

OCD – HOBBS
11/18/2020
RECEIVED

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		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
		8. Lease Name and Well No. [329878]
2. Name of Operator [373910]		9. API Well No. 30-025-48107
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 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). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

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

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

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

GCP Rec 11/18/2020

SL

(Continued on page 2)

APPROVED WITH CONDITIONS
Approval Date: 10/21/2020

Kz
12/01/2020

*(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: SESE / 250 FSL / 488 FEL / TWSP: 25S / RANGE: 35E / SECTION: 36 / LAT: 32.08026 / LONG: -103.314298 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 1321 FSL / 350 FEL / TWSP: 26S / RANGE: 35E / SECTION: 12 / LAT: 32.054151 / LONG: -103.313838 (TVD: 12237 feet, MD: 21524 feet)

PPP: NENE / 0 FNL / 349 FEL / TWSP: 26S / RANGE: 35E / SECTION: 12 / LAT: 32.065043 / LONG: -103.313843 (TVD: 12159 feet, MD: 17561 feet)

PPP: NENE / 113 FNL / 349 FEL / TWSP: 26S / RANGE: 35E / SECTION: 1 / LAT: 32.079262 / LONG: -103.313849 (TVD: 12059 feet, MD: 12387 feet)

PPP: NENE / 0 FNL / 392 FEL / TWSP: 26S / RANGE: 35E / SECTION: 1 / LAT: 32.079573 / LONG: -103.313988 (TVD: 12039 feet, MD: 12266 feet)

BHL: SESE / 150 FSL / 350 FEL / TWSP: 26S / RANGE: 35E / SECTION: 12 / LAT: 32.050933 / LONG: -103.313837 (TVD: 12261 feet, MD: 22695 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



LHS Wildcat Fed Com 705H

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)	3,032'	21'	21'	0	Sand/Gravels/unconsolidated
Rustler	2,541'	512'			Carbonates
Salado	2,156'	897'			Salt, Carbonate & Clastics
Base Salt	-1,361'	4,414'			Shaley Carbonate & Shale
Lamar	-1,796'	4,849'			Carbonate & Clastics
Bell Canyon	-1,830'	4,883'			Sandstone - oil/gas/water
Cherry Canyon	-2,697'	5,750'			Sandstone - oil/gas/water
Brushy Canyon	-4,189'	7,242'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,550'	8,603'			Shale/Carbonates - oil/gas
Avalon	-5,574'	8,627'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-6,676'	9,729'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-6,815'	9,868'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7,200'	10,253'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-7,900'	10,953'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-8,571'	11,624'			Sandstone - oil/gas/water
Wolfcamp	-8,813'	11,866'			Overpressure shale/sand- Oil/Gas
Wolfcamp A	-8,874'	11,927'			Overpressure Shale - Oil/Gas
HZ Target	-9,000'	12,053'			Overpressure Shale - Oil/Gas
Wolfcamp B	-9,094'	12,147'			Overpressure Shale - Oil/Gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	4,883'	Oil
Bone Spring	9,729'	Oil
Wolfcamp	11,866	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 casings 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	5400	1.72	1.67	2.90	3.30
Intermediate 7 5/8"	29.7	HCP-110	8280	7150	827	Stinger 564	11900	1.12	1.28	1.82	1.24
Long string 5 1/2"	23	P-110	14520	14520	729	Anaconda 656	22695	1.32	1.37	1.17	1.05



Preliminary plan is to set 7 5/8" string before entering the Wolfcamp formation at 11,855'TVD/11,900'MD at 40° Inc due too potential overpressure.

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	Lead Type of cmt	Yield ft3/sk	Water gal/sk	TOC ft	Sacks	Type of cmt	Tail Yield ft3/sk	Water gal/sk	TOC	Excess
Surf	17.5	13.375	1300	804	Extenda Cem, 13.5 ppg Class C, 3lb/sk Kol-Seal	1.728	9.19	0	331	HalCem TM, 14.8 ppg, Class C, 2% CaCl2, 0.25pps Celo-Flake	1.364	6.51	1000	100%
Int1	12.25	9.625	5400	1256	Bentonite, 2%CaCl2,0.25pps Cello-Flake									
					Neocem TM, 11.5 ppg, Class C 50:50 Poz	2.271	13.24	0	152	HalCem TM, 14.8 ppg, Class C, 0.25 pps Cello-Flake, 2% CaCl2	1.349	6.25	5100	100%
					Gel, 0.125 pps Poly-E-Flake, 3lb/sk Kol-Seal									
Int2	8.75	7.625	11900	337	NeoCem, 11 ppg, Class C 2lb/sk Bridgemaker Gel, 5%	2.777	14.21	4400	112	NeoCem 13.2 ppg, Class C	1.44	4.31	10900	50%
					Salt, 5pps LCM, 0.25pps Cello-Flake					0.25 pps Cello-Flake, 2% CaCl2				
Prod	6.75	5.5	22695	544	NeoCem, 14.5 ppg, Gas Migration Control	2.166	9.38	10900						20%

5. Minimum Specifications for Pressure Control:

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated, and the ram-type will

be equipped with blind rams on bottom and 4 ½" x 7" variable pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

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



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

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

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

6. Types and characteristics of the proposed mud system:

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

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,300'	Fresh - Gel	8.6-8.8	28-34	N/c
1,300' – 11,900'	Brine	8.8-10.2	28-34	N/c
11,900' – 22,695' Lateral	Oil Base	11.0-12.0	58-68	3 - 6

The highest mud weight needed to balance formation is expected to be 11-12 ppg. In order to maintain hole stability, mud weights up to 13.0 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 12,260' TVD (deepest point of the well) is 195F with an estimated maximum bottom-hole pressure (BHP) at the same point of 8,287 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 be also be hauled to and disposed of in a state-certified disposal site.
- (C) Garbage will be hauled to the Pecos City Landfill.
- (D) Sewage (grey water) will be hauled to the Carlsbad City Landfill

13. Wellhead:

A multi-bowl wellhead system will be utilized.

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

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

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

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

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

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

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

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



14. Additional variance requests

A. Casing.

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

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

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
 Site: LHS Wildcat Fed Com
 Well: LHS Wildcat Fed Com 705H
 Wellbore: OH
 Design: Plan #2



Azimuths to Grid North
 True North: -0.54°
 Magnetic North: 5.99°

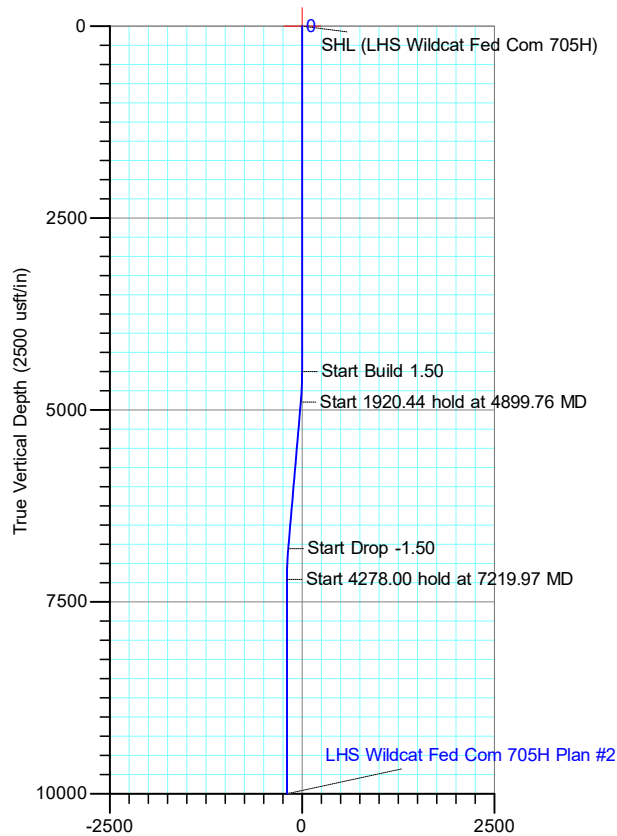
Magnetic Field
 Strength: 47605.5nT
 Dip Angle: 59.93°
 Date: 2/25/2020
 Model: IGRF2015

PROJECT DETAILS: Lea County, NM (NAD83)

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



3031.9' GE + 21' KB @ 3052.90usft

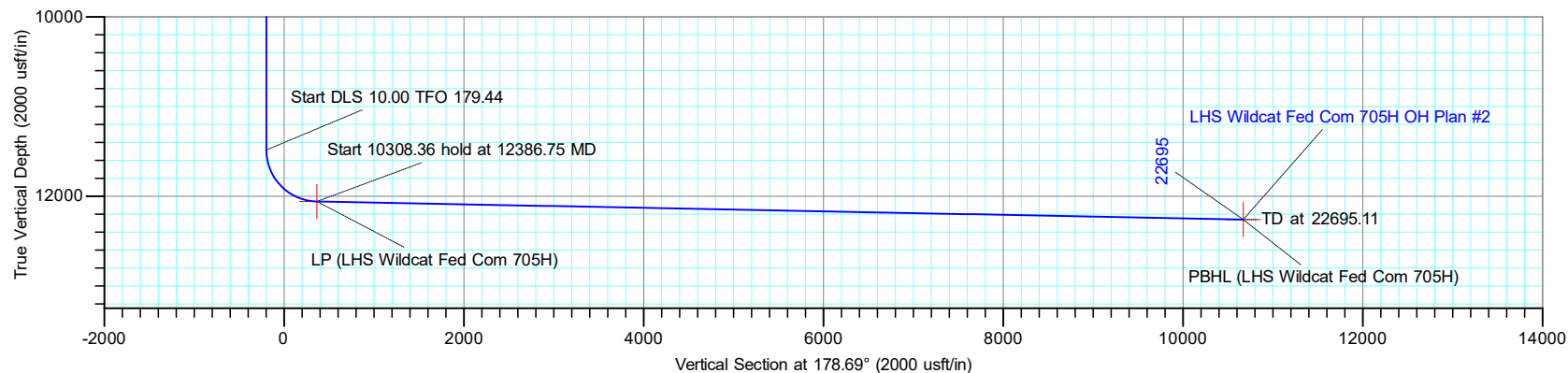
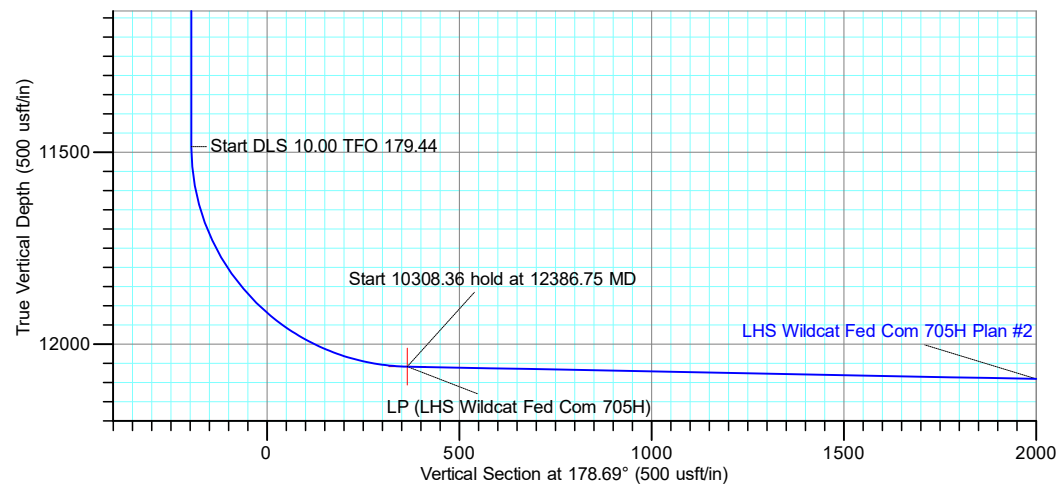


SECTION DETAILS

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	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
4899.76	6.00	34.41	4899.04	17.24	11.81	1.50	34.41	-16.97	Start 1920.44 hold at 4899.76 MD
6820.20	6.00	34.41	6808.96	182.76	125.19	0.00	0.00	-179.85	Start Drop -1.50
7219.97	0.00	0.00	7208.00	200.00	137.00	1.50	180.00	-196.82	Start 4278.00 hold at 7219.97 MD
11497.97	0.00	0.00	11486.00	200.00	137.00	0.00	0.00	-196.82	Start DLS 10.00 TFO 179.44
12386.75	88.88	179.44	12058.85	-361.72	142.50	10.00	179.44	364.87	Start 10308.36 hold at 12386.75 MD
22695.11	88.88	179.44	12260.61	-10667.61	243.43	0.00	0.00	10670.39	TD at 22695.11

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
LP (LHS Wildcat Fed Com 705H)	12058.85	-361.72	142.50	32.079262	-103.313849
PBHL (LHS Wildcat Fed Com 705H)	12260.61	-10667.61	243.43	32.050933	-103.313837
SHL (LHS Wildcat Fed Com 705H)	0.00	0.00	0.00	32.080260	-103.314297



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

Plan: Plan #2 (LHS Wildcat Fed Com 705H/OH)
 LHS Wildcat Fed Com
 Created By: Dustin Ault
 Date: 23:24, February 25 2020
 Approved: _____
 Date: _____

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: LHS Wildcat Fed Com
Well: LHS Wildcat Fed Com 705H
Wellbore: OH
Design: Plan #2



Azimuths to Grid North
True North: -0.54°
Magnetic North: 5.99°

Magnetic Field
Strength: 47605.5nT
Dip Angle: 59.93°
Date: 2/25/2020
Model: IGRF2015

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

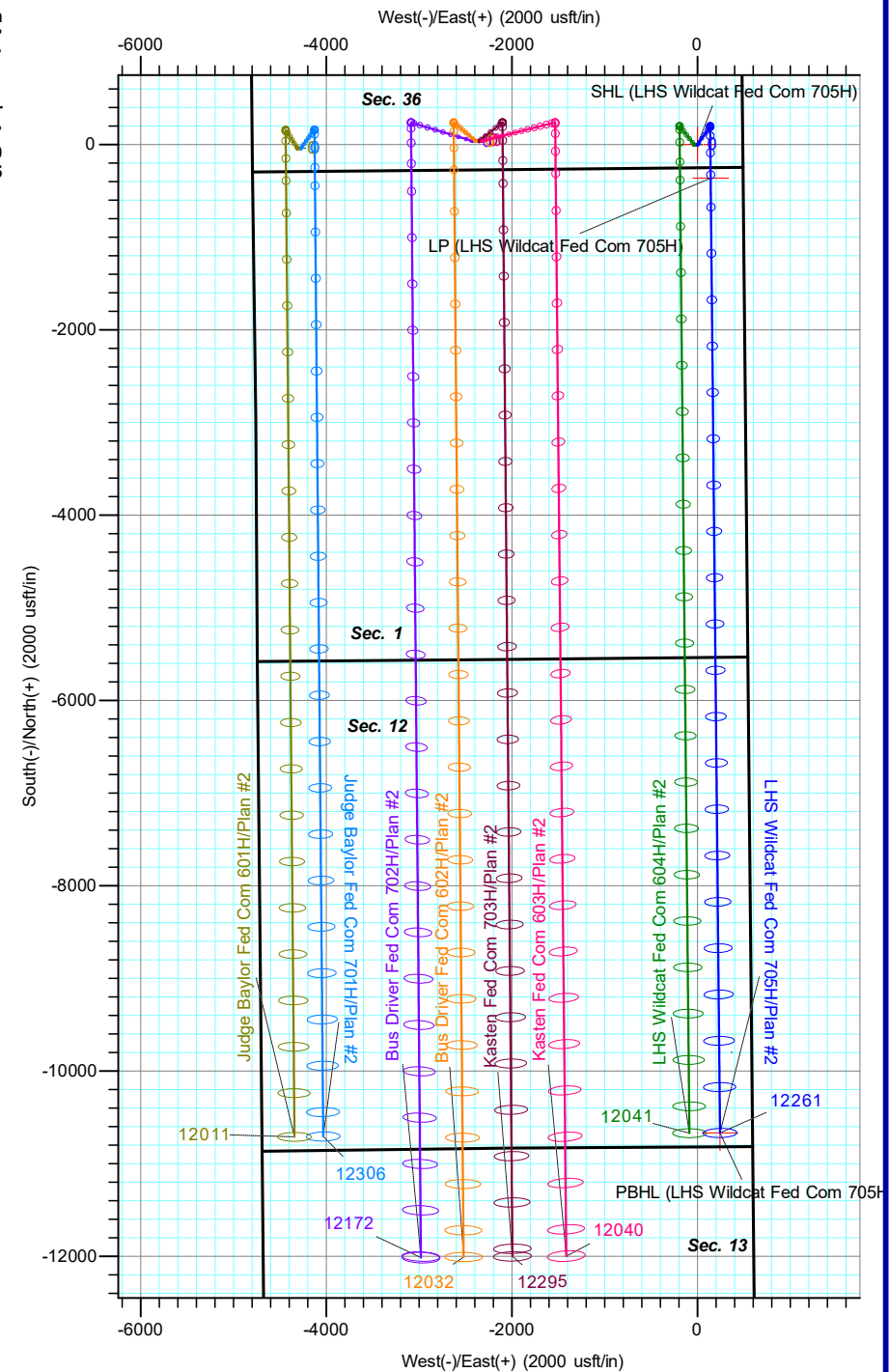
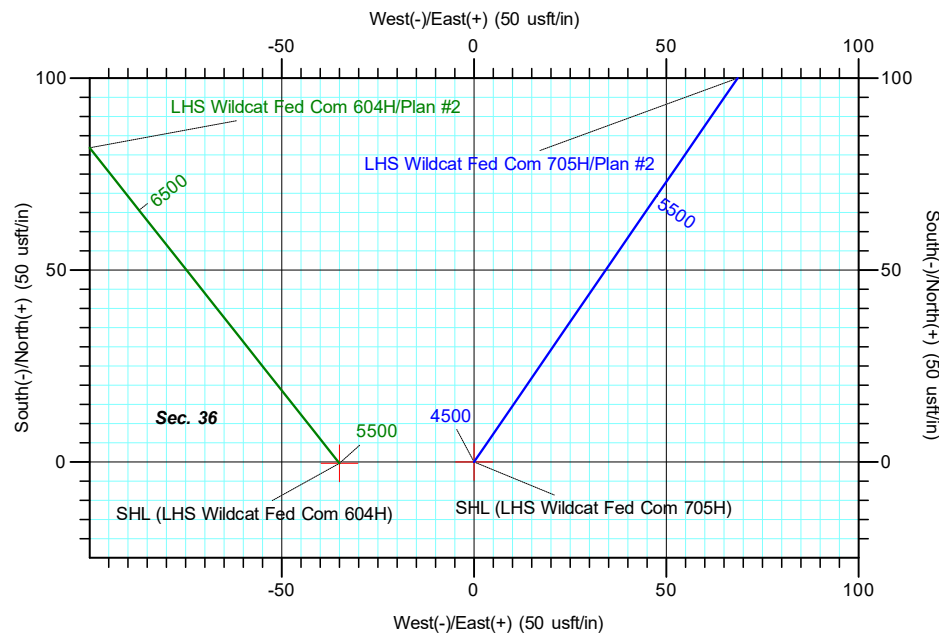


DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP (LHS Wildcat Fed Com 705H)	12058.85	-361.72	142.50	394064.69	857100.78	32.079262	-103.313849
PBHL (LHS Wildcat Fed Com 705H)	12260.61	-10667.61	243.43	383758.80	857201.71	32.050933	-103.313837
SHL (LHS Wildcat Fed Com 705H)	0.00	0.00	0.00	394426.41	856958.28	32.080260	-103.314297

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	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
4899.76	6.00	34.41	4899.04	17.24	11.81	1.50	34.41	-16.97	Start 1920.44 hold at 4899.76 MD
6820.20	6.00	34.41	6808.96	182.76	125.19	0.00	0.00	-179.85	Start Drop -1.50
7219.97	0.00	0.00	7208.00	200.00	137.00	1.50	180.00	-196.82	Start 4278.00 hold at 7219.97 MD
11497.97	0.00	0.00	11486.00	200.00	137.00	0.00	0.00	-196.82	Start DLS 10.00 TFO 179.44
12386.75	88.88	179.44	12058.85	-361.72	142.50	10.00	179.44	364.87	Start 10308.36 hold at 12386.75 MD
22695.11	88.88	179.44	12260.61	-10667.61	243.43	0.00	0.00	10670.39	TD at 22695.11



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

Plan: Plan #2 (LHS Wildcat Fed Com 705H/OH)
LHS Wildcat Fed Com
Created By: Dustin Ault Date: 23:25, February 25 2020
Date: _____
Approved: _____ Date: _____



Franklin Mountain Energy

Lea County, NM (NAD83)

LHS Wildcat Fed Com

LHS Wildcat Fed Com 705H

OH

Plan: Plan #2

Standard Planning Report

25 February, 2020



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Company:	Franklin Mountain Energy	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Project:	Lea County, NM (NAD83)	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site:	LHS Wildcat Fed Com	North Reference:	Grid
Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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		LHS Wildcat Fed Com			
Site Position:		Northing:	394,426.10 usft	Latitude:	32.080260
From:	Map	Easting:	856,923.28 usft	Longitude:	-103.314411
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.54 °

Well	LHS Wildcat Fed Com 705H					
Well Position	+N/-S	0.31 usft	Northing:	394,426.41 usft	Latitude:	32.080260
	+E/-W	35.00 usft	Easting:	856,958.28 usft	Longitude:	-103.314298
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,031.90 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/25/2020	6.53	59.93	47,605.53336058

Design	Plan #2			
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	178.69

Plan Survey Tool Program	Date	2/25/2020			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	22,695.11 Plan #2 (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	
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,899.76	6.00	34.41	4,899.04	17.24	11.81	1.50	1.50	0.00	34.41	
6,820.20	6.00	34.41	6,808.96	182.76	125.19	0.00	0.00	0.00	0.00	
7,219.97	0.00	0.00	7,208.00	200.00	137.00	1.50	-1.50	0.00	180.00	
11,497.97	0.00	0.00	11,486.00	200.00	137.00	0.00	0.00	0.00	0.00	
12,386.75	88.88	179.44	12,058.85	-361.72	142.50	10.00	10.00	20.19	179.44	
22,695.11	88.88	179.44	12,260.61	-10,667.61	243.43	0.00	0.00	0.00	0.00	PBHL (LHS Wildcat F



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Company:	Franklin Mountain Energy	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Project:	Lea County, NM (NAD83)	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site:	LHS Wildcat Fed Com	North Reference:	Grid
Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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 (LHS Wildcat Fed Com 705H)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50									
4,600.00	1.50	34.41	4,599.99	1.08	0.74	-1.06	1.50	1.50	0.00
4,700.00	3.00	34.41	4,699.91	4.32	2.96	-4.25	1.50	1.50	0.00
4,800.00	4.50	34.41	4,799.69	9.71	6.65	-9.56	1.50	1.50	0.00
4,899.76	6.00	34.41	4,899.04	17.24	11.81	-16.97	1.50	1.50	0.00
Start 1920.44 hold at 4899.76 MD									



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Company:	Franklin Mountain Energy	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Project:	Lea County, NM (NAD83)	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site:	LHS Wildcat Fed Com	North Reference:	Grid
Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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	6.00	34.41	4,998.72	25.88	17.73	-25.47	0.00	0.00	0.00
5,100.00	6.00	34.41	5,098.18	34.50	23.63	-33.95	0.00	0.00	0.00
5,200.00	6.00	34.41	5,197.63	43.12	29.54	-42.43	0.00	0.00	0.00
5,300.00	6.00	34.41	5,297.08	51.74	35.44	-50.92	0.00	0.00	0.00
5,400.00	6.00	34.41	5,396.53	60.36	41.34	-59.40	0.00	0.00	0.00
5,500.00	6.00	34.41	5,495.99	68.97	47.25	-67.88	0.00	0.00	0.00
5,600.00	6.00	34.41	5,595.44	77.59	53.15	-76.36	0.00	0.00	0.00
5,700.00	6.00	34.41	5,694.89	86.21	59.06	-84.84	0.00	0.00	0.00
5,800.00	6.00	34.41	5,794.34	94.83	64.96	-93.32	0.00	0.00	0.00
5,900.00	6.00	34.41	5,893.80	103.45	70.86	-101.81	0.00	0.00	0.00
6,000.00	6.00	34.41	5,993.25	112.07	76.77	-110.29	0.00	0.00	0.00
6,100.00	6.00	34.41	6,092.70	120.69	82.67	-118.77	0.00	0.00	0.00
6,200.00	6.00	34.41	6,192.16	129.30	88.57	-127.25	0.00	0.00	0.00
6,300.00	6.00	34.41	6,291.61	137.92	94.48	-135.73	0.00	0.00	0.00
6,400.00	6.00	34.41	6,391.06	146.54	100.38	-144.21	0.00	0.00	0.00
6,500.00	6.00	34.41	6,490.51	155.16	106.28	-152.70	0.00	0.00	0.00
6,600.00	6.00	34.41	6,589.97	163.78	112.19	-161.18	0.00	0.00	0.00
6,700.00	6.00	34.41	6,689.42	172.40	118.09	-169.66	0.00	0.00	0.00
6,800.00	6.00	34.41	6,788.87	181.02	124.00	-178.14	0.00	0.00	0.00
6,820.20	6.00	34.41	6,808.96	182.76	125.19	-179.85	0.00	0.00	0.00
Start Drop -1.50									
6,900.00	4.80	34.41	6,888.41	188.95	129.43	-185.95	1.50	-1.50	0.00
7,000.00	3.30	34.41	6,988.15	194.78	133.42	-191.68	1.50	-1.50	0.00
7,100.00	1.80	34.41	7,088.05	198.45	135.94	-195.29	1.50	-1.50	0.00
7,200.00	0.30	34.41	7,188.03	199.96	136.97	-196.78	1.50	-1.50	0.00
7,219.97	0.00	0.00	7,208.00	200.00	137.00	-196.82	1.50	-1.50	0.00
Start 4278.00 hold at 7219.97 MD									
7,300.00	0.00	0.00	7,288.03	200.00	137.00	-196.82	0.00	0.00	0.00
7,400.00	0.00	0.00	7,388.03	200.00	137.00	-196.82	0.00	0.00	0.00
7,500.00	0.00	0.00	7,488.03	200.00	137.00	-196.82	0.00	0.00	0.00
7,600.00	0.00	0.00	7,588.03	200.00	137.00	-196.82	0.00	0.00	0.00
7,700.00	0.00	0.00	7,688.03	200.00	137.00	-196.82	0.00	0.00	0.00
7,800.00	0.00	0.00	7,788.03	200.00	137.00	-196.82	0.00	0.00	0.00
7,900.00	0.00	0.00	7,888.03	200.00	137.00	-196.82	0.00	0.00	0.00
8,000.00	0.00	0.00	7,988.03	200.00	137.00	-196.82	0.00	0.00	0.00
8,100.00	0.00	0.00	8,088.03	200.00	137.00	-196.82	0.00	0.00	0.00
8,200.00	0.00	0.00	8,188.03	200.00	137.00	-196.82	0.00	0.00	0.00
8,300.00	0.00	0.00	8,288.03	200.00	137.00	-196.82	0.00	0.00	0.00
8,400.00	0.00	0.00	8,388.03	200.00	137.00	-196.82	0.00	0.00	0.00
8,500.00	0.00	0.00	8,488.03	200.00	137.00	-196.82	0.00	0.00	0.00
8,600.00	0.00	0.00	8,588.03	200.00	137.00	-196.82	0.00	0.00	0.00
8,700.00	0.00	0.00	8,688.03	200.00	137.00	-196.82	0.00	0.00	0.00
8,800.00	0.00	0.00	8,788.03	200.00	137.00	-196.82	0.00	0.00	0.00
8,900.00	0.00	0.00	8,888.03	200.00	137.00	-196.82	0.00	0.00	0.00
9,000.00	0.00	0.00	8,988.03	200.00	137.00	-196.82	0.00	0.00	0.00
9,100.00	0.00	0.00	9,088.03	200.00	137.00	-196.82	0.00	0.00	0.00
9,200.00	0.00	0.00	9,188.03	200.00	137.00	-196.82	0.00	0.00	0.00
9,300.00	0.00	0.00	9,288.03	200.00	137.00	-196.82	0.00	0.00	0.00
9,400.00	0.00	0.00	9,388.03	200.00	137.00	-196.82	0.00	0.00	0.00
9,500.00	0.00	0.00	9,488.03	200.00	137.00	-196.82	0.00	0.00	0.00
9,600.00	0.00	0.00	9,588.03	200.00	137.00	-196.82	0.00	0.00	0.00
9,700.00	0.00	0.00	9,688.03	200.00	137.00	-196.82	0.00	0.00	0.00
9,800.00	0.00	0.00	9,788.03	200.00	137.00	-196.82	0.00	0.00	0.00
9,900.00	0.00	0.00	9,888.03	200.00	137.00	-196.82	0.00	0.00	0.00



Total Directional Services

Planning Report



Database: EDM 5000.15 Single User Db
Company: Franklin Mountain Energy
Project: Lea County, NM (NAD83)
Site: LHS Wildcat Fed Com
Well: LHS Wildcat Fed Com 705H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well LHS Wildcat Fed Com 705H
 3031.9' GE + 21' KB @ 3052.90usft
 3031.9' GE + 21' KB @ 3052.90usft
 Grid
 Minimum Curvature

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	9,988.03	200.00	137.00	-196.82	0.00	0.00	0.00
10,100.00	0.00	0.00	10,088.03	200.00	137.00	-196.82	0.00	0.00	0.00
10,200.00	0.00	0.00	10,188.03	200.00	137.00	-196.82	0.00	0.00	0.00
10,300.00	0.00	0.00	10,288.03	200.00	137.00	-196.82	0.00	0.00	0.00
10,400.00	0.00	0.00	10,388.03	200.00	137.00	-196.82	0.00	0.00	0.00
10,500.00	0.00	0.00	10,488.03	200.00	137.00	-196.82	0.00	0.00	0.00
10,600.00	0.00	0.00	10,588.03	200.00	137.00	-196.82	0.00	0.00	0.00
10,700.00	0.00	0.00	10,688.03	200.00	137.00	-196.82	0.00	0.00	0.00
10,800.00	0.00	0.00	10,788.03	200.00	137.00	-196.82	0.00	0.00	0.00
10,900.00	0.00	0.00	10,888.03	200.00	137.00	-196.82	0.00	0.00	0.00
11,000.00	0.00	0.00	10,988.03	200.00	137.00	-196.82	0.00	0.00	0.00
11,100.00	0.00	0.00	11,088.03	200.00	137.00	-196.82	0.00	0.00	0.00
11,200.00	0.00	0.00	11,188.03	200.00	137.00	-196.82	0.00	0.00	0.00
11,300.00	0.00	0.00	11,288.03	200.00	137.00	-196.82	0.00	0.00	0.00
11,400.00	0.00	0.00	11,388.03	200.00	137.00	-196.82	0.00	0.00	0.00
11,497.97	0.00	0.00	11,486.00	200.00	137.00	-196.82	0.00	0.00	0.00
Start DLS 10.00 TFO 179.44									
11,500.00	0.20	179.44	11,488.03	200.00	137.00	-196.82	10.00	10.00	0.00
11,550.00	5.20	179.44	11,537.96	197.64	137.02	-194.46	10.00	10.00	0.00
11,600.00	10.20	179.44	11,587.49	190.94	137.09	-187.76	10.00	10.00	0.00
11,650.00	15.20	179.44	11,636.26	179.95	137.20	-176.77	10.00	10.00	0.00
11,700.00	20.20	179.44	11,683.87	164.75	137.35	-161.57	10.00	10.00	0.00
11,750.00	25.20	179.44	11,729.98	145.46	137.53	-142.28	10.00	10.00	0.00
11,800.00	30.20	179.44	11,774.24	122.22	137.76	-119.05	10.00	10.00	0.00
11,850.00	35.20	179.44	11,816.30	95.22	138.03	-92.04	10.00	10.00	0.00
11,900.00	40.20	179.44	11,855.85	64.65	138.33	-61.48	10.00	10.00	0.00
11,950.00	45.20	179.44	11,892.58	30.75	138.66	-27.58	10.00	10.00	0.00
12,000.00	50.20	179.44	11,926.22	-6.22	139.02	9.39	10.00	10.00	0.00
12,050.00	55.20	179.44	11,956.50	-45.98	139.41	49.15	10.00	10.00	0.00
12,100.00	60.20	179.44	11,983.21	-88.23	139.82	91.39	10.00	10.00	0.00
12,150.00	65.20	179.44	12,006.13	-132.64	140.26	135.81	10.00	10.00	0.00
12,200.00	70.20	179.44	12,025.10	-178.89	140.71	182.05	10.00	10.00	0.00
12,250.00	75.20	179.44	12,039.96	-226.61	141.18	229.77	10.00	10.00	0.00
12,300.00	80.20	179.44	12,050.60	-275.44	141.66	278.60	10.00	10.00	0.00
12,350.00	85.20	179.44	12,056.95	-325.02	142.14	328.18	10.00	10.00	0.00
12,386.76	88.88	179.44	12,058.85	-361.72	142.50	364.88	10.00	10.00	0.00
Start 10308.36 hold at 12386.75 MD - LP (LHS Wildcat Fed Com 705H)									
12,400.00	88.88	179.44	12,059.11	-374.96	142.63	378.12	0.00	0.00	0.00
12,500.00	88.88	179.44	12,061.06	-474.94	143.61	478.09	0.00	0.00	0.00
12,600.00	88.88	179.44	12,063.02	-574.91	144.59	578.06	0.00	0.00	0.00
12,700.00	88.88	179.44	12,064.98	-674.89	145.57	678.04	0.00	0.00	0.00
12,800.00	88.88	179.44	12,066.94	-774.87	146.55	778.01	0.00	0.00	0.00
12,900.00	88.88	179.44	12,068.89	-874.84	147.53	877.98	0.00	0.00	0.00
13,000.00	88.88	179.44	12,070.85	-974.82	148.51	977.95	0.00	0.00	0.00
13,100.00	88.88	179.44	12,072.81	-1,074.79	149.48	1,077.92	0.00	0.00	0.00
13,200.00	88.88	179.44	12,074.77	-1,174.77	150.46	1,177.90	0.00	0.00	0.00
13,300.00	88.88	179.44	12,076.72	-1,274.75	151.44	1,277.87	0.00	0.00	0.00
13,400.00	88.88	179.44	12,078.68	-1,374.72	152.42	1,377.84	0.00	0.00	0.00
13,500.00	88.88	179.44	12,080.64	-1,474.70	153.40	1,477.81	0.00	0.00	0.00
13,600.00	88.88	179.44	12,082.59	-1,574.67	154.38	1,577.79	0.00	0.00	0.00
13,700.00	88.88	179.44	12,084.55	-1,674.65	155.36	1,677.76	0.00	0.00	0.00
13,800.00	88.88	179.44	12,086.51	-1,774.63	156.34	1,777.73	0.00	0.00	0.00
13,900.00	88.88	179.44	12,088.47	-1,874.60	157.32	1,877.70	0.00	0.00	0.00
14,000.00	88.88	179.44	12,090.42	-1,974.58	158.30	1,977.68	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Company:	Franklin Mountain Energy	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Project:	Lea County, NM (NAD83)	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site:	LHS Wildcat Fed Com	North Reference:	Grid
Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,100.00	88.88	179.44	12,092.38	-2,074.55	159.28	2,077.65	0.00	0.00	0.00
14,200.00	88.88	179.44	12,094.34	-2,174.53	160.25	2,177.62	0.00	0.00	0.00
14,300.00	88.88	179.44	12,096.30	-2,274.51	161.23	2,277.59	0.00	0.00	0.00
14,400.00	88.88	179.44	12,098.25	-2,374.48	162.21	2,377.57	0.00	0.00	0.00
14,500.00	88.88	179.44	12,100.21	-2,474.46	163.19	2,477.54	0.00	0.00	0.00
14,600.00	88.88	179.44	12,102.17	-2,574.43	164.17	2,577.51	0.00	0.00	0.00
14,700.00	88.88	179.44	12,104.12	-2,674.41	165.15	2,677.48	0.00	0.00	0.00
14,800.00	88.88	179.44	12,106.08	-2,774.39	166.13	2,777.45	0.00	0.00	0.00
14,900.00	88.88	179.44	12,108.04	-2,874.36	167.11	2,877.43	0.00	0.00	0.00
15,000.00	88.88	179.44	12,110.00	-2,974.34	168.09	2,977.40	0.00	0.00	0.00
15,100.00	88.88	179.44	12,111.95	-3,074.31	169.07	3,077.37	0.00	0.00	0.00
15,200.00	88.88	179.44	12,113.91	-3,174.29	170.05	3,177.34	0.00	0.00	0.00
15,300.00	88.88	179.44	12,115.87	-3,274.27	171.02	3,277.32	0.00	0.00	0.00
15,400.00	88.88	179.44	12,117.83	-3,374.24	172.00	3,377.29	0.00	0.00	0.00
15,500.00	88.88	179.44	12,119.78	-3,474.22	172.98	3,477.26	0.00	0.00	0.00
15,600.00	88.88	179.44	12,121.74	-3,574.20	173.96	3,577.23	0.00	0.00	0.00
15,700.00	88.88	179.44	12,123.70	-3,674.17	174.94	3,677.21	0.00	0.00	0.00
15,800.00	88.88	179.44	12,125.65	-3,774.15	175.92	3,777.18	0.00	0.00	0.00
15,900.00	88.88	179.44	12,127.61	-3,874.12	176.90	3,877.15	0.00	0.00	0.00
16,000.00	88.88	179.44	12,129.57	-3,974.10	177.88	3,977.12	0.00	0.00	0.00
16,100.00	88.88	179.44	12,131.53	-4,074.08	178.86	4,077.10	0.00	0.00	0.00
16,200.00	88.88	179.44	12,133.48	-4,174.05	179.84	4,177.07	0.00	0.00	0.00
16,300.00	88.88	179.44	12,135.44	-4,274.03	180.82	4,277.04	0.00	0.00	0.00
16,400.00	88.88	179.44	12,137.40	-4,374.00	181.79	4,377.01	0.00	0.00	0.00
16,500.00	88.88	179.44	12,139.36	-4,473.98	182.77	4,476.99	0.00	0.00	0.00
16,600.00	88.88	179.44	12,141.31	-4,573.96	183.75	4,576.96	0.00	0.00	0.00
16,700.00	88.88	179.44	12,143.27	-4,673.93	184.73	4,676.93	0.00	0.00	0.00
16,800.00	88.88	179.44	12,145.23	-4,773.91	185.71	4,776.90	0.00	0.00	0.00
16,900.00	88.88	179.44	12,147.18	-4,873.88	186.69	4,876.87	0.00	0.00	0.00
17,000.00	88.88	179.44	12,149.14	-4,973.86	187.67	4,976.85	0.00	0.00	0.00
17,100.00	88.88	179.44	12,151.10	-5,073.84	188.65	5,076.82	0.00	0.00	0.00
17,200.00	88.88	179.44	12,153.06	-5,173.81	189.63	5,176.79	0.00	0.00	0.00
17,300.00	88.88	179.44	12,155.01	-5,273.79	190.61	5,276.76	0.00	0.00	0.00
17,400.00	88.88	179.44	12,156.97	-5,373.76	191.59	5,376.74	0.00	0.00	0.00
17,500.00	88.88	179.44	12,158.93	-5,473.74	192.56	5,476.71	0.00	0.00	0.00
17,600.00	88.88	179.44	12,160.89	-5,573.72	193.54	5,576.68	0.00	0.00	0.00
17,700.00	88.88	179.44	12,162.84	-5,673.69	194.52	5,676.65	0.00	0.00	0.00
17,800.00	88.88	179.44	12,164.80	-5,773.67	195.50	5,776.63	0.00	0.00	0.00
17,900.00	88.88	179.44	12,166.76	-5,873.64	196.48	5,876.60	0.00	0.00	0.00
18,000.00	88.88	179.44	12,168.71	-5,973.62	197.46	5,976.57	0.00	0.00	0.00
18,100.00	88.88	179.44	12,170.67	-6,073.60	198.44	6,076.54	0.00	0.00	0.00
18,200.00	88.88	179.44	12,172.63	-6,173.57	199.42	6,176.52	0.00	0.00	0.00
18,300.00	88.88	179.44	12,174.59	-6,273.55	200.40	6,276.49	0.00	0.00	0.00
18,400.00	88.88	179.44	12,176.54	-6,373.52	201.38	6,376.46	0.00	0.00	0.00
18,500.00	88.88	179.44	12,178.50	-6,473.50	202.36	6,476.43	0.00	0.00	0.00
18,600.00	88.88	179.44	12,180.46	-6,573.48	203.33	6,576.40	0.00	0.00	0.00
18,700.00	88.88	179.44	12,182.42	-6,673.45	204.31	6,676.38	0.00	0.00	0.00
18,800.00	88.88	179.44	12,184.37	-6,773.43	205.29	6,776.35	0.00	0.00	0.00
18,900.00	88.88	179.44	12,186.33	-6,873.40	206.27	6,876.32	0.00	0.00	0.00
19,000.00	88.88	179.44	12,188.29	-6,973.38	207.25	6,976.29	0.00	0.00	0.00
19,100.00	88.88	179.44	12,190.24	-7,073.36	208.23	7,076.27	0.00	0.00	0.00
19,200.00	88.88	179.44	12,192.20	-7,173.33	209.21	7,176.24	0.00	0.00	0.00
19,300.00	88.88	179.44	12,194.16	-7,273.31	210.19	7,276.21	0.00	0.00	0.00
19,400.00	88.88	179.44	12,196.12	-7,373.29	211.17	7,376.18	0.00	0.00	0.00

