.05	8,740.27	-90.08	1,103.73	928.05	175.69	6.282	
21,200.00	12,425.00	20,798.26	11,749.08	153.17	152.11	-52.93	8,840.18	-91.18	1,105.41	928.12	177.29	6.235	
21,300.00	12,425.00	20,898.22	11,746.29	154.75	153.70	-52.82	8,940.10	-92.28	1,107.09	928.20	178.89	6.189	
21,400.00	12,425.00	20,998.18	11,743.51	156.33	155.29	-52.70	9,040.02	-93.38	1,108.78	928.29	180.49	6.143	
21,500.00	12,425.00	21,098.14	11,740.72	157.92	156.88	-52.59	9,139.93	-94.48	1,110.47	928.39	182.08	6.099	
21,600.00	12,425.00	21,198.10	11,737.94	159.50	158.48	-52.47	9,239.85	-95.58	1,112.16	928.49	183.67	6.055	
21,700.00	12,425.00	21,298.06	11,735.15	161.09	160.07	-52.36	9,339.76	-96.68	1,113.86	928.60	185.26	6.012	
21,800.00	12,425.00	21,398.03	11,732.36	162.67	161.67	-52.25	9,439.68	-97.78	1,115.56	928.72	186.84	5.971	
21,900.00	12,425.00	21,497.99	11,729.58	164.26	163.26	-52.13	9,539.60	-98.88	1,117.27	928.85	188.42	5.930	
22,000.00	12,425.00	21,597.95	11,726.79	165.85	164.86	-52.02	9,639.51	-99.98	1,118.98	928.99	189.99	5.890	
22,100.00	12,425.00	21,697.91	11,724.01	167.44	166.46	-51.91	9,739.43	-101.08	1,120.70	929.13	191.56	5.850	
22,200.00	12,425.00	21,797.87	11,721.22	169.03	168.06	-51.80	9,839.35	-102.17	1,122.42	929.29	193.13	5.812	
22,300.00	12,425.00	21,897.83	11,718.44	170.63	169.66	-51.68	9,939.26	-103.27	1,124.14	929.45	194.70	5.774	
22,400.00	12,425.00	21,997.79	11,715.65	172.22	171.26	-51.57	10,039.18	-104.37	1,125.87	929.62	196.25	5.737	
22,506.08	12,425.00	22,103.83	11,712.69	173.92	172.96	-51.45	10,145.17	-105.54	1,127.71	929.80	197.91	5.698 SF	