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Company:	Franklin Mountain Energy	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Project:	Lea County, NM (NAD83)	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site:	LHS Wildcat Fed Com	North Reference:	Grid
Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)	
19,500.00	88.88	179.44	12,198.07	-7,473.26	212.15	7,476.16	0.00	0.00	0.00	
19,600.00	88.88	179.44	12,200.03	-7,573.24	213.13	7,576.13	0.00	0.00	0.00	
19,700.00	88.88	179.44	12,201.99	-7,673.21	214.10	7,676.10	0.00	0.00	0.00	
19,800.00	88.88	179.44	12,203.95	-7,773.19	215.08	7,776.07	0.00	0.00	0.00	
19,900.00	88.88	179.44	12,205.90	-7,873.17	216.06	7,876.05	0.00	0.00	0.00	
20,000.00	88.88	179.44	12,207.86	-7,973.14	217.04	7,976.02	0.00	0.00	0.00	
20,100.00	88.88	179.44	12,209.82	-8,073.12	218.02	8,075.99	0.00	0.00	0.00	
20,200.00	88.88	179.44	12,211.77	-8,173.09	219.00	8,175.96	0.00	0.00	0.00	
20,300.00	88.88	179.44	12,213.73	-8,273.07	219.98	8,275.94	0.00	0.00	0.00	
20,400.00	88.88	179.44	12,215.69	-8,373.05	220.96	8,375.91	0.00	0.00	0.00	
20,500.00	88.88	179.44	12,217.65	-8,473.02	221.94	8,475.88	0.00	0.00	0.00	
20,600.00	88.88	179.44	12,219.60	-8,573.00	222.92	8,575.85	0.00	0.00	0.00	
20,700.00	88.88	179.44	12,221.56	-8,672.97	223.90	8,675.82	0.00	0.00	0.00	
20,800.00	88.88	179.44	12,223.52	-8,772.95	224.87	8,775.80	0.00	0.00	0.00	
20,900.00	88.88	179.44	12,225.48	-8,872.93	225.85	8,875.77	0.00	0.00	0.00	
21,000.00	88.88	179.44	12,227.43	-8,972.90	226.83	8,975.74	0.00	0.00	0.00	
21,100.00	88.88	179.44	12,229.39	-9,072.88	227.81	9,075.71	0.00	0.00	0.00	
21,200.00	88.88	179.44	12,231.35	-9,172.85	228.79	9,175.69	0.00	0.00	0.00	
21,300.00	88.88	179.44	12,233.30	-9,272.83	229.77	9,275.66	0.00	0.00	0.00	
21,400.00	88.88	179.44	12,235.26	-9,372.81	230.75	9,375.63	0.00	0.00	0.00	
21,500.00	88.88	179.44	12,237.22	-9,472.78	231.73	9,475.60	0.00	0.00	0.00	
21,600.00	88.88	179.44	12,239.18	-9,572.76	232.71	9,575.58	0.00	0.00	0.00	
21,700.00	88.88	179.44	12,241.13	-9,672.73	233.69	9,675.55	0.00	0.00	0.00	
21,800.00	88.88	179.44	12,243.09	-9,772.71	234.67	9,775.52	0.00	0.00	0.00	
21,900.00	88.88	179.44	12,245.05	-9,872.69	235.65	9,875.49	0.00	0.00	0.00	
22,000.00	88.88	179.44	12,247.01	-9,972.66	236.62	9,975.47	0.00	0.00	0.00	
22,100.00	88.88	179.44	12,248.96	-10,072.64	237.60	10,075.44	0.00	0.00	0.00	
22,200.00	88.88	179.44	12,250.92	-10,172.61	238.58	10,175.41	0.00	0.00	0.00	
22,300.00	88.88	179.44	12,252.88	-10,272.59	239.56	10,275.38	0.00	0.00	0.00	
22,400.00	88.88	179.44	12,254.83	-10,372.57	240.54	10,375.35	0.00	0.00	0.00	
22,500.00	88.88	179.44	12,256.79	-10,472.54	241.52	10,475.33	0.00	0.00	0.00	
22,600.00	88.88	179.44	12,258.75	-10,572.52	242.50	10,575.30	0.00	0.00	0.00	
22,695.11	88.88	179.44	12,260.61	-10,667.61	243.43	10,670.39	0.00	0.00	0.00	
TD at 22695.11 - PBHL (LHS Wildcat Fed Com 705H)										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL (LHS Wildcat Fed C - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	394,426.41	856,958.28	32.080260	-103.314298
LP (LHS Wildcat Fed Cc - plan hits target center - Point	0.00	0.00	12,058.85	-361.72	142.50	394,064.69	857,100.78	32.079262	-103.313849
PBHL (LHS Wildcat Fed - plan hits target center - Point	0.00	0.00	12,260.61	-10,667.61	243.43	383,758.80	857,201.71	32.050933	-103.313837



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Company:	Franklin Mountain Energy	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Project:	Lea County, NM (NAD83)	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site:	LHS Wildcat Fed Com	North Reference:	Grid
Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,500.00	4,500.00	0.00	0.00	Start Build 1.50
4,899.76	4,899.04	17.24	11.81	Start 1920.44 hold at 4899.76 MD
6,820.20	6,808.96	182.76	125.19	Start Drop -1.50
7,219.97	7,208.00	200.00	137.00	Start 4278.00 hold at 7219.97 MD
11,497.97	11,486.00	200.00	137.00	Start DLS 10.00 TFO 179.44
12,386.75	12,058.85	-361.72	142.50	Start 10308.36 hold at 12386.75 MD
22,695.11	12,260.61	-10,667.61	243.43	TD at 22695.11



Franklin Mountain Energy

Lea County, NM (NAD83)
LHS Wildcat Fed Com
LHS Wildcat Fed Com 705H

OH
Plan #2

Anticollision Report

25 February, 2020





Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum ellipse separation of 1,000.00 usft	Error Surface:	Combined Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date 2/25/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	22,695.11	Plan #2 (OH)	OWSG (Rev2) MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Bus Driver/Kasten Fed Com						
Bus Driver Fed Com 602H - OH - Plan #2	4,500.00	4,525.60	2,389.22	2,366.65	105.852	CC, ES
Bus Driver Fed Com 602H - OH - Plan #2	22,695.11	22,577.39	2,785.97	2,528.98	10.841	SF
Bus Driver Fed Com 702H - OH - Plan #2	4,500.00	4,525.80	2,424.20	2,401.63	107.400	CC, ES
Bus Driver Fed Com 702H - OH - Plan #2	22,695.11	22,795.19	3,236.41	2,978.57	12.552	SF
Kasten Fed Com 603H - OH - Plan #2	11,503.17	11,578.91	1,669.43	1,611.47	28.807	CC
Kasten Fed Com 603H - OH - Plan #2	22,695.11	22,580.41	1,687.81	1,432.70	6.616	ES, SF
Kasten Fed Com 703H - OH - Plan #2	11,497.97	11,531.41	2,238.26	2,180.30	38.621	CC
Kasten Fed Com 703H - OH - Plan #2	22,695.11	22,869.31	2,248.47	1,990.58	8.719	ES, SF
Judge Baylor Fed Com						
Judge Baylor Fed Com 601H - OH - Plan #2	4,500.00	4,538.10	4,309.86	4,287.25	190.676	CC, ES
Judge Baylor Fed Com 601H - OH - Plan #2	22,695.11	22,572.67	4,592.64	4,335.85	17.885	SF
Judge Baylor Fed Com 701H - OH - Plan #2	11,497.97	11,534.25	4,263.87	4,205.85	73.494	CC
Judge Baylor Fed Com 701H - OH - Plan #2	22,695.11	22,861.90	4,276.16	4,018.95	16.625	ES, SF
LHS Wildcat Fed Com						
LHS Wildcat Fed Com 604H - OH - Plan #2	4,500.00	4,499.60	35.00	12.50	1.555	CC, ES
LHS Wildcat Fed Com 604H - OH - Plan #2	4,600.00	4,599.59	35.77	12.76	1.554	SF

Offset Design												
Bus Driver/Kasten Fed Com - Bus Driver Fed Com 602H - OH - Plan #2												
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
0.00	0.00	25.60	25.60	0.00	0.04	-89.05	39.67	-2,388.89	2,389.22			
100.00	100.00	125.60	125.60	0.14	0.23	-89.05	39.67	-2,388.89	2,389.22	2,388.95	0.27	8,752.902
200.00	200.00	225.60	225.60	0.50	0.59	-89.05	39.67	-2,388.89	2,389.22	2,388.44	0.77	3,083.599
300.00	300.00	325.60	325.60	0.86	0.95	-89.05	39.67	-2,388.89	2,389.22	2,387.94	1.28	1,865.567
400.00	400.00	425.60	425.60	1.22	1.31	-89.05	39.67	-2,388.89	2,389.22	2,387.43	1.79	1,336.864
500.00	500.00	525.60	525.60	1.58	1.67	-89.05	39.67	-2,388.89	2,389.22	2,386.93	2.29	1,041.564
600.00	600.00	625.60	625.60	1.93	2.03	-89.05	39.67	-2,388.89	2,389.22	2,386.42	2.80	853.090
700.00	700.00	725.60	725.60	2.29	2.38	-89.05	39.67	-2,388.89	2,389.22	2,385.91	3.31	722.363
800.00	800.00	825.60	825.60	2.65	2.74	-89.05	39.67	-2,388.89	2,389.22	2,385.41	3.81	626.372
900.00	900.00	925.60	925.60	3.01	3.10	-89.05	39.67	-2,388.89	2,389.22	2,384.90	4.32	552.898
1,000.00	1,000.00	1,025.60	1,025.60	3.37	3.46	-89.05	39.67	-2,388.89	2,389.22	2,384.39	4.83	494.850

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	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		
1,100.00	1,100.00	1,125.60	1,125.60	3.73	3.82	-89.05	39.67	-2,388.89	2,389.22	2,383.88	5.34	447.832		
1,200.00	1,200.00	1,225.60	1,225.60	4.08	4.18	-89.05	39.67	-2,388.89	2,389.22	2,383.38	5.84	408.972		
1,300.00	1,300.00	1,325.60	1,325.60	4.44	4.54	-89.05	39.67	-2,388.89	2,389.22	2,382.87	6.35	376.318		
1,400.00	1,400.00	1,425.60	1,425.60	4.80	4.89	-89.05	39.67	-2,388.89	2,389.22	2,382.36	6.86	348.493		
1,500.00	1,500.00	1,525.60	1,525.60	5.16	5.25	-89.05	39.67	-2,388.89	2,389.22	2,381.86	7.36	324.499		
1,600.00	1,600.00	1,625.60	1,625.60	5.52	5.61	-89.05	39.67	-2,388.89	2,389.22	2,381.35	7.87	303.596		
1,700.00	1,700.00	1,725.60	1,725.60	5.88	5.97	-89.05	39.67	-2,388.89	2,389.22	2,380.84	8.38	285.223		
1,800.00	1,800.00	1,825.60	1,825.60	6.24	6.33	-89.05	39.67	-2,388.89	2,389.22	2,380.34	8.88	268.947		
1,900.00	1,900.00	1,925.60	1,925.60	6.59	6.69	-89.05	39.67	-2,388.89	2,389.22	2,379.83	9.39	254.428		
2,000.00	2,000.00	2,025.60	2,025.60	6.95	7.04	-89.05	39.67	-2,388.89	2,389.22	2,379.32	9.90	241.396		
2,100.00	2,100.00	2,125.60	2,125.60	7.31	7.40	-89.05	39.67	-2,388.89	2,389.22	2,378.81	10.40	229.634		
2,200.00	2,200.00	2,225.60	2,225.60	7.67	7.76	-89.05	39.67	-2,388.89	2,389.22	2,378.31	10.91	218.966		
2,300.00	2,300.00	2,325.60	2,325.60	8.03	8.12	-89.05	39.67	-2,388.89	2,389.22	2,377.80	11.42	209.244		
2,400.00	2,400.00	2,425.60	2,425.60	8.39	8.48	-89.05	39.67	-2,388.89	2,389.22	2,377.29	11.93	200.349		
2,500.00	2,500.00	2,525.60	2,525.60	8.74	8.84	-89.05	39.67	-2,388.89	2,389.22	2,376.79	12.43	192.179		
2,600.00	2,600.00	2,625.60	2,625.60	9.10	9.20	-89.05	39.67	-2,388.89	2,389.22	2,376.28	12.94	184.650		
2,700.00	2,700.00	2,725.60	2,725.60	9.46	9.55	-89.05	39.67	-2,388.89	2,389.22	2,375.77	13.45	177.688		
2,800.00	2,800.00	2,825.60	2,825.60	9.82	9.91	-89.05	39.67	-2,388.89	2,389.22	2,375.27	13.95	171.232		
2,900.00	2,900.00	2,925.60	2,925.60	10.18	10.27	-89.05	39.67	-2,388.89	2,389.22	2,374.76	14.46	165.229		
3,000.00	3,000.00	3,025.60	3,025.60	10.54	10.63	-89.05	39.67	-2,388.89	2,389.22	2,374.25	14.97	159.633		
3,100.00	3,100.00	3,125.60	3,125.60	10.90	10.99	-89.05	39.67	-2,388.89	2,389.22	2,373.75	15.47	154.403		
3,200.00	3,200.00	3,225.60	3,225.60	11.25	11.35	-89.05	39.67	-2,388.89	2,389.22	2,373.24	15.98	149.505		
3,300.00	3,300.00	3,325.60	3,325.60	11.61	11.70	-89.05	39.67	-2,388.89	2,389.22	2,372.73	16.49	144.908		
3,400.00	3,400.00	3,425.60	3,425.60	11.97	12.06	-89.05	39.67	-2,388.89	2,389.22	2,372.22	16.99	140.585		
3,500.00	3,500.00	3,525.60	3,525.60	12.33	12.42	-89.05	39.67	-2,388.89	2,389.22	2,371.72	17.50	136.513		
3,600.00	3,600.00	3,625.60	3,625.60	12.69	12.78	-89.05	39.67	-2,388.89	2,389.22	2,371.21	18.01	132.670		
3,700.00	3,700.00	3,725.60	3,725.60	13.05	13.14	-89.05	39.67	-2,388.89	2,389.22	2,370.70	18.52	129.038		
3,800.00	3,800.00	3,825.60	3,825.60	13.41	13.50	-89.05	39.67	-2,388.89	2,389.22	2,370.20	19.02	125.599		
3,900.00	3,900.00	3,925.60	3,925.60	13.76	13.86	-89.05	39.67	-2,388.89	2,389.22	2,369.69	19.53	122.339		
4,000.00	4,000.00	4,025.60	4,025.60	14.12	14.21	-89.05	39.67	-2,388.89	2,389.22	2,369.18	20.04	119.243		
4,100.00	4,100.00	4,125.60	4,125.60	14.48	14.57	-89.05	39.67	-2,388.89	2,389.22	2,368.68	20.54	116.301		
4,200.00	4,200.00	4,225.60	4,225.60	14.84	14.93	-89.05	39.67	-2,388.89	2,389.22	2,368.17	21.05	113.500		
4,300.00	4,300.00	4,325.60	4,325.60	15.20	15.29	-89.05	39.67	-2,388.89	2,389.22	2,367.66	21.56	110.831		
4,400.00	4,400.00	4,425.60	4,425.60	15.56	15.65	-89.05	39.67	-2,388.89	2,389.22	2,367.16	22.06	108.284		
4,500.00	4,500.00	4,525.60	4,525.60	15.91	16.01	-89.05	39.67	-2,388.89	2,389.22	2,366.65	22.57	105.852 CC, ES		
4,600.00	4,599.99	4,600.00	4,600.00	16.27	16.27	-123.46	39.88	-2,389.14	2,390.33	2,367.32	23.01	103.884		
4,700.00	4,699.91	4,668.12	4,668.10	16.63	16.51	-123.44	40.84	-2,390.29	2,394.21	2,370.79	23.43	102.207		
4,800.00	4,799.69	4,735.21	4,735.14	16.98	16.75	-123.40	42.56	-2,392.33	2,400.90	2,377.07	23.83	100.735		
4,899.76	4,899.04	4,800.00	4,799.82	17.34	16.98	-123.35	44.93	-2,395.15	2,410.36	2,386.12	24.23	99.472		
5,000.00	4,998.72	4,868.74	4,868.37	17.69	17.22	-123.41	48.22	-2,399.07	2,421.92	2,397.29	24.64	98.301		
5,100.00	5,098.18	4,960.91	4,960.19	18.05	17.55	-123.48	53.37	-2,405.19	2,434.40	2,409.28	25.11	96.937		
5,200.00	5,197.63	5,060.07	5,058.98	18.41	17.90	-123.56	58.92	-2,411.80	2,446.91	2,421.29	25.61	95.542		
5,300.00	5,297.08	5,159.24	5,157.77	18.77	18.25	-123.63	64.48	-2,418.41	2,459.42	2,433.31	26.11	94.196		
5,400.00	5,396.53	5,258.40	5,256.55	19.13	18.61	-123.71	70.03	-2,425.02	2,471.93	2,445.32	26.61	92.896		
5,500.00	5,495.99	5,357.57	5,355.34	19.50	18.96	-123.78	75.59	-2,431.63	2,484.46	2,457.34	27.11	91.640		
5,600.00	5,595.44	5,456.73	5,454.13	19.86	19.32	-123.85	81.14	-2,438.24	2,496.98	2,469.37	27.61	90.427		
5,700.00	5,694.89	5,555.89	5,552.92	20.22	19.68	-123.92	86.70	-2,444.85	2,509.51	2,481.39	28.12	89.254		
5,800.00	5,794.34	5,655.06	5,651.70	20.59	20.04	-123.99	92.25	-2,451.46	2,522.04	2,493.42	28.62	88.119		
5,900.00	5,893.80	5,754.22	5,750.49	20.96	20.39	-124.06	97.81	-2,458.07	2,534.57	2,505.45	29.13	87.021		
6,000.00	5,993.25	5,853.39	5,849.28	21.33	20.75	-124.13	103.36	-2,464.68	2,547.11	2,517.48	29.63	85.959		
6,100.00	6,092.70	5,952.55	5,948.07	21.69	21.11	-124.20	108.92	-2,471.29	2,559.66	2,529.52	30.14	84.930		
6,200.00	6,192.16	6,051.72	6,046.86	22.06	21.48	-124.27	114.47	-2,477.90	2,572.20	2,541.56	30.65	83.932		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	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		
6,300.00	6,291.61	6,150.88	6,145.64	22.43	21.84	-124.33	120.03	-2,484.51	2,584.75	2,553.60	31.15	82.966		
6,400.00	6,391.06	6,250.05	6,244.43	22.80	22.20	-124.40	125.58	-2,491.12	2,597.31	2,565.64	31.66	82.029		
6,500.00	6,490.51	6,349.21	6,343.22	23.18	22.56	-124.46	131.14	-2,497.73	2,609.86	2,577.69	32.17	81.119		
6,600.00	6,589.97	6,448.37	6,442.01	23.55	22.93	-124.53	136.69	-2,504.34	2,622.42	2,589.74	32.68	80.237		
6,700.00	6,689.42	6,547.54	6,540.79	23.92	23.29	-124.59	142.25	-2,510.95	2,634.99	2,601.79	33.19	79.381		
6,800.00	6,788.87	6,646.70	6,639.58	24.30	23.65	-124.66	147.80	-2,517.56	2,647.55	2,613.85	33.71	78.549		
6,820.20	6,808.96	6,666.74	6,659.54	24.37	23.73	-124.67	148.92	-2,518.90	2,650.09	2,616.28	33.81	78.384		
6,900.00	6,888.41	6,745.94	6,738.44	24.67	24.02	-124.82	153.36	-2,524.18	2,659.65	2,625.43	34.22	77.729		
7,000.00	6,988.15	6,845.37	6,837.49	25.04	24.39	-124.96	158.93	-2,530.81	2,670.29	2,635.57	34.73	76.893		
7,100.00	7,088.05	6,944.93	6,936.67	25.40	24.75	-125.03	164.51	-2,537.44	2,679.45	2,644.21	35.24	76.043		
7,200.00	7,188.03	7,044.54	7,035.91	25.75	25.12	-125.03	170.09	-2,544.08	2,687.11	2,651.36	35.74	75.181		
7,219.97	7,208.00	7,064.43	7,055.73	25.83	25.19	-90.62	171.20	-2,545.41	2,688.46	2,652.61	35.84	75.007		
7,300.00	7,288.03	7,144.16	7,135.15	26.11	25.49	-90.52	175.67	-2,550.73	2,693.76	2,657.51	36.25	74.316		
7,400.00	7,388.03	7,243.78	7,234.40	26.46	25.86	-90.40	181.25	-2,557.37	2,700.39	2,663.63	36.75	73.475		
7,500.00	7,488.03	7,343.40	7,333.64	26.82	26.23	-90.28	186.83	-2,564.01	2,707.03	2,669.77	37.26	72.656		
7,600.00	7,588.03	7,443.02	7,432.88	27.17	26.60	-90.16	192.41	-2,570.65	2,713.68	2,675.92	37.76	71.859		
7,700.00	7,688.03	7,542.64	7,532.12	27.53	26.97	-90.04	197.99	-2,577.29	2,720.35	2,682.08	38.27	71.083		
7,800.00	7,788.03	7,642.26	7,631.36	27.88	27.34	-89.92	203.57	-2,583.93	2,727.03	2,688.25	38.78	70.327		
7,900.00	7,888.03	7,741.88	7,730.60	28.24	27.71	-89.81	209.15	-2,590.57	2,733.72	2,694.44	39.28	69.590		
8,000.00	7,988.03	7,841.50	7,829.85	28.59	28.08	-89.69	214.73	-2,597.21	2,740.42	2,700.63	39.79	68.873		
8,100.00	8,088.03	7,941.12	7,929.09	28.95	28.45	-89.58	220.31	-2,603.85	2,747.13	2,706.84	40.30	68.173		
8,200.00	8,188.03	8,040.75	8,028.33	29.30	28.82	-89.46	225.89	-2,610.49	2,753.86	2,713.05	40.80	67.491		
8,300.00	8,288.03	8,166.06	8,153.20	29.66	29.28	-89.32	232.73	-2,618.64	2,760.50	2,719.10	41.39	66.691		
8,400.00	8,388.03	8,393.13	8,380.00	30.01	30.11	-89.18	239.37	-2,626.53	2,764.01	2,721.75	42.26	65.400		
8,500.00	8,488.03	8,526.77	8,513.63	30.37	30.58	-89.18	239.67	-2,626.89	2,764.17	2,721.32	42.85	64.508		
8,600.00	8,588.03	8,626.77	8,613.63	30.72	30.93	-89.18	239.67	-2,626.89	2,764.17	2,720.82	43.35	63.760		
8,700.00	8,688.03	8,726.77	8,713.63	31.08	31.29	-89.18	239.67	-2,626.89	2,764.17	2,720.32	43.86	63.030		
8,800.00	8,788.03	8,826.77	8,813.63	31.43	31.64	-89.18	239.67	-2,626.89	2,764.17	2,719.82	44.36	62.316		
8,900.00	8,888.03	8,926.77	8,913.63	31.79	31.99	-89.18	239.67	-2,626.89	2,764.17	2,719.31	44.86	61.617		
9,000.00	8,988.03	9,026.77	9,013.63	32.14	32.34	-89.18	239.67	-2,626.89	2,764.17	2,718.81	45.36	60.935		
9,100.00	9,088.03	9,126.77	9,113.63	32.50	32.70	-89.18	239.67	-2,626.89	2,764.17	2,718.31	45.87	60.267		
9,200.00	9,188.03	9,226.77	9,213.63	32.86	33.05	-89.18	239.67	-2,626.89	2,764.17	2,717.81	46.37	59.613		
9,300.00	9,288.03	9,326.77	9,313.63	33.21	33.41	-89.18	239.67	-2,626.89	2,764.17	2,717.30	46.87	58.973		
9,400.00	9,388.03	9,426.77	9,413.63	33.57	33.76	-89.18	239.67	-2,626.89	2,764.17	2,716.80	47.37	58.347		
9,500.00	9,488.03	9,526.77	9,513.63	33.92	34.11	-89.18	239.67	-2,626.89	2,764.17	2,716.30	47.88	57.734		
9,600.00	9,588.03	9,626.77	9,613.63	34.28	34.47	-89.18	239.67	-2,626.89	2,764.17	2,715.79	48.38	57.133		
9,700.00	9,688.03	9,726.77	9,713.63	34.63	34.82	-89.18	239.67	-2,626.89	2,764.17	2,715.29	48.88	56.545		
9,800.00	9,788.03	9,826.77	9,813.63	34.99	35.17	-89.18	239.67	-2,626.89	2,764.17	2,714.79	49.39	55.969		
9,900.00	9,888.03	9,926.77	9,913.63	35.35	35.53	-89.18	239.67	-2,626.89	2,764.17	2,714.28	49.89	55.404		
10,000.00	9,988.03	10,026.77	10,013.63	35.70	35.88	-89.18	239.67	-2,626.89	2,764.17	2,713.78	50.40	54.850		
10,100.00	10,088.03	10,126.77	10,113.63	36.06	36.24	-89.18	239.67	-2,626.89	2,764.17	2,713.28	50.90	54.307		
10,200.00	10,188.03	10,226.77	10,213.63	36.42	36.59	-89.18	239.67	-2,626.89	2,764.17	2,712.77	51.40	53.775		
10,300.00	10,288.03	10,326.77	10,313.63	36.77	36.95	-89.18	239.67	-2,626.89	2,764.17	2,712.27	51.91	53.253		
10,400.00	10,388.03	10,426.77	10,413.63	37.13	37.30	-89.18	239.67	-2,626.89	2,764.17	2,711.76	52.41	52.742		
10,500.00	10,488.03	10,526.77	10,513.63	37.48	37.66	-89.18	239.67	-2,626.89	2,764.17	2,711.26	52.91	52.239		
10,600.00	10,588.03	10,626.77	10,613.63	37.84	38.01	-89.18	239.67	-2,626.89	2,764.17	2,710.76	53.42	51.746		
10,700.00	10,688.03	10,726.77	10,713.63	38.20	38.37	-89.18	239.67	-2,626.89	2,764.17	2,710.25	53.92	51.263		
10,800.00	10,788.03	10,826.77	10,813.63	38.55	38.72	-89.18	239.67	-2,626.89	2,764.17	2,709.75	54.43	50.788		
10,900.00	10,888.03	10,926.77	10,913.63	38.91	39.07	-89.18	239.67	-2,626.89	2,764.17	2,709.25	54.93	50.322		
11,000.00	10,988.03	11,026.77	11,013.63	39.27	39.43	-89.18	239.67	-2,626.89	2,764.17	2,708.74	55.43	49.864		
11,100.00	11,088.03	11,126.77	11,113.63	39.62	39.78	-89.18	239.67	-2,626.89	2,764.17	2,708.24	55.94	49.415		
11,200.00	11,188.03	11,226.77	11,213.63	39.98	40.14	-89.18	239.67	-2,626.89	2,764.17	2,707.73	56.44	48.973		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kasten Fed Com - Bus Driver Fed Com 602H - OH - Plan #2		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						
11,300.00	11,288.03	11,328.48	11,315.34	40.34	40.50	-89.18	239.46	-2,626.89	2,764.17	2,707.22	56.95	48.538						
11,400.00	11,388.03	11,438.96	11,424.81	40.69	40.84	-89.46	225.91	-2,626.77	2,763.91	2,706.47	57.44	48.116						
11,497.97	11,486.00	11,538.83	11,519.90	41.04	41.12	-90.09	195.79	-2,626.51	2,763.52	2,705.64	57.89	47.740						
11,500.00	11,488.03	11,540.78	11,521.70	41.05	41.12	90.46	195.04	-2,626.50	2,763.52	2,705.62	57.90	47.733						
11,550.00	11,537.96	11,587.93	11,564.38	41.21	41.24	90.09	175.03	-2,626.32	2,763.44	2,705.35	58.09	47.569						
11,552.76	11,540.71	11,590.49	11,566.65	41.22	41.24	90.07	173.84	-2,626.31	2,763.44	2,705.34	58.10	47.560						
11,600.00	11,587.49	11,633.66	11,604.06	41.36	41.34	89.73	152.33	-2,626.13	2,763.50	2,705.22	58.28	47.417						
11,650.00	11,636.26	11,678.12	11,640.80	41.51	41.43	89.37	127.30	-2,625.91	2,763.68	2,705.23	58.46	47.276						
11,700.00	11,683.87	11,721.45	11,674.62	41.65	41.52	89.02	100.24	-2,625.67	2,763.99	2,705.36	58.63	47.147						
11,750.00	11,729.98	11,763.78	11,705.60	41.78	41.59	88.68	71.40	-2,625.42	2,764.40	2,705.61	58.78	47.027						
11,800.00	11,774.24	11,805.22	11,733.78	41.90	41.65	88.34	41.04	-2,625.15	2,764.90	2,705.96	58.93	46.916						
11,850.00	11,816.30	11,845.87	11,759.22	42.01	41.70	88.02	9.35	-2,624.87	2,765.47	2,706.40	59.08	46.813						
11,900.00	11,855.85	11,885.81	11,781.98	42.11	41.74	87.70	-23.47	-2,624.59	2,766.11	2,706.89	59.21	46.715						
11,950.00	11,892.58	11,925.14	11,802.09	42.20	41.80	87.40	-57.25	-2,624.29	2,766.79	2,707.44	59.35	46.622						
12,000.00	11,926.22	11,963.91	11,819.60	42.29	41.89	87.12	-91.83	-2,623.99	2,767.49	2,708.02	59.48	46.532						
12,050.00	11,956.50	12,000.00	11,833.77	42.39	41.98	86.86	-125.02	-2,623.70	2,768.21	2,708.61	59.60	46.446						
12,100.00	11,983.21	12,040.07	11,847.02	42.50	42.07	86.60	-162.82	-2,623.37	2,768.93	2,709.19	59.73	46.354						
12,150.00	12,006.13	12,077.57	11,856.99	42.61	42.17	86.38	-198.96	-2,623.05	2,769.62	2,709.76	59.86	46.265						
12,200.00	12,025.10	12,114.75	11,864.53	42.72	42.26	86.17	-235.36	-2,622.73	2,770.28	2,710.28	60.00	46.173						
12,250.00	12,039.96	12,150.00	11,869.48	42.84	42.35	85.99	-270.26	-2,622.43	2,770.90	2,710.76	60.13	46.081						
12,300.00	12,050.60	12,188.33	11,872.42	42.96	42.45	85.82	-308.46	-2,622.09	2,771.45	2,711.17	60.27	45.980						
12,350.00	12,056.95	12,232.39	11,873.33	43.08	42.57	85.69	-352.51	-2,621.71	2,771.89	2,711.45	60.44	45.863						
12,386.75	12,058.85	12,269.11	11,873.91	43.17	42.68	85.64	-389.23	-2,621.39	2,772.03	2,711.46	60.57	45.764						
12,400.00	12,059.11	12,282.36	11,874.12	43.21	42.72	85.64	-402.47	-2,621.27	2,772.05	2,711.43	60.62	45.727						
12,500.00	12,061.06	12,382.36	11,875.70	43.50	43.06	85.64	-502.46	-2,620.40	2,772.18	2,711.12	61.06	45.403						
12,600.00	12,063.02	12,482.36	11,877.28	43.85	43.45	85.63	-602.44	-2,619.52	2,772.31	2,710.74	61.58	45.023						
12,700.00	12,064.98	12,582.35	11,878.86	44.25	43.91	85.62	-702.42	-2,618.65	2,772.45	2,710.27	62.18	44.588						
12,800.00	12,066.94	12,682.35	11,880.43	44.72	44.42	85.61	-802.40	-2,617.77	2,772.58	2,709.72	62.86	44.106						
12,900.00	12,068.89	12,782.35	11,882.01	45.24	44.98	85.61	-902.39	-2,616.90	2,772.71	2,709.09	63.62	43.580						
13,000.00	12,070.85	12,882.35	11,883.59	45.81	45.60	85.60	-1,002.37	-2,616.02	2,772.85	2,708.39	64.46	43.016						
13,100.00	12,072.81	12,982.35	11,885.17	46.43	46.26	85.59	-1,102.35	-2,615.15	2,772.98	2,707.61	65.37	42.420						
13,200.00	12,074.77	13,082.35	11,886.74	47.11	46.98	85.58	-1,202.34	-2,614.27	2,773.11	2,706.76	66.35	41.796						
13,300.00	12,076.72	13,182.35	11,888.32	47.83	47.74	85.57	-1,302.32	-2,613.40	2,773.24	2,705.85	67.39	41.150						
13,400.00	12,078.68	13,282.35	11,889.90	48.60	48.54	85.57	-1,402.30	-2,612.52	2,773.38	2,704.88	68.50	40.486						
13,500.00	12,080.64	13,382.35	11,891.48	49.41	49.39	85.56	-1,502.29	-2,611.65	2,773.51	2,703.84	69.67	39.808						
13,600.00	12,082.59	13,482.35	11,893.06	50.26	50.28	85.55	-1,602.27	-2,610.77	2,773.64	2,702.75	70.90	39.122						
13,700.00	12,084.55	13,582.35	11,894.63	51.15	51.20	85.54	-1,702.25	-2,609.90	2,773.78	2,701.60	72.18	38.429						
13,800.00	12,086.51	13,682.35	11,896.21	52.08	52.16	85.54	-1,802.23	-2,609.02	2,773.91	2,700.40	73.51	37.734						
13,900.00	12,088.47	13,782.35	11,897.79	53.04	53.16	85.53	-1,902.22	-2,608.15	2,774.04	2,699.15	74.89	37.040						
14,000.00	12,090.42	13,882.34	11,899.37	54.04	54.19	85.52	-2,002.20	-2,607.27	2,774.18	2,697.86	76.32	36.349						
14,100.00	12,092.38	13,982.34	11,900.95	55.07	55.24	85.51	-2,102.18	-2,606.40	2,774.31	2,696.52	77.79	35.663						
14,200.00	12,094.34	14,082.34	11,902.52	56.13	56.33	85.51	-2,202.17	-2,605.52	2,774.44	2,695.14	79.30	34.985						
14,300.00	12,096.30	14,182.34	11,904.10	57.21	57.44	85.50	-2,302.15	-2,604.65	2,774.58	2,693.72	80.86	34.315						
14,400.00	12,098.25	14,282.34	11,905.68	58.33	58.58	85.49	-2,402.13	-2,603.77	2,774.71	2,692.27	82.44	33.656						
14,500.00	12,100.21	14,382.34	11,907.26	59.46	59.74	85.48	-2,502.11	-2,602.90	2,774.85	2,690.78	84.07	33.008						
14,600.00	12,102.17	14,482.34	11,908.84	60.63	60.93	85.48	-2,602.10	-2,602.02	2,774.98	2,689.26	85.72	32.372						
14,700.00	12,104.12	14,582.34	11,910.41	61.81	62.13	85.47	-2,702.08	-2,601.15	2,775.11	2,687.71	87.41	31.749						
14,800.00	12,106.08	14,682.34	11,911.99	63.01	63.36	85.46	-2,802.06	-2,600.27	2,775.25	2,686.12	89.12	31.140						
14,900.00	12,108.04	14,782.34	11,913.57	64.24	64.61	85.45	-2,902.05	-2,599.40	2,775.38	2,684.52	90.86	30.544						
15,000.00	12,110.00	14,882.34	11,915.15	65.48	65.87	85.45	-3,002.03	-2,598.52	2,775.52	2,682.88	92.63	29.962						
15,100.00	12,111.95	14,982.34	11,916.72	66.74	67.15	85.44	-3,102.01	-2,597.65	2,775.65	2,681.22	94.43	29.395						
15,200.00	12,113.91	15,082.34	11,918.30	68.02	68.44	85.43	-3,202.00	-2,596.77	2,775.78	2,679.54	96.24	28.842						