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Georgetown/Ouray - Ouray Fed Com 703H - OH - Plan #1													Offset Well Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-14.03	74.97	-18.73	77.80					
100.00	100.00	91.00	91.00	0.13	0.13	-14.03	74.97	-18.73	77.27	77.09	0.18	429.669		
200.00	200.00	191.00	191.00	0.48	0.47	-14.03	74.97	-18.73	77.27	76.60	0.67	114.807		
300.00	300.00	291.00	291.00	0.84	0.83	-14.03	74.97	-18.73	77.27	76.09	1.18	65.487		
400.00	400.00	391.00	391.00	1.20	1.18	-14.03	74.97	-18.73	77.27	75.59	1.69	45.808		
500.00	500.00	491.00	491.00	1.56	1.54	-14.03	74.97	-18.73	77.27	75.08	2.19	35.223		
600.00	600.00	591.00	591.00	1.92	1.90	-14.03	74.97	-18.73	77.27	74.57	2.70	28.611		
700.00	700.00	691.00	691.00	2.28	2.26	-14.03	74.97	-18.73	77.27	74.07	3.21	24.090		
800.00	800.00	791.00	791.00	2.63	2.62	-14.03	74.97	-18.73	77.27	73.56	3.71	20.802		
900.00	900.00	891.00	891.00	2.99	2.98	-14.03	74.97	-18.73	77.27	73.05	4.22	18.304		
1,000.00	1,000.00	991.00	991.00	3.35	3.34	-14.03	74.97	-18.73	77.27	72.55	4.73	16.342		
1,100.00	1,100.00	1,091.00	1,091.00	3.71	3.69	-14.03	74.97	-18.73	77.27	72.04	5.24	14.759		
1,200.00	1,200.00	1,191.00	1,191.00	4.07	4.05	-14.03	74.97	-18.73	77.27	71.53	5.74	13.456		
1,300.00	1,300.00	1,291.00	1,291.00	4.43	4.41	-14.03	74.97	-18.73	77.27	71.02	6.25	12.365		
1,400.00	1,400.00	1,391.00	1,391.00	4.79	4.77	-14.03	74.97	-18.73	77.27	70.52	6.76	11.437		
1,500.00	1,500.00	1,491.00	1,491.00	5.14	5.13	-14.03	74.97	-18.73	77.27	70.01	7.26	10.639 CC		
1,600.00	1,599.99	1,590.99	1,590.99	5.49	5.49	-109.29	74.97	-18.73	77.70	69.93	7.76	10.008		
1,700.00	1,699.91	1,690.91	1,690.91	5.84	5.84	-111.95	74.97	-18.73	79.08	70.82	8.26	9.575		
1,800.00	1,799.69	1,790.69	1,790.69	6.18	6.20	-116.16	74.97	-18.73	81.75	73.00	8.76	9.337		
1,900.00	1,899.27	1,890.27	1,890.27	6.53	6.56	-121.56	74.97	-18.73	86.19	76.94	9.26	9.312		
2,000.00	1,998.57	1,989.57	1,989.57	6.89	6.92	-127.64	74.97	-18.73	92.91	83.15	9.76	9.523		
2,100.00	2,097.54	2,088.54	2,088.54	7.26	7.27	-133.88	74.97	-18.73	102.34	92.09	10.26	9.978		
2,200.03	2,196.12	2,187.12	2,187.12	7.64	7.62	-139.82	74.97	-18.73	114.80	104.05	10.76	10.671		
2,300.00	2,294.41	2,285.41	2,285.41	8.03	7.98	-145.01	74.97	-18.73	129.35	118.09	11.26	11.489		
2,400.00	2,392.74	2,383.74	2,383.74	8.42	8.33	-149.13	74.97	-18.73	144.73	132.97	11.76	12.310		
2,500.00	2,491.06	2,482.06	2,482.06	8.83	8.68	-152.46	74.97	-18.73	160.71	148.45	12.26	13.112		
2,600.00	2,589.39	2,580.39	2,580.39	9.24	9.03	-155.17	74.97	-18.73	177.12	164.36	12.76	13.885		
2,700.00	2,687.72	2,678.72	2,678.72	9.65	9.39	-157.43	74.97	-18.73	193.85	180.60	13.26	14.623		
2,800.00	2,786.04	2,777.04	2,777.04	10.07	9.74	-159.33	74.97	-18.73	210.84	197.08	13.76	15.324		
2,900.00	2,884.37	2,875.37	2,875.37	10.49	10.09	-160.94	74.97	-18.73	228.01	213.75	14.26	15.989		
3,000.00	2,982.69	2,973.69	2,973.69	10.92	10.44	-162.33	74.97	-18.73	245.34	230.57	14.76	16.618		
3,100.00	3,081.02	3,072.02	3,072.02	11.35	10.80	-163.53	74.97	-18.73	262.78	247.52	15.27	17.213		
3,200.00	3,179.34	3,170.34	3,170.34	11.78	11.15	-164.59	74.97	-18.73	280.33	264.56	15.77	17.776		
3,300.00	3,277.67	3,274.45	3,274.44	12.21	11.51	-165.56	74.79	-18.03	297.29	281.00	16.29	18.249		
3,400.00	3,375.99	3,381.86	3,381.79	12.65	11.88	-166.41	73.92	-14.53	311.69	294.88	16.81	18.544		
3,500.00	3,474.32	3,490.09	3,489.81	13.09	12.25	-167.16	72.30	-8.05	323.34	306.02	17.32	18.672		
3,600.00	3,572.64	3,598.97	3,598.25	13.53	12.62	-167.83	69.93	1.47	332.22	314.40	17.82	18.646		
3,700.00	3,670.97	3,708.33	3,706.83	13.97	13.00	-168.45	66.79	14.04	338.28	319.97	18.31	18.479		
3,800.00	3,769.29	3,816.39	3,813.73	14.41	13.38	-169.02	62.96	29.39	341.55	322.76	18.79	18.177		
3,900.00	3,867.62	3,916.32	3,912.42	14.86	13.74	-169.54	59.18	44.56	343.85	324.55	19.29	17.822		
4,000.00	3,965.94	4,016.24	4,011.12	15.30	14.10	-170.06	55.39	59.73	346.17	326.37	19.80	17.484		
4,100.00	4,064.27	4,116.17	4,109.81	15.75	14.47	-170.56	51.60	74.90	348.52	328.22	20.31	17.164		
4,200.00	4,162.60	4,216.09	4,208.50	16.20	14.84	-171.06	47.82	90.07	350.90	330.08	20.81	16.859		
4,300.00	4,260.92	4,316.02	4,307.20	16.65	15.22	-171.55	44.03	105.25	353.30	331.98	21.32	16.569		
4,400.00	4,359.25	4,415.95	4,405.89	17.09	15.59	-172.04	40.25	120.42	355.73	333.90	21.83	16.293		
4,500.00	4,457.57	4,515.87	4,504.59	17.55	15.98	-172.52	36.46	135.59	358.18	335.84	22.34	16.030		
4,600.00	4,555.90	4,615.80	4,603.28	18.00	16.36	-172.99	32.67	150.76	360.66	337.80	22.86	15.779		
4,700.00	4,654.22	4,715.72	4,701.98	18.45	16.75	-173.45	28.89	165.93	363.16	339.79	23.37	15.540		
4,800.00	4,752.55	4,815.65	4,800.67	18.90	17.14	-173.91	25.10	181.11	365.69	341.80	23.88	15.311		
4,900.00	4,850.87	4,915.57	4,899.36	19.35	17.53	-174.37	21.32	196.28	368.24	343.84	24.40	15.092		
5,000.00	4,949.20	5,015.50	4,998.06	19.81	17.92	-174.81	17.53	211.45	370.81	345.89	24.92	14.882		
5,100.00	5,047.52	5,115.42	5,096.75	20.26	18.32	-175.25	13.74	226.62	373.40	347.97	25.43	14.681		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Ouray Fed Com 703H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.00	5,145.85	5,215.35	5,195.45	20.72	18.72	-175.69	9.96	241.79	376.02	350.07	25.95	14.489		
5,300.00	5,244.17	5,315.27	5,294.14	21.17	19.11	-176.11	6.17	256.97	378.66	352.19	26.47	14.304		
5,400.00	5,342.50	5,415.20	5,392.84	21.63	19.52	-176.54	2.38	272.14	381.32	354.32	26.99	14.127		
5,500.00	5,440.82	5,515.13	5,491.53	22.08	19.92	-176.95	-1.40	287.31	383.99	356.48	27.51	13.957		
5,600.00	5,539.15	5,615.05	5,590.22	22.54	20.32	-177.36	-5.19	302.48	386.69	358.66	28.04	13.793		
5,700.00	5,637.48	5,714.98	5,688.92	22.99	20.73	-177.77	-8.97	317.65	389.41	360.85	28.56	13.636		
5,800.00	5,735.80	5,814.90	5,787.61	23.45	21.14	-178.17	-12.76	332.83	392.15	363.07	29.08	13.484		
5,900.00	5,834.13	5,914.83	5,886.31	23.91	21.54	-178.56	-16.55	348.00	394.90	365.30	29.61	13.338		
6,000.00	5,932.45	6,014.75	5,985.00	24.37	21.95	-178.95	-20.33	363.17	397.68	367.55	30.13	13.198		
6,100.00	6,030.78	6,114.68	6,083.70	24.82	22.36	-179.33	-24.12	378.34	400.47	369.81	30.66	13.062		
6,200.00	6,129.10	6,214.60	6,182.39	25.28	22.78	-179.71	-27.90	393.51	403.28	372.10	31.19	12.932		
6,300.00	6,227.43	6,314.53	6,281.08	25.74	23.19	179.92	-31.69	408.69	406.11	374.40	31.71	12.805		
6,400.00	6,325.75	6,414.45	6,379.78	26.20	23.60	179.55	-35.48	423.86	408.95	376.71	32.24	12.684		
6,500.00	6,424.08	6,514.38	6,478.47	26.66	24.02	179.19	-39.26	439.03	411.81	379.04	32.77	12.566		
6,560.82	6,483.88	6,575.16	6,538.50	26.94	24.27	178.97	-41.57	448.26	413.56	380.47	33.09	12.496		
6,600.00	6,522.44	6,614.31	6,577.17	27.11	24.43	178.83	-43.05	454.20	414.49	381.19	33.30	12.446		
6,700.00	6,621.16	6,714.27	6,675.90	27.55	24.85	178.47	-46.84	469.38	415.05	381.22	33.83	12.268		
6,800.00	6,720.27	6,814.21	6,774.61	27.97	25.26	178.10	-50.62	484.55	413.01	378.65	34.36	12.021		
6,900.00	6,819.68	6,914.06	6,873.23	28.36	25.68	177.70	-54.41	499.72	408.37	373.49	34.88	11.708		
7,000.00	6,919.35	7,013.75	6,971.70	28.73	26.10	177.28	-58.18	514.85	401.15	365.74	35.40	11.332		
7,100.00	7,019.20	7,113.22	7,069.94	29.08	26.52	176.82	-61.95	529.95	391.33	355.42	35.92	10.896		
7,200.00	7,119.15	7,212.39	7,167.89	29.41	26.93	176.31	-65.71	545.01	378.95	342.52	36.43	10.402		
7,260.85	7,180.00	7,272.57	7,227.32	29.60	27.18	-89.69	-67.99	554.15	370.17	333.43	36.74	10.076		
7,300.00	7,219.15	7,311.23	7,265.51	29.72	27.35	-89.91	-69.45	560.02	364.21	327.28	36.93	9.861		
7,400.00	7,319.15	7,410.00	7,363.06	30.02	27.76	-90.53	-73.20	575.02	349.03	311.60	37.44	9.323		
7,500.00	7,419.15	7,508.77	7,460.61	30.32	28.18	-91.20	-76.94	590.01	333.90	295.95	37.94	8.800		
7,600.00	7,519.15	7,607.54	7,558.16	30.62	28.60	-91.94	-80.68	605.01	318.81	280.36	38.45	8.291		
7,700.00	7,619.15	7,706.30	7,655.71	30.92	29.01	-92.75	-84.42	620.00	303.78	264.81	38.97	7.796		
7,800.00	7,719.15	7,805.07	7,753.26	31.23	29.43	-93.65	-88.17	635.00	288.81	249.33	39.49	7.315		
7,900.00	7,819.15	7,903.84	7,850.81	31.54	29.85	-94.64	-91.91	650.00	273.93	233.92	40.01	6.847		
8,000.00	7,919.15	8,002.61	7,948.37	31.84	30.27	-95.74	-95.65	664.99	259.13	218.59	40.54	6.392		
8,100.00	8,019.15	8,101.38	8,045.92	32.15	30.69	-96.98	-99.39	679.99	244.44	203.36	41.08	5.951		
8,200.00	8,119.15	8,200.14	8,143.47	32.46	31.11	-98.38	-103.13	694.99	229.87	188.24	41.63	5.522		
8,300.00	8,219.15	8,298.91	8,241.02	32.77	31.53	-99.96	-106.88	709.98	215.45	173.27	42.19	5.107		
8,400.00	8,319.15	8,397.68	8,338.57	33.08	31.95	-101.77	-110.62	724.98	201.23	158.46	42.76	4.705		
8,500.00	8,419.15	8,496.45	8,436.12	33.39	32.37	-103.84	-114.36	739.97	187.22	143.86	43.36	4.318		
8,600.00	8,519.15	8,595.22	8,533.67	33.71	32.79	-106.25	-118.10	754.97	173.50	129.52	43.98	3.945		
8,700.00	8,619.15	8,693.98	8,631.22	34.02	33.21	-109.06	-121.85	769.97	160.13	115.50	44.64	3.588		
8,800.00	8,719.15	8,792.75	8,728.77	34.33	33.63	-112.37	-125.59	784.96	147.21	101.88	45.33	3.248		
8,900.00	8,819.15	8,891.52	8,826.33	34.65	34.05	-116.30	-129.33	799.96	134.88	88.80	46.08	2.927		
9,000.00	8,919.15	8,990.29	8,923.88	34.97	34.48	-120.98	-133.07	814.96	123.29	76.40	46.89	2.629		
9,100.00	9,019.15	9,089.05	9,021.43	35.28	34.90	-126.58	-136.82	829.95	112.70	64.92	47.77	2.359		
9,200.00	9,119.15	9,187.82	9,118.98	35.60	35.32	-133.23	-140.56	844.95	103.39	54.66	48.73	2.122		
9,300.00	9,219.15	9,286.59	9,216.53	35.92	35.74	-141.05	-144.30	859.94	95.75	46.01	49.74	1.925		
9,400.00	9,319.15	9,385.36	9,314.08	36.24	36.17	-150.00	-148.04	874.94	90.20	39.47	50.73	1.778		
9,500.00	9,419.15	9,484.13	9,411.63	36.56	36.59	-159.82	-151.78	889.94	87.15	35.56	51.59	1.689		
9,560.61	9,479.76	9,543.99	9,470.76	36.76	36.85	-165.99	-154.05	899.03	86.63	34.63	52.00	1.666 ES		
9,600.00	9,519.15	9,582.89	9,509.18	36.88	37.01	-170.01	-155.53	904.93	86.85	34.63	52.21	1.663 SF		
9,700.00	9,619.15	9,681.66	9,606.73	37.20	37.44	-179.95	-159.27	919.93	89.33	36.76	52.57	1.699		
9,800.00	9,719.15	9,780.43	9,704.29	37.53	37.86	170.88	-163.01	934.92	94.38	41.65	52.73	1.790		