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 LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	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		
15,300.00	12,115.87	15,182.33	11,919.88	69.32	69.76	85.42	-3,301.98	-2,595.90	2,775.92	2,677.84	98.08	28.303		
15,400.00	12,117.83	15,282.33	11,921.46	70.63	71.08	85.41	-3,401.96	-2,595.02	2,776.05	2,676.11	99.94	27.778		
15,500.00	12,119.78	15,382.33	11,923.04	71.95	72.42	85.41	-3,501.94	-2,594.15	2,776.19	2,674.37	101.81	27.267		
15,600.00	12,121.74	15,482.33	11,924.61	73.29	73.77	85.40	-3,601.93	-2,593.27	2,776.32	2,672.61	103.71	26.770		
15,700.00	12,123.70	15,582.33	11,926.19	74.64	75.13	85.39	-3,701.91	-2,592.40	2,776.45	2,670.83	105.62	26.287		
15,800.00	12,125.65	15,682.33	11,927.77	76.00	76.51	85.38	-3,801.89	-2,591.52	2,776.59	2,669.04	107.55	25.816		
15,900.00	12,127.61	15,782.33	11,929.35	77.37	77.90	85.38	-3,901.88	-2,590.65	2,776.72	2,667.23	109.50	25.359		
16,000.00	12,129.57	15,882.33	11,930.93	78.75	79.29	85.37	-4,001.86	-2,589.77	2,776.86	2,665.40	111.46	24.914		
16,100.00	12,131.53	15,982.33	11,932.50	80.15	80.70	85.36	-4,101.84	-2,588.90	2,776.99	2,663.56	113.43	24.482		
16,200.00	12,133.48	16,082.33	11,934.08	81.55	82.11	85.35	-4,201.83	-2,588.02	2,777.13	2,661.71	115.42	24.062		
16,300.00	12,135.44	16,182.33	11,935.66	82.96	83.54	85.35	-4,301.81	-2,587.15	2,777.26	2,659.85	117.42	23.653		
16,400.00	12,137.40	16,282.33	11,937.24	84.38	84.97	85.34	-4,401.79	-2,586.27	2,777.40	2,657.97	119.43	23.256		
16,500.00	12,139.36	16,382.33	11,938.82	85.81	86.41	85.33	-4,501.77	-2,585.40	2,777.53	2,656.08	121.45	22.870		
16,600.00	12,141.31	16,482.32	11,940.39	87.25	87.85	85.32	-4,601.76	-2,584.52	2,777.67	2,654.18	123.48	22.494		
16,700.00	12,143.27	16,582.32	11,941.97	88.70	89.31	85.32	-4,701.74	-2,583.65	2,777.80	2,652.27	125.53	22.129		
16,800.00	12,145.23	16,682.32	11,943.55	90.15	90.77	85.31	-4,801.72	-2,582.77	2,777.93	2,650.36	127.58	21.774		
16,900.00	12,147.18	16,782.32	11,945.13	91.61	92.24	85.30	-4,901.71	-2,581.90	2,778.07	2,648.43	129.64	21.429		
17,000.00	12,149.14	16,882.32	11,946.70	93.07	93.71	85.29	-5,001.69	-2,581.02	2,778.20	2,646.49	131.71	21.093		
17,100.00	12,151.10	16,982.32	11,948.28	94.54	95.19	85.28	-5,101.67	-2,580.15	2,778.34	2,644.55	133.79	20.766		
17,200.00	12,153.06	17,082.32	11,949.86	96.02	96.67	85.28	-5,201.65	-2,579.27	2,778.47	2,642.59	135.88	20.448		
17,300.00	12,155.01	17,182.32	11,951.44	97.50	98.17	85.27	-5,301.64	-2,578.40	2,778.61	2,640.63	137.98	20.138		
17,400.00	12,156.97	17,282.32	11,953.02	98.99	99.66	85.26	-5,401.62	-2,577.52	2,778.74	2,638.67	140.08	19.837		
17,500.00	12,158.93	17,382.32	11,954.59	100.48	101.16	85.25	-5,501.60	-2,576.65	2,778.88	2,636.69	142.19	19.544		
17,600.00	12,160.89	17,482.32	11,956.17	101.98	102.67	85.25	-5,601.59	-2,575.77	2,779.02	2,634.71	144.31	19.258		
17,700.00	12,162.84	17,582.32	11,957.75	103.49	104.18	85.24	-5,701.57	-2,574.90	2,779.15	2,632.72	146.43	18.980		
17,800.00	12,164.80	17,682.32	11,959.33	104.99	105.69	85.23	-5,801.55	-2,574.02	2,779.29	2,630.73	148.56	18.709		
17,900.00	12,166.76	17,782.31	11,960.91	106.51	107.21	85.22	-5,901.54	-2,573.15	2,779.42	2,628.73	150.69	18.444		
18,000.00	12,168.71	17,882.31	11,962.48	108.02	108.73	85.22	-6,001.52	-2,572.27	2,779.56	2,626.72	152.83	18.187		
18,100.00	12,170.67	17,982.31	11,964.06	109.54	110.26	85.21	-6,101.50	-2,571.40	2,779.69	2,624.71	154.98	17.936		
18,200.00	12,172.63	18,082.31	11,965.64	111.07	111.78	85.20	-6,201.48	-2,570.52	2,779.83	2,622.70	157.13	17.691		
18,300.00	12,174.59	18,182.31	11,967.22	112.59	113.32	85.19	-6,301.47	-2,569.65	2,779.96	2,620.68	159.29	17.453		
18,400.00	12,176.54	18,282.31	11,968.80	114.12	114.85	85.19	-6,401.45	-2,568.77	2,780.10	2,618.65	161.45	17.220		
18,500.00	12,178.50	18,382.31	11,970.37	115.66	116.39	85.18	-6,501.43	-2,567.90	2,780.23	2,616.62	163.61	16.993		
18,600.00	12,180.46	18,482.31	11,971.95	117.20	117.93	85.17	-6,601.42	-2,567.02	2,780.37	2,614.59	165.78	16.771		
18,700.00	12,182.42	18,582.31	11,973.53	118.74	119.48	85.16	-6,701.40	-2,566.15	2,780.51	2,612.55	167.96	16.555		
18,800.00	12,184.37	18,682.31	11,975.11	120.28	121.03	85.16	-6,801.38	-2,565.27	2,780.64	2,610.51	170.13	16.344		
18,900.00	12,186.33	18,782.31	11,976.68	121.83	122.58	85.15	-6,901.36	-2,564.40	2,780.78	2,608.46	172.32	16.138		
19,000.00	12,188.29	18,882.31	11,978.26	123.38	124.13	85.14	-7,001.35	-2,563.52	2,780.91	2,606.41	174.50	15.936		
19,100.00	12,190.24	18,982.31	11,979.84	124.93	125.69	85.13	-7,101.33	-2,562.65	2,781.05	2,604.36	176.69	15.740		
19,200.00	12,192.20	19,082.30	11,981.42	126.48	127.25	85.12	-7,201.31	-2,561.77	2,781.19	2,602.30	178.88	15.547		
19,300.00	12,194.16	19,182.30	11,983.00	128.04	128.81	85.12	-7,301.30	-2,560.90	2,781.32	2,600.24	181.08	15.360		
19,400.00	12,196.12	19,282.30	11,984.57	129.60	130.37	85.11	-7,401.28	-2,560.02	2,781.46	2,598.18	183.28	15.176		
19,500.00	12,198.07	19,382.30	11,986.15	131.16	131.94	85.10	-7,501.26	-2,559.15	2,781.59	2,596.11	185.48	14.997		
19,600.00	12,200.03	19,482.30	11,987.73	132.72	133.50	85.09	-7,601.25	-2,558.27	2,781.73	2,594.04	187.69	14.821		
19,700.00	12,201.99	19,582.30	11,989.31	134.29	135.07	85.09	-7,701.23	-2,557.40	2,781.87	2,591.97	189.90	14.649		
19,800.00	12,203.95	19,682.30	11,990.89	135.86	136.64	85.08	-7,801.21	-2,556.52	2,782.00	2,589.90	192.11	14.482		
19,900.00	12,205.90	19,782.30	11,992.46	137.43	138.22	85.07	-7,901.19	-2,555.65	2,782.14	2,587.82	194.32	14.317		
20,000.00	12,207.86	19,882.30	11,994.04	139.00	139.79	85.06	-8,001.18	-2,554.77	2,782.28	2,585.74	196.54	14.156		
20,100.00	12,209.82	19,982.30	11,995.62	140.57	141.37	85.06	-8,101.16	-2,553.90	2,782.41	2,583.66	198.76	13.999		
20,200.00	12,211.77	20,082.30	11,997.20	142.15	142.95	85.05	-8,201.14	-2,553.02	2,782.55	2,581.57	200.98	13.845		
20,300.00	12,213.73	20,182.30	11,998.78	143.72	144.53	85.04	-8,301.13	-2,552.15	2,782.68	2,579.48	203.20	13.694		
20,400.00	12,215.69	20,282.30	12,000.35	145.30	146.11	85.03	-8,401.11	-2,551.27	2,782.82	2,577.39	205.43	13.547		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design												Bus Driver/Kasten Fed Com - Bus Driver Fed Com 602H - OH - Plan #2		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					
20,500.00	12,217.65	20,382.29	12,001.93	146.88	147.69	85.03	-8,501.09	-2,550.40	2,782.96	2,575.30	207.65	13.402					
20,600.00	12,219.60	20,482.29	12,003.51	148.47	149.28	85.02	-8,601.07	-2,549.52	2,783.09	2,573.21	209.89	13.260					
20,700.00	12,221.56	20,582.29	12,005.09	150.05	150.86	85.01	-8,701.06	-2,548.65	2,783.23	2,571.11	212.12	13.121					
20,800.00	12,223.52	20,682.29	12,006.66	151.63	152.45	85.00	-8,801.04	-2,547.77	2,783.37	2,569.02	214.35	12.985					
20,900.00	12,225.48	20,782.29	12,008.24	153.22	154.04	85.00	-8,901.02	-2,546.90	2,783.51	2,566.92	216.59	12.852					
21,000.00	12,227.43	20,882.29	12,009.82	154.81	155.63	84.99	-9,001.01	-2,546.02	2,783.64	2,564.82	218.83	12.721					
21,100.00	12,229.39	20,982.29	12,011.40	156.40	157.22	84.98	-9,100.99	-2,545.15	2,783.78	2,562.71	221.07	12.593					
21,200.00	12,231.35	21,082.29	12,012.98	157.99	158.81	84.97	-9,200.97	-2,544.27	2,783.92	2,560.61	223.31	12.467					
21,300.00	12,233.30	21,182.29	12,014.55	159.58	160.41	84.97	-9,300.96	-2,543.40	2,784.05	2,558.50	225.55	12.343					
21,400.00	12,235.26	21,282.29	12,016.13	161.17	162.00	84.96	-9,400.94	-2,542.52	2,784.19	2,556.39	227.80	12.222					
21,500.00	12,237.22	21,382.29	12,017.71	162.77	163.60	84.95	-9,500.92	-2,541.65	2,784.33	2,554.29	230.04	12.104					
21,600.00	12,239.18	21,482.29	12,019.29	164.36	165.20	84.94	-9,600.90	-2,540.77	2,784.46	2,552.17	232.29	11.987					
21,700.00	12,241.13	21,582.29	12,020.87	165.96	166.80	84.94	-9,700.89	-2,539.90	2,784.60	2,550.06	234.54	11.873					
21,800.00	12,243.09	21,682.28	12,022.44	167.56	168.39	84.93	-9,800.87	-2,539.02	2,784.74	2,547.95	236.79	11.760					
21,900.00	12,245.05	21,782.28	12,024.02	169.16	170.00	84.92	-9,900.85	-2,538.15	2,784.88	2,545.83	239.04	11.650					
22,000.00	12,247.01	21,882.28	12,025.60	170.76	171.60	84.91	-10,000.84	-2,537.27	2,785.01	2,543.72	241.30	11.542					
22,100.00	12,248.96	21,982.28	12,027.18	172.36	173.20	84.90	-10,100.82	-2,536.40	2,785.15	2,541.60	243.55	11.436					
22,200.00	12,250.92	22,082.28	12,028.76	173.96	174.80	84.90	-10,200.80	-2,535.52	2,785.29	2,539.48	245.81	11.331					
22,300.00	12,252.88	22,182.28	12,030.33	175.56	176.41	84.89	-10,300.79	-2,534.65	2,785.43	2,537.36	248.06	11.229					
22,400.00	12,254.83	22,282.28	12,031.91	177.16	178.01	84.88	-10,400.77	-2,533.77	2,785.56	2,535.24	250.32	11.128					
22,500.00	12,256.79	22,382.28	12,033.49	178.77	179.62	84.87	-10,500.75	-2,532.90	2,785.70	2,533.12	252.58	11.029					
22,600.00	12,258.75	22,482.28	12,035.07	180.37	181.23	84.87	-10,600.73	-2,532.02	2,785.84	2,531.00	254.84	10.932					
22,695.11	12,260.61	22,577.39	12,036.57	181.90	182.75	84.86	-10,695.83	-2,531.19	2,785.97	2,528.98	256.99	10.841 SF					



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	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	25.80	25.80	0.00	0.04	-89.07	39.34	-2,423.88	2,424.20					
100.00	100.00	125.80	125.80	0.14	0.23	-89.07	39.34	-2,423.88	2,424.20	2,423.93	0.27	8,861.145		
200.00	200.00	225.80	225.80	0.50	0.59	-89.07	39.34	-2,423.88	2,424.20	2,423.42	0.78	3,126.535		
300.00	300.00	325.80	325.80	0.86	0.95	-89.07	39.34	-2,423.88	2,424.20	2,422.92	1.28	1,892.094		
400.00	400.00	425.80	425.80	1.22	1.31	-89.07	39.34	-2,423.88	2,424.20	2,422.41	1.79	1,356.038		
500.00	500.00	525.80	525.80	1.58	1.67	-89.07	39.34	-2,423.88	2,424.20	2,421.90	2.29	1,056.573		
600.00	600.00	625.80	625.80	1.93	2.03	-89.07	39.34	-2,423.88	2,424.20	2,421.40	2.80	865.419		
700.00	700.00	725.80	725.80	2.29	2.38	-89.07	39.34	-2,423.88	2,424.20	2,420.89	3.31	732.824		
800.00	800.00	825.80	825.80	2.65	2.74	-89.07	39.34	-2,423.88	2,424.20	2,420.38	3.81	635.457		
900.00	900.00	925.80	925.80	3.01	3.10	-89.07	39.34	-2,423.88	2,424.20	2,419.88	4.32	560.926		
1,000.00	1,000.00	1,025.80	1,025.80	3.37	3.46	-89.07	39.34	-2,423.88	2,424.20	2,419.37	4.83	502.041		
1,100.00	1,100.00	1,125.80	1,125.80	3.73	3.82	-89.07	39.34	-2,423.88	2,424.20	2,418.86	5.34	454.344		
1,200.00	1,200.00	1,225.80	1,225.80	4.08	4.18	-89.07	39.34	-2,423.88	2,424.20	2,418.36	5.84	414.924		
1,300.00	1,300.00	1,325.80	1,325.80	4.44	4.54	-89.07	39.34	-2,423.88	2,424.20	2,417.85	6.35	381.797		
1,400.00	1,400.00	1,425.80	1,425.80	4.80	4.89	-89.07	39.34	-2,423.88	2,424.20	2,417.34	6.86	353.569		
1,500.00	1,500.00	1,525.80	1,525.80	5.16	5.25	-89.07	39.34	-2,423.88	2,424.20	2,416.84	7.36	329.227		
1,600.00	1,600.00	1,625.80	1,625.80	5.52	5.61	-89.07	39.34	-2,423.88	2,424.20	2,416.33	7.87	308.021		
1,700.00	1,700.00	1,725.80	1,725.80	5.88	5.97	-89.07	39.34	-2,423.88	2,424.20	2,415.82	8.38	289.381		
1,800.00	1,800.00	1,825.80	1,825.80	6.24	6.33	-89.07	39.34	-2,423.88	2,424.20	2,415.32	8.88	272.869		
1,900.00	1,900.00	1,925.80	1,925.80	6.59	6.69	-89.07	39.34	-2,423.88	2,424.20	2,414.81	9.39	258.139		
2,000.00	2,000.00	2,025.80	2,025.80	6.95	7.05	-89.07	39.34	-2,423.88	2,424.20	2,414.30	9.90	244.918		
2,100.00	2,100.00	2,125.80	2,125.80	7.31	7.40	-89.07	39.34	-2,423.88	2,424.20	2,413.79	10.40	232.985		
2,200.00	2,200.00	2,225.80	2,225.80	7.67	7.76	-89.07	39.34	-2,423.88	2,424.20	2,413.29	10.91	222.161		
2,300.00	2,300.00	2,325.80	2,325.80	8.03	8.12	-89.07	39.34	-2,423.88	2,424.20	2,412.78	11.42	212.298		
2,400.00	2,400.00	2,425.80	2,425.80	8.39	8.48	-89.07	39.34	-2,423.88	2,424.20	2,412.27	11.93	203.274		
2,500.00	2,500.00	2,525.80	2,525.80	8.74	8.84	-89.07	39.34	-2,423.88	2,424.20	2,411.77	12.43	194.985		
2,600.00	2,600.00	2,625.80	2,625.80	9.10	9.20	-89.07	39.34	-2,423.88	2,424.20	2,411.26	12.94	187.346		
2,700.00	2,700.00	2,725.80	2,725.80	9.46	9.55	-89.07	39.34	-2,423.88	2,424.20	2,410.75	13.45	180.283		
2,800.00	2,800.00	2,825.80	2,825.80	9.82	9.91	-89.07	39.34	-2,423.88	2,424.20	2,410.25	13.95	173.733		
2,900.00	2,900.00	2,925.80	2,925.80	10.18	10.27	-89.07	39.34	-2,423.88	2,424.20	2,409.74	14.46	167.642		
3,000.00	3,000.00	3,025.80	3,025.80	10.54	10.63	-89.07	39.34	-2,423.88	2,424.20	2,409.23	14.97	161.964		
3,100.00	3,100.00	3,125.80	3,125.80	10.90	10.99	-89.07	39.34	-2,423.88	2,424.20	2,408.72	15.47	156.658		
3,200.00	3,200.00	3,225.80	3,225.80	11.25	11.35	-89.07	39.34	-2,423.88	2,424.20	2,408.22	15.98	151.689		
3,300.00	3,300.00	3,325.80	3,325.80	11.61	11.71	-89.07	39.34	-2,423.88	2,424.20	2,407.71	16.49	147.025		
3,400.00	3,400.00	3,425.80	3,425.80	11.97	12.06	-89.07	39.34	-2,423.88	2,424.20	2,407.20	17.00	142.639		
3,500.00	3,500.00	3,525.80	3,525.80	12.33	12.42	-89.07	39.34	-2,423.88	2,424.20	2,406.70	17.50	138.508		
3,600.00	3,600.00	3,625.80	3,625.80	12.69	12.78	-89.07	39.34	-2,423.88	2,424.20	2,406.19	18.01	134.609		
3,700.00	3,700.00	3,725.80	3,725.80	13.05	13.14	-89.07	39.34	-2,423.88	2,424.20	2,405.68	18.52	130.923		
3,800.00	3,800.00	3,825.80	3,825.80	13.41	13.50	-89.07	39.34	-2,423.88	2,424.20	2,405.18	19.02	127.434		
3,900.00	3,900.00	3,925.80	3,925.80	13.76	13.86	-89.07	39.34	-2,423.88	2,424.20	2,404.67	19.53	124.127		
4,000.00	4,000.00	4,025.80	4,025.80	14.12	14.21	-89.07	39.34	-2,423.88	2,424.20	2,404.16	20.04	120.986		
4,100.00	4,100.00	4,125.80	4,125.80	14.48	14.57	-89.07	39.34	-2,423.88	2,424.20	2,403.66	20.54	118.001		
4,200.00	4,200.00	4,225.80	4,225.80	14.84	14.93	-89.07	39.34	-2,423.88	2,424.20	2,403.15	21.05	115.159		
4,300.00	4,300.00	4,325.80	4,325.80	15.20	15.29	-89.07	39.34	-2,423.88	2,424.20	2,402.64	21.56	112.451		
4,400.00	4,400.00	4,425.80	4,425.80	15.56	15.65	-89.07	39.34	-2,423.88	2,424.20	2,402.13	22.06	109.867		
4,500.00	4,500.00	4,525.80	4,525.80	15.91	16.01	-89.07	39.34	-2,423.88	2,424.20	2,401.63	22.57	107.400 CC, ES		
4,600.00	4,599.99	4,600.00	4,600.00	16.27	16.27	-123.48	39.43	-2,424.19	2,425.37	2,402.37	23.01	105.412		
4,700.00	4,699.91	4,659.04	4,659.03	16.63	16.47	-123.47	39.79	-2,425.37	2,429.50	2,406.11	23.40	103.838		
4,800.00	4,799.69	4,720.85	4,720.79	16.98	16.69	-123.44	40.44	-2,427.54	2,436.64	2,412.85	23.79	102.432		
4,899.76	4,899.04	4,800.00	4,799.82	17.34	16.96	-123.44	41.70	-2,431.71	2,446.84	2,422.62	24.22	101.014		
5,000.00	4,998.72	4,843.61	4,843.32	17.69	17.12	-123.51	42.60	-2,434.68	2,459.15	2,434.60	24.55	100.161		
5,100.00	5,098.18	4,900.00	4,899.51	18.05	17.31	-123.59	43.97	-2,439.22	2,473.08	2,448.17	24.91	99.274		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kasten Fed Com - Bus Driver Fed Com 702H - OH - Plan #2		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	5,197.63	4,965.43	4,964.61	18.41	17.54	-123.68	45.86	-2,445.49	2,488.52	2,463.22	25.30	98.377						
5,300.00	5,297.08	5,025.94	5,024.71	18.77	17.76	-123.76	47.89	-2,452.23	2,505.48	2,479.82	25.66	97.643						
5,400.00	5,396.53	5,100.00	5,098.10	19.13	18.02	-123.84	50.76	-2,461.72	2,524.00	2,497.93	26.07	96.827						
5,500.00	5,495.99	5,146.05	5,143.63	19.50	18.18	-123.89	52.74	-2,468.31	2,543.88	2,517.51	26.37	96.463						
5,600.00	5,595.44	5,205.58	5,202.36	19.86	18.40	-123.94	55.55	-2,477.61	2,565.29	2,538.57	26.72	96.009						
5,700.00	5,694.89	5,295.75	5,291.17	20.22	18.72	-124.01	60.07	-2,492.59	2,587.67	2,560.49	27.18	95.200						
5,800.00	5,794.34	5,393.14	5,387.08	20.59	19.08	-124.09	64.95	-2,508.78	2,610.09	2,582.42	27.67	94.321						
5,900.00	5,893.80	5,490.53	5,482.99	20.96	19.44	-124.17	69.84	-2,524.98	2,632.52	2,604.35	28.16	93.468						
6,000.00	5,993.25	5,587.93	5,578.90	21.33	19.81	-124.25	74.72	-2,541.17	2,654.94	2,626.29	28.66	92.639						
6,100.00	6,092.70	5,685.32	5,674.82	21.69	20.17	-124.32	79.61	-2,557.37	2,677.38	2,648.22	29.15	91.835						
6,200.00	6,192.16	5,782.71	5,770.73	22.06	20.54	-124.40	84.49	-2,573.56	2,699.81	2,670.16	29.65	91.053						
6,300.00	6,291.61	5,880.10	5,866.64	22.43	20.92	-124.47	89.38	-2,589.76	2,722.25	2,692.11	30.15	90.294						
6,400.00	6,391.06	5,977.49	5,962.55	22.80	21.29	-124.54	94.26	-2,605.95	2,744.70	2,714.05	30.65	89.557						
6,500.00	6,490.51	6,074.89	6,058.46	23.18	21.67	-124.61	99.15	-2,622.15	2,767.15	2,736.00	31.15	88.840						
6,600.00	6,589.97	6,172.28	6,154.37	23.55	22.05	-124.68	104.03	-2,638.34	2,789.60	2,757.95	31.65	88.142						
6,700.00	6,689.42	6,269.67	6,250.29	23.92	22.43	-124.75	108.92	-2,654.54	2,812.06	2,779.91	32.15	87.464						
6,800.00	6,788.87	6,367.06	6,346.20	24.30	22.82	-124.81	113.81	-2,670.73	2,834.52	2,801.87	32.65	86.804						
6,820.20	6,808.96	6,386.74	6,365.57	24.37	22.89	-124.83	114.79	-2,674.00	2,839.06	2,806.30	32.76	86.673						
6,900.00	6,888.41	6,464.58	6,442.23	24.67	23.20	-125.09	118.70	-2,686.95	2,856.52	2,823.36	33.16	86.149						
7,000.00	6,988.15	6,562.44	6,538.60	25.04	23.59	-125.35	123.61	-2,703.22	2,877.08	2,843.42	33.66	85.473						
7,100.00	7,088.05	6,660.58	6,635.26	25.40	23.99	-125.56	128.53	-2,719.54	2,896.15	2,861.99	34.16	84.774						
7,200.00	7,188.03	6,758.95	6,732.13	25.75	24.39	-125.70	133.46	-2,735.90	2,913.73	2,879.07	34.66	84.056						
7,219.97	7,208.00	6,778.61	6,751.49	25.83	24.46	-91.31	134.45	-2,739.17	2,917.06	2,882.30	34.76	83.911						
7,300.00	7,288.03	6,857.42	6,829.11	26.11	24.78	-91.22	138.40	-2,752.27	2,930.30	2,895.14	35.16	83.331						
7,400.00	7,388.03	6,955.90	6,926.09	26.46	25.18	-91.12	143.34	-2,768.65	2,946.85	2,911.18	35.67	82.623						
7,500.00	7,488.03	7,054.38	7,023.07	26.82	25.59	-91.01	148.28	-2,785.03	2,963.40	2,927.23	36.17	81.934						
7,600.00	7,588.03	7,152.86	7,120.06	27.17	25.99	-90.91	153.22	-2,801.40	2,979.97	2,943.30	36.67	81.263						
7,700.00	7,688.03	7,251.34	7,217.04	27.53	26.39	-90.81	158.16	-2,817.78	2,996.54	2,959.37	37.17	80.609						
7,800.00	7,788.03	7,349.82	7,314.02	27.88	26.80	-90.71	163.10	-2,834.15	3,013.13	2,975.45	37.68	79.972						
7,900.00	7,888.03	7,448.30	7,411.01	28.24	27.21	-90.61	168.04	-2,850.53	3,029.72	2,991.54	38.18	79.352						
8,000.00	7,988.03	7,546.78	7,507.99	28.59	27.62	-90.52	172.98	-2,866.91	3,046.32	3,007.63	38.68	78.747						
8,100.00	8,088.03	7,645.27	7,604.97	28.95	28.03	-90.42	177.92	-2,883.28	3,062.93	3,023.74	39.19	78.157						
8,200.00	8,188.03	7,743.75	7,701.96	29.30	28.44	-90.32	182.86	-2,899.66	3,079.55	3,039.85	39.69	77.582						
8,300.00	8,288.03	7,842.23	7,798.94	29.66	28.85	-90.23	187.80	-2,916.03	3,096.17	3,055.97	40.20	77.020						
8,400.00	8,388.03	7,940.71	7,895.92	30.01	29.26	-90.14	192.74	-2,932.41	3,112.81	3,072.10	40.70	76.472						
8,500.00	8,488.03	8,039.19	7,992.91	30.37	29.68	-90.04	197.68	-2,948.79	3,129.45	3,088.24	41.21	75.938						
8,600.00	8,588.03	8,137.67	8,089.89	30.72	30.09	-89.95	202.62	-2,965.16	3,146.10	3,104.38	41.72	75.415						
8,700.00	8,688.03	8,236.15	8,186.87	31.08	30.51	-89.86	207.56	-2,981.54	3,162.76	3,120.53	42.22	74.905						
8,800.00	8,788.03	8,334.63	8,283.86	31.43	30.93	-89.77	212.50	-2,997.91	3,179.42	3,136.69	42.73	74.407						
8,900.00	8,888.03	8,433.11	8,380.84	31.79	31.34	-89.68	217.44	-3,014.29	3,196.09	3,152.86	43.24	73.920						
9,000.00	8,988.03	8,531.59	8,477.82	32.14	31.76	-89.60	222.38	-3,030.67	3,212.77	3,169.03	43.74	73.445						
9,100.00	9,088.03	8,630.07	8,575.10	32.50	32.17	-89.51	227.32	-3,047.05	3,229.43	3,185.19	44.24	72.970						
9,200.00	9,188.03	8,728.55	8,672.58	32.86	32.59	-89.42	232.26	-3,063.43	3,246.10	3,201.26	44.74	72.495						
9,300.00	9,288.03	8,827.03	8,769.99	33.21	33.01	-89.33	237.20	-3,079.81	3,262.76	3,217.32	45.24	72.020						
9,400.00	9,388.03	8,925.51	8,867.45	33.57	33.42	-89.24	242.14	-3,096.19	3,279.42	3,233.38	45.74	71.545						
9,500.00	9,488.03	9,024.00	8,964.92	33.92	33.83	-89.15	247.08	-3,112.57	3,296.09	3,249.44	46.24	71.070						
9,600.00	9,588.03	9,122.48	9,062.42	34.28	34.24	-89.06	252.02	-3,128.95	3,312.77	3,265.52	46.74	70.595						
9,700.00	9,688.03	9,220.96	9,157.90	34.63	34.65	-88.97	256.96	-3,145.83	3,329.43	3,281.60	47.24	70.120						
9,800.00	9,788.03	9,319.44	9,254.92	34.99	35.67	-88.88	261.90	-3,162.71	3,346.10	3,297.68	47.74	69.645						
9,900.00	9,888.03	9,417.92	9,351.90	35.35	35.91	-88.79	266.84	-3,179.59	3,362.76	3,313.76	48.24	69.170						
10,000.00	9,988.03	9,516.40	9,447.92	35.70	35.78	-88.70	271.78	-3,196.47	3,379.42	3,329.84	48.74	68.695						
10,100.00	10,088.03	9,614.88	9,544.92	36.06	36.15	-88.61	276.72	-3,213.35	3,396.09	3,345.92	49.24	68.220						
10,200.00	10,188.03	9,713.36	9,642.92	36.41	36.54	-88.52	281.66	-3,230.23	3,412.76	3,362.00	49.74	67.745						
10,300.00	10,288.03	9,811.84	9,739.92	36.77	36.92	-88.43	286.60	-3,247.11	3,429.42	3,378.08	50.24	67.270						
10,400.00	10,388.03	9,910.32	9,837.92	37.12	37.27	-88.34	291.54	-3,264.00	3,446.09	3,394.16	50.74	66.795						
10,500.00	10,488.03	10,008.80	9,934.92	37.48	37.62	-88.25	296.48	-3,280.88	3,462.76	3,410.24	51.24	66.320						
10,600.00	10,588.03	10,107.28	10,032.92	37.83	37.97	-88.16	301.42	-3,297.76	3,479.42	3,426.32	51.74	65.845						
10,700.00	10,688.03	10,205.76	10,130.92	38.19	38.33	-88.07	306.36	-3,314.64	3,496.09	3,442.40	52.24	65.370						
10,800.00	10,788.03	10,304.24	10,228.92	38.54	38.68	-87.98	311.30	-3,331.52	3,512.76	3,458.48	52.74	64.895						
10,900.00	10,888.03	10,402.72	10,326.92	38.90	39.02	-87.89	316.24	-3,348.40	3,529.42	3,474.56	53.24	64.420						
11,000.00	10,988.03	10,501.20	10,424.92	39.25	39.37	-87.80	321.18	-3,365.28	3,546.09	3,490.64	53.74	63.945						
11,100.00	11,088.03	10,600.00	10,522.92	39.61	39.71	-87.71	326.12	-3,382.16	3,562.76	3,506.72	54.24	63.470						
11,200.00	11,188.03	10,698.48	10,620.92	39.96	40.06	-87.62	331.06	-3,399.04	3,579.42	3,522.80	54.74	62.995						
11,300.00	11,288.03	10,796.96	10,718.92	40.32	40.42	-87.53	336.00	-3,415.92	3,596.09	3,538.								