9,900.00	9,819.15	9,879.20	9,801.84	37.85	38.29	162.82	-166.75	949.92	101.61	48.82	52.80	1.925		
10,000.00	9,919.15	9,977.97	9,899.39	38.17	38.71	155.92	-170.50	964.92	110.60	57.74	52.86	2.092		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Ouray Fed Com 703H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,100.00	10,019.15	10,076.73	9,996.94	38.50	39.14	150.11	-174.24	979.91	120.95	67.98	52.97	2.283		
10,200.00	10,119.15	10,175.50	10,094.49	38.82	39.56	145.25	-177.98	994.91	132.35	79.21	53.14	2.491		
10,300.00	10,219.15	10,274.27	10,192.04	39.15	39.99	141.18	-181.72	1,009.91	144.54	91.19	53.36	2.709		
10,400.00	10,319.15	10,373.04	10,289.59	39.47	40.41	137.74	-185.46	1,024.90	157.35	103.72	53.63	2.934		
10,500.00	10,419.15	10,472.41	10,387.74	39.80	40.84	134.82	-189.22	1,039.96	170.61	116.65	53.95	3.162		
10,600.00	10,519.15	10,575.60	10,489.93	40.13	41.27	132.50	-192.70	1,053.88	182.72	128.35	54.37	3.360		
10,700.00	10,619.15	10,679.50	10,593.17	40.45	41.68	130.84	-195.52	1,065.19	192.67	137.87	54.81	3.515		
10,800.00	10,719.15	10,783.96	10,697.25	40.78	42.08	129.69	-197.67	1,073.81	200.31	145.06	55.24	3.626		
10,900.00	10,819.15	10,888.84	10,801.95	41.11	42.46	128.96	-199.13	1,079.68	205.53	149.85	55.67	3.692		
11,000.00	10,919.15	10,993.97	10,907.03	41.44	42.82	128.59	-199.90	1,082.77	208.27	152.18	56.09	3.713		
11,100.00	11,019.15	11,097.09	11,010.15	41.77	43.15	128.53	-200.03	1,083.27	208.72	152.20	56.52	3.693		
11,200.00	11,119.15	11,197.09	11,110.15	42.10	43.46	128.53	-200.03	1,083.27	208.72	151.72	57.00	3.662		
11,300.00	11,219.15	11,297.09	11,210.15	42.43	43.78	128.53	-200.03	1,083.27	208.72	151.24	57.48	3.631		
11,400.00	11,319.15	11,397.09	11,310.15	42.76	44.09	128.53	-200.03	1,083.27	208.72	150.76	57.96	3.601		
11,500.00	11,419.15	11,497.09	11,410.15	43.09	44.41	128.53	-200.03	1,083.27	208.72	150.28	58.44	3.571		
11,600.00	11,519.15	11,597.09	11,510.15	43.43	44.73	128.53	-200.03	1,083.27	208.72	149.80	58.92	3.542		
11,700.00	11,619.15	11,717.83	11,630.48	43.76	45.10	126.90	-192.52	1,083.19	205.07	146.32	58.75	3.491		
11,800.00	11,719.15	11,838.11	11,746.28	44.09	45.42	119.15	-160.83	1,082.84	189.93	132.07	57.86	3.283		
11,900.00	11,819.15	11,941.65	11,838.82	44.42	45.64	105.40	-114.71	1,082.34	170.81	112.67	58.14	2.938		
11,932.89	11,852.04	11,971.57	11,863.86	44.53	45.69	99.92	-98.35	1,082.16	165.93	107.22	58.71	2.826		
11,950.00	11,869.15	11,986.48	11,876.02	44.59	45.71	100.58	-89.70	1,082.07	164.08	105.00	59.07	2.777		
11,995.27	11,914.29	12,024.91	11,906.27	44.74	45.77	93.21	-66.01	1,081.81	162.01	102.01	60.00	2.700		
12,000.00	11,918.99	12,028.85	11,909.28	44.75	45.78	92.43	-63.47	1,081.78	162.04	101.95	60.08	2.697		
12,050.00	11,968.33	12,069.62	11,939.36	44.91	45.83	84.31	-35.97	1,081.48	164.90	104.27	60.63	2.720		
12,100.00	12,016.79	12,109.02	11,966.51	45.06	45.87	76.55	-7.43	1,081.17	172.10	111.67	60.44	2.848		
12,150.00	12,063.99	12,150.00	11,992.59	45.21	45.91	68.99	24.16	1,080.82	182.79	123.08	59.71	3.061		
12,200.00	12,109.58	12,184.51	12,012.76	45.34	45.93	63.01	52.16	1,080.52	195.94	137.70	58.23	3.365		
12,250.00	12,153.20	12,220.90	12,032.16	45.46	45.95	57.43	82.94	1,080.18	210.77	154.07	56.70	3.717		
12,300.00	12,194.54	12,256.56	12,049.24	45.57	45.96	52.63	114.23	1,079.84	226.58	171.44	55.14	4.109		
12,350.00	12,233.27	12,291.57	12,064.08	45.67	45.97	48.53	145.93	1,079.49	242.80	189.15	53.65	4.526		
12,400.00	12,269.10	12,326.03	12,076.77	45.76	45.98	45.06	177.96	1,079.14	259.03	206.74	52.29	4.954		
12,450.00	12,301.75	12,360.01	12,087.38	45.83	45.98	42.12	210.24	1,078.79	274.94	223.84	51.10	5.381		
12,500.00	12,330.98	12,400.00	12,097.39	45.90	45.99	39.40	248.94	1,078.37	290.39	240.08	50.31	5.772		
12,550.00	12,356.57	12,426.77	12,102.57	45.96	46.00	37.57	275.21	1,078.08	304.88	255.58	49.30	6.185		
12,600.00	12,378.31	12,459.66	12,107.24	46.01	46.01	35.83	307.75	1,077.73	318.56	269.87	48.69	6.542		
12,650.00	12,396.05	12,500.00	12,110.42	46.06	46.02	34.22	347.96	1,077.29	331.36	283.00	48.36	6.852		
12,700.00	12,409.66	12,524.67	12,110.96	46.11	46.04	33.17	372.62	1,077.02	342.76	294.65	48.11	7.124		
12,750.00	12,419.01	12,563.13	12,109.98	46.17	46.07	32.15	411.06	1,076.60	352.95	304.85	48.10	7.338		
12,800.00	12,424.05	12,612.59	12,108.25	46.24	46.12	31.53	460.49	1,076.06	359.97	311.78	48.19	7.470		
12,832.89	12,425.00	12,645.38	12,107.11	46.30	46.16	31.44	493.25	1,075.70	362.58	314.25	48.34	7.501		
12,900.00	12,425.00	12,712.40	12,104.78	46.43	46.27	31.63	560.23	1,074.97	365.86	317.20	48.66	7.518		
12,971.32	12,425.00	12,783.66	12,102.29	46.62	46.43	31.59	631.45	1,074.20	368.45	319.52	48.93	7.530		
13,000.00	12,425.00	12,812.33	12,101.29	46.71	46.51	31.51	660.09	1,073.88	369.30	320.28	49.02	7.534		
13,100.00	12,425.00	12,912.27	12,097.81	47.06	46.83	31.23	759.97	1,072.79	372.28	322.92	49.36	7.542		
13,200.00	12,425.00	13,012.21	12,094.33	47.49	47.23	30.96	859.84	1,071.70	375.27	325.53	49.74	7.544		