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	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	10,188.03	10,271.04	10,213.83	36.42	37.93	-89.30	239.34	-3,086.88	3,224.12	3,172.69	51.43	62.692		
10,300.00	10,288.03	10,371.04	10,313.83	36.77	38.27	-89.30	239.34	-3,086.88	3,224.12	3,172.19	51.93	62.088		
10,400.00	10,388.03	10,471.04	10,413.83	37.13	38.61	-89.30	239.34	-3,086.88	3,224.12	3,171.69	52.43	61.495		
10,500.00	10,488.03	10,571.04	10,513.83	37.48	38.95	-89.30	239.34	-3,086.88	3,224.12	3,171.19	52.93	60.914		
10,600.00	10,588.03	10,671.04	10,613.83	37.84	39.29	-89.30	239.34	-3,086.88	3,224.12	3,170.69	53.43	60.343		
10,700.00	10,688.03	10,771.04	10,713.83	38.20	39.63	-89.30	239.34	-3,086.88	3,224.12	3,170.19	53.93	59.783		
10,800.00	10,788.03	10,871.04	10,813.83	38.55	39.98	-89.30	239.34	-3,086.88	3,224.12	3,169.69	54.43	59.233		
10,900.00	10,888.03	10,971.04	10,913.83	38.91	40.32	-89.30	239.34	-3,086.88	3,224.12	3,169.19	54.93	58.693		
11,000.00	10,988.03	11,071.04	11,013.83	39.27	40.66	-89.30	239.34	-3,086.88	3,224.12	3,168.69	55.43	58.162		
11,100.00	11,088.03	11,171.04	11,113.83	39.62	41.00	-89.30	239.34	-3,086.88	3,224.12	3,168.19	55.93	57.641		
11,200.00	11,188.03	11,271.04	11,213.83	39.98	41.35	-89.30	239.34	-3,086.88	3,224.12	3,167.68	56.44	57.129		
11,300.00	11,288.03	11,371.04	11,313.83	40.34	41.69	-89.30	239.34	-3,086.88	3,224.12	3,167.18	56.94	56.626		
11,400.00	11,388.03	11,471.04	11,413.83	40.69	42.03	-89.30	239.34	-3,086.88	3,224.12	3,166.68	57.44	56.131		
11,497.97	11,486.00	11,574.10	11,516.86	41.04	42.38	-89.33	237.66	-3,086.87	3,224.09	3,166.16	57.93	55.652		
11,500.00	11,488.03	11,576.40	11,519.14	41.05	42.38	91.23	237.48	-3,086.86	3,224.09	3,166.14	57.94	55.642		
11,550.00	11,537.96	11,632.48	11,574.74	41.21	42.55	91.15	230.24	-3,086.80	3,224.01	3,165.83	58.18	55.418		
11,600.00	11,587.49	11,688.04	11,628.85	41.36	42.71	91.07	217.74	-3,086.69	3,223.93	3,165.53	58.40	55.207		
11,650.00	11,636.26	11,743.03	11,680.96	41.51	42.85	90.98	200.27	-3,086.54	3,223.85	3,165.25	58.61	55.008		
11,700.00	11,683.87	11,797.41	11,730.63	41.65	42.99	90.88	178.15	-3,086.34	3,223.79	3,164.98	58.81	54.821		
11,750.00	11,729.98	11,851.17	11,777.44	41.78	43.10	90.77	151.77	-3,086.11	3,223.73	3,164.73	58.99	54.645		
11,800.00	11,774.24	11,904.29	11,821.07	41.90	43.20	90.66	121.50	-3,085.85	3,223.68	3,164.51	59.17	54.479		
11,850.00	11,816.30	11,956.76	11,861.23	42.01	43.29	90.55	87.76	-3,085.55	3,223.64	3,164.30	59.34	54.322		
11,900.00	11,855.85	12,008.59	11,897.71	42.11	43.37	90.43	50.97	-3,085.23	3,223.63	3,164.12	59.51	54.171		
11,933.75	11,880.97	12,043.21	11,920.16	42.17	43.41	90.35	24.62	-3,085.00	3,223.62	3,164.00	59.62	54.072		
11,950.00	11,892.58	12,059.78	11,930.33	42.20	43.43	90.31	11.55	-3,084.89	3,223.62	3,163.95	59.67	54.025		
12,000.00	11,926.22	12,110.34	11,958.97	42.29	43.48	90.18	-30.10	-3,084.52	3,223.64	3,163.81	59.83	53.882		
12,050.00	11,956.50	12,160.29	11,983.55	42.39	43.53	90.06	-73.57	-3,084.14	3,223.67	3,163.68	59.98	53.742		
12,100.00	11,983.21	12,209.66	12,004.03	42.50	43.57	89.94	-118.47	-3,083.75	3,223.72	3,163.57	60.14	53.602		
12,150.00	12,006.13	12,258.47	12,020.41	42.61	43.61	89.81	-164.43	-3,083.34	3,223.78	3,163.48	60.30	53.462		
12,200.00	12,025.10	12,306.74	12,032.71	42.72	43.66	89.69	-211.09	-3,082.94	3,223.86	3,163.40	60.46	53.321		
12,250.00	12,039.96	12,354.51	12,040.97	42.84	43.72	89.57	-258.13	-3,082.52	3,223.95	3,163.33	60.62	53.179		
12,300.00	12,050.60	12,401.81	12,045.25	42.96	43.79	89.46	-305.22	-3,082.11	3,224.06	3,163.27	60.79	53.036		
12,350.00	12,056.95	12,450.33	12,046.27	43.08	43.89	89.36	-353.72	-3,081.69	3,224.16	3,163.20	60.96	52.886		
12,386.75	12,058.85	12,487.05	12,046.75	43.17	43.97	89.33	-390.44	-3,081.37	3,224.22	3,163.12	61.10	52.771		
12,400.00	12,059.11	12,500.30	12,046.92	43.21	44.00	89.33	-403.68	-3,081.25	3,224.23	3,163.09	61.15	52.729		
12,500.00	12,061.06	12,600.30	12,048.22	43.50	44.29	89.31	-503.67	-3,080.37	3,224.34	3,162.77	61.58	52.361		
12,600.00	12,063.02	12,700.30	12,049.52	43.85	44.65	89.30	-603.65	-3,079.50	3,224.46	3,162.36	62.10	51.927		
12,700.00	12,064.98	12,800.29	12,050.82	44.25	45.08	89.29	-703.64	-3,078.62	3,224.57	3,161.87	62.70	51.432		
12,800.00	12,066.94	12,900.29	12,052.12	44.72	45.57	89.28	-803.62	-3,077.75	3,224.68	3,161.30	63.38	50.882		
12,900.00	12,068.89	13,000.29	12,053.42	45.24	46.12	89.27	-903.61	-3,076.87	3,224.79	3,160.66	64.13	50.282		
13,000.00	12,070.85	13,100.29	12,054.72	45.81	46.72	89.26	-1,003.60	-3,076.00	3,224.90	3,159.94	64.97	49.638		
13,100.00	12,072.81	13,200.28	12,056.02	46.43	47.37	89.24	-1,103.58	-3,075.12	3,225.02	3,159.14	65.87	48.957		
13,200.00	12,074.77	13,300.28	12,057.32	47.11	48.07	89.23	-1,203.57	-3,074.25	3,225.13	3,158.28	66.85	48.244		
13,300.00	12,076.72	13,400.28	12,058.62	47.83	48.82	89.22	-1,303.55	-3,073.37	3,225.24	3,157.35	67.89	47.506		
13,400.00	12,078.68	13,500.28	12,059.93	48.60	49.61	89.21	-1,403.54	-3,072.50	3,225.35	3,156.36	69.00	46.746		
13,500.00	12,080.64	13,600.28	12,061.23	49.41	50.44	89.20	-1,503.52	-3,071.62	3,225.47	3,155.30	70.16	45.971		
13,600.00	12,082.59	13,700.27	12,062.53	50.26	51.31	89.19	-1,603.51	-3,070.74	3,225.58	3,154.19	71.39	45.185		
13,700.00	12,084.55	13,800.27	12,063.83	51.15	52.22	89.17	-1,703.49	-3,069.87	3,225.69	3,153.03	72.66	44.392		
13,800.00	12,086.51	13,900.27	12,065.13	52.08	53.16	89.16	-1,803.48	-3,068.99	3,225.81	3,151.81	73.99	43.595		
13,900.00	12,088.47	14,000.27	12,066.43	53.04	54.14	89.15	-1,903.47	-3,068.12	3,225.92	3,150.55	75.37	42.800		
14,000.00	12,090.42	14,100.26	12,067.73	54.04	55.15	89.14	-2,003.45	-3,067.24	3,226.03	3,149.24	76.80	42.007		
14,100.00	12,092.38	14,200.26	12,069.03	55.07	56.19	89.13	-2,103.44	-3,066.37	3,226.15	3,147.88	78.27	41.220		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kasten Fed Com - Bus Driver Fed Com 702H - OH - Plan #2		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	12,094.34	14,300.26	12,070.33	56.13	57.25	89.12	-2,203.42	-3,065.49	3,226.26	3,146.48	79.78	40.441					
14,300.00	12,096.30	14,400.26	12,071.63	57.21	58.35	89.10	-2,303.41	-3,064.62	3,226.37	3,145.05	81.33	39.672					
14,400.00	12,098.25	14,500.26	12,072.93	58.33	59.47	89.09	-2,403.39	-3,063.74	3,226.49	3,143.58	82.91	38.914					
14,500.00	12,100.21	14,600.25	12,074.23	59.46	60.62	89.08	-2,503.38	-3,062.87	3,226.60	3,142.07	84.53	38.169					
14,600.00	12,102.17	14,700.25	12,075.53	60.63	61.79	89.07	-2,603.36	-3,061.99	3,226.72	3,140.53	86.19	37.438					
14,700.00	12,104.12	14,800.25	12,076.83	61.81	62.98	89.06	-2,703.35	-3,061.12	3,226.83	3,138.96	87.87	36.722					
14,800.00	12,106.08	14,900.25	12,078.13	63.01	64.19	89.05	-2,803.33	-3,060.24	3,226.95	3,137.36	89.59	36.020					
14,900.00	12,108.04	15,000.24	12,079.44	64.24	65.42	89.04	-2,903.32	-3,059.36	3,227.06	3,135.73	91.33	35.334					
15,000.00	12,110.00	15,100.24	12,080.74	65.48	66.66	89.02	-3,003.31	-3,058.49	3,227.18	3,134.08	93.10	34.665					
15,100.00	12,111.95	15,200.24	12,082.04	66.74	67.93	89.01	-3,103.29	-3,057.61	3,227.29	3,132.40	94.89	34.011					
15,200.00	12,113.91	15,300.24	12,083.34	68.02	69.21	89.00	-3,203.28	-3,056.74	3,227.41	3,130.70	96.71	33.374					
15,300.00	12,115.87	15,400.24	12,084.64	69.32	70.51	88.99	-3,303.26	-3,055.86	3,227.52	3,128.98	98.54	32.752					
15,400.00	12,117.83	15,500.23	12,085.94	70.63	71.82	88.98	-3,403.25	-3,054.99	3,227.64	3,127.23	100.40	32.147					
15,500.00	12,119.78	15,600.23	12,087.24	71.95	73.14	88.97	-3,503.23	-3,054.11	3,227.75	3,125.47	102.28	31.558					
15,600.00	12,121.74	15,700.23	12,088.54	73.29	74.48	88.95	-3,603.22	-3,053.24	3,227.87	3,123.69	104.18	30.985					
15,700.00	12,123.70	15,800.23	12,089.84	74.64	75.83	88.94	-3,703.20	-3,052.36	3,227.98	3,121.89	106.09	30.427					
15,800.00	12,125.65	15,900.22	12,091.14	76.00	77.20	88.93	-3,803.19	-3,051.49	3,228.10	3,120.08	108.02	29.884					
15,900.00	12,127.61	16,000.22	12,092.44	77.37	78.57	88.92	-3,903.18	-3,050.61	3,228.22	3,118.25	109.97	29.356					
16,000.00	12,129.57	16,100.22	12,093.74	78.75	79.95	88.91	-4,003.16	-3,049.73	3,228.33	3,116.40	111.93	28.843					
16,100.00	12,131.53	16,200.22	12,095.04	80.15	81.35	88.90	-4,103.15	-3,048.86	3,228.45	3,114.54	113.91	28.343					
16,200.00	12,133.48	16,300.22	12,096.34	81.55	82.75	88.88	-4,203.13	-3,047.98	3,228.56	3,112.67	115.89	27.858					
16,300.00	12,135.44	16,400.21	12,097.64	82.96	84.16	88.87	-4,303.12	-3,047.11	3,228.68	3,110.79	117.90	27.386					
16,400.00	12,137.40	16,500.21	12,098.95	84.38	85.58	88.86	-4,403.10	-3,046.23	3,228.80	3,108.89	119.91	26.927					
16,500.00	12,139.36	16,600.21	12,100.25	85.81	87.01	88.85	-4,503.09	-3,045.36	3,228.91	3,106.98	121.94	26.481					
16,600.00	12,141.31	16,700.21	12,101.55	87.25	88.45	88.84	-4,603.07	-3,044.48	3,229.03	3,105.06	123.97	26.047					
16,700.00	12,143.27	16,800.20	12,102.85	88.70	89.89	88.83	-4,703.06	-3,043.61	3,229.15	3,103.13	126.02	25.625					
16,800.00	12,145.23	16,900.20	12,104.15	90.15	91.35	88.81	-4,803.04	-3,042.73	3,229.27	3,101.19	128.07	25.214					
16,900.00	12,147.18	17,000.20	12,105.45	91.61	92.80	88.80	-4,903.03	-3,041.86	3,229.38	3,099.24	130.14	24.815					
17,000.00	12,149.14	17,100.20	12,106.75	93.07	94.27	88.79	-5,003.02	-3,040.98	3,229.50	3,097.29	132.22	24.426					
17,100.00	12,151.10	17,200.20	12,108.05	94.54	95.74	88.78	-5,103.00	-3,040.10	3,229.62	3,095.32	134.30	24.048					
17,200.00	12,153.06	17,300.19	12,109.35	96.02	97.21	88.77	-5,202.99	-3,039.23	3,229.74	3,093.35	136.39	23.680					
17,300.00	12,155.01	17,400.19	12,110.65	97.50	98.70	88.76	-5,302.97	-3,038.35	3,229.85	3,091.36	138.49	23.322					
17,400.00	12,156.97	17,500.19	12,111.95	98.99	100.18	88.74	-5,402.96	-3,037.48	3,229.97	3,089.37	140.60	22.973					
17,500.00	12,158.93	17,600.19	12,113.25	100.48	101.68	88.73	-5,502.94	-3,036.60	3,230.09	3,087.38	142.71	22.634					
17,600.00	12,160.89	17,700.19	12,114.55	101.98	103.17	88.72	-5,602.93	-3,035.73	3,230.21	3,085.38	144.83	22.303					
17,700.00	12,162.84	17,800.18	12,115.85	103.49	104.68	88.71	-5,702.91	-3,034.85	3,230.33	3,083.37	146.96	21.981					
17,800.00	12,164.80	17,900.18	12,117.15	104.99	106.18	88.70	-5,802.90	-3,033.98	3,230.45	3,081.35	149.09	21.667					
17,900.00	12,166.76	18,000.18	12,118.46	106.51	107.69	88.69	-5,902.89	-3,033.10	3,230.56	3,079.33	151.23	21.361					
18,000.00	12,168.71	18,100.18	12,119.76	108.02	109.21	88.68	-6,002.87	-3,032.23	3,230.68	3,077.30	153.38	21.063					
18,100.00	12,170.67	18,200.17	12,121.06	109.54	110.73	88.66	-6,102.86	-3,031.35	3,230.80	3,075.27	155.53	20.773					
18,200.00	12,172.63	18,300.17	12,122.36	111.07	112.25	88.65	-6,202.84	-3,030.48	3,230.92	3,073.24	157.69	20.490					
18,300.00	12,174.59	18,400.17	12,123.66	112.59	113.77	88.64	-6,302.83	-3,029.60	3,231.04	3,071.19	159.85	20.213					
18,400.00	12,176.54	18,500.17	12,124.96	114.12	115.30	88.63	-6,402.81	-3,028.72	3,231.16	3,069.15	162.01	19.944					
18,500.00	12,178.50	18,600.17	12,126.26	115.66	116.84	88.62	-6,502.80	-3,027.85	3,231.28	3,067.10	164.18	19.681					
18,600.00	12,180.46	18,700.16	12,127.56	117.20	118.37	88.61	-6,602.78	-3,026.97	3,231.40	3,065.04	166.36	19.424					
18,700.00	12,182.42	18,800.16	12,128.86	118.74	119.91	88.59	-6,702.77	-3,026.10	3,231.52	3,062.98	168.54	19.174					
18,800.00	12,184.37	18,900.16	12,130.16	120.28	121.45	88.58	-6,802.75	-3,025.22	3,231.64	3,060.92	170.72	18.929					
18,900.00	12,186.33	19,000.16	12,131.46	121.83	123.00	88.57	-6,902.74	-3,024.35	3,231.76	3,058.85	172.91	18.690					
19,000.00	12,188.29	19,100.15	12,132.76	123.38	124.55	88.56	-7,002.73	-3,023.47	3,231.88	3,056.78	175.10	18.457					
19,100.00	12,190.24	19,200.15	12,134.06	124.93	126.10	88.55	-7,102.71	-3,022.60	3,232.00	3,054.70	177.30	18.229					
19,200.00	12,192.20	19,300.15	12,135.36	126.48	127.65	88.54	-7,202.70	-3,021.72	3,232.12	3,052.63	179.49	18.007					
19,300.00	12,194.16	19,400.15	12,136.66	128.04	129.21	88.52	-7,302.68	-3,020.85	3,232.24	3,050.54	181.70	17.789					

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,400.00	12,196.12	19,500.15	12,137.97	129.60	130.76	88.51	-7,402.67	-3,019.97	3,232.36	3,048.46	183.90	17.577		
19,500.00	12,198.07	19,600.14	12,139.27	131.16	132.32	88.50	-7,502.65	-3,019.09	3,232.48	3,046.37	186.11	17.369		
19,600.00	12,200.03	19,700.14	12,140.57	132.72	133.89	88.49	-7,602.64	-3,018.22	3,232.60	3,044.28	188.32	17.165		
19,700.00	12,201.99	19,800.14	12,141.87	134.29	135.45	88.48	-7,702.62	-3,017.34	3,232.72	3,042.19	190.54	16.967		
19,800.00	12,203.95	19,900.14	12,143.17	135.86	137.02	88.47	-7,802.61	-3,016.47	3,232.85	3,040.09	192.75	16.772		
19,900.00	12,205.90	20,000.13	12,144.47	137.43	138.59	88.45	-7,902.60	-3,015.59	3,232.97	3,037.99	194.97	16.582		
20,000.00	12,207.86	20,100.13	12,145.77	139.00	140.16	88.44	-8,002.58	-3,014.72	3,233.09	3,035.89	197.20	16.395		
20,100.00	12,209.82	20,200.13	12,147.07	140.57	141.73	88.43	-8,102.57	-3,013.84	3,233.21	3,033.79	199.42	16.213		
20,200.00	12,211.77	20,300.13	12,148.37	142.15	143.30	88.42	-8,202.55	-3,012.97	3,233.33	3,031.68	201.65	16.035		
20,300.00	12,213.73	20,400.13	12,149.67	143.72	144.88	88.41	-8,302.54	-3,012.09	3,233.45	3,029.58	203.88	15.860		
20,400.00	12,215.69	20,500.12	12,150.97	145.30	146.46	88.40	-8,402.52	-3,011.22	3,233.58	3,027.47	206.11	15.689		
20,500.00	12,217.65	20,600.12	12,152.27	146.88	148.04	88.39	-8,502.51	-3,010.34	3,233.70	3,025.35	208.35	15.521		
20,600.00	12,219.60	20,700.12	12,153.57	148.47	149.62	88.37	-8,602.49	-3,009.46	3,233.82	3,023.24	210.58	15.357		
20,700.00	12,221.56	20,800.12	12,154.87	150.05	151.20	88.36	-8,702.48	-3,008.59	3,233.94	3,021.12	212.82	15.196		
20,800.00	12,223.52	20,900.11	12,156.17	151.63	152.78	88.35	-8,802.46	-3,007.71	3,234.07	3,019.00	215.06	15.038		
20,900.00	12,225.48	21,000.11	12,157.48	153.22	154.37	88.34	-8,902.45	-3,006.84	3,234.19	3,016.88	217.30	14.883		
21,000.00	12,227.43	21,100.11	12,158.78	154.81	155.95	88.33	-9,002.44	-3,005.96	3,234.31	3,014.76	219.55	14.732		
21,100.00	12,229.39	21,200.11	12,160.08	156.40	157.54	88.32	-9,102.42	-3,005.09	3,234.43	3,012.64	221.80	14.583		
21,200.00	12,231.35	21,300.11	12,161.38	157.99	159.13	88.30	-9,202.41	-3,004.21	3,234.56	3,010.51	224.04	14.437		
21,300.00	12,233.30	21,400.10	12,162.68	159.58	160.72	88.29	-9,302.39	-3,003.34	3,234.68	3,008.39	226.29	14.294		
21,400.00	12,235.26	21,500.10	12,163.98	161.17	162.31	88.28	-9,402.38	-3,002.46	3,234.80	3,006.26	228.55	14.154		
21,500.00	12,237.22	21,600.10	12,165.28	162.77	163.91	88.27	-9,502.36	-3,001.59	3,234.93	3,004.13	230.80	14.016		
21,600.00	12,239.18	21,700.10	12,166.58	164.36	165.50	88.26	-9,602.35	-3,000.71	3,235.05	3,002.00	233.06	13.881		
21,700.00	12,241.13	21,800.09	12,167.88	165.96	167.10	88.25	-9,702.33	-2,999.83	3,235.17	2,999.86	235.31	13.748		
21,800.00	12,243.09	21,900.09	12,169.18	167.56	168.69	88.23	-9,802.32	-2,998.96	3,235.30	2,997.73	237.57	13.618		
21,900.00	12,245.05	22,000.09	12,170.48	169.16	170.29	88.22	-9,902.31	-2,998.08	3,235.42	2,995.59	239.83	13.491		
22,000.00	12,247.01	22,100.09	12,171.78	170.76	171.89	88.21	-10,002.29	-2,997.21	3,235.55	2,993.46	242.09	13.365		
22,100.00	12,248.96	22,200.09	12,173.08	172.36	173.49	88.20	-10,102.28	-2,996.33	3,235.67	2,991.32	244.35	13.242		
22,200.00	12,250.92	22,300.08	12,174.38	173.96	175.09	88.19	-10,202.26	-2,995.46	3,235.79	2,989.18	246.61	13.121		
22,300.00	12,252.88	22,400.08	12,175.69	175.56	176.69	88.18	-10,302.25	-2,994.58	3,235.92	2,987.04	248.88	13.002		
22,400.00	12,254.83	22,500.08	12,176.99	177.16	178.29	88.17	-10,402.23	-2,993.71	3,236.04	2,984.90	251.14	12.885		
22,500.00	12,256.79	22,600.08	12,178.29	178.77	179.89	88.15	-10,502.22	-2,992.83	3,236.17	2,982.76	253.41	12.770		
22,600.00	12,258.75	22,700.07	12,179.59	180.37	181.50	88.14	-10,602.20	-2,991.96	3,236.29	2,980.61	255.68	12.658		
22,695.11	12,260.61	22,795.19	12,180.82	181.90	183.03	88.13	-10,697.30	-2,991.12	3,236.41	2,978.57	257.84	12.552 SF		



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	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	24.20	24.20	0.00	0.03	-89.00	40.33	-2,318.90	2,319.25					
100.00	100.00	124.20	124.20	0.14	0.23	-89.00	40.33	-2,318.90	2,319.25	2,318.98	0.27	8,631.853		
200.00	200.00	224.20	224.20	0.50	0.59	-89.00	40.33	-2,318.90	2,319.25	2,318.48	0.77	3,008.152		
300.00	300.00	324.20	324.20	0.86	0.95	-89.00	40.33	-2,318.90	2,319.25	2,317.97	1.28	1,816.208		
400.00	400.00	424.20	424.20	1.22	1.30	-89.00	40.33	-2,318.90	2,319.25	2,317.47	1.78	1,300.385		
500.00	500.00	524.20	524.20	1.58	1.66	-89.00	40.33	-2,318.90	2,319.25	2,316.96	2.29	1,012.671		
600.00	600.00	624.20	624.20	1.93	2.02	-89.00	40.33	-2,318.90	2,319.25	2,316.45	2.80	829.181		
700.00	700.00	724.20	724.20	2.29	2.38	-89.00	40.33	-2,318.90	2,319.25	2,315.95	3.30	701.976		
800.00	800.00	824.20	824.20	2.65	2.74	-89.00	40.33	-2,318.90	2,319.25	2,315.44	3.81	608.604		
900.00	900.00	924.20	924.20	3.01	3.10	-89.00	40.33	-2,318.90	2,319.25	2,314.93	4.32	537.154		
1,000.00	1,000.00	1,024.20	1,024.20	3.37	3.45	-89.00	40.33	-2,318.90	2,319.25	2,314.43	4.82	480.716		
1,100.00	1,100.00	1,124.20	1,124.20	3.73	3.81	-89.00	40.33	-2,318.90	2,319.25	2,313.92	5.33	435.009		
1,200.00	1,200.00	1,224.20	1,224.20	4.08	4.17	-89.00	40.33	-2,318.90	2,319.25	2,313.41	5.84	397.239		
1,300.00	1,300.00	1,324.20	1,324.20	4.44	4.53	-89.00	40.33	-2,318.90	2,319.25	2,312.91	6.35	365.504		
1,400.00	1,400.00	1,424.20	1,424.20	4.80	4.89	-89.00	40.33	-2,318.90	2,319.25	2,312.40	6.85	338.464		
1,500.00	1,500.00	1,524.20	1,524.20	5.16	5.25	-89.00	40.33	-2,318.90	2,319.25	2,311.89	7.36	315.149		
1,600.00	1,600.00	1,624.20	1,624.20	5.52	5.61	-89.00	40.33	-2,318.90	2,319.25	2,311.38	7.87	294.839		
1,700.00	1,700.00	1,724.20	1,724.20	5.88	5.96	-89.00	40.33	-2,318.90	2,319.25	2,310.88	8.37	276.988		
1,800.00	1,800.00	1,824.20	1,824.20	6.24	6.32	-89.00	40.33	-2,318.90	2,319.25	2,310.37	8.88	261.176		
1,900.00	1,900.00	1,924.20	1,924.20	6.59	6.68	-89.00	40.33	-2,318.90	2,319.25	2,309.86	9.39	247.071		
2,000.00	2,000.00	2,024.20	2,024.20	6.95	7.04	-89.00	40.33	-2,318.90	2,319.25	2,309.36	9.89	234.411		
2,100.00	2,100.00	2,124.20	2,124.20	7.31	7.40	-89.00	40.33	-2,318.90	2,319.25	2,308.85	10.40	222.986		
2,200.00	2,200.00	2,224.20	2,224.20	7.67	7.76	-89.00	40.33	-2,318.90	2,319.25	2,308.34	10.91	212.623		
2,300.00	2,300.00	2,324.20	2,324.20	8.03	8.11	-89.00	40.33	-2,318.90	2,319.25	2,307.84	11.41	203.180		
2,400.00	2,400.00	2,424.20	2,424.20	8.39	8.47	-89.00	40.33	-2,318.90	2,319.25	2,307.33	11.92	194.540		
2,500.00	2,500.00	2,524.20	2,524.20	8.74	8.83	-89.00	40.33	-2,318.90	2,319.25	2,306.82	12.43	186.605		
2,600.00	2,600.00	2,624.20	2,624.20	9.10	9.19	-89.00	40.33	-2,318.90	2,319.25	2,306.32	12.94	179.292		
2,700.00	2,700.00	2,724.20	2,724.20	9.46	9.55	-89.00	40.33	-2,318.90	2,319.25	2,305.81	13.44	172.530		
2,800.00	2,800.00	2,824.20	2,824.20	9.82	9.91	-89.00	40.33	-2,318.90	2,319.25	2,305.30	13.95	166.260		
2,900.00	2,900.00	2,924.20	2,924.20	10.18	10.27	-89.00	40.33	-2,318.90	2,319.25	2,304.79	14.46	160.430		
3,000.00	3,000.00	3,024.20	3,024.20	10.54	10.62	-89.00	40.33	-2,318.90	2,319.25	2,304.29	14.96	154.995		
3,100.00	3,100.00	3,124.20	3,124.20	10.90	10.98	-89.00	40.33	-2,318.90	2,319.25	2,303.78	15.47	149.916		
3,200.00	3,200.00	3,224.20	3,224.20	11.25	11.34	-89.00	40.33	-2,318.90	2,319.25	2,303.27	15.98	145.159		
3,300.00	3,300.00	3,324.20	3,324.20	11.61	11.70	-89.00	40.33	-2,318.90	2,319.25	2,302.77	16.48	140.695		
3,400.00	3,400.00	3,424.20	3,424.20	11.97	12.06	-89.00	40.33	-2,318.90	2,319.25	2,302.26	16.99	136.497		
3,500.00	3,500.00	3,524.20	3,524.20	12.33	12.42	-89.00	40.33	-2,318.90	2,319.25	2,301.75	17.50	132.542		
3,600.00	3,600.00	3,624.20	3,624.20	12.69	12.77	-89.00	40.33	-2,318.90	2,319.25	2,301.25	18.01	128.811		
3,700.00	3,700.00	3,724.20	3,724.20	13.05	13.13	-89.00	40.33	-2,318.90	2,319.25	2,300.74	18.51	125.283		
3,800.00	3,800.00	3,824.20	3,824.20	13.41	13.49	-89.00	40.33	-2,318.90	2,319.25	2,300.23	19.02	121.944		
3,900.00	3,900.00	3,924.20	3,924.20	13.76	13.85	-89.00	40.33	-2,318.90	2,319.25	2,299.72	19.53	118.778		
4,000.00	4,000.00	4,024.20	4,024.20	14.12	14.21	-89.00	40.33	-2,318.90	2,319.25	2,299.22	20.03	115.772		
4,100.00	4,100.00	4,124.20	4,124.20	14.48	14.57	-89.00	40.33	-2,318.90	2,319.25	2,298.71	20.54	112.914		
4,200.00	4,200.00	4,224.20	4,224.20	14.84	14.93	-89.00	40.33	-2,318.90	2,319.25	2,298.20	21.05	110.195		
4,300.00	4,300.00	4,324.20	4,324.20	15.20	15.28	-89.00	40.33	-2,318.90	2,319.25	2,297.70	21.55	107.603		
4,400.00	4,400.00	4,424.20	4,424.20	15.56	15.64	-89.00	40.33	-2,318.90	2,319.25	2,297.19	22.06	105.130		
4,500.00	4,500.00	4,558.41	4,558.41	15.91	16.12	-89.00	40.44	-2,318.47	2,319.07	2,296.42	22.65	102.388		
4,600.00	4,599.99	4,799.35	4,799.05	16.27	16.96	-123.45	43.22	-2,307.54	2,315.27	2,291.83	23.44	98.766		
4,700.00	4,699.91	5,038.73	5,036.94	16.63	17.80	-123.58	49.68	-2,282.14	2,306.86	2,282.70	24.16	95.493		
4,800.00	4,799.69	5,135.09	5,132.36	16.98	18.14	-123.75	52.99	-2,269.15	2,297.02	2,272.38	24.64	93.206		
4,899.76	4,899.04	5,234.42	5,230.73	17.34	18.50	-123.95	56.40	-2,255.75	2,288.65	2,263.52	25.14	91.050		
5,000.00	4,998.72	5,334.23	5,329.57	17.69	18.86	-124.08	59.82	-2,242.29	2,280.98	2,255.35	25.63	88.992		
5,100.00	5,098.18	5,433.80	5,428.18	18.05	19.22	-124.21	63.24	-2,228.86	2,273.34	2,247.21	26.13	87.011		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	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	5,197.63	5,533.38	5,526.78	18.41	19.58	-124.34	66.66	-2,215.43	2,265.71	2,239.08	26.62	85.100		
5,300.00	5,297.08	5,632.96	5,625.39	18.77	19.95	-124.47	70.08	-2,202.00	2,258.09	2,230.96	27.12	83.254		
5,400.00	5,396.53	5,732.54	5,724.00	19.13	20.32	-124.60	73.49	-2,188.57	2,250.48	2,222.86	27.62	81.473		
5,500.00	5,495.99	5,832.11	5,822.61	19.50	20.69	-124.73	76.91	-2,175.14	2,242.88	2,214.76	28.12	79.751		
5,600.00	5,595.44	5,931.69	5,921.22	19.86	21.06	-124.86	80.33	-2,161.71	2,235.30	2,206.67	28.63	78.087		
5,700.00	5,694.89	6,031.27	6,019.82	20.22	21.44	-125.00	83.75	-2,148.28	2,227.72	2,198.60	29.13	76.478		
5,800.00	5,794.34	6,130.84	6,118.43	20.59	21.81	-125.13	87.16	-2,134.85	2,220.16	2,190.53	29.63	74.922		
5,900.00	5,893.80	6,230.42	6,217.04	20.96	22.19	-125.27	90.58	-2,121.41	2,212.62	2,182.48	30.14	73.415		
6,000.00	5,993.25	6,330.00	6,315.65	21.33	22.57	-125.40	94.00	-2,107.98	2,205.08	2,174.44	30.64	71.957		
6,100.00	6,092.70	6,429.57	6,414.25	21.69	22.95	-125.54	97.42	-2,094.55	2,197.56	2,166.41	31.15	70.545		
6,200.00	6,192.16	6,529.15	6,512.86	22.06	23.33	-125.68	100.83	-2,081.12	2,190.05	2,158.39	31.66	69.176		
6,300.00	6,291.61	6,628.73	6,611.47	22.43	23.71	-125.82	104.25	-2,067.69	2,182.55	2,150.38	32.17	67.850		
6,400.00	6,391.06	6,728.31	6,710.08	22.80	24.09	-125.96	107.67	-2,054.26	2,175.07	2,142.39	32.68	66.563		
6,500.00	6,490.51	6,827.88	6,808.69	23.18	24.48	-126.10	111.09	-2,040.83	2,167.59	2,134.41	33.19	65.316		
6,600.00	6,589.97	6,927.46	6,907.29	23.55	24.87	-126.24	114.50	-2,027.40	2,160.14	2,126.44	33.70	64.105		
6,700.00	6,689.42	7,027.04	7,005.90	23.92	25.25	-126.39	117.92	-2,013.97	2,152.69	2,118.48	34.21	62.929		
6,800.00	6,788.87	7,126.61	7,104.51	24.30	25.64	-126.53	121.34	-2,000.54	2,145.26	2,110.54	34.72	61.788		
6,820.20	6,808.96	7,146.73	7,124.43	24.37	25.72	-126.56	122.03	-1,997.82	2,143.76	2,108.94	34.82	61.561		
6,900.00	6,888.41	7,226.18	7,203.11	24.67	26.03	-126.58	124.76	-1,987.11	2,137.35	2,102.12	35.23	60.666		
7,000.00	6,988.15	7,325.70	7,301.66	25.04	26.42	-126.54	128.17	-1,973.69	2,127.92	2,092.18	35.74	59.537		
7,100.00	7,088.05	7,425.09	7,400.08	25.40	26.81	-126.42	131.58	-1,960.28	2,116.94	2,080.69	36.25	58.401		
7,200.00	7,188.03	7,524.29	7,498.32	25.75	27.20	-126.23	134.99	-1,946.90	2,104.42	2,067.67	36.75	57.259		
7,219.97	7,208.00	7,544.07	7,517.90	25.83	27.28	-91.77	135.67	-1,944.23	2,101.74	2,064.88	36.85	57.030		
7,300.00	7,288.03	7,623.32	7,596.38	26.11	27.59	-91.70	138.39	-1,933.54	2,090.86	2,053.60	37.26	56.122		
7,400.00	7,388.03	7,722.35	7,694.45	26.46	27.98	-91.62	141.78	-1,920.19	2,077.27	2,039.51	37.76	55.014		
7,500.00	7,488.03	7,821.37	7,792.51	26.82	28.37	-91.54	145.18	-1,906.83	2,063.69	2,025.42	38.26	53.935		
7,600.00	7,588.03	7,920.40	7,890.57	27.17	28.77	-91.45	148.58	-1,893.47	2,050.11	2,011.34	38.77	52.884		
7,700.00	7,688.03	8,019.43	7,988.64	27.53	29.16	-91.36	151.98	-1,880.12	2,036.53	1,997.26	39.27	51.859		
7,800.00	7,788.03	8,118.46	8,086.70	27.88	29.55	-91.28	155.38	-1,866.76	2,022.96	1,983.19	39.77	50.860		
7,900.00	7,888.03	8,217.48	8,184.76	28.24	29.95	-91.19	158.78	-1,853.40	2,009.40	1,969.12	40.28	49.886		
8,000.00	7,988.03	8,316.51	8,282.82	28.59	30.34	-91.10	162.18	-1,840.05	1,995.84	1,955.05	40.78	48.936		
8,100.00	8,088.03	8,415.54	8,380.89	28.95	30.74	-91.00	165.57	-1,826.69	1,982.28	1,940.99	41.29	48.009		
8,200.00	8,188.03	8,514.56	8,478.95	29.30	31.13	-90.91	168.97	-1,813.33	1,968.73	1,926.94	41.80	47.104		
8,300.00	8,288.03	8,613.59	8,577.01	29.66	31.53	-90.82	172.37	-1,799.98	1,955.19	1,912.89	42.30	46.221		
8,400.00	8,388.03	8,712.62	8,675.08	30.01	31.93	-90.72	175.77	-1,786.62	1,941.65	1,898.84	42.81	45.358		
8,500.00	8,488.03	8,811.64	8,773.14	30.37	32.33	-90.62	179.17	-1,773.27	1,928.11	1,884.80	43.31	44.515		
8,600.00	8,588.03	8,910.67	8,871.20	30.72	32.72	-90.53	182.57	-1,759.91	1,914.58	1,870.76	43.82	43.691		
8,700.00	8,688.03	9,009.70	8,969.27	31.08	33.12	-90.43	185.97	-1,746.55	1,901.06	1,856.73	44.33	42.887		
8,800.00	8,788.03	9,108.72	9,067.33	31.43	33.52	-90.33	189.36	-1,733.20	1,887.54	1,842.71	44.83	42.100		
8,900.00	8,888.03	9,207.75	9,165.39	31.79	33.92	-90.22	192.76	-1,719.84	1,874.03	1,828.69	45.34	41.331		
9,000.00	8,988.03	9,306.78	9,263.45	32.14	34.32	-90.12	196.16	-1,706.48	1,860.53	1,814.68	45.85	40.579		
9,100.00	9,088.03	9,405.80	9,361.52	32.50	34.72	-90.01	199.56	-1,693.13	1,847.03	1,800.67	46.36	39.843		
9,200.00	9,188.03	9,504.83	9,459.58	32.86	35.12	-89.91	202.96	-1,679.77	1,833.53	1,786.67	46.87	39.123		
9,300.00	9,288.03	9,603.86	9,557.64	33.21	35.52	-89.80	206.36	-1,666.41	1,820.05	1,772.67	47.37	38.418		
9,400.00	9,388.03	9,702.88	9,655.71	33.57	35.93	-89.69	209.76	-1,653.06	1,806.57	1,758.68	47.88	37.729		
9,500.00	9,488.03	9,801.91	9,753.77	33.92	36.33	-89.58	213.15	-1,639.70	1,793.09	1,744.70	48.39	37.054		
9,600.00	9,588.03	9,900.94	9,851.83	34.28	36.73	-89.46	216.55	-1,626.34	1,779.62	1,730.72	48.90	36.392		
9,700.00	9,688.03	9,999.96	9,949.90	34.63	37.13	-89.35	219.95	-1,612.99	1,766.16	1,716.75	49.41	35.745		
9,800.00	9,788.03	10,098.99	10,047.96	34.99	37.54	-89.23	223.35	-1,599.63	1,752.71	1,702.79	49.92	35.110		
9,900.00	9,888.03	10,198.02	10,146.02	35.35	37.94	-89.11	226.75	-1,586.27	1,739.27	1,688.84	50.43	34.489		
10,000.00	9,988.03	10,297.04	10,244.08	35.70	38.34	-88.99	230.15	-1,572.92	1,725.83	1,674.89	50.94	33.880		
10,100.00	10,088.03	10,395.10	10,341.14	36.06	38.74	-88.87	233.55	-1,559.56	1,712.39	1,661.45	51.45	33.281		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	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	10,188.03	10,444.50	10,390.34	36.42	38.93	-88.82	234.76	-1,554.78	1,701.48	1,649.57	51.91	32.776		
10,300.00	10,288.03	10,500.00	10,445.55	36.77	39.15	-88.77	236.15	-1,549.33	1,691.97	1,639.62	52.36	32.316		
10,400.00	10,388.03	10,584.07	10,529.33	37.13	39.47	-88.71	237.87	-1,542.55	1,684.06	1,631.22	52.84	31.874		
10,500.00	10,488.03	10,654.16	10,599.28	37.48	39.72	-88.67	238.96	-1,538.27	1,677.98	1,624.71	53.28	31.494		
10,600.00	10,588.03	10,724.39	10,669.44	37.84	39.98	-88.64	239.74	-1,535.23	1,673.68	1,619.97	53.71	31.161		
10,700.00	10,688.03	10,800.00	10,745.02	38.20	40.24	-88.62	240.21	-1,533.36	1,671.16	1,617.02	54.15	30.864		
10,800.00	10,788.03	10,867.21	10,812.23	38.55	40.47	-88.62	240.33	-1,532.90	1,670.39	1,615.84	54.54	30.625		
10,900.00	10,888.03	10,967.21	10,912.23	38.91	40.80	-88.62	240.33	-1,532.90	1,670.39	1,615.35	55.04	30.348		
11,000.00	10,988.03	11,067.21	11,012.23	39.27	41.14	-88.62	240.33	-1,532.90	1,670.39	1,614.85	55.54	30.076		
11,100.00	11,088.03	11,167.21	11,112.23	39.62	41.48	-88.62	240.33	-1,532.90	1,670.39	1,614.35	56.04	29.808		
11,200.00	11,188.03	11,267.21	11,212.23	39.98	41.81	-88.62	240.33	-1,532.90	1,670.39	1,613.85	56.54	29.545		
11,300.00	11,288.03	11,372.05	11,317.00	40.34	42.16	-88.69	238.14	-1,532.88	1,670.32	1,613.28	57.04	29.282		
11,400.00	11,388.03	11,479.08	11,422.14	40.69	42.47	-89.35	218.93	-1,532.69	1,669.83	1,612.31	57.52	29.031		
11,497.97	11,486.00	11,574.19	11,511.15	41.04	42.71	-90.49	185.71	-1,532.37	1,669.43	1,611.49	57.93	28.816		
11,500.00	11,488.03	11,576.04	11,512.81	41.05	42.72	90.04	184.92	-1,532.36	1,669.43	1,611.49	57.94	28.812		
11,503.17	11,491.21	11,578.91	11,515.41	41.06	42.72	90.00	183.68	-1,532.35	1,669.43	1,611.47	57.95	28.807 CC		
11,550.00	11,537.96	11,620.66	11,552.33	41.21	42.82	89.39	164.23	-1,532.16	1,669.54	1,611.42	58.12	28.726		
11,600.00	11,587.49	11,663.94	11,589.02	41.36	42.91	88.74	141.28	-1,531.93	1,669.91	1,611.63	58.29	28.650		
11,650.00	11,636.26	11,706.06	11,622.95	41.51	42.99	88.10	116.35	-1,531.69	1,670.52	1,612.08	58.44	28.584		
11,700.00	11,683.87	11,750.00	11,656.31	41.65	43.07	87.43	87.76	-1,531.41	1,671.33	1,612.74	58.59	28.525		
11,750.00	11,729.98	11,787.31	11,682.84	41.78	43.12	86.86	61.54	-1,531.15	1,672.32	1,613.61	58.71	28.482		
11,800.00	11,774.24	11,826.68	11,708.92	41.90	43.18	86.27	32.06	-1,530.87	1,673.46	1,614.62	58.83	28.444		
11,850.00	11,816.30	11,865.35	11,732.50	42.01	43.23	85.70	1.43	-1,530.57	1,674.71	1,615.77	58.94	28.415		
11,900.00	11,855.85	11,900.00	11,751.84	42.11	43.28	85.19	-27.32	-1,530.29	1,676.06	1,617.03	59.03	28.395		
11,950.00	11,892.58	11,940.89	11,772.38	42.20	43.32	84.64	-62.67	-1,529.94	1,677.44	1,618.31	59.13	28.370		
12,000.00	11,926.22	11,977.92	11,788.76	42.29	43.37	84.15	-95.86	-1,529.62	1,678.85	1,619.63	59.21	28.352		
12,050.00	11,956.50	12,014.52	11,802.81	42.39	43.41	83.69	-129.66	-1,529.29	1,680.24	1,620.94	59.30	28.336		
12,100.00	11,983.21	12,050.00	11,814.34	42.50	43.46	83.28	-163.20	-1,528.96	1,681.59	1,622.21	59.38	28.320		
12,150.00	12,006.13	12,086.69	11,824.06	42.61	43.51	82.90	-198.57	-1,528.62	1,682.86	1,623.40	59.47	28.299		
12,200.00	12,025.10	12,122.35	11,831.32	42.72	43.56	82.56	-233.47	-1,528.27	1,684.04	1,624.49	59.56	28.276		
12,250.00	12,039.96	12,157.78	11,836.36	42.84	43.62	82.26	-268.54	-1,527.93	1,685.10	1,625.45	59.65	28.249		
12,300.00	12,050.60	12,200.00	11,839.54	42.96	43.70	81.99	-310.63	-1,527.52	1,686.04	1,626.27	59.77	28.208		
12,350.00	12,056.95	12,235.32	11,840.32	43.08	43.78	81.81	-345.94	-1,527.18	1,686.73	1,626.84	59.89	28.164		
12,386.75	12,058.85	12,272.05	11,841.02	43.17	43.87	81.75	-382.65	-1,526.82	1,686.90	1,626.89	60.02	28.107		
12,400.00	12,059.11	12,285.29	11,841.28	43.21	43.91	81.75	-395.90	-1,526.69	1,686.90	1,626.84	60.06	28.085		
12,500.00	12,061.06	12,385.29	11,843.20	43.50	44.21	81.75	-495.88	-1,525.71	1,686.91	1,626.42	60.49	27.888		
12,600.00	12,063.02	12,485.29	11,845.11	43.85	44.58	81.75	-595.85	-1,524.74	1,686.92	1,625.92	61.00	27.656		
12,700.00	12,064.98	12,585.29	11,847.03	44.25	45.01	81.75	-695.83	-1,523.76	1,686.93	1,625.34	61.59	27.390		
12,800.00	12,066.94	12,685.29	11,848.95	44.72	45.50	81.74	-795.81	-1,522.79	1,686.94	1,624.68	62.26	27.094		
12,900.00	12,068.89	12,785.29	11,850.87	45.24	46.06	81.74	-895.78	-1,521.81	1,686.95	1,623.94	63.01	26.772		
13,000.00	12,070.85	12,885.29	11,852.78	45.81	46.66	81.74	-995.76	-1,520.83	1,686.96	1,623.12	63.84	26.425		
13,100.00	12,072.81	12,985.29	11,854.70	46.43	47.32	81.74	-1,095.74	-1,519.86	1,686.97	1,622.23	64.74	26.059		
13,200.00	12,074.77	13,085.29	11,856.62	47.11	48.02	81.74	-1,195.71	-1,518.88	1,686.97	1,621.27	65.71	25.675		
13,300.00	12,076.72	13,185.29	11,858.54	47.83	48.77	81.74	-1,295.69	-1,517.91	1,686.98	1,620.24	66.74	25.277		
13,400.00	12,078.68	13,285.29	11,860.45	48.60	49.56	81.74	-1,395.67	-1,516.93	1,686.99	1,619.16	67.84	24.869		
13,500.00	12,080.64	13,385.29	11,862.37	49.41	50.40	81.73	-1,495.65	-1,515.95	1,687.00	1,618.01	68.99	24.452		
13,600.00	12,082.59	13,485.29	11,864.29	50.26	51.28	81.73	-1,595.62	-1,514.98	1,687.01	1,616.80	70.21	24.029		
13,700.00	12,084.55	13,585.29	11,866.21	51.15	52.19	81.73	-1,695.60	-1,514.00	1,687.02	1,615.54	71.48	23.603		
13,800.00	12,086.51	13,685.29	11,868.12	52.08	53.14	81.73	-1,795.58	-1,513.03	1,687.03	1,614.23	72.80	23.174		
13,900.00	12,088.47	13,785.29	11,870.04	53.04	54.12	81.73	-1,895.55	-1,512.05	1,687.04	1,612.87	74.17	22.747		
14,000.00	12,090.42	13,885.29	11,871.96	54.04	55.14	81.73	-1,995.53	-1,511.07	1,687.04	1,611.46	75.58	22.321		
14,100.00	12,092.38	13,985.29	11,873.88	55.07	56.18	81.73	-2,095.51	-1,510.10	1,687.05	1,610.01	77.04	21.898		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kasten Fed Com - Kasten Fed Com 603H - OH - Plan #2		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	12,094.34	14,085.29	11,875.79	56.13	57.25	81.73	-2,195.48	-1,509.12	1,687.06	1,608.52	78.54	21.480						
14,300.00	12,096.30	14,185.29	11,877.71	57.21	58.35	81.72	-2,295.46	-1,508.15	1,687.07	1,606.99	80.08	21.067						
14,400.00	12,098.25	14,285.29	11,879.63	58.33	59.48	81.72	-2,395.44	-1,507.17	1,687.08	1,605.42	81.66	20.660						
14,500.00	12,100.21	14,385.29	11,881.55	59.46	60.63	81.72	-2,495.41	-1,506.19	1,687.09	1,603.82	83.27	20.261						
14,600.00	12,102.17	14,485.29	11,883.46	60.63	61.80	81.72	-2,595.39	-1,505.22	1,687.10	1,602.19	84.91	19.869						
14,700.00	12,104.12	14,585.29	11,885.38	61.81	63.00	81.72	-2,695.37	-1,504.24	1,687.11	1,600.52	86.59	19.485						
14,800.00	12,106.08	14,685.29	11,887.30	63.01	64.21	81.72	-2,795.34	-1,503.27	1,687.12	1,598.83	88.29	19.109						
14,900.00	12,108.04	14,785.29	11,889.22	64.24	65.45	81.72	-2,895.32	-1,502.29	1,687.12	1,597.10	90.02	18.742						
15,000.00	12,110.00	14,885.29	11,891.13	65.48	66.70	81.72	-2,995.30	-1,501.31	1,687.13	1,595.36	91.78	18.383						
15,100.00	12,111.95	14,985.29	11,893.05	66.74	67.97	81.71	-3,095.27	-1,500.34	1,687.14	1,593.58	93.56	18.033						
15,200.00	12,113.91	15,085.29	11,894.97	68.02	69.25	81.71	-3,195.25	-1,499.36	1,687.15	1,591.79	95.36	17.692						
15,300.00	12,115.87	15,185.29	11,896.89	69.32	70.55	81.71	-3,295.23	-1,498.39	1,687.16	1,589.97	97.19	17.360						
15,400.00	12,117.83	15,285.29	11,898.80	70.63	71.87	81.71	-3,395.21	-1,497.41	1,687.17	1,588.14	99.03	17.036						
15,500.00	12,119.78	15,385.29	11,900.72	71.95	73.20	81.71	-3,495.18	-1,496.43	1,687.18	1,586.28	100.90	16.722						
15,600.00	12,121.74	15,485.29	11,902.64	73.29	74.54	81.71	-3,595.16	-1,495.46	1,687.19	1,584.40	102.78	16.415						
15,700.00	12,123.70	15,585.29	11,904.56	74.64	75.89	81.71	-3,695.14	-1,494.48	1,687.19	1,582.51	104.68	16.117						
15,800.00	12,125.65	15,685.29	11,906.47	76.00	77.26	81.70	-3,795.11	-1,493.51	1,687.20	1,580.60	106.60	15.827						
15,900.00	12,127.61	15,785.29	11,908.39	77.37	78.63	81.70	-3,895.09	-1,492.53	1,687.21	1,578.68	108.53	15.546						
16,000.00	12,129.57	15,885.29	11,910.31	78.75	80.02	81.70	-3,995.07	-1,491.55	1,687.22	1,576.74	110.48	15.272						
16,100.00	12,131.53	15,985.29	11,912.23	80.15	81.42	81.70	-4,095.04	-1,490.58	1,687.23	1,574.79	112.44	15.005						
16,200.00	12,133.48	16,085.29	11,914.14	81.55	82.82	81.70	-4,195.02	-1,489.60	1,687.24	1,572.82	114.41	14.747						
16,300.00	12,135.44	16,185.29	11,916.06	82.96	84.24	81.70	-4,295.00	-1,488.63	1,687.25	1,570.85	116.40	14.495						
16,400.00	12,137.40	16,285.29	11,917.98	84.38	85.66	81.70	-4,394.97	-1,487.65	1,687.26	1,568.86	118.40	14.250						
16,500.00	12,139.36	16,385.29	11,919.90	85.81	87.09	81.70	-4,494.95	-1,486.67	1,687.26	1,566.86	120.41	14.013						
16,600.00	12,141.31	16,485.29	11,921.81	87.25	88.53	81.69	-4,594.93	-1,485.70	1,687.27	1,564.84	122.43	13.781						
16,700.00	12,143.27	16,585.29	11,923.73	88.70	89.98	81.69	-4,694.90	-1,484.72	1,687.28	1,562.82	124.46	13.557						
16,800.00	12,145.23	16,685.29	11,925.65	90.15	91.43	81.69	-4,794.88	-1,483.75	1,687.29	1,560.79	126.50	13.338						
16,900.00	12,147.18	16,785.29	11,927.57	91.61	92.89	81.69	-4,894.86	-1,482.77	1,687.30	1,558.75	128.55	13.125						
17,000.00	12,149.14	16,885.29	11,929.48	93.07	94.36	81.69	-4,994.83	-1,481.79	1,687.31	1,556.70	130.61	12.919						
17,100.00	12,151.10	16,985.29	11,931.40	94.54	95.83	81.69	-5,094.81	-1,480.82	1,687.32	1,554.64	132.68	12.717						
17,200.00	12,153.06	17,085.29	11,933.32	96.02	97.31	81.69	-5,194.79	-1,479.84	1,687.33	1,552.57	134.75	12.522						
17,300.00	12,155.01	17,185.29	11,935.24	97.50	98.79	81.68	-5,294.77	-1,478.87	1,687.34	1,550.50	136.84	12.331						
17,400.00	12,156.97	17,285.29	11,937.16	98.99	100.28	81.68	-5,394.74	-1,477.89	1,687.34	1,548.42	138.93	12.146						
17,500.00	12,158.93	17,385.29	11,939.07	100.48	101.78	81.68	-5,494.72	-1,476.91	1,687.35	1,546.33	141.02	11.965						
17,600.00	12,160.89	17,485.29	11,940.99	101.98	103.28	81.68	-5,594.70	-1,475.94	1,687.36	1,544.23	143.13	11.789						
17,700.00	12,162.84	17,585.29	11,942.91	103.49	104.78	81.68	-5,694.67	-1,474.96	1,687.37	1,542.13	145.24	11.618						
17,800.00	12,164.80	17,685.29	11,944.83	104.99	106.29	81.68	-5,794.65	-1,473.99	1,687.38	1,540.03	147.35	11.451						
17,900.00	12,166.76	17,785.29	11,946.74	106.51	107.80	81.68	-5,894.63	-1,473.01	1,687.39	1,537.91	149.48	11.289						
18,000.00	12,168.71	17,885.29	11,948.66	108.02	109.32	81.68	-5,994.60	-1,472.03	1,687.40	1,535.79	151.60	11.130						
18,100.00	12,170.67	17,985.29	11,950.58	109.54	110.84	81.67	-6,094.58	-1,471.06	1,687.41	1,533.67	153.74	10.976						
18,200.00	12,172.63	18,085.29	11,952.50	111.07	112.36	81.67	-6,194.56	-1,470.08	1,687.42	1,531.54	155.88	10.825						
18,300.00	12,174.59	18,185.29	11,954.41	112.59	113.89	81.67	-6,294.53	-1,469.11	1,687.42	1,529.40	158.02	10.679						
18,400.00	12,176.54	18,285.29	11,956.33	114.12	115.42	81.67	-6,394.51	-1,468.13	1,687.43	1,527.27	160.17	10.535						
18,500.00	12,178.50	18,385.29	11,958.25	115.66	116.95	81.67	-6,494.49	-1,467.15	1,687.44	1,525.12	162.32	10.396						
18,600.00	12,180.46	18,485.29	11,960.17	117.20	118.49	81.67	-6,594.46	-1,466.18	1,687.45	1,522.97	164.48	10.260						
18,700.00	12,182.42	18,585.29	11,962.08	118.74	120.03	81.67	-6,694.44	-1,465.20	1,687.46	1,520.82	166.64	10.127						
18,800.00	12,184.37	18,685.29	11,964.00	120.28	121.58	81.67	-6,794.42	-1,464.23	1,687.47	1,518.67	168.80	9.997						
18,900.00	12,186.33	18,785.29	11,965.92	121.83	123.12	81.66	-6,894.39	-1,463.25	1,687.48	1,516.51	170.97	9.870						
19,000.00	12,188.29	18,885.29	11,967.84	123.38	124.67	81.66	-6,994.37	-1,462.27	1,687.49	1,514.34	173.14	9.746						
19,100.00	12,190.24	18,985.29	11,969.75	124.93	126.22	81.66	-7,094.35	-1,461.30	1,687.49	1,512.18	175.32	9.625						
19,200.00	12,192.20	19,085.29	11,971.67	126.48	127.78	81.66	-7,194.33	-1,460.32	1,687.50	1,510.01	177.50	9.507						
19,300.00	12,194.16	19,185.29	11,973.59	128.04	129.33	81.66	-7,294.30	-1,459.35	1,687.51	1,507.83	179.68	9.392						