13,300.00	12,425.00	13,112.15	12,090.85	47.98	47.70	30.69	959.71	1,070.61	378.27	328.11	50.16	7.542		
13,400.00	12,425.00	13,212.08	12,087.37	48.53	48.24	30.42	1,059.58	1,069.52	381.28	330.67	50.60	7.534		
13,500.00	12,425.00	13,312.02	12,083.89	49.13	48.84	30.16	1,159.46	1,068.43	384.29	333.21	51.08	7.523		
13,600.00	12,425.00	13,411.96	12,080.41	49.79	49.49	29.90	1,259.33	1,067.34	387.31	335.72	51.59	7.507		
13,700.00	12,425.00	13,511.90	12,076.92	50.49	50.19	29.65	1,359.20	1,066.25	390.34	338.21	52.13	7.488		
13,800.00	12,425.00	13,611.84	12,073.44	51.24	50.95	29.40	1,459.07	1,065.16	393.38	340.68	52.70	7.465		
13,900.00	12,425.00	13,711.78	12,069.96	52.03	51.74	29.15	1,558.95	1,064.07	396.42	343.13	53.29	7.439		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Ouray Fed Com 703H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	12,425.00	13,811.72	12,066.48	52.87	52.58	28.91	1,658.82	1,062.98	399.47	345.57	53.90	7.411		
14,100.00	12,425.00	13,911.66	12,063.00	53.74	53.45	28.67	1,758.69	1,061.89	402.53	347.99	54.54	7.381		
14,200.00	12,425.00	14,011.60	12,059.52	54.65	54.37	28.44	1,858.57	1,060.80	405.60	350.40	55.20	7.348		
14,300.00	12,425.00	14,111.54	12,056.04	55.59	55.31	28.21	1,958.44	1,059.71	408.67	352.79	55.88	7.314		
14,400.00	12,425.00	14,211.48	12,052.55	56.57	56.29	27.98	2,058.31	1,058.62	411.75	355.18	56.57	7.278		
14,500.00	12,425.00	14,311.42	12,049.07	57.57	57.30	27.76	2,158.18	1,057.53	414.83	357.55	57.29	7.241		
14,600.00	12,425.00	14,411.36	12,045.59	58.61	58.34	27.54	2,258.06	1,056.44	417.92	359.91	58.02	7.203		
14,700.00	12,425.00	14,511.30	12,042.11	59.67	59.41	27.32	2,357.93	1,055.35	421.02	362.26	58.76	7.165		
14,800.00	12,425.00	14,611.23	12,038.63	60.76	60.50	27.10	2,457.80	1,054.26	424.12	364.60	59.53	7.125		
14,900.00	12,425.00	14,711.17	12,035.15	61.88	61.62	26.89	2,557.67	1,053.17	427.23	366.93	60.30	7.085		
15,000.00	12,425.00	14,811.11	12,031.67	63.02	62.76	26.68	2,657.55	1,052.08	430.35	369.26	61.09	7.045		
15,100.00	12,425.00	14,911.05	12,028.18	64.18	63.92	26.48	2,757.42	1,050.99	433.47	371.58	61.89	7.004		
15,200.00	12,425.00	15,010.99	12,024.70	65.36	65.11	26.27	2,857.29	1,049.90	436.60	373.90	62.70	6.963		
15,300.00	12,425.00	15,110.93	12,021.22	66.56	66.31	26.08	2,957.16	1,048.81	439.73	376.21	63.52	6.923		
15,400.00	12,425.00	15,210.87	12,017.74	67.78	67.54	25.88	3,057.04	1,047.72	442.86	378.51	64.35	6.882		
15,500.00	12,425.00	15,310.81	12,014.26	69.02	68.78	25.68	3,156.91	1,046.63	446.01	380.81	65.19	6.841		
15,600.00	12,425.00	15,410.75	12,010.78	70.28	70.04	25.49	3,256.78	1,045.54	449.15	383.11	66.04	6.801		
15,700.00	12,425.00	15,510.69	12,007.30	71.55	71.31	25.30	3,356.66	1,044.45	452.30	385.41	66.90	6.761		
15,800.00	12,425.00	15,610.63	12,003.81	72.84	72.60	25.12	3,456.53	1,043.36	455.46	387.70	67.77	6.721		
15,900.00	12,425.00	15,710.57	12,000.33	74.14	73.90	24.93	3,556.40	1,042.27	458.62	389.98	68.64	6.682		
16,000.00	12,425.00	15,810.51	11,996.85	75.46	75.22	24.75	3,656.27	1,041.18	461.79	392.27	69.52	6.643		
16,100.00	12,425.00	15,910.45	11,993.37	76.79	76.55	24.58	3,756.15	1,040.09	464.96	394.55	70.40	6.604		
16,200.00	12,425.00	16,010.39	11,989.89	78.13	77.89	24.40	3,856.02	1,039.00	468.13	396.84	71.30	6.566		
16,300.00	12,425.00	16,110.32	11,986.41	79.48	79.25	24.23	3,955.89	1,037.91	471.31	399.12	72.20	6.528		
16,400.00	12,425.00	16,210.26	11,982.93	80.85	80.61	24.05	4,055.76	1,036.82	474.50	401.40	73.10	6.491		
16,500.00	12,425.00	16,310.20	11,979.44	82.22	81.99	23.88	4,155.64	1,035.73	477.69	403.68	74.01	6.454		
16,600.00	12,425.00	16,410.14	11,975.96	83.61	83.37	23.72	4,255.51	1,034.64	480.88	405.95	74.92	6.418		
16,700.00	12,425.00	16,510.08	11,972.48	85.00	84.77	23.55	4,355.38	1,033.55	484.07	408.23	75.84	6.383		
16,800.00	12,425.00	16,610.02	11,969.00	86.40	86.17	23.39	4,455.26	1,032.46	487.27	410.51	76.77	6.347		
16,900.00	12,425.00	16,709.96	11,965.52	87.82	87.58	23.23	4,555.13	1,031.37	490.48	412.78	77.70	6.313		
17,000.00	12,425.00	16,809.90	11,962.04	89.24	89.00	23.07	4,655.00	1,030.28	493.69	415.06	78.63	6.279		
17,100.00	12,425.00	16,909.84	11,958.55	90.66	90.43	22.92	4,754.87	1,029.19	496.90	417.33	79.56	6.245		
17,200.00	12,425.00	17,009.78	11,955.07	92.10	91.87	22.76	4,854.75	1,028.10	500.11	419.61	80.50	6.212		
17,300.00	12,425.00	17,109.72	11,951.59	93.54	93.31	22.61	4,954.62	1,027.01	503.33	421.89	81.44	6.180		
17,400.00	12,425.00	17,209.66	11,948.11	94.99	94.76	22.46	5,054.49	1,025.92	506.55	424.16	82.39	6.148		
17,500.00	12,425.00	17,309.60	11,944.63	96.45	96.22	22.31	5,154.36	1,024.83	509.78	426.44	83.34	6.117		
17,600.00	12,425.00	17,409.54	11,941.15	97.91	97.68	22.16	5,254.24	1,023.74	513.01	428.71	84.29	6.086		
17,700.00	12,425.00	17,509.47	11,937.67	99.38	99.15	22.02	5,354.11	1,022.65	516.24	430.99	85.25	6.056		
17,800.00	12,425.00	17,609.41	11,934.18	100.86	100.62	21.88	5,453.98	1,021.56	519.47	433.27	86.20	6.026		
17,900.00	12,425.00	17,709.35	11,930.70	102.34	102.10	21.74	5,553.86	1,020.47	522.71	435.55	87.17	5.997		
18,000.00	12,425.00	17,809.29	11,927.22	103.82	103.59	21.60	5,653.73	1,019.38	525.95	437.83	88.13	5.968		
18,100.00	12,425.00	17,909.23	11,923.74	105.31	105.08	21.46	5,753.60	1,018.29	529.20	440.10	89.09	5.940		
18,200.00	12,425.00	18,009.17	11,920.26	106.80	106.57	21.32	5,853.47	1,017.20	532.45	442.38	90.06	5.912		
18,300.00	12,425.00	18,109.11	11,916.78	108.30	108.07	21.19	5,953.35	1,016.11	535.70	444.67	91.03	5.885		
18,400.00	12,425.00	18,209.05	11,913.30	109.81	109.57	21.05	6,053.22	1,015.02	538.95	446.95	92.01	5.858		
18,500.00	12,425.00	18,308.99	11,909.81	111.32	111.08	20.92	6,153.09	1,013.93	542.21	449.23	92.98	5.831		
18,600.00	12,425.00	18,408.93	11,906.33	112.83	112.59	20.79	6,252.96	1,012.84	545.47	451.51	93.96	5.806		
18,700.00	12,425.00	18,508.87	11,902.85	114.34	114.11	20.67	6,352.84	1,011.75	548.73	453.80	94.93	5.780		
18,800.00	12,425.00	18,608.81	11,899.37	115.86	115.63	20.54	6,452.71	1,010.66	551.99	456.08	95.92	5.755		
18,900.00	12,425.00	18,708.75	11,895.89	117.39	117.15	20.41	6,552.58	1,009.57	555.26	458.36	96.90	5.730		
19,000.00	12,425.00	18,808.69	11,892.41	118.91	118.68	20.29	6,652.45	1,008.48	558.53	460.65	97.88	5.706		
19,100.00	12,425.00	18,908.63	11,888.93	120.44	120.21	20.17	6,752.33	1,007.39	561.81	462.94	98.87	5.682		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Georgetown/Ouray - Ouray Fed Com 703H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,200.00	12,425.00	19,008.56	11,885.44	121.98	121.74	20.05	6,852.20	1,006.30	565.08	465.22	99.86	5.659		
19,300.00	12,425.00	19,108.50	11,881.96	123.51	123.28	19.93	6,952.07	1,005.21	568.36	467.51	100.84	5.636		
19,400.00	12,425.00	19,208.44	11,878.48	125.05	124.81	19.81	7,051.95	1,004.12	571.64	469.80	101.84	5.613		
19,500.00	12,425.00	19,308.38	11,875.00	126.60	126.36	19.69	7,151.82	1,003.03	574.92	472.09	102.83	5.591		
19,600.00	12,425.00	19,408.32	11,871.52	128.14	127.90	19.58	7,251.69	1,001.94	578.21	474.38	103.82	5.569		
19,700.00	12,425.00	19,508.26	11,868.04	129.69	129.45	19.46	7,351.56	1,000.85	581.49	476.68	104.82	5.548		
19,800.00	12,425.00	19,608.20	11,864.56	131.24	131.00	19.35	7,451.44	999.76	584.78	478.97	105.81	5.527		
19,900.00	12,425.00	19,708.14	11,861.07	132.79	132.55	19.24	7,551.31	998.67	588.07	481.26	106.81	5.506		
20,000.00	12,425.00	19,808.08	11,857.59	134.35	134.10	19.13	7,651.18	997.58	591.37	483.56	107.81	5.485		
20,100.00	12,425.00	19,908.02	11,854.11	135.91	135.66	19.02	7,751.05	996.49	594.66	485.85	108.81	5.465		
20,200.00	12,425.00	20,007.96	11,850.63	137.47	137.22	18.91	7,850.93	995.40	597.96	488.15	109.81	5.445		
20,300.00	12,425.00	20,107.90	11,847.15	139.03	138.78	18.81	7,950.80	994.31	601.26	490.45	110.82	5.426		
20,400.00	12,425.00	20,207.84	11,843.67	140.59	140.35	18.70	8,050.67	993.22	604.56	492.74	111.82	5.407		
20,500.00	12,425.00	20,307.78	11,840.19	142.16	141.91	18.60	8,150.55	992.13	607.87	495.04	112.83	5.388		
20,600.00	12,425.00	20,407.71	11,836.70	143.73	143.48	18.49	8,250.42	991.04	611.18	497.34	113.83	5.369		
20,700.00	12,425.00	20,507.65	11,833.22	145.30	145.05	18.39	8,350.29	989.95	614.48	499.64	114.84	5.351		
20,800.00	12,425.00	20,607.59	11,829.74	146.87	146.62	18.29	8,450.16	988.86	617.79	501.94	115.85	5.333		
20,900.00	12,425.00	20,707.53	11,826.26	148.44	148.19	18.19	8,550.04	987.77	621.11	504.24	116.86	5.315		
21,000.00	12,425.00	20,807.47	11,822.78	150.02	149.77	18.09	8,649.91	986.68	624.42	506.55	117.87	5.297		
21,100.00	12,425.00	20,907.41	11,819.30	151.59	151.34	17.99	8,749.78	985.59	627.74	508.85	118.89	5.280		
21,200.00	12,425.00	21,007.35	11,815.82	153.17	152.92	17.90	8,849.65	984.50	631.05	511.15	119.90	5.263		
21,300.00	12,425.00	21,107.29	11,812.33	154.75	154.50	17.80	8,949.53	983.41	634.37	513.46	120.91	5.247		
21,400.00	12,425.00	21,207.23	11,808.85	156.33	156.08	17.71	9,049.40	982.32	637.69	515.77	121.93	5.230		
21,500.00	12,425.00	21,307.17	11,805.37	157.92	157.66	17.61	9,149.27	981.23	641.02	518.07	122.94	5.214		
21,600.00	12,425.00	21,407.11	11,801.89	159.50	159.25	17.52	9,249.15	980.14	644.34	520.38	123.96	5.198		
21,700.00	12,425.00	21,507.05	11,798.41	161.09	160.83	17.43	9,349.02	979.05	647.67	522.69	124.98	5.182		
21,800.00	12,425.00	21,606.99	11,794.93	162.67	162.42	17.34	9,448.89	977.96	651.00	525.00	126.00	5.167		
21,900.00	12,425.00	21,706.93	11,791.45	164.26	164.01	17.25	9,548.76	976.87	654.32	527.31	127.02	5.151		
22,000.00	12,425.00	21,806.86	11,787.96	165.85	165.59	17.16	9,648.64	975.78	657.66	529.62	128.04	5.136		
22,100.00	12,425.00	21,906.80	11,784.48	167.44	167.18	17.07	9,748.51	974.69	660.99	531.93	129.06	5.122		
22,200.00	12,425.00	22,006.74	11,781.00	169.03	168.78	16.98	9,848.38	973.60	664.32	534.24	130.08	5.107		
22,300.00	12,425.00	22,106.68	11,777.52	170.63	170.37	16.90	9,948.25	972.51	667.66	536.55	131.11	5.093		
22,400.00	12,425.00	22,206.62	11,774.04	172.22	171.96	16.81	10,048.13	971.42	671.00	538.87	132.13	5.078		
22,506.08	12,425.00	22,312.64	11,770.34	173.92	173.64	16.72	10,154.07	970.26	674.54	541.33	133.20	5.064		