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kasten Fed Com - Kasten Fed Com 603H - OH - Plan #2		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	12,196.12	19,285.29	11,975.51	129.60	130.89	81.66	-7,394.28	-1,458.37	1,687.52	1,505.66	181.86	9.279					
19,500.00	12,198.07	19,385.29	11,977.42	131.16	132.45	81.66	-7,494.26	-1,457.39	1,687.53	1,503.48	184.05	9.169					
19,600.00	12,200.03	19,485.29	11,979.34	132.72	134.02	81.65	-7,594.23	-1,456.42	1,687.54	1,501.29	186.24	9.061					
19,700.00	12,201.99	19,585.29	11,981.26	134.29	135.58	81.65	-7,694.21	-1,455.44	1,687.55	1,499.11	188.44	8.955					
19,800.00	12,203.95	19,685.29	11,983.18	135.86	137.15	81.65	-7,794.19	-1,454.47	1,687.56	1,496.92	190.64	8.852					
19,900.00	12,205.90	19,785.29	11,985.09	137.43	138.72	81.65	-7,894.16	-1,453.49	1,687.57	1,494.73	192.84	8.751					
20,000.00	12,207.86	19,885.29	11,987.01	139.00	140.29	81.65	-7,994.14	-1,452.51	1,687.57	1,492.54	195.04	8.653					
20,100.00	12,209.82	19,985.29	11,988.93	140.57	141.87	81.65	-8,094.12	-1,451.54	1,687.58	1,490.34	197.24	8.556					
20,200.00	12,211.77	20,085.29	11,990.85	142.15	143.44	81.65	-8,194.09	-1,450.56	1,687.59	1,488.14	199.45	8.461					
20,300.00	12,213.73	20,185.29	11,992.76	143.72	145.02	81.65	-8,294.07	-1,449.59	1,687.60	1,485.94	201.66	8.368					
20,400.00	12,215.69	20,285.29	11,994.68	145.30	146.60	81.64	-8,394.05	-1,448.61	1,687.61	1,483.74	203.87	8.278					
20,500.00	12,217.65	20,385.29	11,996.60	146.88	148.18	81.64	-8,494.02	-1,447.63	1,687.62	1,481.53	206.09	8.189					
20,600.00	12,219.60	20,485.29	11,998.52	148.47	149.76	81.64	-8,594.00	-1,446.66	1,687.63	1,479.32	208.30	8.102					
20,700.00	12,221.56	20,585.29	12,000.43	150.05	151.34	81.64	-8,693.98	-1,445.68	1,687.64	1,477.11	210.52	8.016					
20,800.00	12,223.52	20,685.29	12,002.35	151.63	152.93	81.64	-8,793.95	-1,444.71	1,687.65	1,474.90	212.74	7.933					
20,900.00	12,225.48	20,785.29	12,004.27	153.22	154.51	81.64	-8,893.93	-1,443.73	1,687.65	1,472.69	214.96	7.851					
21,000.00	12,227.43	20,885.29	12,006.19	154.81	156.10	81.64	-8,993.91	-1,442.75	1,687.66	1,470.47	217.19	7.771					
21,100.00	12,229.39	20,985.29	12,008.10	156.40	157.69	81.63	-9,093.89	-1,441.78	1,687.67	1,468.26	219.41	7.692					
21,200.00	12,231.35	21,085.29	12,010.02	157.99	159.28	81.63	-9,193.86	-1,440.80	1,687.68	1,466.04	221.64	7.614					
21,300.00	12,233.30	21,185.29	12,011.94	159.58	160.87	81.63	-9,293.84	-1,439.83	1,687.69	1,463.82	223.87	7.539					
21,400.00	12,235.26	21,285.29	12,013.86	161.17	162.46	81.63	-9,393.82	-1,438.85	1,687.70	1,461.60	226.10	7.464					
21,500.00	12,237.22	21,385.29	12,015.77	162.77	164.06	81.63	-9,493.79	-1,437.87	1,687.71	1,459.37	228.33	7.391					
21,600.00	12,239.18	21,485.29	12,017.69	164.36	165.65	81.63	-9,593.77	-1,436.90	1,687.72	1,457.15	230.57	7.320					
21,700.00	12,241.13	21,585.29	12,019.61	165.96	167.25	81.63	-9,693.75	-1,435.92	1,687.72	1,454.92	232.80	7.250					
21,800.00	12,243.09	21,685.29	12,021.53	167.56	168.84	81.63	-9,793.72	-1,434.95	1,687.73	1,452.70	235.04	7.181					
21,900.00	12,245.05	21,785.29	12,023.44	169.16	170.44	81.62	-9,893.70	-1,433.97	1,687.74	1,450.47	237.27	7.113					
22,000.00	12,247.01	21,885.29	12,025.36	170.76	172.04	81.62	-9,993.68	-1,432.99	1,687.75	1,448.24	239.51	7.047					
22,100.00	12,248.96	21,985.29	12,027.28	172.36	173.64	81.62	-10,093.65	-1,432.02	1,687.76	1,446.01	241.75	6.981					
22,200.00	12,250.92	22,085.29	12,029.20	173.96	175.24	81.62	-10,193.63	-1,431.04	1,687.77	1,443.77	244.00	6.917					
22,300.00	12,252.88	22,185.29	12,031.12	175.56	176.85	81.62	-10,293.61	-1,430.07	1,687.78	1,441.54	246.24	6.854					
22,400.00	12,254.83	22,285.29	12,033.03	177.16	178.45	81.62	-10,393.58	-1,429.09	1,687.79	1,439.30	248.48	6.792					
22,500.00	12,256.79	22,385.29	12,034.95	178.77	180.05	81.62	-10,493.56	-1,428.11	1,687.80	1,437.07	250.73	6.732					
22,600.00	12,258.75	22,485.29	12,036.87	180.37	181.66	81.61	-10,593.54	-1,427.14	1,687.80	1,434.83	252.98	6.672					
22,695.11	12,260.61	22,580.41	12,038.69	181.90	183.18	81.61	-10,688.63	-1,426.21	1,687.81	1,432.70	255.11	6.616 ES, SF					



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	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	24.60	24.60	0.00	0.03	-89.03	40.00	-2,353.90	2,354.24					
100.00	100.00	124.60	124.60	0.14	0.23	-89.03	40.00	-2,353.90	2,354.24	2,353.97	0.27	8,722.481		
200.00	200.00	224.60	224.60	0.50	0.59	-89.03	40.00	-2,353.90	2,354.24	2,353.47	0.77	3,049.215		
300.00	300.00	324.60	324.60	0.86	0.95	-89.03	40.00	-2,353.90	2,354.24	2,352.96	1.28	1,842.077		
400.00	400.00	424.60	424.60	1.22	1.31	-89.03	40.00	-2,353.90	2,354.24	2,352.46	1.78	1,319.228		
500.00	500.00	524.60	524.60	1.58	1.66	-89.03	40.00	-2,353.90	2,354.24	2,351.95	2.29	1,027.481		
600.00	600.00	624.60	624.60	1.93	2.02	-89.03	40.00	-2,353.90	2,354.24	2,351.44	2.80	841.379		
700.00	700.00	724.60	724.60	2.29	2.38	-89.03	40.00	-2,353.90	2,354.24	2,350.93	3.30	712.343		
800.00	800.00	824.60	824.60	2.65	2.74	-89.03	40.00	-2,353.90	2,354.24	2,350.43	3.81	617.619		
900.00	900.00	924.60	924.60	3.01	3.10	-89.03	40.00	-2,353.90	2,354.24	2,349.92	4.32	545.128		
1,000.00	1,000.00	1,024.60	1,024.60	3.37	3.46	-89.03	40.00	-2,353.90	2,354.24	2,349.41	4.83	487.864		
1,100.00	1,100.00	1,124.60	1,124.60	3.73	3.81	-89.03	40.00	-2,353.90	2,354.24	2,348.91	5.33	441.487		
1,200.00	1,200.00	1,224.60	1,224.60	4.08	4.17	-89.03	40.00	-2,353.90	2,354.24	2,348.40	5.84	403.162		
1,300.00	1,300.00	1,324.60	1,324.60	4.44	4.53	-89.03	40.00	-2,353.90	2,354.24	2,347.89	6.35	370.958		
1,400.00	1,400.00	1,424.60	1,424.60	4.80	4.89	-89.03	40.00	-2,353.90	2,354.24	2,347.39	6.85	343.519		
1,500.00	1,500.00	1,524.60	1,524.60	5.16	5.25	-89.03	40.00	-2,353.90	2,354.24	2,346.88	7.36	319.859		
1,600.00	1,600.00	1,624.60	1,624.60	5.52	5.61	-89.03	40.00	-2,353.90	2,354.24	2,346.37	7.87	299.248		
1,700.00	1,700.00	1,724.60	1,724.60	5.88	5.97	-89.03	40.00	-2,353.90	2,354.24	2,345.87	8.37	281.133		
1,800.00	1,800.00	1,824.60	1,824.60	6.24	6.32	-89.03	40.00	-2,353.90	2,354.24	2,345.36	8.88	265.085		
1,900.00	1,900.00	1,924.60	1,924.60	6.59	6.68	-89.03	40.00	-2,353.90	2,354.24	2,344.85	9.39	250.771		
2,000.00	2,000.00	2,024.60	2,024.60	6.95	7.04	-89.03	40.00	-2,353.90	2,354.24	2,344.34	9.89	237.923		
2,100.00	2,100.00	2,124.60	2,124.60	7.31	7.40	-89.03	40.00	-2,353.90	2,354.24	2,343.84	10.40	226.328		
2,200.00	2,200.00	2,224.60	2,224.60	7.67	7.76	-89.03	40.00	-2,353.90	2,354.24	2,343.33	10.91	215.810		
2,300.00	2,300.00	2,324.60	2,324.60	8.03	8.12	-89.03	40.00	-2,353.90	2,354.24	2,342.82	11.42	206.227		
2,400.00	2,400.00	2,424.60	2,424.60	8.39	8.47	-89.03	40.00	-2,353.90	2,354.24	2,342.32	11.92	197.458		
2,500.00	2,500.00	2,524.60	2,524.60	8.74	8.83	-89.03	40.00	-2,353.90	2,354.24	2,341.81	12.43	189.405		
2,600.00	2,600.00	2,624.60	2,624.60	9.10	9.19	-89.03	40.00	-2,353.90	2,354.24	2,341.30	12.94	181.982		
2,700.00	2,700.00	2,724.60	2,724.60	9.46	9.55	-89.03	40.00	-2,353.90	2,354.24	2,340.80	13.44	175.120		
2,800.00	2,800.00	2,824.60	2,824.60	9.82	9.91	-89.03	40.00	-2,353.90	2,354.24	2,340.29	13.95	168.756		
2,900.00	2,900.00	2,924.60	2,924.60	10.18	10.27	-89.03	40.00	-2,353.90	2,354.24	2,339.78	14.46	162.839		
3,000.00	3,000.00	3,024.60	3,024.60	10.54	10.63	-89.03	40.00	-2,353.90	2,354.24	2,339.28	14.96	157.322		
3,100.00	3,100.00	3,124.60	3,124.60	10.90	10.98	-89.03	40.00	-2,353.90	2,354.24	2,338.77	15.47	152.167		
3,200.00	3,200.00	3,224.60	3,224.60	11.25	11.34	-89.03	40.00	-2,353.90	2,354.24	2,338.26	15.98	147.339		
3,300.00	3,300.00	3,324.60	3,324.60	11.61	11.70	-89.03	40.00	-2,353.90	2,354.24	2,337.75	16.49	142.809		
3,400.00	3,400.00	3,424.60	3,424.60	11.97	12.06	-89.03	40.00	-2,353.90	2,354.24	2,337.25	16.99	138.548		
3,500.00	3,500.00	3,524.60	3,524.60	12.33	12.42	-89.03	40.00	-2,353.90	2,354.24	2,336.74	17.50	134.534		
3,600.00	3,600.00	3,624.60	3,624.60	12.69	12.78	-89.03	40.00	-2,353.90	2,354.24	2,336.23	18.01	130.746		
3,700.00	3,700.00	3,724.60	3,724.60	13.05	13.13	-89.03	40.00	-2,353.90	2,354.24	2,335.73	18.51	127.166		
3,800.00	3,800.00	3,824.60	3,824.60	13.41	13.49	-89.03	40.00	-2,353.90	2,354.24	2,335.22	19.02	123.777		
3,900.00	3,900.00	3,924.60	3,924.60	13.76	13.85	-89.03	40.00	-2,353.90	2,354.24	2,334.71	19.53	120.563		
4,000.00	4,000.00	4,024.60	4,024.60	14.12	14.21	-89.03	40.00	-2,353.90	2,354.24	2,334.21	20.03	117.512		
4,100.00	4,100.00	4,124.60	4,124.60	14.48	14.57	-89.03	40.00	-2,353.90	2,354.24	2,333.70	20.54	114.612		
4,200.00	4,200.00	4,224.60	4,224.60	14.84	14.93	-89.03	40.00	-2,353.90	2,354.24	2,333.19	21.05	111.852		
4,300.00	4,300.00	4,324.60	4,324.60	15.20	15.29	-89.03	40.00	-2,353.90	2,354.24	2,332.69	21.55	109.221		
4,400.00	4,400.00	4,424.60	4,424.60	15.56	15.64	-89.03	40.00	-2,353.90	2,354.24	2,332.18	22.06	106.711		
4,500.00	4,500.00	4,524.60	4,524.60	15.91	16.00	-89.03	40.00	-2,353.90	2,354.24	2,331.67	22.57	104.314		
4,600.00	4,599.99	4,624.59	4,624.59	16.27	16.36	-123.46	40.00	-2,353.90	2,354.96	2,331.89	23.07	102.060		
4,700.00	4,699.91	4,724.51	4,724.51	16.63	16.72	-123.51	40.00	-2,353.90	2,357.13	2,333.55	23.58	99.971		
4,800.00	4,799.69	4,824.29	4,824.29	16.98	17.08	-123.59	40.00	-2,353.90	2,360.75	2,336.67	24.08	98.033		
4,899.76	4,899.04	4,923.64	4,923.64	17.34	17.43	-123.71	40.00	-2,353.90	2,365.82	2,341.24	24.58	96.241		
5,000.00	4,998.72	5,023.32	5,023.32	17.69	17.79	-123.92	40.00	-2,353.90	2,371.67	2,346.59	25.09	94.542		
5,100.00	5,098.18	5,122.78	5,122.78	18.05	18.15	-124.13	40.00	-2,353.90	2,377.54	2,351.95	25.59	92.913		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	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	5,197.63	5,222.23	5,222.23	18.41	18.50	-124.34	40.00	-2,353.90	2,383.44	2,357.35	26.09	91.344		
5,300.00	5,297.08	5,321.68	5,321.68	18.77	18.86	-124.55	40.00	-2,353.90	2,389.37	2,362.77	26.60	89.835		
5,400.00	5,396.53	5,421.13	5,421.13	19.13	19.22	-124.75	40.00	-2,353.90	2,395.33	2,368.23	27.10	88.380		
5,500.00	5,495.99	5,540.99	5,540.99	19.50	19.64	-124.99	40.14	-2,353.73	2,401.23	2,373.58	27.66	86.815		
5,600.00	5,595.44	5,739.98	5,739.82	19.86	20.35	-125.29	44.67	-2,347.99	2,404.35	2,375.96	28.39	84.700		
5,700.00	5,694.89	5,939.74	5,938.77	20.22	21.05	-125.44	55.68	-2,334.06	2,403.34	2,374.26	29.08	82.659		
5,800.00	5,794.34	6,086.24	6,083.99	20.59	21.57	-125.46	67.62	-2,318.97	2,398.77	2,369.12	29.65	80.899		
5,900.00	5,893.80	6,186.11	6,182.89	20.96	21.93	-125.46	76.23	-2,308.07	2,393.74	2,363.59	30.16	79.381		
6,000.00	5,993.25	6,285.98	6,281.80	21.33	22.29	-125.46	84.85	-2,297.17	2,388.72	2,358.06	30.66	77.908		
6,100.00	6,092.70	6,385.86	6,380.70	21.69	22.65	-125.46	93.46	-2,286.27	2,383.70	2,352.53	31.17	76.480		
6,200.00	6,192.16	6,485.73	6,479.60	22.06	23.02	-125.47	102.08	-2,275.37	2,378.67	2,347.00	31.68	75.095		
6,300.00	6,291.61	6,585.60	6,578.51	22.43	23.38	-125.47	110.69	-2,264.48	2,373.65	2,341.46	32.18	73.751		
6,400.00	6,391.06	6,685.48	6,677.41	22.80	23.75	-125.47	119.30	-2,253.58	2,368.62	2,335.93	32.69	72.446		
6,500.00	6,490.51	6,785.35	6,776.31	23.18	24.12	-125.47	127.92	-2,242.68	2,363.60	2,330.39	33.21	71.179		
6,600.00	6,589.97	6,885.23	6,875.21	23.55	24.49	-125.47	136.53	-2,231.78	2,358.58	2,324.86	33.72	69.948		
6,700.00	6,689.42	6,985.10	6,974.12	23.92	24.86	-125.47	145.15	-2,220.89	2,353.55	2,319.32	34.23	68.752		
6,800.00	6,788.87	7,084.97	7,073.02	24.30	25.23	-125.48	153.76	-2,209.99	2,348.53	2,313.78	34.75	67.590		
6,820.20	6,808.96	7,105.15	7,093.00	24.37	25.31	-125.48	155.50	-2,207.79	2,347.51	2,312.66	34.85	67.359		
6,900.00	6,888.41	7,184.82	7,171.89	24.67	25.61	-125.41	162.38	-2,199.09	2,343.02	2,307.76	35.26	66.447		
7,000.00	6,988.15	7,284.53	7,270.64	25.04	25.98	-125.25	170.98	-2,188.21	2,336.04	2,300.26	35.77	65.299		
7,100.00	7,088.05	7,384.05	7,369.19	25.40	26.36	-125.03	179.56	-2,177.35	2,327.55	2,291.26	36.29	64.145		
7,200.00	7,188.03	7,483.30	7,467.48	25.75	26.74	-124.73	188.12	-2,166.52	2,317.58	2,280.79	36.79	62.988		
7,219.97	7,208.00	7,503.08	7,487.06	25.83	26.81	-90.25	189.83	-2,164.37	2,315.41	2,278.52	36.90	62.757		
7,300.00	7,288.03	7,582.34	7,565.55	26.11	27.11	-90.08	196.67	-2,155.72	2,306.63	2,269.33	37.30	61.838		
7,400.00	7,388.03	7,681.37	7,663.61	26.46	27.49	-89.87	205.21	-2,144.91	2,295.68	2,257.87	37.81	60.718		
7,500.00	7,488.03	7,780.39	7,761.68	26.82	27.87	-89.65	213.75	-2,134.11	2,284.76	2,246.45	38.32	59.628		
7,600.00	7,588.03	7,859.85	7,840.40	27.17	28.17	-89.48	220.46	-2,125.62	2,274.14	2,235.35	38.80	58.618		
7,700.00	7,688.03	7,927.69	7,907.75	27.53	28.43	-89.35	225.48	-2,119.27	2,264.83	2,225.58	39.25	57.699		
7,800.00	7,788.03	8,000.00	7,979.69	27.88	28.70	-89.24	230.02	-2,113.53	2,256.92	2,217.21	39.71	56.833		
7,900.00	7,888.03	8,064.12	8,043.59	28.24	28.94	-89.15	233.33	-2,109.34	2,250.40	2,210.25	40.15	56.052		
8,000.00	7,988.03	8,132.64	8,111.95	28.59	29.19	-89.08	236.14	-2,105.79	2,245.28	2,204.69	40.59	55.319		
8,100.00	8,088.03	8,200.00	8,179.23	28.95	29.43	-89.02	238.15	-2,103.24	2,241.55	2,200.53	41.02	54.649		
8,200.00	8,188.03	8,270.05	8,249.25	29.30	29.68	-88.99	239.47	-2,101.57	2,239.22	2,197.77	41.45	54.028		
8,300.00	8,288.03	8,338.85	8,318.05	29.66	29.93	-88.98	239.99	-2,100.91	2,238.28	2,196.41	41.86	53.465		
8,340.34	8,328.37	8,373.78	8,352.97	29.80	30.05	-88.98	240.00	-2,100.90	2,238.26	2,196.21	42.05	53.226		
8,400.00	8,388.03	8,433.44	8,412.63	30.01	30.26	-88.98	240.00	-2,100.90	2,238.26	2,195.91	42.35	52.849		
8,500.00	8,488.03	8,533.44	8,512.63	30.37	30.61	-88.98	240.00	-2,100.90	2,238.26	2,195.40	42.85	52.229		
8,600.00	8,588.03	8,633.44	8,612.63	30.72	30.97	-88.98	240.00	-2,100.90	2,238.26	2,194.90	43.36	51.624		
8,700.00	8,688.03	8,733.44	8,712.63	31.08	31.32	-88.98	240.00	-2,100.90	2,238.26	2,194.40	43.86	51.032		
8,800.00	8,788.03	8,833.44	8,812.63	31.43	31.67	-88.98	240.00	-2,100.90	2,238.26	2,193.90	44.36	50.454		
8,900.00	8,888.03	8,933.44	8,912.63	31.79	32.03	-88.98	240.00	-2,100.90	2,238.26	2,193.39	44.87	49.889		
9,000.00	8,988.03	9,033.44	9,012.63	32.14	32.38	-88.98	240.00	-2,100.90	2,238.26	2,192.89	45.37	49.336		
9,100.00	9,088.03	9,133.44	9,112.63	32.50	32.73	-88.98	240.00	-2,100.90	2,238.26	2,192.39	45.87	48.795		
9,200.00	9,188.03	9,233.44	9,212.63	32.86	33.09	-88.98	240.00	-2,100.90	2,238.26	2,191.88	46.37	48.265		
9,300.00	9,288.03	9,333.44	9,312.63	33.21	33.44	-88.98	240.00	-2,100.90	2,238.26	2,191.38	46.88	47.747		
9,400.00	9,388.03	9,433.44	9,412.63	33.57	33.79	-88.98	240.00	-2,100.90	2,238.26	2,190.88	47.38	47.240		
9,500.00	9,488.03	9,533.44	9,512.63	33.92	34.15	-88.98	240.00	-2,100.90	2,238.26	2,190.37	47.88	46.743		
9,600.00	9,588.03	9,633.44	9,612.63	34.28	34.50	-88.98	240.00	-2,100.90	2,238.26	2,189.87	48.39	46.257		
9,700.00	9,688.03	9,733.44	9,712.63	34.63	34.86	-88.98	240.00	-2,100.90	2,238.26	2,189.37	48.89	45.781		
9,800.00	9,788.03	9,833.44	9,812.63	34.99	35.21	-88.98	240.00	-2,100.90	2,238.26	2,188.86	49.39	45.314		
9,900.00	9,888.03	9,933.44	9,912.63	35.35	35.56	-88.98	240.00	-2,100.90	2,238.26	2,188.36	49.90	44.857		
10,000.00	9,988.03	10,033.44	10,012.63	35.70	35.92	-88.98	240.00	-2,100.90	2,238.26	2,187.86	50.40	44.408		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.00	10,088.03	10,133.44	10,112.63	36.06	36.27	-88.98	240.00	-2,100.90	2,238.26	2,187.35	50.91	43.969		
10,200.00	10,188.03	10,233.44	10,212.63	36.42	36.63	-88.98	240.00	-2,100.90	2,238.26	2,186.85	51.41	43.538		
10,300.00	10,288.03	10,333.44	10,312.63	36.77	36.98	-88.98	240.00	-2,100.90	2,238.26	2,186.34	51.91	43.115		
10,400.00	10,388.03	10,433.44	10,412.63	37.13	37.34	-88.98	240.00	-2,100.90	2,238.26	2,185.84	52.42	42.701		
10,500.00	10,488.03	10,533.44	10,512.63	37.48	37.69	-88.98	240.00	-2,100.90	2,238.26	2,185.34	52.92	42.294		
10,600.00	10,588.03	10,633.44	10,612.63	37.84	38.05	-88.98	240.00	-2,100.90	2,238.26	2,184.83	53.43	41.895		
10,700.00	10,688.03	10,733.44	10,712.63	38.20	38.40	-88.98	240.00	-2,100.90	2,238.26	2,184.33	53.93	41.503		
10,800.00	10,788.03	10,833.44	10,812.63	38.55	38.76	-88.98	240.00	-2,100.90	2,238.26	2,183.82	54.43	41.119		
10,900.00	10,888.03	10,933.44	10,912.63	38.91	39.11	-88.98	240.00	-2,100.90	2,238.26	2,183.32	54.94	40.742		
11,000.00	10,988.03	11,033.44	11,012.63	39.27	39.47	-88.98	240.00	-2,100.90	2,238.26	2,182.82	55.44	40.371		
11,100.00	11,088.03	11,133.44	11,112.63	39.62	39.82	-88.98	240.00	-2,100.90	2,238.26	2,182.31	55.95	40.007		
11,200.00	11,188.03	11,233.44	11,212.63	39.98	40.18	-88.98	240.00	-2,100.90	2,238.26	2,181.81	56.45	39.650		
11,300.00	11,288.03	11,333.44	11,312.63	40.34	40.53	-88.98	240.00	-2,100.90	2,238.26	2,181.30	56.96	39.299		
11,400.00	11,388.03	11,433.44	11,412.63	40.69	40.89	-88.98	240.00	-2,100.90	2,238.26	2,180.80	57.46	38.954		
11,497.97	11,486.00	11,531.41	11,510.60	41.04	41.23	-88.98	240.00	-2,100.90	2,238.26	2,180.30	57.95	38.621 CC		
11,500.00	11,488.03	11,533.44	11,512.63	41.05	41.24	91.59	240.00	-2,100.90	2,238.26	2,180.29	57.96	38.615		
11,550.00	11,537.96	11,583.37	11,562.56	41.21	41.42	91.64	240.00	-2,100.90	2,238.32	2,180.12	58.20	38.458		
11,600.00	11,587.49	11,635.49	11,614.68	41.36	41.60	91.79	239.59	-2,100.90	2,238.52	2,180.08	58.44	38.305		
11,650.00	11,636.26	11,692.14	11,671.09	41.51	41.78	91.96	234.65	-2,100.85	2,238.74	2,180.07	58.67	38.158		
11,700.00	11,683.87	11,749.60	11,727.53	41.65	41.95	92.12	223.98	-2,100.76	2,238.97	2,180.08	58.89	38.019		
11,750.00	11,729.98	11,807.84	11,783.35	41.78	42.11	92.26	207.46	-2,100.61	2,239.19	2,180.09	59.10	37.889		
11,800.00	11,774.24	11,866.77	11,837.83	41.90	42.26	92.38	185.06	-2,100.42	2,239.40	2,180.10	59.30	37.766		
11,850.00	11,816.30	11,926.31	11,890.24	42.01	42.40	92.48	156.87	-2,100.17	2,239.59	2,180.10	59.49	37.649		
11,900.00	11,855.85	11,986.36	11,939.85	42.11	42.53	92.55	123.09	-2,099.87	2,239.75	2,180.08	59.67	37.539		
11,950.00	11,892.58	12,046.78	11,985.93	42.20	42.64	92.60	84.05	-2,099.53	2,239.88	2,180.04	59.84	37.432		
12,000.00	11,926.22	12,107.45	12,027.80	42.29	42.72	92.63	40.18	-2,099.14	2,239.97	2,179.96	60.01	37.328		
12,050.00	11,956.50	12,168.23	12,064.87	42.39	42.79	92.64	-7.95	-2,098.72	2,240.02	2,179.84	60.18	37.225		
12,100.00	11,983.21	12,228.99	12,096.61	42.50	42.85	92.61	-59.71	-2,098.27	2,240.03	2,179.69	60.34	37.120		
12,150.00	12,006.13	12,289.56	12,122.63	42.61	43.00	92.57	-114.38	-2,097.79	2,240.00	2,179.49	60.52	37.015		
12,200.00	12,025.10	12,349.83	12,142.65	42.72	43.14	92.49	-171.20	-2,097.29	2,239.94	2,179.25	60.69	36.906		
12,250.00	12,039.96	12,409.67	12,156.52	42.84	43.29	92.40	-229.37	-2,096.78	2,239.84	2,178.97	60.87	36.794		
12,300.00	12,050.60	12,468.95	12,164.20	42.96	43.44	92.28	-288.13	-2,096.26	2,239.72	2,178.66	61.06	36.680		
12,350.00	12,056.95	12,524.44	12,166.15	43.08	43.59	92.16	-343.57	-2,095.77	2,239.59	2,178.34	61.25	36.567		
12,374.97	12,058.50	12,549.38	12,166.48	43.14	43.66	92.14	-368.51	-2,095.55	2,239.57	2,178.23	61.34	36.512		
12,386.75	12,058.85	12,561.16	12,166.63	43.17	43.69	92.13	-380.29	-2,095.45	2,239.57	2,178.19	61.38	36.486		
12,400.00	12,059.11	12,574.41	12,166.81	43.21	43.73	92.13	-393.53	-2,095.33	2,239.58	2,178.15	61.43	36.457		
12,500.00	12,061.06	12,674.41	12,168.12	43.50	44.05	92.11	-493.52	-2,094.45	2,239.66	2,177.80	61.86	36.207		
12,600.00	12,063.02	12,774.41	12,169.44	43.85	44.44	92.09	-593.50	-2,093.58	2,239.74	2,177.37	62.37	35.911		
12,700.00	12,064.98	12,874.40	12,170.76	44.25	44.87	92.08	-693.49	-2,092.70	2,239.81	2,176.85	62.96	35.574		
12,800.00	12,066.94	12,974.40	12,172.07	44.72	45.37	92.06	-793.47	-2,091.82	2,239.89	2,176.26	63.64	35.198		
12,900.00	12,068.89	13,074.40	12,173.39	45.24	45.91	92.05	-893.46	-2,090.94	2,239.97	2,175.58	64.39	34.788		
13,000.00	12,070.85	13,174.40	12,174.71	45.81	46.51	92.03	-993.44	-2,090.06	2,240.05	2,174.83	65.22	34.349		
13,100.00	12,072.81	13,274.39	12,176.02	46.43	47.16	92.01	-1,093.43	-2,089.18	2,240.13	2,174.01	66.11	33.883		
13,200.00	12,074.77	13,374.39	12,177.34	47.11	47.86	92.00	-1,193.41	-2,088.30	2,240.20	2,173.12	67.08	33.395		
13,300.00	12,076.72	13,474.39	12,178.66	47.83	48.60	91.98	-1,293.40	-2,087.43	2,240.28	2,172.16	68.12	32.889		
13,400.00	12,078.68	13,574.39	12,179.98	48.60	49.38	91.96	-1,393.39	-2,086.55	2,240.36	2,171.14	69.22	32.368		
13,500.00	12,080.64	13,674.39	12,181.29	49.41	50.21	91.95	-1,493.37	-2,085.67	2,240.44	2,170.07	70.37	31.836		
13,600.00	12,082.59	13,774.38	12,182.61	50.26	51.08	91.93	-1,593.36	-2,084.79	2,240.52	2,168.93	71.59	31.296		
13,700.00	12,084.55	13,874.38	12,183.93	51.15	51.98	91.91	-1,693.34	-2,083.91	2,240.60	2,167.74	72.86	30.752		
13,800.00	12,086.51	13,974.38	12,185.24	52.08	52.92	91.90	-1,793.33	-2,083.03	2,240.68	2,166.49	74.18	30.204		
13,900.00	12,088.47	14,074.38	12,186.56	53.04	53.90	91.88	-1,893.31	-2,082.16	2,240.76	2,165.20	75.56	29.657		
14,000.00	12,090.42	14,174.38	12,187.88	54.04	54.91	91.86	-1,993.30	-2,081.28	2,240.84	2,163.86	76.97	29.112		

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 LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kasten Fed Com - Kasten Fed Com 703H - OH - Plan #2		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	12,092.38	14,274.37	12,189.19	55.07	55.95	91.85	-2,093.28	-2,080.40	2,240.92	2,162.48	78.44	28.570					
14,200.00	12,094.34	14,374.37	12,190.51	56.13	57.01	91.83	-2,193.27	-2,079.52	2,241.00	2,161.06	79.94	28.034					
14,300.00	12,096.30	14,474.37	12,191.83	57.21	58.11	91.82	-2,293.25	-2,078.64	2,241.08	2,159.59	81.48	27.504					
14,400.00	12,098.25	14,574.37	12,193.15	58.33	59.23	91.80	-2,393.24	-2,077.76	2,241.16	2,158.09	83.06	26.982					
14,500.00	12,100.21	14,674.37	12,194.46	59.46	60.37	91.78	-2,493.22	-2,076.88	2,241.24	2,156.56	84.68	26.468					
14,600.00	12,102.17	14,774.36	12,195.78	60.63	61.54	91.77	-2,593.21	-2,076.01	2,241.32	2,154.99	86.33	25.964					
14,700.00	12,104.12	14,874.36	12,197.10	61.81	62.73	91.75	-2,693.20	-2,075.13	2,241.40	2,153.39	88.00	25.469					
14,800.00	12,106.08	14,974.36	12,198.41	63.01	63.94	91.73	-2,793.18	-2,074.25	2,241.48	2,151.77	89.71	24.985					
14,900.00	12,108.04	15,074.36	12,199.73	64.24	65.17	91.72	-2,893.17	-2,073.37	2,241.56	2,150.11	91.45	24.511					
15,000.00	12,110.00	15,174.35	12,201.05	65.48	66.42	91.70	-2,993.15	-2,072.49	2,241.64	2,148.43	93.21	24.049					
15,100.00	12,111.95	15,274.35	12,202.36	66.74	67.69	91.68	-3,093.14	-2,071.61	2,241.72	2,146.72	95.00	23.597					
15,200.00	12,113.91	15,374.35	12,203.68	68.02	68.97	91.67	-3,193.12	-2,070.73	2,241.81	2,144.99	96.81	23.156					
15,300.00	12,115.87	15,474.35	12,205.00	69.32	70.26	91.65	-3,293.11	-2,069.86	2,241.89	2,143.24	98.64	22.727					
15,400.00	12,117.83	15,574.35	12,206.31	70.63	71.58	91.63	-3,393.09	-2,068.98	2,241.97	2,141.47	100.50	22.309					
15,500.00	12,119.78	15,674.34	12,207.63	71.95	72.90	91.62	-3,493.08	-2,068.10	2,242.05	2,139.68	102.37	21.901					
15,600.00	12,121.74	15,774.34	12,208.95	73.29	74.24	91.60	-3,593.06	-2,067.22	2,242.14	2,137.87	104.26	21.504					
15,700.00	12,123.70	15,874.34	12,210.27	74.64	75.59	91.58	-3,693.05	-2,066.34	2,242.22	2,136.04	106.17	21.118					
15,800.00	12,125.65	15,974.34	12,211.58	76.00	76.96	91.57	-3,793.03	-2,065.46	2,242.30	2,134.20	108.10	20.743					
15,900.00	12,127.61	16,074.34	12,212.90	77.37	78.33	91.55	-3,893.02	-2,064.58	2,242.38	2,132.34	110.04	20.377					
16,000.00	12,129.57	16,174.33	12,214.22	78.75	79.71	91.54	-3,993.00	-2,063.71	2,242.47	2,130.47	112.00	20.022					
16,100.00	12,131.53	16,274.33	12,215.53	80.15	81.11	91.52	-4,092.99	-2,062.83	2,242.55	2,128.58	113.97	19.676					
16,200.00	12,133.48	16,374.33	12,216.85	81.55	82.51	91.50	-4,192.98	-2,061.95	2,242.63	2,126.67	115.96	19.340					
16,300.00	12,135.44	16,474.33	12,218.17	82.96	83.93	91.49	-4,292.96	-2,061.07	2,242.72	2,124.76	117.96	19.013					
16,400.00	12,137.40	16,574.33	12,219.48	84.38	85.35	91.47	-4,392.95	-2,060.19	2,242.80	2,122.83	119.97	18.695					
16,500.00	12,139.36	16,674.32	12,220.80	85.81	86.78	91.45	-4,492.93	-2,059.31	2,242.89	2,120.89	121.99	18.385					
16,600.00	12,141.31	16,774.32	12,222.12	87.25	88.22	91.44	-4,592.92	-2,058.43	2,242.97	2,118.95	124.03	18.085					
16,700.00	12,143.27	16,874.32	12,223.44	88.70	89.66	91.42	-4,692.90	-2,057.56	2,243.06	2,116.99	126.07	17.792					
16,800.00	12,145.23	16,974.32	12,224.75	90.15	91.11	91.40	-4,792.89	-2,056.68	2,243.14	2,115.02	128.12	17.508					
16,900.00	12,147.18	17,074.31	12,226.07	91.61	92.57	91.39	-4,892.87	-2,055.80	2,243.23	2,113.04	130.19	17.231					
17,000.00	12,149.14	17,174.31	12,227.39	93.07	94.04	91.37	-4,992.86	-2,054.92	2,243.31	2,111.05	132.26	16.961					
17,100.00	12,151.10	17,274.31	12,228.70	94.54	95.51	91.36	-5,092.84	-2,054.04	2,243.40	2,109.05	134.34	16.699					
17,200.00	12,153.06	17,374.31	12,230.02	96.02	96.99	91.34	-5,192.83	-2,053.16	2,243.48	2,107.05	136.43	16.444					
17,300.00	12,155.01	17,474.31	12,231.34	97.50	98.47	91.32	-5,292.81	-2,052.28	2,243.57	2,105.04	138.53	16.196					
17,400.00	12,156.97	17,574.30	12,232.65	98.99	99.96	91.31	-5,392.80	-2,051.41	2,243.65	2,103.02	140.63	15.954					
17,500.00	12,158.93	17,674.30	12,233.97	100.48	101.45	91.29	-5,492.79	-2,050.53	2,243.74	2,100.99	142.75	15.718					
17,600.00	12,160.89	17,774.30	12,235.29	101.98	102.95	91.27	-5,592.77	-2,049.65	2,243.83	2,098.96	144.87	15.489					
17,700.00	12,162.84	17,874.30	12,236.60	103.49	104.45	91.26	-5,692.76	-2,048.77	2,243.91	2,096.92	146.99	15.266					
17,800.00	12,164.80	17,974.30	12,237.92	104.99	105.96	91.24	-5,792.74	-2,047.89	2,244.00	2,094.87	149.12	15.048					
17,900.00	12,166.76	18,074.29	12,239.24	106.51	107.47	91.22	-5,892.73	-2,047.01	2,244.09	2,092.82	151.26	14.836					
18,000.00	12,168.71	18,174.29	12,240.56	108.02	108.99	91.21	-5,992.71	-2,046.13	2,244.17	2,090.77	153.41	14.629					
18,100.00	12,170.67	18,274.29	12,241.87	109.54	110.51	91.19	-6,092.70	-2,045.26	2,244.26	2,088.70	155.56	14.427					
18,200.00	12,172.63	18,374.29	12,243.19	111.07	112.03	91.17	-6,192.68	-2,044.38	2,244.35	2,086.64	157.71	14.231					
18,300.00	12,174.59	18,474.29	12,244.51	112.59	113.56	91.16	-6,292.67	-2,043.50	2,244.44	2,084.56	159.87	14.039					
18,400.00	12,176.54	18,574.28	12,245.82	114.12	115.09	91.14	-6,392.65	-2,042.62	2,244.52	2,082.49	162.04	13.852					
18,500.00	12,178.50	18,674.28	12,247.14	115.66	116.62	91.13	-6,492.64	-2,041.74	2,244.61	2,080.40	164.21	13.669					
18,600.00	12,180.46	18,774.28	12,248.46	117.20	118.16	91.11	-6,592.62	-2,040.86	2,244.70	2,078.32	166.38	13.491					
18,700.00	12,182.42	18,874.28	12,249.77	118.74	119.70	91.09	-6,692.61	-2,039.98	2,244.79	2,076.23	168.56	13.317					
18,800.00	12,184.37	18,974.28	12,251.09	120.28	121.24	91.08	-6,792.60	-2,039.11	2,244.88	2,074.13	170.74	13.148					
18,900.00	12,186.33	19,074.27	12,252.41	121.83	122.78	91.06	-6,892.58	-2,038.23	2,244.96	2,072.04	172.93	12.982					
19,000.00	12,188.29	19,174.27	12,253.73	123.38	124.33	91.04	-6,992.57	-2,037.35	2,245.05	2,069.93	175.12	12.820					
19,100.00	12,190.24	19,274.27	12,255.04	124.93	125.88	91.03	-7,092.55	-2,036.47	2,245.14	2,067.83	177.32	12.662					
19,200.00	12,192.20	19,374.27	12,256.36	126.48	127.44	91.01	-7,192.54	-2,035.59	2,245.23	2,065.72	179.51	12.507					

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kasten Fed Com - Kasten Fed Com 703H - OH - Plan #2		Offset Site Error:		0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis		Distance							Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
19,300.00	12,194.16	19,474.26	12,257.68	128.04	128.99	90.99	-7,292.52	-2,034.71	2,245.32	2,063.61	181.71	12.356					
19,400.00	12,196.12	19,574.26	12,258.99	129.60	130.55	90.98	-7,392.51	-2,033.83	2,245.41	2,061.49	183.92	12.209					
19,500.00	12,198.07	19,674.26	12,260.31	131.16	132.11	90.96	-7,492.49	-2,032.96	2,245.50	2,059.37	186.13	12.064					
19,600.00	12,200.03	19,774.26	12,261.63	132.72	133.68	90.95	-7,592.48	-2,032.08	2,245.59	2,057.25	188.34	11.923					
19,700.00	12,201.99	19,874.26	12,262.94	134.29	135.24	90.93	-7,692.46	-2,031.20	2,245.68	2,055.13	190.55	11.785					
19,800.00	12,203.95	19,974.25	12,264.26	135.86	136.81	90.91	-7,792.45	-2,030.32	2,245.77	2,053.00	192.77	11.650					
19,900.00	12,205.90	20,074.25	12,265.58	137.43	138.38	90.90	-7,892.43	-2,029.44	2,245.86	2,050.87	194.99	11.518					
20,000.00	12,207.86	20,174.25	12,266.90	139.00	139.95	90.88	-7,992.42	-2,028.56	2,245.95	2,048.74	197.21	11.388					
20,100.00	12,209.82	20,274.25	12,268.21	140.57	141.52	90.86	-8,092.41	-2,027.68	2,246.04	2,046.60	199.44	11.262					
20,200.00	12,211.77	20,374.25	12,269.53	142.15	143.10	90.85	-8,192.39	-2,026.81	2,246.13	2,044.47	201.67	11.138					
20,300.00	12,213.73	20,474.24	12,270.85	143.72	144.67	90.83	-8,292.38	-2,025.93	2,246.23	2,042.33	203.90	11.016					
20,400.00	12,215.69	20,574.24	12,272.16	145.30	146.25	90.81	-8,392.36	-2,025.05	2,246.32	2,040.19	206.13	10.898					
20,500.00	12,217.65	20,674.24	12,273.48	146.88	147.83	90.80	-8,492.35	-2,024.17	2,246.41	2,038.04	208.37	10.781					
20,600.00	12,219.60	20,774.24	12,274.80	148.47	149.41	90.78	-8,592.33	-2,023.29	2,246.50	2,035.90	210.60	10.667					
20,700.00	12,221.56	20,874.24	12,276.11	150.05	150.99	90.77	-8,692.32	-2,022.41	2,246.59	2,033.75	212.84	10.555					
20,800.00	12,223.52	20,974.23	12,277.43	151.63	152.58	90.75	-8,792.30	-2,021.53	2,246.68	2,031.60	215.08	10.446					
20,900.00	12,225.48	21,074.23	12,278.75	153.22	154.16	90.73	-8,892.29	-2,020.66	2,246.78	2,029.45	217.33	10.338					
21,000.00	12,227.43	21,174.23	12,280.06	154.81	155.75	90.72	-8,992.27	-2,019.78	2,246.87	2,027.30	219.57	10.233					
21,100.00	12,229.39	21,274.23	12,281.38	156.40	157.34	90.70	-9,092.26	-2,018.90	2,246.96	2,025.14	221.82	10.130					
21,200.00	12,231.35	21,374.22	12,282.70	157.99	158.93	90.68	-9,192.24	-2,018.02	2,247.06	2,022.99	224.07	10.028					
21,300.00	12,233.30	21,474.22	12,284.02	159.58	160.52	90.67	-9,292.23	-2,017.14	2,247.15	2,020.83	226.32	9.929					
21,400.00	12,235.26	21,574.22	12,285.33	161.17	162.11	90.65	-9,392.21	-2,016.26	2,247.24	2,018.67	228.57	9.832					
21,500.00	12,237.22	21,674.22	12,286.65	162.77	163.71	90.63	-9,492.20	-2,015.39	2,247.33	2,016.51	230.83	9.736					
21,600.00	12,239.18	21,774.22	12,287.97	164.36	165.30	90.62	-9,592.19	-2,014.51	2,247.43	2,014.35	233.08	9.642					
21,700.00	12,241.13	21,874.21	12,289.28	165.96	166.90	90.60	-9,692.17	-2,013.63	2,247.52	2,012.18	235.34	9.550					
21,800.00	12,243.09	21,974.21	12,290.60	167.56	168.49	90.59	-9,792.16	-2,012.75	2,247.62	2,010.02	237.60	9.460					
21,900.00	12,245.05	22,074.21	12,291.92	169.16	170.09	90.57	-9,892.14	-2,011.87	2,247.71	2,007.85	239.86	9.371					
22,000.00	12,247.01	22,174.21	12,293.23	170.76	171.69	90.55	-9,992.13	-2,010.99	2,247.80	2,005.68	242.12	9.284					
22,100.00	12,248.96	22,274.21	12,294.55	172.36	173.29	90.54	-10,092.11	-2,010.11	2,247.90	2,003.51	244.39	9.198					
22,200.00	12,250.92	22,374.20	12,295.87	173.96	174.89	90.52	-10,192.10	-2,009.24	2,247.99	2,001.34	246.65	9.114					
22,300.00	12,252.88	22,474.20	12,297.19	175.56	176.49	90.50	-10,292.08	-2,008.36	2,248.09	1,999.17	248.92	9.031					
22,400.00	12,254.83	22,574.20	12,298.50	177.16	178.10	90.49	-10,392.07	-2,007.48	2,248.18	1,997.00	251.18	8.950					
22,500.00	12,256.79	22,674.20	12,299.82	178.77	179.70	90.47	-10,492.05	-2,006.60	2,248.28	1,994.83	253.45	8.871					
22,600.00	12,258.75	22,774.20	12,301.14	180.37	181.30	90.45	-10,592.04	-2,005.72	2,248.37	1,992.65	255.72	8.792					
22,695.11	12,260.61	22,869.31	12,302.39	181.90	182.83	90.44	-10,687.14	-2,004.89	2,248.47	1,990.58	257.88	8.719 ES, SF					



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	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	38.10	38.10	0.00	0.05	-90.53	-40.18	-4,309.67	4,309.86					
100.00	100.00	138.10	138.10	0.14	0.28	-90.53	-40.18	-4,309.67	4,309.86	4,309.55	0.31	N/A		
200.00	200.00	238.10	238.10	0.50	0.64	-90.53	-40.18	-4,309.67	4,309.86	4,309.05	0.81	5,323.710		
300.00	300.00	338.10	338.10	0.86	1.00	-90.53	-40.18	-4,309.67	4,309.86	4,308.54	1.31	3,279.238		
400.00	400.00	438.10	438.10	1.22	1.35	-90.53	-40.18	-4,309.67	4,309.86	4,308.04	1.82	2,367.725		
500.00	500.00	538.10	538.10	1.58	1.71	-90.53	-40.18	-4,309.67	4,309.86	4,307.53	2.33	1,852.388		
600.00	600.00	638.10	638.10	1.93	2.07	-90.53	-40.18	-4,309.67	4,309.86	4,307.02	2.83	1,521.173		
700.00	700.00	738.10	738.10	2.29	2.43	-90.53	-40.18	-4,309.67	4,309.86	4,306.52	3.34	1,290.395		
800.00	800.00	838.10	838.10	2.65	2.79	-90.53	-40.18	-4,309.67	4,309.86	4,306.01	3.85	1,120.397		
900.00	900.00	938.10	938.10	3.01	3.15	-90.53	-40.18	-4,309.67	4,309.86	4,305.50	4.35	989.967		
1,000.00	1,000.00	1,038.10	1,038.10	3.37	3.50	-90.53	-40.18	-4,309.67	4,309.86	4,305.00	4.86	886.733		
1,100.00	1,100.00	1,138.10	1,138.10	3.73	3.86	-90.53	-40.18	-4,309.67	4,309.86	4,304.49	5.37	802.993		
1,200.00	1,200.00	1,238.10	1,238.10	4.08	4.22	-90.53	-40.18	-4,309.67	4,309.86	4,303.98	5.87	733.702		
1,300.00	1,300.00	1,338.10	1,338.10	4.44	4.58	-90.53	-40.18	-4,309.67	4,309.86	4,303.48	6.38	675.419		
1,400.00	1,400.00	1,438.10	1,438.10	4.80	4.94	-90.53	-40.18	-4,309.67	4,309.86	4,302.97	6.89	625.713		
1,500.00	1,500.00	1,538.10	1,538.10	5.16	5.30	-90.53	-40.18	-4,309.67	4,309.86	4,302.46	7.39	582.821		
1,600.00	1,600.00	1,638.10	1,638.10	5.52	5.66	-90.53	-40.18	-4,309.67	4,309.86	4,301.96	7.90	545.431		
1,700.00	1,700.00	1,738.10	1,738.10	5.88	6.01	-90.53	-40.18	-4,309.67	4,309.86	4,301.45	8.41	512.550		
1,800.00	1,800.00	1,838.10	1,838.10	6.24	6.37	-90.53	-40.18	-4,309.67	4,309.86	4,300.94	8.92	483.407		
1,900.00	1,900.00	1,938.10	1,938.10	6.59	6.73	-90.53	-40.18	-4,309.67	4,309.86	4,300.43	9.42	457.400		
2,000.00	2,000.00	2,038.10	2,038.10	6.95	7.09	-90.53	-40.18	-4,309.67	4,309.86	4,299.93	9.93	434.048		
2,100.00	2,100.00	2,138.10	2,138.10	7.31	7.45	-90.53	-40.18	-4,309.67	4,309.86	4,299.42	10.44	412.965		
2,200.00	2,200.00	2,238.10	2,238.10	7.67	7.81	-90.53	-40.18	-4,309.67	4,309.86	4,298.91	10.94	393.835		
2,300.00	2,300.00	2,338.10	2,338.10	8.03	8.16	-90.53	-40.18	-4,309.67	4,309.86	4,298.41	11.45	376.399		
2,400.00	2,400.00	2,438.10	2,438.10	8.39	8.52	-90.53	-40.18	-4,309.67	4,309.86	4,297.90	11.96	360.441		
2,500.00	2,500.00	2,538.10	2,538.10	8.74	8.88	-90.53	-40.18	-4,309.67	4,309.86	4,297.39	12.46	345.781		
2,600.00	2,600.00	2,638.10	2,638.10	9.10	9.24	-90.53	-40.18	-4,309.67	4,309.86	4,296.89	12.97	332.267		
2,700.00	2,700.00	2,738.10	2,738.10	9.46	9.60	-90.53	-40.18	-4,309.67	4,309.86	4,296.38	13.48	319.770		
2,800.00	2,800.00	2,838.10	2,838.10	9.82	9.96	-90.53	-40.18	-4,309.67	4,309.86	4,295.87	13.98	308.178		
2,900.00	2,900.00	2,938.10	2,938.10	10.18	10.32	-90.53	-40.18	-4,309.67	4,309.86	4,295.37	14.49	297.398		
3,000.00	3,000.00	3,038.10	3,038.10	10.54	10.67	-90.53	-40.18	-4,309.67	4,309.86	4,294.86	15.00	287.346		
3,100.00	3,100.00	3,138.10	3,138.10	10.90	11.03	-90.53	-40.18	-4,309.67	4,309.86	4,294.35	15.51	277.952		
3,200.00	3,200.00	3,238.10	3,238.10	11.25	11.39	-90.53	-40.18	-4,309.67	4,309.86	4,293.84	16.01	269.152		
3,300.00	3,300.00	3,338.10	3,338.10	11.61	11.75	-90.53	-40.18	-4,309.67	4,309.86	4,293.34	16.52	260.892		
3,400.00	3,400.00	3,438.10	3,438.10	11.97	12.11	-90.53	-40.18	-4,309.67	4,309.86	4,292.83	17.03	253.125		
3,500.00	3,500.00	3,538.10	3,538.10	12.33	12.47	-90.53	-40.18	-4,309.67	4,309.86	4,292.32	17.53	245.806		
3,600.00	3,600.00	3,638.10	3,638.10	12.69	12.82	-90.53	-40.18	-4,309.67	4,309.86	4,291.82	18.04	238.899		
3,700.00	3,700.00	3,738.10	3,738.10	13.05	13.18	-90.53	-40.18	-4,309.67	4,309.86	4,291.31	18.55	232.369		
3,800.00	3,800.00	3,838.10	3,838.10	13.41	13.54	-90.53	-40.18	-4,309.67	4,309.86	4,290.80	19.05	226.187		
3,900.00	3,900.00	3,938.10	3,938.10	13.76	13.90	-90.53	-40.18	-4,309.67	4,309.86	4,290.30	19.56	220.325		
4,000.00	4,000.00	4,038.10	4,038.10	14.12	14.26	-90.53	-40.18	-4,309.67	4,309.86	4,289.79	20.07	214.759		
4,100.00	4,100.00	4,138.10	4,138.10	14.48	14.62	-90.53	-40.18	-4,309.67	4,309.86	4,289.28	20.58	209.468		
4,200.00	4,200.00	4,238.10	4,238.10	14.84	14.98	-90.53	-40.18	-4,309.67	4,309.86	4,288.78	21.08	204.431		
4,300.00	4,300.00	4,338.10	4,338.10	15.20	15.33	-90.53	-40.18	-4,309.67	4,309.86	4,288.27	21.59	199.631		
4,400.00	4,400.00	4,438.10	4,438.10	15.56	15.69	-90.53	-40.18	-4,309.67	4,309.86	4,287.76	22.10	195.050		
4,500.00	4,500.00	4,538.10	4,538.10	15.91	16.05	-90.53	-40.18	-4,309.67	4,309.86	4,287.25	22.60	190.676 CC, ES		
4,600.00	4,599.99	4,638.09	4,638.09	16.27	16.41	-124.95	-40.18	-4,309.67	4,310.61	4,287.50	23.11	186.537		
4,700.00	4,699.91	4,738.01	4,738.01	16.63	16.77	-124.97	-40.18	-4,309.67	4,312.86	4,289.25	23.61	182.652		
4,800.00	4,799.69	4,837.79	4,837.79	16.98	17.13	-124.99	-40.18	-4,309.67	4,316.61	4,292.50	24.12	178.997		
4,899.76	4,899.04	4,937.14	4,937.14	17.34	17.48	-125.02	-40.18	-4,309.67	4,321.86	4,297.25	24.62	175.567		
5,000.00	4,998.72	5,036.82	5,036.82	17.69	17.84	-125.14	-40.18	-4,309.67	4,327.90	4,302.78	25.12	172.288		
5,100.00	5,098.18	5,136.28	5,136.28	18.05	18.20	-125.25	-40.18	-4,309.67	4,333.95	4,308.32	25.62	169.142		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	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	5,197.63	5,235.73	5,235.73	18.41	18.55	-125.36	-40.18	-4,309.67	4,340.01	4,313.88	26.13	166.112		
5,300.00	5,297.08	5,335.18	5,335.18	18.77	18.91	-125.47	-40.18	-4,309.67	4,346.08	4,319.45	26.63	163.193		
5,400.00	5,396.53	5,434.63	5,434.63	19.13	19.26	-125.59	-40.18	-4,309.67	4,352.18	4,325.04	27.14	160.380		
5,500.00	5,495.99	5,521.43	5,521.43	19.50	19.58	-125.68	-40.13	-4,309.70	4,358.33	4,330.72	27.61	157.855		
5,600.00	5,595.44	5,600.00	5,599.99	19.86	19.86	-125.76	-39.08	-4,310.38	4,365.22	4,337.15	28.06	155.562		
5,700.00	5,694.89	5,646.59	5,646.55	20.22	20.02	-125.79	-37.81	-4,311.19	4,372.86	4,344.43	28.43	153.824		
5,800.00	5,794.34	5,700.00	5,699.91	20.59	20.21	-125.82	-35.77	-4,312.49	4,381.40	4,352.59	28.81	152.079		
5,900.00	5,893.80	5,771.77	5,771.54	20.96	20.47	-125.85	-32.04	-4,314.88	4,390.76	4,361.52	29.24	150.163		
6,000.00	5,993.25	5,835.04	5,834.61	21.33	20.69	-125.87	-27.81	-4,317.59	4,400.98	4,371.33	29.65	148.450		
6,100.00	6,092.70	5,934.47	5,933.66	21.69	21.05	-125.88	-20.52	-4,322.25	4,411.59	4,381.44	30.15	146.314		
6,200.00	6,192.16	6,033.90	6,032.72	22.06	21.40	-125.89	-13.23	-4,326.92	4,422.21	4,391.55	30.66	144.243		
6,300.00	6,291.61	6,133.33	6,131.77	22.43	21.76	-125.91	-5.94	-4,331.59	4,432.82	4,401.66	31.17	142.236		
6,400.00	6,391.06	6,232.76	6,230.82	22.80	22.11	-125.92	1.36	-4,336.25	4,443.44	4,411.76	31.67	140.289		
6,500.00	6,490.51	6,332.19	6,329.87	23.18	22.47	-125.93	8.65	-4,340.92	4,454.05	4,421.87	32.18	138.400		
6,600.00	6,589.97	6,431.62	6,428.93	23.55	22.83	-125.94	15.94	-4,345.59	4,464.67	4,431.98	32.69	136.566		
6,700.00	6,689.42	6,531.05	6,527.98	23.92	23.19	-125.96	23.23	-4,350.25	4,475.29	4,442.08	33.20	134.786		
6,800.00	6,788.87	6,630.48	6,627.03	24.30	23.55	-125.97	30.52	-4,354.92	4,485.90	4,452.19	33.71	133.056		
6,820.20	6,808.96	6,650.57	6,647.04	24.37	23.62	-125.97	32.00	-4,355.86	4,488.05	4,454.23	33.82	132.713		
6,900.00	6,888.41	6,729.96	6,726.14	24.67	23.91	-126.07	37.82	-4,359.59	4,496.03	4,461.80	34.23	131.364		
7,000.00	6,988.15	6,829.57	6,825.37	25.04	24.27	-126.15	45.12	-4,364.26	4,504.66	4,469.92	34.74	129.683		
7,100.00	7,088.05	6,929.24	6,924.66	25.40	24.63	-126.19	52.43	-4,368.94	4,511.75	4,476.50	35.24	128.013		
7,200.00	7,188.03	7,028.90	7,023.94	25.75	24.99	-126.18	59.74	-4,373.62	4,517.30	4,481.55	35.75	126.356		
7,219.97	7,208.00	7,048.80	7,043.76	25.83	25.06	-91.76	61.20	-4,374.55	4,518.22	4,482.37	35.85	126.026		
7,300.00	7,288.03	7,128.53	7,123.18	26.11	25.35	-91.69	67.05	-4,378.30	4,521.81	4,485.55	36.26	124.719		
7,400.00	7,388.03	7,228.15	7,222.43	26.46	25.72	-91.59	74.35	-4,382.97	4,526.30	4,489.54	36.76	123.126		
7,500.00	7,488.03	7,327.77	7,321.67	26.82	26.08	-91.50	81.66	-4,387.65	4,530.81	4,493.54	37.27	121.575		
7,600.00	7,588.03	7,427.39	7,420.91	27.17	26.45	-91.40	88.97	-4,392.32	4,535.33	4,497.56	37.77	120.065		
7,700.00	7,688.03	7,527.01	7,520.15	27.53	26.81	-91.31	96.27	-4,397.00	4,539.86	4,501.58	38.28	118.594		
7,800.00	7,788.03	7,626.63	7,619.39	27.88	27.18	-91.22	103.58	-4,401.67	4,544.40	4,505.62	38.79	117.161		
7,900.00	7,888.03	7,726.25	7,718.64	28.24	27.54	-91.12	110.88	-4,406.35	4,548.96	4,509.66	39.29	115.764		
8,000.00	7,988.03	7,825.87	7,817.88	28.59	27.91	-91.03	118.19	-4,411.03	4,553.53	4,513.72	39.80	114.403		
8,100.00	8,088.03	7,925.49	7,917.12	28.95	28.27	-90.94	125.49	-4,415.70	4,558.11	4,517.80	40.31	113.076		
8,200.00	8,188.03	8,025.11	8,016.36	29.30	28.64	-90.84	132.80	-4,420.38	4,562.70	4,521.88	40.82	111.781		
8,300.00	8,288.03	8,124.73	8,115.60	29.66	29.01	-90.75	140.11	-4,425.05	4,567.30	4,525.97	41.33	110.517		
8,400.00	8,388.03	8,224.35	8,214.85	30.01	29.37	-90.66	147.41	-4,429.73	4,571.92	4,530.08	41.84	109.284		
8,500.00	8,488.03	8,494.24	8,484.31	30.37	30.35	-90.51	159.34	-4,437.37	4,574.74	4,531.93	42.81	106.863		
8,600.00	8,588.03	8,636.07	8,626.13	30.72	30.86	-90.50	159.82	-4,437.67	4,574.85	4,531.43	43.42	105.363		
8,700.00	8,688.03	8,736.07	8,726.13	31.08	31.22	-90.50	159.82	-4,437.67	4,574.85	4,530.92	43.92	104.155		
8,800.00	8,788.03	8,836.07	8,826.13	31.43	31.57	-90.50	159.82	-4,437.67	4,574.85	4,530.42	44.43	102.975		
8,900.00	8,888.03	8,936.07	8,926.13	31.79	31.93	-90.50	159.82	-4,437.67	4,574.85	4,529.92	44.93	101.821		
9,000.00	8,988.03	9,036.07	9,026.13	32.14	32.28	-90.50	159.82	-4,437.67	4,574.85	4,529.41	45.43	100.692		
9,100.00	9,088.03	9,136.07	9,126.13	32.50	32.64	-90.50	159.82	-4,437.67	4,574.85	4,528.91	45.94	99.588		
9,200.00	9,188.03	9,236.07	9,226.13	32.86	32.99	-90.50	159.82	-4,437.67	4,574.85	4,528.40	46.44	98.508		
9,300.00	9,288.03	9,336.07	9,326.13	33.21	33.35	-90.50	159.82	-4,437.67	4,574.85	4,527.90	46.95	97.450		
9,400.00	9,388.03	9,436.07	9,426.13	33.57	33.71	-90.50	159.82	-4,437.67	4,574.85	4,527.40	47.45	96.415		
9,500.00	9,488.03	9,536.07	9,526.13	33.92	34.06	-90.50	159.82	-4,437.67	4,574.85	4,526.89	47.95	95.402		
9,600.00	9,588.03	9,636.07	9,626.13	34.28	34.42	-90.50	159.82	-4,437.67	4,574.85	4,526.39	48.46	94.410		
9,700.00	9,688.03	9,736.07	9,726.13	34.63	34.77	-90.50	159.82	-4,437.67	4,574.85	4,525.89	48.96	93.438		
9,800.00	9,788.03	9,836.07	9,826.13	34.99	35.13	-90.50	159.82	-4,437.67	4,574.85	4,525.38	49.47	92.485		
9,900.00	9,888.03	9,936.07	9,926.13	35.35	35.49	-90.50	159.82	-4,437.67	4,574.85	4,524.88	49.97	91.552		
10,000.00	9,988.03	10,036.07	10,026.13	35.70	35.84	-90.50	159.82	-4,437.67	4,574.85	4,524.37	50.47	90.637		
10,100.00	10,088.03	10,136.07	10,126.13	36.06	36.20	-90.50	159.82	-4,437.67	4,574.85	4,523.87	50.98	89.741		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	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	10,188.03	10,236.07	10,226.13	36.42	36.56	-90.50	159.82	-4,437.67	4,574.85	4,523.36	51.48	88.861		
10,300.00	10,288.03	10,336.07	10,326.13	36.77	36.91	-90.50	159.82	-4,437.67	4,574.85	4,522.86	51.99	87.999		
10,400.00	10,388.03	10,436.07	10,426.13	37.13	37.27	-90.50	159.82	-4,437.67	4,574.85	4,522.35	52.49	87.153		
10,500.00	10,488.03	10,536.07	10,526.13	37.48	37.62	-90.50	159.82	-4,437.67	4,574.85	4,521.85	53.00	86.324		
10,600.00	10,588.03	10,636.07	10,626.13	37.84	37.98	-90.50	159.82	-4,437.67	4,574.85	4,521.35	53.50	85.510		
10,700.00	10,688.03	10,736.07	10,726.13	38.20	38.34	-90.50	159.82	-4,437.67	4,574.85	4,520.84	54.01	84.711		
10,800.00	10,788.03	10,836.07	10,826.13	38.55	38.69	-90.50	159.82	-4,437.67	4,574.85	4,520.34	54.51	83.926		
10,900.00	10,888.03	10,936.07	10,926.13	38.91	39.05	-90.50	159.82	-4,437.67	4,574.85	4,519.83	55.01	83.156		
11,000.00	10,988.03	11,036.07	11,026.13	39.27	39.41	-90.50	159.82	-4,437.67	4,574.85	4,519.33	55.52	82.400		
11,100.00	11,088.03	11,136.07	11,126.13	39.62	39.76	-90.50	159.82	-4,437.67	4,574.85	4,518.82	56.02	81.658		
11,200.00	11,188.03	11,236.07	11,226.13	39.98	40.12	-90.50	159.82	-4,437.67	4,574.85	4,518.32	56.53	80.929		
11,300.00	11,288.03	11,336.07	11,326.13	40.34	40.48	-90.50	159.82	-4,437.67	4,574.85	4,517.81	57.03	80.212		
11,301.80	11,289.83	11,337.86	11,327.93	40.34	40.48	-90.50	159.82	-4,437.67	4,574.85	4,517.80	57.04	80.200		
11,400.00	11,388.03	11,435.84	11,425.79	40.69	40.81	-90.54	156.59	-4,437.64	4,574.85	4,517.32	57.52	79.531		
11,497.97	11,486.00	11,530.12	11,518.29	41.04	41.09	-90.76	138.93	-4,437.49	4,574.90	4,516.93	57.97	78.923		
11,500.00	11,488.03	11,532.01	11,520.11	41.05	41.10	89.79	138.43	-4,437.48	4,574.90	4,516.93	57.98	78.911		
11,550.00	11,537.96	11,577.92	11,563.77	41.21	41.22	89.63	124.24	-4,437.36	4,574.99	4,516.81	58.18	78.640		
11,600.00	11,587.49	11,622.96	11,605.35	41.36	41.34	89.47	106.97	-4,437.21	4,575.11	4,516.74	58.37	78.386		
11,650.00	11,636.26	11,667.20	11,644.75	41.51	41.45	89.32	86.88	-4,437.03	4,575.27	4,516.72	58.55	78.146		
11,700.00	11,683.87	11,710.72	11,681.89	41.65	41.55	89.17	64.21	-4,436.83	4,575.46	4,516.74	58.72	77.921		
11,750.00	11,729.98	11,753.59	11,716.68	41.78	41.64	89.03	39.19	-4,436.61	4,575.67	4,516.79	58.88	77.709		
11,800.00	11,774.24	11,795.87	11,749.08	41.90	41.72	88.89	12.03	-4,436.37	4,575.90	4,516.86	59.04	77.509		
11,850.00	11,816.30	11,837.62	11,779.01	42.01	41.80	88.77	-17.06	-4,436.12	4,576.14	4,516.96	59.19	77.318		
11,900.00	11,855.85	11,878.91	11,806.46	42.11	41.88	88.65	-47.89	-4,435.85	4,576.39	4,517.06	59.33	77.135		
11,950.00	11,892.58	11,919.78	11,831.36	42.20	41.96	88.53	-80.28	-4,435.56	4,576.64	4,517.17	59.47	76.957		
12,000.00	11,926.22	11,960.29	11,853.71	42.29	42.04	88.43	-114.06	-4,435.27	4,576.89	4,517.28	59.61	76.782		
12,050.00	11,956.50	12,000.00	11,873.25	42.39	42.13	88.34	-148.62	-4,434.96	4,577.13	4,517.39	59.75	76.610		
12,100.00	11,983.21	12,040.40	11,890.62	42.50	42.22	88.26	-185.09	-4,434.64	4,577.36	4,517.47	59.88	76.436		
12,150.00	12,006.13	12,080.09	11,905.15	42.61	42.31	88.19	-222.01	-4,434.32	4,577.56	4,517.54	60.03	76.261		
12,200.00	12,025.10	12,119.60	11,917.03	42.72	42.40	88.13	-259.68	-4,433.99	4,577.75	4,517.58	60.17	76.083		
12,250.00	12,039.96	12,158.95	11,926.26	42.84	42.49	88.08	-297.93	-4,433.65	4,577.90	4,517.59	60.31	75.903		
12,300.00	12,050.60	12,200.00	11,933.06	42.96	42.59	88.04	-338.40	-4,433.30	4,578.03	4,517.57	60.46	75.715		
12,350.00	12,056.95	12,237.37	11,936.73	43.08	42.69	88.02	-375.58	-4,432.97	4,578.13	4,517.52	60.61	75.530		
12,386.75	12,058.85	12,266.14	11,937.89	43.17	42.76	88.01	-404.32	-4,432.72	4,578.18	4,517.46	60.73	75.391		
12,400.00	12,059.11	12,278.67	11,938.03	43.21	42.79	88.01	-416.85	-4,432.61	4,578.20	4,517.43	60.77	75.335		
12,500.00	12,061.06	12,378.67	11,939.11	43.50	43.08	88.00	-516.84	-4,431.73	4,578.33	4,517.15	61.18	74.836		
12,600.00	12,063.02	12,478.66	11,940.20	43.85	43.43	87.99	-616.82	-4,430.85	4,578.46	4,516.79	61.67	74.244		
12,700.00	12,064.98	12,578.66	11,941.28	44.25	43.84	87.98	-716.81	-4,429.97	4,578.59	4,516.35	62.24	73.562		
12,800.00	12,066.94	12,678.65	11,942.36	44.72	44.31	87.97	-816.79	-4,429.10	4,578.73	4,515.83	62.90	72.798		
12,900.00	12,068.89	12,778.65	11,943.44	45.24	44.83	87.95	-916.78	-4,428.22	4,578.86	4,515.23	63.63	71.960		
13,000.00	12,070.85	12,878.65	11,944.53	45.81	45.40	87.94	-1,016.77	-4,427.34	4,578.99	4,514.55	64.44	71.057		
13,100.00	12,072.81	12,978.64	11,945.61	46.43	46.03	87.93	-1,116.75	-4,426.46	4,579.12	4,513.80	65.32	70.098		
13,200.00	12,074.77	13,078.64	11,946.69	47.11	46.71	87.92	-1,216.74	-4,425.59	4,579.26	4,512.98	66.28	69.090		
13,300.00	12,076.72	13,178.63	11,947.77	47.83	47.44	87.91	-1,316.73	-4,424.71	4,579.39	4,512.09	67.30	68.043		
13,400.00	12,078.68	13,278.63	11,948.86	48.60	48.21	87.90	-1,416.71	-4,423.83	4,579.52	4,511.14	68.39	66.964		
13,500.00	12,080.64	13,378.63	11,949.94	49.41	49.02	87.89	-1,516.70	-4,422.95	4,579.66	4,510.12	69.54	65.860		
13,600.00	12,082.59	13,478.62	11,951.02	50.26	49.88	87.88	-1,616.69	-4,422.07	4,579.79	4,509.05	70.74	64.739		
13,700.00	12,084.55	13,578.62	11,952.10	51.15	50.77	87.87	-1,716.67	-4,421.20	4,579.93	4,507.92	72.00	63.606		
13,800.00	12,086.51	13,678.61	11,953.19	52.08	51.71	87.86	-1,816.66	-4,420.32	4,580.06	4,506.74	73.32	62.467		
13,900.00	12,088.47	13,778.61	11,954.27	53.04	52.67	87.85	-1,916.64	-4,419.44	4,580.19	4,505.51	74.68	61.328		
14,000.00	12,090.42	13,878.61	11,955.35	54.04	53.67	87.83	-2,016.63	-4,418.56	4,580.33	4,504.23	76.10	60.192		
14,100.00	12,092.38	13,978.60	11,956.43	55.07	54.71	87.82	-2,116.62	-4,417.69	4,580.46	4,502.91	77.55	59.063		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Judge Baylor Fed Com - Judge Baylor Fed Com 601H - OH - Plan #2		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)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor						
14,200.00	12,094.34	14,078.60	11,957.52	56.13	55.77	87.81	-2,216.60	-4,416.81	4,580.60	4,501.55	79.05	57.945						
14,300.00	12,096.30	14,178.60	11,958.60	57.21	56.86	87.80	-2,316.59	-4,415.93	4,580.73	4,500.14	80.59	56.841						
14,400.00	12,098.25	14,278.59	11,959.68	58.33	57.98	87.79	-2,416.58	-4,415.05	4,580.87	4,498.70	82.17	55.752						
14,500.00	12,100.21	14,378.59	11,960.76	59.46	59.12	87.78	-2,516.56	-4,414.18	4,581.00	4,497.23	83.78	54.681						
14,600.00	12,102.17	14,478.58	11,961.85	60.63	60.29	87.77	-2,616.55	-4,413.30	4,581.14	4,495.72	85.42	53.630						
14,700.00	12,104.12	14,578.58	11,962.93	61.81	61.48	87.76	-2,716.54	-4,412.42	4,581.27	4,494.18	87.10	52.599						
14,800.00	12,106.08	14,678.58	11,964.01	63.01	62.68	87.75	-2,816.52	-4,411.54	4,581.41	4,492.61	88.80	51.590						
14,900.00	12,108.04	14,778.57	11,965.09	64.24	63.91	87.74	-2,916.51	-4,410.66	4,581.55	4,491.01	90.54	50.604						
15,000.00	12,110.00	14,878.57	11,966.17	65.48	65.16	87.73	-3,016.50	-4,409.79	4,581.68	4,489.38	92.30	49.640						
15,100.00	12,111.95	14,978.56	11,967.26	66.74	66.43	87.71	-3,116.48	-4,408.91	4,581.82	4,487.73	94.08	48.699						
15,200.00	12,113.91	15,078.56	11,968.34	68.02	67.71	87.70	-3,216.47	-4,408.03	4,581.95	4,486.06	95.89	47.782						
15,300.00	12,115.87	15,178.56	11,969.42	69.32	69.01	87.69	-3,316.45	-4,407.15	4,582.09	4,484.37	97.73	46.888						
15,400.00	12,117.83	15,278.55	11,970.50	70.63	70.32	87.68	-3,416.44	-4,406.28	4,582.23	4,482.65	99.58	46.017						
15,500.00	12,119.78	15,378.55	11,971.59	71.95	71.65	87.67	-3,516.43	-4,405.40	4,582.36	4,480.91	101.45	45.169						
15,600.00	12,121.74	15,478.54	11,972.67	73.29	72.99	87.66	-3,616.41	-4,404.52	4,582.50	4,479.16	103.34	44.343						
15,700.00	12,123.70	15,578.54	11,973.75	74.64	74.34	87.65	-3,716.40	-4,403.64	4,582.64	4,477.39	105.25	43.540						
15,800.00	12,125.65	15,678.54	11,974.83	76.00	75.71	87.64	-3,816.39	-4,402.76	4,582.78	4,475.60	107.18	42.759						
15,900.00	12,127.61	15,778.53	11,975.92	77.37	77.08	87.63	-3,916.37	-4,401.89	4,582.91	4,473.79	109.12	42.000						
16,000.00	12,129.57	15,878.53	11,977.00	78.75	78.47	87.62	-4,016.36	-4,401.01	4,583.05	4,471.98	111.08	41.261						
16,100.00	12,131.53	15,978.53	11,978.08	80.15	79.86	87.61	-4,116.35	-4,400.13	4,583.19	4,470.14	113.05	40.543						
16,200.00	12,133.48	16,078.52	11,979.16	81.55	81.27	87.59	-4,216.33	-4,399.25	4,583.33	4,468.30	115.03	39.844						
16,300.00	12,135.44	16,178.52	11,980.25	82.96	82.69	87.58	-4,316.32	-4,398.38	4,583.46	4,466.44	117.03	39.165						
16,400.00	12,137.40	16,278.51	11,981.33	84.38	84.11	87.57	-4,416.31	-4,397.50	4,583.60	4,464.56	119.04	38.505						
16,500.00	12,139.36	16,378.51	11,982.41	85.81	85.54	87.56	-4,516.29	-4,396.62	4,583.74	4,462.68	121.06	37.863						
16,600.00	12,141.31	16,478.51	11,983.49	87.25	86.98	87.55	-4,616.28	-4,395.74	4,583.88	4,460.79	123.09	37.239						
16,700.00	12,143.27	16,578.50	11,984.58	88.70	88.43	87.54	-4,716.26	-4,394.87	4,584.02	4,458.88	125.14	36.632						
16,800.00	12,145.23	16,678.50	11,985.66	90.15	89.89	87.53	-4,816.25	-4,393.99	4,584.16	4,456.97	127.19	36.042						
16,900.00	12,147.18	16,778.49	11,986.74	91.61	91.35	87.52	-4,916.24	-4,393.11	4,584.30	4,455.04	129.25	35.468						
17,000.00	12,149.14	16,878.49	11,987.82	93.07	92.81	87.51	-5,016.22	-4,392.23	4,584.44	4,453.11	131.32	34.909						
17,100.00	12,151.10	16,978.49	11,988.91	94.54	94.29	87.50	-5,116.21	-4,391.35	4,584.58	4,451.17	133.40	34.366						
17,200.00	12,153.06	17,078.48	11,989.99	96.02	95.77	87.49	-5,216.20	-4,390.48	4,584.72	4,449.22	135.49	33.837						
17,300.00	12,155.01	17,178.48	11,991.07	97.50	97.25	87.48	-5,316.18	-4,389.60	4,584.86	4,447.27	137.59	33.323						
17,400.00	12,156.97	17,278.48	11,992.15	98.99	98.74	87.46	-5,416.17	-4,388.72	4,585.00	4,445.30	139.69	32.822						
17,500.00	12,158.93	17,378.47	11,993.24	100.48	100.24	87.45	-5,516.16	-4,387.84	4,585.14	4,443.33	141.81	32.334						
17,600.00	12,160.89	17,478.47	11,994.32	101.98	101.74	87.44	-5,616.14	-4,386.97	4,585.28	4,441.35	143.92	31.859						
17,700.00	12,162.84	17,578.46	11,995.40	103.49	103.24	87.43	-5,716.13	-4,386.09	4,585.42	4,439.37	146.05	31.397						
17,800.00	12,164.80	17,678.46	11,996.48	104.99	104.75	87.42	-5,816.12	-4,385.21	4,585.56	4,437.38	148.18	30.946						
17,900.00	12,166.76	17,778.46	11,997.56	106.51	106.27	87.41	-5,916.10	-4,384.33	4,585.70	4,435.38	150.32	30.507						
18,000.00	12,168.71	17,878.45	11,998.65	108.02	107.79	87.40	-6,016.09	-4,383.45	4,585.84	4,433.38	152.46	30.079						
18,100.00	12,170.67	17,978.45	11,999.73	109.54	109.31	87.39	-6,116.07	-4,382.58	4,585.98	4,431.37	154.61	29.662						
18,200.00	12,172.63	18,078.44	12,000.81	111.07	110.83	87.38	-6,216.06	-4,381.70	4,586.12	4,429.36	156.76	29.256						
18,300.00	12,174.59	18,178.44	12,001.89	112.59	112.36	87.37	-6,316.05	-4,380.82	4,586.26	4,427.34	158.92	28.859						
18,400.00	12,176.54	18,278.44	12,002.98	114.12	113.89	87.36	-6,416.03	-4,379.94	4,586.40	4,425.32	161.08	28.472						
18,500.00	12,178.50	18,378.43	12,004.06	115.66	115.43	87.35	-6,516.02	-4,379.07	4,586.55	4,423.30	163.25	28.095						
18,600.00	12,180.46	18,478.43	12,005.14	117.20	116.97	87.33	-6,616.01	-4,378.19	4,586.69	4,421.27	165.42	27.727						
18,700.00	12,182.42	18,578.42	12,006.22	118.74	118.51	87.32	-6,715.99	-4,377.31	4,586.83	4,419.23	167.60	27.368						
18,800.00	12,184.37	18,678.42	12,007.31	120.28	120.06	87.31	-6,815.98	-4,376.43	4,586.97	4,417.19	169.78	27.017						
18,900.00	12,186.33	18,778.42	12,008.39	121.83	121.60	87.30	-6,915.97	-4,375.55	4,587.12	4,415.15	171.97	26.675						
19,000.00	12,188.29	18,878.41	12,009.47	123.38	123.15	87.29	-7,015.95	-4,374.68	4,587.26	4,413.10	174.15	26.340						
19,100.00	12,190.24	18,978.41	12,010.55	124.93	124.71	87.28	-7,115.94	-4,373.80	4,587.40	4,411.05	176.35	26.013						
19,200.00	12,192.20	19,078.41	12,011.64	126.48	126.26	87.27	-7,215.92	-4,372.92	4,587.54	4,409.00	178.54	25.694						
19,300.00	12,194.16	19,178.40	12,012.72	128.04	127.82	87.26	-7,315.91	-4,372.04	4,587.69	4,406.94	180.74	25.382						