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



Total Directional Services

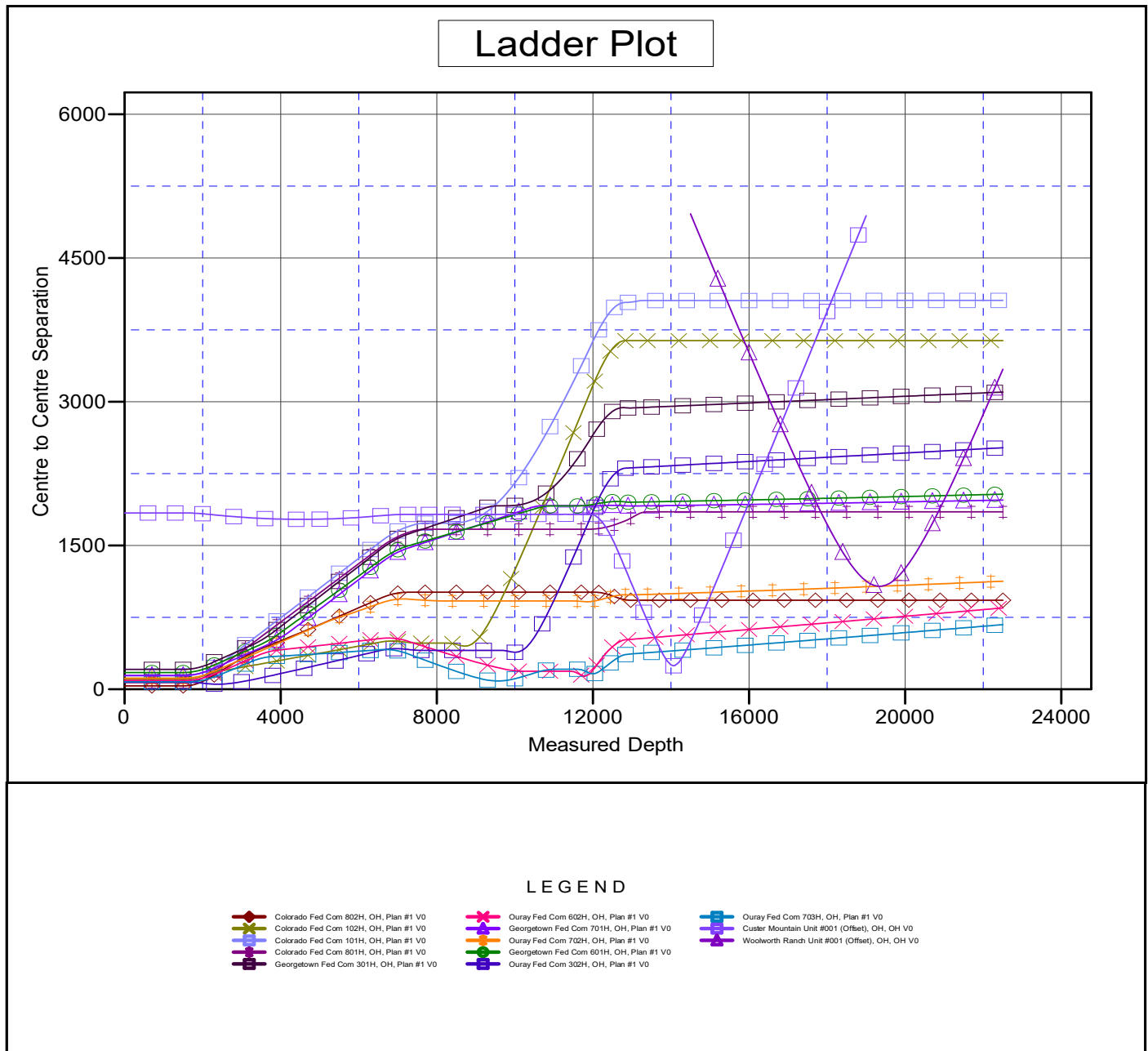
Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Colorado Fed Com 803H
Project:	Lea County, NM (NAD83)	TVD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Reference Site:	Colorado Fed Com	MD Reference:	3393.1' GE + 30' KB @ 3423.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Colorado Fed Com 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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 3393.1' GE + 30' KB @ 3423.10usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.333334

Coordinates are relative to: Colorado Fed Com 803H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.51°