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Judge Baylor Fed Com - Judge Baylor Fed Com 601H - OH - Plan #2		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 +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor						
19,400.00	12,196.12	19,278.40	12,013.80	129.60	129.38	87.25	-7,415.90	-4,371.17	4,587.83	4,404.88	182.95	25.078						
19,500.00	12,198.07	19,378.39	12,014.88	131.16	130.94	87.24	-7,515.88	-4,370.29	4,587.97	4,402.82	185.15	24.780						
19,600.00	12,200.03	19,478.39	12,015.97	132.72	132.51	87.23	-7,615.87	-4,369.41	4,588.12	4,400.76	187.36	24.488						
19,700.00	12,201.99	19,578.39	12,017.05	134.29	134.08	87.21	-7,715.86	-4,368.53	4,588.26	4,398.69	189.57	24.203						
19,800.00	12,203.95	19,678.38	12,018.13	135.86	135.65	87.20	-7,815.84	-4,367.66	4,588.40	4,396.62	191.79	23.924						
19,900.00	12,205.90	19,778.38	12,019.21	137.43	137.22	87.19	-7,915.83	-4,366.78	4,588.55	4,394.54	194.00	23.652						
20,000.00	12,207.86	19,878.37	12,020.30	139.00	138.79	87.18	-8,015.82	-4,365.90	4,588.69	4,392.47	196.22	23.385						
20,100.00	12,209.82	19,978.37	12,021.38	140.57	140.36	87.17	-8,115.80	-4,365.02	4,588.84	4,390.39	198.45	23.124						
20,200.00	12,211.77	20,078.37	12,022.46	142.15	141.94	87.16	-8,215.79	-4,364.14	4,588.98	4,388.31	200.67	22.868						
20,300.00	12,213.73	20,178.36	12,023.54	143.72	143.52	87.15	-8,315.78	-4,363.27	4,589.13	4,386.23	202.90	22.618						
20,400.00	12,215.69	20,278.36	12,024.63	145.30	145.10	87.14	-8,415.76	-4,362.39	4,589.27	4,384.14	205.13	22.372						
20,500.00	12,217.65	20,378.35	12,025.71	146.88	146.68	87.13	-8,515.75	-4,361.51	4,589.42	4,382.05	207.36	22.132						
20,600.00	12,219.60	20,478.35	12,026.79	148.47	148.26	87.12	-8,615.73	-4,360.63	4,589.56	4,379.97	209.60	21.897						
20,700.00	12,221.56	20,578.35	12,027.87	150.05	149.85	87.11	-8,715.72	-4,359.76	4,589.71	4,377.87	211.83	21.667						
20,800.00	12,223.52	20,678.34	12,028.95	151.63	151.43	87.10	-8,815.71	-4,358.88	4,589.85	4,375.78	214.07	21.441						
20,900.00	12,225.48	20,778.34	12,030.04	153.22	153.02	87.08	-8,915.69	-4,358.00	4,590.00	4,373.69	216.31	21.219						
21,000.00	12,227.43	20,878.34	12,031.12	154.81	154.61	87.07	-9,015.68	-4,357.12	4,590.14	4,371.59	218.55	21.002						
21,100.00	12,229.39	20,978.33	12,032.20	156.40	156.20	87.06	-9,115.67	-4,356.24	4,590.29	4,369.49	220.80	20.790						
21,200.00	12,231.35	21,078.33	12,033.28	157.99	157.79	87.05	-9,215.65	-4,355.37	4,590.44	4,367.39	223.04	20.581						
21,300.00	12,233.30	21,178.32	12,034.37	159.58	159.38	87.04	-9,315.64	-4,354.49	4,590.58	4,365.29	225.29	20.376						
21,400.00	12,235.26	21,278.32	12,035.45	161.17	160.98	87.03	-9,415.63	-4,353.61	4,590.73	4,363.19	227.54	20.175						
21,500.00	12,237.22	21,378.32	12,036.53	162.77	162.57	87.02	-9,515.61	-4,352.73	4,590.88	4,361.08	229.79	19.978						
21,600.00	12,239.18	21,478.31	12,037.61	164.36	164.17	87.01	-9,615.60	-4,351.86	4,591.02	4,358.98	232.04	19.785						
21,700.00	12,241.13	21,578.31	12,038.70	165.96	165.76	87.00	-9,715.59	-4,350.98	4,591.17	4,356.87	234.30	19.595						
21,800.00	12,243.09	21,678.30	12,039.78	167.56	167.36	86.99	-9,815.57	-4,350.10	4,591.32	4,354.76	236.55	19.409						
21,900.00	12,245.05	21,778.30	12,040.86	169.16	168.96	86.98	-9,915.56	-4,349.22	4,591.47	4,352.65	238.81	19.226						
22,000.00	12,247.01	21,878.30	12,041.94	170.76	170.56	86.97	-10,015.54	-4,348.35	4,591.61	4,350.54	241.07	19.047						
22,100.00	12,248.96	21,978.29	12,043.03	172.36	172.16	86.95	-10,115.53	-4,347.47	4,591.76	4,348.43	243.33	18.871						
22,200.00	12,250.92	22,078.29	12,044.11	173.96	173.77	86.94	-10,215.52	-4,346.59	4,591.91	4,346.32	245.59	18.698						
22,300.00	12,252.88	22,178.29	12,045.19	175.56	175.37	86.93	-10,315.50	-4,345.71	4,592.06	4,344.21	247.85	18.528						
22,400.00	12,254.83	22,278.28	12,046.27	177.16	176.97	86.92	-10,415.49	-4,344.83	4,592.20	4,342.09	250.11	18.361						
22,500.00	12,256.79	22,378.28	12,047.36	178.77	178.58	86.91	-10,515.48	-4,343.96	4,592.35	4,339.98	252.38	18.196						
22,600.00	12,258.75	22,478.27	12,048.44	180.37	180.18	86.90	-10,615.46	-4,343.08	4,592.50	4,337.86	254.64	18.035						
22,695.11	12,260.61	22,572.67	12,049.46	181.90	181.70	86.89	-10,709.85	-4,342.25	4,592.64	4,335.85	256.79	17.885 SF						



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Judge Baylor Fed Com - Judge Baylor Fed Com 701H - OH - Plan #2		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	37.80	37.80	0.00	0.05	-90.53	-39.86	-4,274.68	4,274.87								
100.00	100.00	137.80	137.80	0.14	0.28	-90.53	-39.86	-4,274.68	4,274.87	4,274.55	0.31	N/A					
200.00	200.00	237.80	237.80	0.50	0.64	-90.53	-39.86	-4,274.68	4,274.87	4,274.06	0.81	5,286.008					
300.00	300.00	337.80	337.80	0.86	0.99	-90.53	-39.86	-4,274.68	4,274.87	4,273.55	1.31	3,254.630					
400.00	400.00	437.80	437.80	1.22	1.35	-90.53	-39.86	-4,274.68	4,274.87	4,273.05	1.82	2,349.534					
500.00	500.00	537.80	537.80	1.58	1.71	-90.53	-39.86	-4,274.68	4,274.87	4,272.54	2.33	1,837.974					
600.00	600.00	637.80	637.80	1.93	2.07	-90.53	-39.86	-4,274.68	4,274.87	4,272.03	2.83	1,509.242					
700.00	700.00	737.80	737.80	2.29	2.43	-90.53	-39.86	-4,274.68	4,274.87	4,271.53	3.34	1,280.218					
800.00	800.00	837.80	837.80	2.65	2.79	-90.53	-39.86	-4,274.68	4,274.87	4,271.02	3.85	1,111.526					
900.00	900.00	937.80	937.80	3.01	3.14	-90.53	-39.86	-4,274.68	4,274.87	4,270.51	4.35	982.105					
1,000.00	1,000.00	1,037.80	1,037.80	3.37	3.50	-90.53	-39.86	-4,274.68	4,274.87	4,270.01	4.86	879.674					
1,100.00	1,100.00	1,137.80	1,137.80	3.73	3.86	-90.53	-39.86	-4,274.68	4,274.87	4,269.50	5.37	796.588					
1,200.00	1,200.00	1,237.80	1,237.80	4.08	4.22	-90.53	-39.86	-4,274.68	4,274.87	4,268.99	5.87	727.841					
1,300.00	1,300.00	1,337.80	1,337.80	4.44	4.58	-90.53	-39.86	-4,274.68	4,274.87	4,268.49	6.38	670.016					
1,400.00	1,400.00	1,437.80	1,437.80	4.80	4.94	-90.53	-39.86	-4,274.68	4,274.87	4,267.98	6.89	620.702					
1,500.00	1,500.00	1,537.80	1,537.80	5.16	5.30	-90.53	-39.86	-4,274.68	4,274.87	4,267.47	7.39	578.149					
1,600.00	1,600.00	1,637.80	1,637.80	5.52	5.65	-90.53	-39.86	-4,274.68	4,274.87	4,266.96	7.90	541.056					
1,700.00	1,700.00	1,737.80	1,737.80	5.88	6.01	-90.53	-39.86	-4,274.68	4,274.87	4,266.46	8.41	508.435					
1,800.00	1,800.00	1,837.80	1,837.80	6.24	6.37	-90.53	-39.86	-4,274.68	4,274.87	4,265.95	8.91	479.524					
1,900.00	1,900.00	1,937.80	1,937.80	6.59	6.73	-90.53	-39.86	-4,274.68	4,274.87	4,265.44	9.42	453.723					
2,000.00	2,000.00	2,037.80	2,037.80	6.95	7.09	-90.53	-39.86	-4,274.68	4,274.87	4,264.94	9.93	430.558					
2,100.00	2,100.00	2,137.80	2,137.80	7.31	7.45	-90.53	-39.86	-4,274.68	4,274.87	4,264.43	10.44	409.642					
2,200.00	2,200.00	2,237.80	2,237.80	7.67	7.81	-90.53	-39.86	-4,274.68	4,274.87	4,263.92	10.94	390.665					
2,300.00	2,300.00	2,337.80	2,337.80	8.03	8.16	-90.53	-39.86	-4,274.68	4,274.87	4,263.42	11.45	373.368					
2,400.00	2,400.00	2,437.80	2,437.80	8.39	8.52	-90.53	-39.86	-4,274.68	4,274.87	4,262.91	11.96	357.537					
2,500.00	2,500.00	2,537.80	2,537.80	8.74	8.88	-90.53	-39.86	-4,274.68	4,274.87	4,262.40	12.46	342.995					
2,600.00	2,600.00	2,637.80	2,637.80	9.10	9.24	-90.53	-39.86	-4,274.68	4,274.87	4,261.90	12.97	329.589					
2,700.00	2,700.00	2,737.80	2,737.80	9.46	9.60	-90.53	-39.86	-4,274.68	4,274.87	4,261.39	13.48	317.191					
2,800.00	2,800.00	2,837.80	2,837.80	9.82	9.96	-90.53	-39.86	-4,274.68	4,274.87	4,260.88	13.98	305.693					
2,900.00	2,900.00	2,937.80	2,937.80	10.18	10.31	-90.53	-39.86	-4,274.68	4,274.87	4,260.37	14.49	294.999					
3,000.00	3,000.00	3,037.80	3,037.80	10.54	10.67	-90.53	-39.86	-4,274.68	4,274.87	4,259.87	15.00	285.028					
3,100.00	3,100.00	3,137.80	3,137.80	10.90	11.03	-90.53	-39.86	-4,274.68	4,274.87	4,259.36	15.51	275.709					
3,200.00	3,200.00	3,237.80	3,237.80	11.25	11.39	-90.53	-39.86	-4,274.68	4,274.87	4,258.85	16.01	266.979					
3,300.00	3,300.00	3,337.80	3,337.80	11.61	11.75	-90.53	-39.86	-4,274.68	4,274.87	4,258.35	16.52	258.786					
3,400.00	3,400.00	3,437.80	3,437.80	11.97	12.11	-90.53	-39.86	-4,274.68	4,274.87	4,257.84	17.03	251.081					
3,500.00	3,500.00	3,537.80	3,537.80	12.33	12.47	-90.53	-39.86	-4,274.68	4,274.87	4,257.33	17.53	243.821					
3,600.00	3,600.00	3,637.80	3,637.80	12.69	12.82	-90.53	-39.86	-4,274.68	4,274.87	4,256.83	18.04	236.969					
3,700.00	3,700.00	3,737.80	3,737.80	13.05	13.18	-90.53	-39.86	-4,274.68	4,274.87	4,256.32	18.55	230.492					
3,800.00	3,800.00	3,837.80	3,837.80	13.41	13.54	-90.53	-39.86	-4,274.68	4,274.87	4,255.81	19.05	224.359					
3,900.00	3,900.00	3,937.80	3,937.80	13.76	13.90	-90.53	-39.86	-4,274.68	4,274.87	4,255.31	19.56	218.545					
4,000.00	4,000.00	4,037.80	4,037.80	14.12	14.26	-90.53	-39.86	-4,274.68	4,274.87	4,254.80	20.07	213.024					
4,100.00	4,100.00	4,137.80	4,137.80	14.48	14.62	-90.53	-39.86	-4,274.68	4,274.87	4,254.29	20.57	207.775					
4,200.00	4,200.00	4,237.80	4,237.80	14.84	14.97	-90.53	-39.86	-4,274.68	4,274.87	4,253.78	21.08	202.779					
4,300.00	4,300.00	4,337.80	4,337.80	15.20	15.33	-90.53	-39.86	-4,274.68	4,274.87	4,253.28	21.59	198.017					
4,400.00	4,400.00	4,437.80	4,437.80	15.56	15.69	-90.53	-39.86	-4,274.68	4,274.87	4,252.77	22.10	193.474					
4,500.00	4,500.00	4,537.80	4,537.80	15.91	16.05	-90.53	-39.86	-4,274.68	4,274.87	4,252.26	22.60	189.134					
4,600.00	4,599.99	4,716.03	4,716.01	16.27	16.69	-124.95	-38.44	-4,273.63	4,275.27	4,251.97	23.30	183.468					
4,700.00	4,699.91	4,962.69	4,962.15	16.63	17.56	-124.91	-26.12	-4,264.51	4,273.48	4,249.32	24.15	176.936					
4,800.00	4,799.69	5,062.66	5,061.74	16.98	17.92	-124.91	-19.11	-4,259.32	4,271.96	4,247.31	24.65	173.285					
4,850.85	4,850.35	5,113.50	5,112.39	17.16	18.10	-124.91	-15.54	-4,256.68	4,271.77	4,246.86	24.91	171.507					
4,899.76	4,899.04	5,162.42	5,161.12	17.34	18.27	-124.92	-12.11	-4,254.15	4,271.95	4,246.80	25.15	169.843					
5,000.00	4,998.72	5,262.64	5,260.96	17.69	18.63	-124.94	-5.08	-4,248.95	4,272.69	4,247.03	25.66	166.542					