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



Total Directional Services

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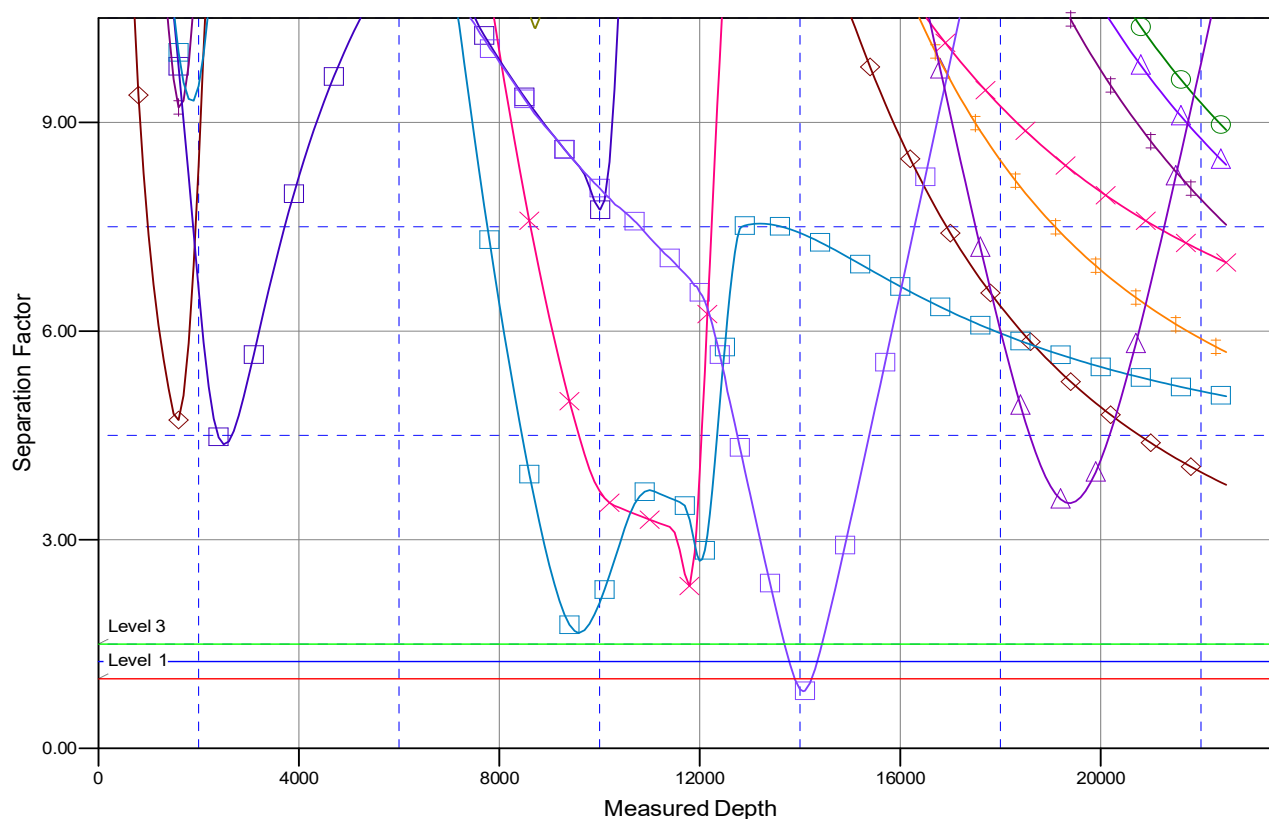
Central Meridian is -104.333334

Coordinates are relative to: Colorado Fed Com 803H

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

Grid Convergence at Surface is: 0.51°

Separation Factor Plot



LEGEND

Colorado Fed Com 802H, OH, Plan #1 V0	Ourray Fed Com 602H, OH, Plan #1 V0	Ourray Fed Com 703H, OH, Plan #1 V0
Colorado Fed Com 102H, OH, Plan #1 V0	Georgetown Fed Com 701H, OH, Plan #1 V0	Custer Mountain Unit #001 (Offset), OH, OH V0
Colorado Fed Com 101H, OH, Plan #1 V0	Ourray Fed Com 702H, OH, Plan #1 V0	Woolworth Ranch Unit #001 (Offset), OH, OH V0
Colorado Fed Com 801H, OH, Plan #1 V0	Georgetown Fed Com 601H, OH, Plan #1 V0	
Georgetown Fed Com 301H, OH, Plan #1 V0	Ourray Fed Com 302H, OH, Plan #1 V0	

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

**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Franklin Mountain Energy Company LLC
LEASE NO.:	NMNM114998, NMNM138898, NMNM01228, NMNM0001228A
COUNTY:	Lea

TABLE OF CONTENTS

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

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

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

OR

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

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

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

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

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

IV. NOXIOUS WEEDS

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

V. SPECIAL REQUIREMENT(S)

Watershed:

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

VRM IV:

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

VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

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

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 Enclosure 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 enclosure 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 Enclosures

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 enclosure 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, Carlsbad Canyon from the BLM Standard Environmental Color Chart (CC-001: June 2008).

VIII. INTERIM RECLAMATION

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

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

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover

operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

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

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

IX. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

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

Seed Mixture 3, for Shallow 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:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass (<i>Setaria macrostachya</i>)	1.0
Green Sprangletop (<i>Leptochloa dubia</i>)	2.0
Sideoats Grama (<i>Bouteloua curtipendula</i>)	5.0

*Pounds of pure live seed:

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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Franklin Mountain Energy LLC
LEASE NO.:	NMNM01228A
LOCATION:	Section 9, T.24 S., R.35 E., NMPM
COUNTY:	Lea County, New Mexico
Sundry ID:	N/A

WELL NAME & NO.:	Colorado Fed Com 101H
SURFACE HOLE FOOTAGE:	250'S & 1203'/W
BOTTOM HOLE FOOTAGE:	150'/N & 380'/W

WELL NAME & NO.:	Colorado Fed Com 102H
SURFACE HOLE FOOTAGE:	250'S & 1238'/W
BOTTOM HOLE FOOTAGE:	150'/N & 1877'/W

WELL NAME & NO.:	Colorado Fed Com 801H
SURFACE HOLE FOOTAGE:	250'S & 1273'/W
BOTTOM HOLE FOOTAGE:	150'/N & 380'/W

WELL NAME & NO.:	Colorado Fed Com 802H
SURFACE HOLE FOOTAGE:	250'S & 1308'/W
BOTTOM HOLE FOOTAGE:	150'/N & 1306'/W

WELL NAME & NO.:	Colorado Fed Com 803H
SURFACE HOLE FOOTAGE:	250'S & 1343'/W
BOTTOM HOLE FOOTAGE:	150'/N & 2232'/W

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

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Morrow** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1100 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Option 1 (Single Stage):

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

Option 2:

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

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

- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.**
3. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
 4. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1.

Option 1:

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

Option 2:

- a. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi**. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

- i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- iii. Manufacturer representative shall install the test plug for the initial BOP test.
- iv. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- v. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

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

☒ Lea County

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

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

A. CASING

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

B. PRESSURE CONTROL

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 166796

CONDITIONS

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 166796
	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	1/4/2023
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	1/4/2023
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	1/4/2023
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	1/4/2023