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,098.18	5,362.62	5,360.56	18.05	18.99	-124.96	1.93	-4,243.76	4,273.42	4,247.26	26.16	163.368		
5,200.00	5,197.63	5,462.61	5,460.17	18.41	19.35	-124.98	8.94	-4,238.57	4,274.15	4,247.49	26.66	160.305		
5,300.00	5,297.08	5,562.59	5,559.77	18.77	19.71	-125.00	15.95	-4,233.38	4,274.89	4,247.72	27.17	157.349		
5,400.00	5,396.53	5,662.58	5,659.37	19.13	20.07	-125.02	22.96	-4,228.19	4,275.63	4,247.95	27.67	154.495		
5,500.00	5,495.99	5,762.56	5,758.98	19.50	20.43	-125.05	29.97	-4,223.00	4,276.36	4,248.18	28.18	151.738		
5,600.00	5,595.44	5,862.55	5,858.58	19.86	20.80	-125.07	36.99	-4,217.81	4,277.10	4,248.41	28.69	149.073		
5,700.00	5,694.89	5,962.53	5,958.18	20.22	21.16	-125.09	44.00	-4,212.63	4,277.84	4,248.64	29.20	146.497		
5,800.00	5,794.34	6,062.51	6,057.79	20.59	21.52	-125.11	51.01	-4,207.44	4,278.57	4,248.86	29.71	144.004		
5,900.00	5,893.80	6,162.50	6,157.39	20.96	21.89	-125.13	58.02	-4,202.25	4,279.31	4,249.09	30.22	141.592		
6,000.00	5,993.25	6,262.48	6,256.99	21.33	22.25	-125.15	65.03	-4,197.06	4,280.05	4,249.32	30.74	139.256		
6,100.00	6,092.70	6,362.47	6,356.60	21.69	22.62	-125.17	72.04	-4,191.87	4,280.79	4,249.54	31.25	136.993		
6,200.00	6,192.16	6,462.45	6,456.20	22.06	22.98	-125.20	79.05	-4,186.68	4,281.53	4,249.77	31.76	134.800		
6,300.00	6,291.61	6,562.44	6,555.80	22.43	23.35	-125.22	86.07	-4,181.49	4,282.27	4,250.00	32.28	132.675		
6,400.00	6,391.06	6,662.42	6,655.41	22.80	23.72	-125.24	93.08	-4,176.31	4,283.02	4,250.23	32.79	130.613		
6,500.00	6,490.51	6,762.41	6,755.01	23.18	24.09	-125.26	100.09	-4,171.12	4,283.76	4,250.45	33.31	128.613		
6,600.00	6,589.97	6,862.39	6,854.61	23.55	24.45	-125.28	107.10	-4,165.93	4,284.50	4,250.68	33.82	126.671		
6,700.00	6,689.42	6,962.37	6,954.22	23.92	24.82	-125.30	114.11	-4,160.74	4,285.25	4,250.91	34.34	124.786		
6,800.00	6,788.87	7,062.36	7,053.82	24.30	25.19	-125.32	121.12	-4,155.55	4,285.99	4,251.13	34.86	122.955		
6,820.20	6,808.96	7,082.56	7,073.94	24.37	25.27	-125.33	122.54	-4,154.50	4,286.14	4,251.18	34.96	122.591		
6,900.00	6,888.41	7,162.35	7,153.43	24.67	25.56	-125.34	128.14	-4,150.36	4,286.25	4,250.88	35.38	121.164		
7,000.00	6,988.15	7,262.33	7,253.03	25.04	25.93	-125.31	135.15	-4,145.17	4,285.03	4,249.14	35.89	119.390		
7,100.00	7,088.05	7,362.24	7,352.56	25.40	26.30	-125.23	142.15	-4,139.99	4,282.30	4,245.90	36.40	117.631		
7,200.00	7,188.03	7,451.80	7,441.77	25.75	26.63	-125.11	148.43	-4,135.34	4,278.08	4,241.19	36.89	115.967		
7,219.97	7,208.00	7,469.73	7,459.64	25.83	26.70	-90.68	149.66	-4,134.44	4,277.08	4,240.10	36.99	115.637		
7,300.00	7,288.03	7,500.00	7,489.82	26.11	26.81	-90.65	151.57	-4,133.02	4,273.44	4,236.17	37.27	114.651		
7,400.00	7,388.03	7,576.87	7,566.53	26.46	27.09	-90.60	155.56	-4,130.07	4,269.62	4,231.89	37.72	113.180		
7,500.00	7,488.03	7,636.53	7,626.12	26.82	27.31	-90.57	157.81	-4,128.41	4,266.79	4,228.66	38.13	111.902		
7,600.00	7,588.03	7,700.00	7,689.56	27.17	27.54	-90.55	159.37	-4,127.25	4,264.92	4,226.38	38.54	110.657		
7,700.00	7,688.03	7,756.05	7,745.60	27.53	27.73	-90.54	160.05	-4,126.75	4,263.98	4,225.05	38.93	109.525		
7,765.57	7,753.61	7,801.86	7,791.41	27.76	27.90	-90.54	160.14	-4,126.68	4,263.87	4,224.66	39.21	108.746		
7,800.00	7,788.03	7,836.28	7,825.83	27.88	28.02	-90.54	160.14	-4,126.68	4,263.87	4,224.48	39.38	108.268		
7,900.00	7,888.03	7,936.28	7,925.83	28.24	28.37	-90.54	160.14	-4,126.68	4,263.87	4,223.98	39.88	106.904		
8,000.00	7,988.03	8,036.28	8,025.83	28.59	28.73	-90.54	160.14	-4,126.68	4,263.87	4,223.48	40.39	105.574		
8,100.00	8,088.03	8,136.28	8,125.83	28.95	29.08	-90.54	160.14	-4,126.68	4,263.87	4,222.98	40.89	104.276		
8,200.00	8,188.03	8,236.28	8,225.83	29.30	29.44	-90.54	160.14	-4,126.68	4,263.87	4,222.47	41.39	103.009		
8,300.00	8,288.03	8,336.28	8,325.83	29.66	29.79	-90.54	160.14	-4,126.68	4,263.87	4,221.97	41.90	101.773		
8,400.00	8,388.03	8,436.28	8,425.83	30.01	30.15	-90.54	160.14	-4,126.68	4,263.87	4,221.47	42.40	100.565		
8,500.00	8,488.03	8,536.28	8,525.83	30.37	30.50	-90.54	160.14	-4,126.68	4,263.87	4,220.96	42.90	99.386		
8,600.00	8,588.03	8,636.28	8,625.83	30.72	30.86	-90.54	160.14	-4,126.68	4,263.87	4,220.46	43.41	98.233		
8,700.00	8,688.03	8,736.28	8,725.83	31.08	31.21	-90.54	160.14	-4,126.68	4,263.87	4,219.96	43.91	97.107		
8,800.00	8,788.03	8,836.28	8,825.83	31.43	31.57	-90.54	160.14	-4,126.68	4,263.87	4,219.45	44.41	96.007		
8,900.00	8,888.03	8,936.28	8,925.83	31.79	31.92	-90.54	160.14	-4,126.68	4,263.87	4,218.95	44.92	94.931		
9,000.00	8,988.03	9,036.28	9,025.83	32.14	32.28	-90.54	160.14	-4,126.68	4,263.87	4,218.45	45.42	93.878		
9,100.00	9,088.03	9,136.28	9,125.83	32.50	32.63	-90.54	160.14	-4,126.68	4,263.87	4,217.94	45.92	92.849		
9,200.00	9,188.03	9,236.28	9,225.83	32.86	32.99	-90.54	160.14	-4,126.68	4,263.87	4,217.44	46.43	91.841		
9,300.00	9,288.03	9,336.28	9,325.83	33.21	33.35	-90.54	160.14	-4,126.68	4,263.87	4,216.94	46.93	90.856		
9,400.00	9,388.03	9,436.28	9,425.83	33.57	33.70	-90.54	160.14	-4,126.68	4,263.87	4,216.43	47.43	89.891		
9,500.00	9,488.03	9,536.28	9,525.83	33.92	34.06	-90.54	160.14	-4,126.68	4,263.87	4,215.93	47.94	88.946		
9,600.00	9,588.03	9,636.28	9,625.83	34.28	34.41	-90.54	160.14	-4,126.68	4,263.87	4,215.42	48.44	88.020		
9,700.00	9,688.03	9,736.28	9,725.83	34.63	34.77	-90.54	160.14	-4,126.68	4,263.87	4,214.92	48.95	87.114		
9,800.00	9,788.03	9,836.28	9,825.83	34.99	35.12	-90.54	160.14	-4,126.68	4,263.87	4,214.42	49.45	86.226		
9,900.00	9,888.03	9,936.28	9,925.83	35.35	35.48	-90.54	160.14	-4,126.68	4,263.87	4,213.91	49.95	85.356		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	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	9,988.03	10,036.28	10,025.83	35.70	35.84	-90.54	160.14	-4,126.68	4,263.87	4,213.41	50.46	84.503		
10,100.00	10,088.03	10,136.28	10,125.83	36.06	36.19	-90.54	160.14	-4,126.68	4,263.87	4,212.90	50.96	83.667		
10,200.00	10,188.03	10,236.28	10,225.83	36.42	36.55	-90.54	160.14	-4,126.68	4,263.87	4,212.40	51.47	82.847		
10,300.00	10,288.03	10,336.28	10,325.83	36.77	36.90	-90.54	160.14	-4,126.68	4,263.87	4,211.90	51.97	82.043		
10,400.00	10,388.03	10,436.28	10,425.83	37.13	37.26	-90.54	160.14	-4,126.68	4,263.87	4,211.39	52.48	81.254		
10,500.00	10,488.03	10,536.28	10,525.83	37.48	37.62	-90.54	160.14	-4,126.68	4,263.87	4,210.89	52.98	80.481		
10,600.00	10,588.03	10,636.28	10,625.83	37.84	37.97	-90.54	160.14	-4,126.68	4,263.87	4,210.38	53.48	79.721		
10,700.00	10,688.03	10,736.28	10,725.83	38.20	38.33	-90.54	160.14	-4,126.68	4,263.87	4,209.88	53.99	78.976		
10,800.00	10,788.03	10,836.28	10,825.83	38.55	38.69	-90.54	160.14	-4,126.68	4,263.87	4,209.37	54.49	78.245		
10,900.00	10,888.03	10,936.28	10,925.83	38.91	39.04	-90.54	160.14	-4,126.68	4,263.87	4,208.87	55.00	77.527		
11,000.00	10,988.03	11,036.28	11,025.83	39.27	39.40	-90.54	160.14	-4,126.68	4,263.87	4,208.36	55.50	76.822		
11,100.00	11,088.03	11,136.28	11,125.83	39.62	39.76	-90.54	160.14	-4,126.68	4,263.87	4,207.86	56.01	76.130		
11,200.00	11,188.03	11,236.28	11,225.83	39.98	40.11	-90.54	160.14	-4,126.68	4,263.87	4,207.35	56.51	75.450		
11,300.00	11,288.03	11,336.28	11,325.83	40.34	40.47	-90.54	160.14	-4,126.68	4,263.87	4,206.85	57.02	74.782		
11,400.00	11,388.03	11,436.28	11,425.83	40.69	40.83	-90.54	160.14	-4,126.68	4,263.87	4,206.34	57.52	74.126		
11,497.97	11,486.00	11,534.25	11,523.80	41.04	41.17	-90.54	160.14	-4,126.68	4,263.87	4,205.85	58.02	73.494 CC		
11,500.00	11,488.03	11,536.28	11,525.83	41.05	41.18	90.03	160.14	-4,126.68	4,263.87	4,205.84	58.03	73.481		
11,550.00	11,537.96	11,586.21	11,575.76	41.21	41.36	90.06	160.14	-4,126.68	4,263.87	4,205.60	58.26	73.181		
11,600.00	11,587.49	11,635.74	11,625.29	41.36	41.54	90.14	160.14	-4,126.68	4,263.88	4,205.38	58.50	72.890		
11,650.00	11,636.26	11,684.97	11,674.52	41.51	41.71	90.28	159.93	-4,126.68	4,263.92	4,205.20	58.72	72.611		
11,700.00	11,683.87	11,735.58	11,724.99	41.65	41.87	90.44	156.33	-4,126.65	4,264.00	4,205.07	58.93	72.351		
11,750.00	11,729.98	11,787.33	11,776.05	41.78	42.03	90.59	148.06	-4,126.58	4,264.12	4,204.98	59.14	72.104		
11,800.00	11,774.24	11,840.27	11,827.30	41.90	42.18	90.73	134.86	-4,126.46	4,264.27	4,204.93	59.34	71.867		
11,850.00	11,816.30	11,894.45	11,878.26	42.01	42.33	90.88	116.53	-4,126.30	4,264.45	4,204.92	59.52	71.641		
11,900.00	11,855.85	11,949.92	11,928.40	42.11	42.46	91.02	92.86	-4,126.10	4,264.66	4,204.95	59.71	71.425		
11,950.00	11,892.58	12,006.69	11,977.11	42.20	42.59	91.15	63.72	-4,125.84	4,264.88	4,205.00	59.89	71.217		
12,000.00	11,926.22	12,064.79	12,023.71	42.29	42.71	91.28	29.08	-4,125.54	4,265.13	4,205.07	60.06	71.016		
12,050.00	11,956.50	12,124.19	12,067.48	42.39	42.82	91.40	-11.03	-4,125.19	4,265.37	4,205.14	60.23	70.818		
12,100.00	11,983.21	12,184.84	12,107.65	42.50	42.92	91.50	-56.44	-4,124.80	4,265.62	4,205.22	60.40	70.622		
12,150.00	12,006.13	12,246.67	12,143.42	42.61	43.05	91.59	-106.84	-4,124.36	4,265.86	4,205.28	60.57	70.425		
12,200.00	12,025.10	12,309.57	12,174.03	42.72	43.19	91.67	-161.75	-4,123.88	4,266.08	4,205.33	60.75	70.225		
12,250.00	12,039.96	12,373.39	12,198.74	42.84	43.34	91.74	-220.55	-4,123.37	4,266.27	4,205.34	60.93	70.019		
12,300.00	12,050.60	12,437.94	12,216.93	42.96	43.49	91.78	-282.45	-4,122.84	4,266.44	4,205.32	61.12	69.807		
12,350.00	12,056.95	12,503.02	12,228.11	43.08	43.65	91.81	-346.52	-4,122.28	4,266.56	4,205.25	61.31	69.589		
12,386.75	12,058.85	12,551.06	12,231.66	43.17	43.76	91.82	-394.41	-4,121.86	4,266.63	4,205.17	61.46	69.425		
12,400.00	12,059.11	12,567.18	12,231.97	43.21	43.80	91.82	-410.53	-4,121.72	4,266.64	4,205.13	61.51	69.368		
12,500.00	12,061.06	12,667.18	12,233.05	43.50	44.09	91.80	-510.52	-4,120.86	4,266.72	4,204.82	61.91	68.919		
12,600.00	12,063.02	12,767.18	12,234.13	43.85	44.43	91.79	-610.50	-4,119.99	4,266.81	4,204.42	62.39	68.387		
12,700.00	12,064.98	12,867.17	12,235.22	44.25	44.83	91.78	-710.49	-4,119.12	4,266.89	4,203.93	62.96	67.773		
12,800.00	12,066.94	12,967.17	12,236.30	44.72	45.28	91.77	-810.48	-4,118.25	4,266.98	4,203.37	63.60	67.086		
12,900.00	12,068.89	13,067.16	12,237.38	45.24	45.79	91.76	-910.46	-4,117.38	4,267.06	4,202.73	64.33	66.331		
13,000.00	12,070.85	13,167.16	12,238.46	45.81	46.35	91.74	-1,010.45	-4,116.51	4,267.14	4,202.01	65.13	65.516		
13,100.00	12,072.81	13,267.16	12,239.55	46.43	46.96	91.73	-1,110.44	-4,115.65	4,267.23	4,201.22	66.00	64.650		
13,200.00	12,074.77	13,367.15	12,240.63	47.11	47.62	91.72	-1,210.42	-4,114.78	4,267.31	4,200.36	66.95	63.740		
13,300.00	12,076.72	13,467.15	12,241.71	47.83	48.33	91.71	-1,310.41	-4,113.91	4,267.40	4,199.44	67.96	62.793		
13,400.00	12,078.68	13,567.14	12,242.80	48.60	49.08	91.70	-1,410.40	-4,113.04	4,267.48	4,198.45	69.04	61.816		
13,500.00	12,080.64	13,667.14	12,243.88	49.41	49.88	91.69	-1,510.38	-4,112.17	4,267.57	4,197.40	70.17	60.815		
13,600.00	12,082.59	13,767.14	12,244.96	50.26	50.72	91.67	-1,610.37	-4,111.31	4,267.65	4,196.29	71.37	59.798		
13,700.00	12,084.55	13,867.13	12,246.04	51.15	51.60	91.66	-1,710.35	-4,110.44	4,267.74	4,195.12	72.62	58.769		
13,800.00	12,086.51	13,967.13	12,247.13	52.08	52.51	91.65	-1,810.34	-4,109.57	4,267.82	4,193.90	73.92	57.734		
13,900.00	12,088.47	14,067.13	12,248.21	53.04	53.46	91.64	-1,910.33	-4,108.70	4,267.91	4,192.63	75.28	56.697		
14,000.00	12,090.42	14,167.12	12,249.29	54.04	54.45	91.63	-2,010.31	-4,107.83	4,268.00	4,191.32	76.68	55.663		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Judge Baylor Fed Com - Judge Baylor Fed Com 701H - OH - Plan #2		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	12,092.38	14,267.12	12,250.37	55.07	55.46	91.62	-2,110.30	-4,106.96	4,268.08	4,189.96	78.12	54.634						
14,200.00	12,094.34	14,367.11	12,251.46	56.13	56.51	91.60	-2,210.29	-4,106.10	4,268.17	4,188.56	79.61	53.614						
14,300.00	12,096.30	14,467.11	12,252.54	57.21	57.58	91.59	-2,310.27	-4,105.23	4,268.25	4,187.12	81.14	52.605						
14,400.00	12,098.25	14,567.11	12,253.62	58.33	58.68	91.58	-2,410.26	-4,104.36	4,268.34	4,185.64	82.70	51.610						
14,500.00	12,100.21	14,667.10	12,254.71	59.46	59.81	91.57	-2,510.25	-4,103.49	4,268.43	4,184.12	84.30	50.631						
14,600.00	12,102.17	14,767.10	12,255.79	60.63	60.96	91.56	-2,610.23	-4,102.62	4,268.52	4,182.58	85.94	49.669						
14,700.00	12,104.12	14,867.09	12,256.87	61.81	62.13	91.54	-2,710.22	-4,101.75	4,268.60	4,181.00	87.61	48.725						
14,800.00	12,106.08	14,967.09	12,257.95	63.01	63.33	91.53	-2,810.21	-4,100.89	4,268.69	4,179.39	89.30	47.800						
14,900.00	12,108.04	15,067.09	12,259.04	64.24	64.54	91.52	-2,910.19	-4,100.02	4,268.78	4,177.75	91.03	46.895						
15,000.00	12,110.00	15,167.08	12,260.12	65.48	65.77	91.51	-3,010.18	-4,099.15	4,268.86	4,176.08	92.78	46.010						
15,100.00	12,111.95	15,267.08	12,261.20	66.74	67.03	91.50	-3,110.17	-4,098.28	4,268.95	4,174.39	94.56	45.146						
15,200.00	12,113.91	15,367.07	12,262.29	68.02	68.30	91.49	-3,210.15	-4,097.41	4,269.04	4,172.68	96.36	44.303						
15,300.00	12,115.87	15,467.07	12,263.37	69.32	69.58	91.47	-3,310.14	-4,096.54	4,269.13	4,170.95	98.18	43.481						
15,400.00	12,117.83	15,567.07	12,264.45	70.63	70.88	91.46	-3,410.12	-4,095.68	4,269.22	4,169.19	100.03	42.680						
15,500.00	12,119.78	15,667.06	12,265.53	71.95	72.19	91.45	-3,510.11	-4,094.81	4,269.31	4,167.41	101.89	41.899						
15,600.00	12,121.74	15,767.06	12,266.62	73.29	73.52	91.44	-3,610.10	-4,093.94	4,269.40	4,165.62	103.78	41.139						
15,700.00	12,123.70	15,867.06	12,267.70	74.64	74.86	91.43	-3,710.08	-4,093.07	4,269.48	4,163.80	105.68	40.400						
15,800.00	12,125.65	15,967.05	12,268.78	76.00	76.22	91.41	-3,810.07	-4,092.20	4,269.57	4,161.97	107.60	39.680						
15,900.00	12,127.61	16,067.05	12,269.87	77.37	77.58	91.40	-3,910.06	-4,091.33	4,269.66	4,160.13	109.54	38.979						
16,000.00	12,129.57	16,167.04	12,270.95	78.75	78.96	91.39	-4,010.04	-4,090.47	4,269.75	4,158.26	111.49	38.298						
16,100.00	12,131.53	16,267.04	12,272.03	80.15	80.34	91.38	-4,110.03	-4,089.60	4,269.84	4,156.39	113.45	37.635						
16,200.00	12,133.48	16,367.04	12,273.11	81.55	81.74	91.37	-4,210.02	-4,088.73	4,269.93	4,154.50	115.43	36.990						
16,300.00	12,135.44	16,467.03	12,274.20	82.96	83.15	91.36	-4,310.00	-4,087.86	4,270.02	4,152.60	117.43	36.363						
16,400.00	12,137.40	16,567.03	12,275.28	84.38	84.56	91.34	-4,409.99	-4,086.99	4,270.11	4,150.68	119.43	35.754						
16,500.00	12,139.36	16,667.02	12,276.36	85.81	85.98	91.33	-4,509.98	-4,086.12	4,270.20	4,148.75	121.45	35.161						
16,600.00	12,141.31	16,767.02	12,277.44	87.25	87.41	91.32	-4,609.96	-4,085.26	4,270.29	4,146.82	123.48	34.584						
16,700.00	12,143.27	16,867.02	12,278.53	88.70	88.85	91.31	-4,709.95	-4,084.39	4,270.38	4,144.87	125.52	34.023						
16,800.00	12,145.23	16,967.01	12,279.61	90.15	90.30	91.30	-4,809.94	-4,083.52	4,270.48	4,142.91	127.57	33.477						
16,900.00	12,147.18	17,067.01	12,280.69	91.61	91.75	91.29	-4,909.92	-4,082.65	4,270.57	4,140.94	129.62	32.946						
17,000.00	12,149.14	17,167.00	12,281.78	93.07	93.21	91.27	-5,009.91	-4,081.78	4,270.66	4,138.96	131.69	32.429						
17,100.00	12,151.10	17,267.00	12,282.86	94.54	94.68	91.26	-5,109.90	-4,080.92	4,270.75	4,136.98	133.77	31.926						
17,200.00	12,153.06	17,367.00	12,283.94	96.02	96.15	91.25	-5,209.88	-4,080.05	4,270.84	4,134.99	135.86	31.436						
17,300.00	12,155.01	17,466.99	12,285.02	97.50	97.63	91.24	-5,309.87	-4,079.18	4,270.93	4,132.98	137.95	30.960						
17,400.00	12,156.97	17,566.99	12,286.11	98.99	99.11	91.23	-5,409.85	-4,078.31	4,271.03	4,130.97	140.05	30.496						
17,500.00	12,158.93	17,666.99	12,287.19	100.48	100.60	91.21	-5,509.84	-4,077.44	4,271.12	4,128.96	142.16	30.044						
17,600.00	12,160.89	17,766.98	12,288.27	101.98	102.09	91.20	-5,609.83	-4,076.57	4,271.21	4,126.93	144.28	29.604						
17,700.00	12,162.84	17,866.98	12,289.36	103.49	103.59	91.19	-5,709.81	-4,075.71	4,271.30	4,124.90	146.40	29.176						
17,800.00	12,164.80	17,966.97	12,290.44	104.99	105.09	91.18	-5,809.80	-4,074.84	4,271.40	4,122.87	148.53	28.758						
17,900.00	12,166.76	18,066.97	12,291.52	106.51	106.60	91.17	-5,909.79	-4,073.97	4,271.49	4,120.83	150.66	28.351						
18,000.00	12,168.71	18,166.97	12,292.60	108.02	108.11	91.16	-6,009.77	-4,073.10	4,271.58	4,118.78	152.80	27.955						
18,100.00	12,170.67	18,266.96	12,293.69	109.54	109.63	91.14	-6,109.76	-4,072.23	4,271.68	4,116.72	154.95	27.568						
18,200.00	12,172.63	18,366.96	12,294.77	111.07	111.15	91.13	-6,209.75	-4,071.36	4,271.77	4,114.67	157.10	27.191						
18,300.00	12,174.59	18,466.95	12,295.85	112.59	112.67	91.12	-6,309.73	-4,070.50	4,271.86	4,112.60	159.26	26.823						
18,400.00	12,176.54	18,566.95	12,296.94	114.12	114.20	91.11	-6,409.72	-4,069.63	4,271.96	4,110.53	161.42	26.464						
18,500.00	12,178.50	18,666.95	12,298.02	115.66	115.73	91.10	-6,509.71	-4,068.76	4,272.05	4,108.46	163.59	26.114						
18,600.00	12,180.46	18,766.94	12,299.10	117.20	117.26	91.09	-6,609.69	-4,067.89	4,272.14	4,106.38	165.76	25.773						
18,700.00	12,182.42	18,866.94	12,300.18	118.74	118.80	91.07	-6,709.68	-4,067.02	4,272.24	4,104.30	167.94	25.439						
18,800.00	12,184.37	18,966.93	12,301.27	120.28	120.34	91.06	-6,809.67	-4,066.15	4,272.33	4,102.21	170.12	25.114						
18,900.00	12,186.33	19,066.93	12,302.35	121.83	121.88	91.05	-6,909.65	-4,065.29	4,272.43	4,100.12	172.30	24.796						
19,000.00	12,188.29	19,166.93	12,303.43	123.38	123.43	91.04	-7,009.64	-4,064.42	4,272.52	4,098.03	174.49	24.485						
19,100.00	12,190.24	19,266.92	12,304.51	124.93	124.98	91.03	-7,109.62	-4,063.55	4,272.62	4,095.93	176.69	24.182						
19,200.00	12,192.20	19,366.92	12,305.60	126.48	126.53	91.02	-7,209.61	-4,062.68	4,272.71	4,093.83	178.88	23.886						

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,300.00	12,194.16	19,466.92	12,306.68	128.04	128.08	91.00	-7,309.60	-4,061.81	4,272.81	4,091.73	181.08	23.596		
19,400.00	12,196.12	19,566.91	12,307.76	129.60	129.64	90.99	-7,409.58	-4,060.94	4,272.90	4,089.62	183.28	23.313		
19,500.00	12,198.07	19,666.91	12,308.85	131.16	131.20	90.98	-7,509.57	-4,060.08	4,273.00	4,087.51	185.49	23.036		
19,600.00	12,200.03	19,766.90	12,309.93	132.72	132.76	90.97	-7,609.56	-4,059.21	4,273.10	4,085.40	187.70	22.766		
19,700.00	12,201.99	19,866.90	12,311.01	134.29	134.32	90.96	-7,709.54	-4,058.34	4,273.19	4,083.28	189.91	22.501		
19,800.00	12,203.95	19,966.90	12,312.09	135.86	135.88	90.94	-7,809.53	-4,057.47	4,273.29	4,081.16	192.13	22.242		
19,900.00	12,205.90	20,066.89	12,313.18	137.43	137.45	90.93	-7,909.52	-4,056.60	4,273.39	4,079.04	194.35	21.989		
20,000.00	12,207.86	20,166.89	12,314.26	139.00	139.02	90.92	-8,009.50	-4,055.74	4,273.48	4,076.92	196.57	21.741		
20,100.00	12,209.82	20,266.88	12,315.34	140.57	140.59	90.91	-8,109.49	-4,054.87	4,273.58	4,074.79	198.79	21.498		
20,200.00	12,211.77	20,366.88	12,316.43	142.15	142.16	90.90	-8,209.48	-4,054.00	4,273.68	4,072.66	201.02	21.260		
20,300.00	12,213.73	20,466.88	12,317.51	143.72	143.74	90.89	-8,309.46	-4,053.13	4,273.77	4,070.53	203.25	21.028		
20,400.00	12,215.69	20,566.87	12,318.59	145.30	145.32	90.87	-8,409.45	-4,052.26	4,273.87	4,068.39	205.48	20.800		
20,500.00	12,217.65	20,666.87	12,319.67	146.88	146.89	90.86	-8,509.44	-4,051.39	4,273.97	4,066.26	207.71	20.576		
20,600.00	12,219.60	20,766.87	12,320.76	148.47	148.47	90.85	-8,609.42	-4,050.53	4,274.07	4,064.12	209.95	20.358		
20,700.00	12,221.56	20,866.86	12,321.84	150.05	150.05	90.84	-8,709.41	-4,049.66	4,274.17	4,061.98	212.19	20.144		
20,800.00	12,223.52	20,966.86	12,322.92	151.63	151.64	90.83	-8,809.40	-4,048.79	4,274.26	4,059.84	214.43	19.934		
20,900.00	12,225.48	21,066.85	12,324.01	153.22	153.22	90.82	-8,909.38	-4,047.92	4,274.36	4,057.69	216.67	19.728		
21,000.00	12,227.43	21,166.85	12,325.09	154.81	154.81	90.80	-9,009.37	-4,047.05	4,274.46	4,055.55	218.91	19.526		
21,100.00	12,229.39	21,266.85	12,326.17	156.40	156.39	90.79	-9,109.35	-4,046.18	4,274.56	4,053.40	221.16	19.328		
21,200.00	12,231.35	21,366.84	12,327.25	157.99	157.98	90.78	-9,209.34	-4,045.32	4,274.66	4,051.25	223.41	19.134		
21,300.00	12,233.30	21,466.84	12,328.34	159.58	159.57	90.77	-9,309.33	-4,044.45	4,274.76	4,049.10	225.66	18.944		
21,400.00	12,235.26	21,566.83	12,329.42	161.17	161.16	90.76	-9,409.31	-4,043.58	4,274.86	4,046.95	227.91	18.757		
21,500.00	12,237.22	21,666.83	12,330.50	162.77	162.75	90.74	-9,509.30	-4,042.71	4,274.96	4,044.79	230.16	18.574		
21,600.00	12,239.18	21,766.83	12,331.58	164.36	164.35	90.73	-9,609.29	-4,041.84	4,275.06	4,042.64	232.42	18.394		
21,700.00	12,241.13	21,866.82	12,332.67	165.96	165.94	90.72	-9,709.27	-4,040.97	4,275.16	4,040.48	234.67	18.218		
21,800.00	12,243.09	21,966.82	12,333.75	167.56	167.54	90.71	-9,809.26	-4,040.11	4,275.26	4,038.32	236.93	18.044		
21,900.00	12,245.05	22,066.81	12,334.83	169.16	169.13	90.70	-9,909.25	-4,039.24	4,275.36	4,036.17	239.19	17.874		
22,000.00	12,247.01	22,166.81	12,335.92	170.76	170.73	90.69	-10,009.23	-4,038.37	4,275.46	4,034.00	241.45	17.707		
22,100.00	12,248.96	22,266.81	12,337.00	172.36	172.33	90.67	-10,109.22	-4,037.50	4,275.56	4,031.84	243.71	17.543		
22,200.00	12,250.92	22,366.80	12,338.08	173.96	173.93	90.66	-10,209.21	-4,036.63	4,275.66	4,029.68	245.98	17.382		
22,300.00	12,252.88	22,466.80	12,339.16	175.56	175.53	90.65	-10,309.19	-4,035.76	4,275.76	4,027.51	248.24	17.224		
22,400.00	12,254.83	22,566.80	12,340.25	177.16	177.13	90.64	-10,409.18	-4,034.90	4,275.86	4,025.35	250.51	17.069		
22,500.00	12,256.79	22,666.79	12,341.33	178.77	178.73	90.63	-10,509.17	-4,034.03	4,275.96	4,023.18	252.78	16.916		
22,600.00	12,258.75	22,766.79	12,342.41	180.37	180.34	90.62	-10,609.15	-4,033.16	4,276.06	4,021.01	255.05	16.766		
22,695.11	12,260.61	22,861.90	12,343.44	181.90	181.86	90.60	-10,704.25	-4,032.33	4,276.16	4,018.95	257.21	16.625 ES, SF		



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - Plan #2													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	-90.51	-0.31	-35.00	35.00				
100.00	100.00	99.60	99.60	0.14	0.14	-90.51	-0.31	-35.00	35.00	34.80	0.20	175.140	
200.00	200.00	199.60	199.60	0.50	0.50	-90.51	-0.31	-35.00	35.00	34.30	0.71	49.564	
300.00	300.00	299.60	299.60	0.86	0.86	-90.51	-0.31	-35.00	35.00	33.79	1.21	28.852	
400.00	400.00	399.60	399.60	1.22	1.22	-90.51	-0.31	-35.00	35.00	33.28	1.72	20.348	
500.00	500.00	499.60	499.60	1.58	1.57	-90.51	-0.31	-35.00	35.00	32.77	2.23	15.716	
600.00	600.00	599.60	599.60	1.93	1.93	-90.51	-0.31	-35.00	35.00	32.27	2.73	12.802	
700.00	700.00	699.60	699.60	2.29	2.29	-90.51	-0.31	-35.00	35.00	31.76	3.24	10.800	
800.00	800.00	799.60	799.60	2.65	2.65	-90.51	-0.31	-35.00	35.00	31.25	3.75	9.339	
900.00	900.00	899.60	899.60	3.01	3.01	-90.51	-0.31	-35.00	35.00	30.75	4.25	8.226	
1,000.00	1,000.00	999.60	999.60	3.37	3.37	-90.51	-0.31	-35.00	35.00	30.24	4.76	7.350	
1,100.00	1,100.00	1,099.60	1,099.60	3.73	3.72	-90.51	-0.31	-35.00	35.00	29.73	5.27	6.643	
1,200.00	1,200.00	1,199.60	1,199.60	4.08	4.08	-90.51	-0.31	-35.00	35.00	29.23	5.78	6.060	
1,300.00	1,300.00	1,299.60	1,299.60	4.44	4.44	-90.51	-0.31	-35.00	35.00	28.72	6.28	5.571	
1,400.00	1,400.00	1,399.60	1,399.60	4.80	4.80	-90.51	-0.31	-35.00	35.00	28.21	6.79	5.155	
1,500.00	1,500.00	1,499.60	1,499.60	5.16	5.16	-90.51	-0.31	-35.00	35.00	27.70	7.30	4.797	
1,600.00	1,600.00	1,599.60	1,599.60	5.52	5.52	-90.51	-0.31	-35.00	35.00	27.20	7.80	4.485	
1,700.00	1,700.00	1,699.60	1,699.60	5.88	5.88	-90.51	-0.31	-35.00	35.00	26.69	8.31	4.212	
1,800.00	1,800.00	1,799.60	1,799.60	6.24	6.23	-90.51	-0.31	-35.00	35.00	26.18	8.82	3.970	
1,900.00	1,900.00	1,899.60	1,899.60	6.59	6.59	-90.51	-0.31	-35.00	35.00	25.68	9.32	3.754	
2,000.00	2,000.00	1,999.60	1,999.60	6.95	6.95	-90.51	-0.31	-35.00	35.00	25.17	9.83	3.560	
2,100.00	2,100.00	2,099.60	2,099.60	7.31	7.31	-90.51	-0.31	-35.00	35.00	24.66	10.34	3.386	
2,200.00	2,200.00	2,199.60	2,199.60	7.67	7.67	-90.51	-0.31	-35.00	35.00	24.16	10.85	3.227	
2,300.00	2,300.00	2,299.60	2,299.60	8.03	8.03	-90.51	-0.31	-35.00	35.00	23.65	11.35	3.083	
2,400.00	2,400.00	2,399.60	2,399.60	8.39	8.39	-90.51	-0.31	-35.00	35.00	23.14	11.86	2.951	
2,500.00	2,500.00	2,499.60	2,499.60	8.74	8.74	-90.51	-0.31	-35.00	35.00	22.64	12.37	2.830	
2,600.00	2,600.00	2,599.60	2,599.60	9.10	9.10	-90.51	-0.31	-35.00	35.00	22.13	12.87	2.719	
2,700.00	2,700.00	2,699.60	2,699.60	9.46	9.46	-90.51	-0.31	-35.00	35.00	21.62	13.38	2.616	
2,800.00	2,800.00	2,799.60	2,799.60	9.82	9.82	-90.51	-0.31	-35.00	35.00	21.11	13.89	2.520	
2,900.00	2,900.00	2,899.60	2,899.60	10.18	10.18	-90.51	-0.31	-35.00	35.00	20.61	14.39	2.432	
3,000.00	3,000.00	2,999.60	2,999.60	10.54	10.54	-90.51	-0.31	-35.00	35.00	20.10	14.90	2.349	
3,100.00	3,100.00	3,099.60	3,099.60	10.90	10.89	-90.51	-0.31	-35.00	35.00	19.59	15.41	2.272	
3,200.00	3,200.00	3,199.60	3,199.60	11.25	11.25	-90.51	-0.31	-35.00	35.00	19.09	15.91	2.199	
3,300.00	3,300.00	3,299.60	3,299.60	11.61	11.61	-90.51	-0.31	-35.00	35.00	18.58	16.42	2.131	
3,400.00	3,400.00	3,399.60	3,399.60	11.97	11.97	-90.51	-0.31	-35.00	35.00	18.07	16.93	2.068	
3,500.00	3,500.00	3,499.60	3,499.60	12.33	12.33	-90.51	-0.31	-35.00	35.00	17.57	17.44	2.007	
3,600.00	3,600.00	3,599.60	3,599.60	12.69	12.69	-90.51	-0.31	-35.00	35.00	17.06	17.94	1.951	
3,700.00	3,700.00	3,699.60	3,699.60	13.05	13.05	-90.51	-0.31	-35.00	35.00	16.55	18.45	1.897	
3,800.00	3,800.00	3,799.60	3,799.60	13.41	13.40	-90.51	-0.31	-35.00	35.00	16.04	18.96	1.846	
3,900.00	3,900.00	3,899.60	3,899.60	13.76	13.76	-90.51	-0.31	-35.00	35.00	15.54	19.46	1.798	
4,000.00	4,000.00	3,999.60	3,999.60	14.12	14.12	-90.51	-0.31	-35.00	35.00	15.03	19.97	1.753	
4,100.00	4,100.00	4,099.60	4,099.60	14.48	14.48	-90.51	-0.31	-35.00	35.00	14.52	20.48	1.709	
4,200.00	4,200.00	4,199.60	4,199.60	14.84	14.84	-90.51	-0.31	-35.00	35.00	14.02	20.98	1.668	
4,300.00	4,300.00	4,299.60	4,299.60	15.20	15.20	-90.51	-0.31	-35.00	35.00	13.51	21.49	1.629	
4,400.00	4,400.00	4,399.60	4,399.60	15.56	15.55	-90.51	-0.31	-35.00	35.00	13.00	22.00	1.591	
4,500.00	4,500.00	4,499.60	4,499.60	15.91	15.91	-90.51	-0.31	-35.00	35.00	12.50	22.51	1.555 CC, ES	
4,600.00	4,599.99	4,599.59	4,599.59	16.27	16.27	-126.63	-0.31	-35.00	35.77	12.76	23.01	1.554 SF	
4,700.00	4,699.91	4,699.51	4,699.51	16.63	16.63	-131.32	-0.31	-35.00	38.24	14.72	23.51	1.626	
4,800.00	4,799.69	4,799.29	4,799.29	16.98	16.99	-137.85	-0.31	-35.00	42.84	18.83	24.02	1.784	
4,899.76	4,899.04	4,898.64	4,898.64	17.34	17.34	-144.82	-0.31	-35.00	49.99	25.48	24.52	2.039	
5,000.00	4,998.72	4,998.32	4,998.32	17.69	17.70	-150.69	-0.31	-35.00	58.88	33.85	25.02	2.353	
5,100.00	5,098.18	5,097.78	5,097.78	18.05	18.06	-154.99	-0.31	-35.00	68.19	42.66	25.52	2.672	

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - Plan #2													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							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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,197.63	5,197.23	5,197.23	18.41	18.41	-158.24	-0.31	-35.00	77.79	51.76	26.03	2.989		
5,300.00	5,297.08	5,296.68	5,296.68	18.77	18.77	-160.77	-0.31	-35.00	87.58	61.05	26.53	3.302		
5,400.00	5,396.53	5,396.13	5,396.13	19.13	19.13	-162.79	-0.31	-35.00	97.51	70.48	27.03	3.607		
5,500.00	5,495.99	5,495.59	5,495.59	19.50	19.48	-164.44	-0.31	-35.00	107.54	80.01	27.53	3.906		
5,600.00	5,595.44	5,595.18	5,595.17	19.86	19.84	-165.23	0.62	-35.74	117.58	89.55	28.04	4.194		
5,700.00	5,694.89	5,694.81	5,694.73	20.22	20.19	-164.72	3.59	-38.08	127.52	98.98	28.54	4.469		
5,800.00	5,794.34	5,794.34	5,794.05	20.59	20.55	-163.20	8.58	-42.03	137.42	108.38	29.04	4.732		
5,900.00	5,893.80	5,893.63	5,892.94	20.96	20.90	-160.88	15.59	-47.56	147.46	117.92	29.54	4.992		
6,000.00	5,993.25	5,992.86	5,991.62	21.33	21.25	-158.33	23.73	-53.99	157.81	127.77	30.04	5.253		
6,100.00	6,092.70	6,092.09	6,090.31	21.69	21.61	-156.09	31.87	-60.42	168.43	137.89	30.54	5.515		
6,200.00	6,192.16	6,191.32	6,188.99	22.06	21.96	-154.13	40.01	-66.85	179.27	148.23	31.04	5.775		
6,300.00	6,291.61	6,290.55	6,287.68	22.43	22.32	-152.38	48.15	-73.28	190.30	158.76	31.55	6.032		
6,400.00	6,391.06	6,389.79	6,386.37	22.80	22.68	-150.83	56.29	-79.71	201.49	169.44	32.05	6.286		
6,500.00	6,490.51	6,489.02	6,485.06	23.18	23.04	-149.44	64.43	-86.15	212.81	180.25	32.56	6.536		
6,600.00	6,589.97	6,588.25	6,583.75	23.55	23.40	-148.20	72.57	-92.58	224.24	191.17	33.07	6.781		
6,700.00	6,689.42	6,687.48	6,682.44	23.92	23.76	-147.07	80.71	-99.01	235.76	202.18	33.57	7.022		
6,800.00	6,788.87	6,786.71	6,781.12	24.30	24.12	-146.05	88.85	-105.44	247.36	213.28	34.08	7.257		
6,820.20	6,808.96	6,806.76	6,801.06	24.37	24.19	-145.86	90.50	-106.74	249.72	215.53	34.19	7.304		
6,900.00	6,888.41	6,886.00	6,879.87	24.67	24.48	-145.09	97.00	-111.87	258.36	223.77	34.59	7.468		
7,000.00	6,988.15	6,985.42	6,978.74	25.04	24.85	-143.90	105.15	-118.32	267.37	232.26	35.10	7.617		
7,100.00	7,088.05	7,084.91	7,077.69	25.40	25.21	-142.44	113.32	-124.76	274.43	238.82	35.61	7.706		
7,200.00	7,188.03	7,184.40	7,176.63	25.75	25.58	-140.71	121.48	-131.21	279.65	243.53	36.12	7.742		
7,219.97	7,208.00	7,204.26	7,196.38	25.83	25.65	-105.92	123.11	-132.50	280.48	244.26	36.22	7.743		
7,300.00	7,288.03	7,283.85	7,275.54	26.11	25.94	-104.37	129.64	-137.66	283.79	247.16	36.63	7.748		
7,400.00	7,388.03	7,383.31	7,374.45	26.46	26.31	-102.48	137.80	-144.10	288.21	251.07	37.13	7.761		
7,500.00	7,488.03	7,482.76	7,473.35	26.82	26.68	-100.64	145.95	-150.55	292.93	255.29	37.64	7.783		
7,600.00	7,588.03	7,582.21	7,572.26	27.17	27.05	-98.87	154.11	-156.99	297.95	259.80	38.15	7.811		
7,700.00	7,688.03	7,681.66	7,671.17	27.53	27.42	-97.16	162.27	-163.44	303.25	264.59	38.65	7.846		
7,800.00	7,788.03	7,781.11	7,770.07	27.88	27.78	-95.50	170.43	-169.89	308.81	269.65	39.16	7.886		
7,900.00	7,888.03	7,880.57	7,868.98	28.24	28.16	-93.91	178.59	-176.33	314.61	274.95	39.66	7.932		
8,000.00	7,988.03	7,982.22	7,970.11	28.59	28.53	-92.38	186.73	-182.76	320.51	280.32	40.19	7.975		
8,100.00	8,088.03	8,087.21	8,074.76	28.95	28.92	-91.19	193.25	-187.91	325.24	284.50	40.73	7.984		
8,200.00	8,188.03	8,192.57	8,179.97	29.30	29.30	-90.43	197.53	-191.29	328.39	287.12	41.27	7.956		
8,300.00	8,288.03	8,298.15	8,285.52	29.66	29.68	-90.08	199.53	-192.87	329.88	288.08	41.80	7.892		
8,400.00	8,388.03	8,400.26	8,387.63	30.01	30.04	-90.05	199.69	-193.00	330.00	287.69	42.31	7.800		
8,500.00	8,488.03	8,500.26	8,487.63	30.37	30.40	-90.05	199.69	-193.00	330.00	287.19	42.81	7.708		
8,600.00	8,588.03	8,600.26	8,587.63	30.72	30.75	-90.05	199.69	-193.00	330.00	286.69	43.31	7.619		
8,700.00	8,688.03	8,700.26	8,687.63	31.08	31.11	-90.05	199.69	-193.00	330.00	286.18	43.82	7.531		
8,800.00	8,788.03	8,800.26	8,787.63	31.43	31.46	-90.05	199.69	-193.00	330.00	285.68	44.32	7.446		
8,900.00	8,888.03	8,900.26	8,887.63	31.79	31.82	-90.05	199.69	-193.00	330.00	285.18	44.83	7.362		
9,000.00	8,988.03	9,000.26	8,987.63	32.14	32.17	-90.05	199.69	-193.00	330.00	284.67	45.33	7.280		
9,100.00	9,088.03	9,100.26	9,087.63	32.50	32.53	-90.05	199.69	-193.00	330.00	284.17	45.83	7.200		
9,200.00	9,188.03	9,200.26	9,187.63	32.86	32.89	-90.05	199.69	-193.00	330.00	283.66	46.34	7.122		
9,300.00	9,288.03	9,300.26	9,287.63	33.21	33.24	-90.05	199.69	-193.00	330.00	283.16	46.84	7.045		
9,400.00	9,388.03	9,400.26	9,387.63	33.57	33.60	-90.05	199.69	-193.00	330.00	282.66	47.34	6.970		
9,500.00	9,488.03	9,500.26	9,487.63	33.92	33.95	-90.05	199.69	-193.00	330.00	282.15	47.85	6.897		
9,600.00	9,588.03	9,600.26	9,587.63	34.28	34.31	-90.05	199.69	-193.00	330.00	281.65	48.35	6.825		
9,700.00	9,688.03	9,700.26	9,687.63	34.63	34.66	-90.05	199.69	-193.00	330.00	281.14	48.86	6.755		
9,800.00	9,788.03	9,800.26	9,787.63	34.99	35.02	-90.05	199.69	-193.00	330.00	280.64	49.36	6.686		
9,900.00	9,888.03	9,900.26	9,887.63	35.35	35.37	-90.05	199.69	-193.00	330.00	280.14	49.86	6.618		
10,000.00	9,988.03	10,000.26	9,987.63	35.70	35.73	-90.05	199.69	-193.00	330.00	279.63	50.37	6.552		
10,100.00	10,088.03	10,100.26	10,087.63	36.06	36.09	-90.05	199.69	-193.00	330.00	279.13	50.87	6.487		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - Plan #2													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	10,188.03	10,200.26	10,187.63	36.42	36.44	-90.05	199.69	-193.00	330.00	278.62	51.38	6.423		
10,300.00	10,288.03	10,300.26	10,287.63	36.77	36.80	-90.05	199.69	-193.00	330.00	278.12	51.88	6.361		
10,400.00	10,388.03	10,400.26	10,387.63	37.13	37.15	-90.05	199.69	-193.00	330.00	277.62	52.38	6.300		
10,500.00	10,488.03	10,500.26	10,487.63	37.48	37.51	-90.05	199.69	-193.00	330.00	277.11	52.89	6.239		
10,600.00	10,588.03	10,600.26	10,587.63	37.84	37.87	-90.05	199.69	-193.00	330.00	276.61	53.39	6.180		
10,700.00	10,688.03	10,700.26	10,687.63	38.20	38.22	-90.05	199.69	-193.00	330.00	276.10	53.90	6.123		
10,800.00	10,788.03	10,800.26	10,787.63	38.55	38.58	-90.05	199.69	-193.00	330.00	275.60	54.40	6.066		
10,900.00	10,888.03	10,900.26	10,887.63	38.91	38.94	-90.05	199.69	-193.00	330.00	275.09	54.91	6.010		
11,000.00	10,988.03	11,000.26	10,987.63	39.27	39.29	-90.05	199.69	-193.00	330.00	274.59	55.41	5.955		
11,100.00	11,088.03	11,100.26	11,087.63	39.62	39.65	-90.05	199.69	-193.00	330.00	274.08	55.92	5.902		
11,200.00	11,188.03	11,200.26	11,187.63	39.98	40.01	-90.05	199.69	-193.00	330.00	273.58	56.42	5.849		
11,300.00	11,288.03	11,300.31	11,287.68	40.34	40.36	-90.07	199.62	-193.00	330.00	273.07	56.93	5.797		
11,349.17	11,337.20	11,349.53	11,336.80	40.51	40.52	-90.56	196.77	-192.97	329.99	272.83	57.16	5.773		
11,400.00	11,388.03	11,399.52	11,386.26	40.69	40.67	-91.81	189.56	-192.90	330.07	272.67	57.39	5.751		
11,497.97	11,486.00	11,490.85	11,474.23	41.04	40.93	-95.99	165.40	-192.66	331.67	273.87	57.80	5.738		
11,500.00	11,488.03	11,492.66	11,475.93	41.05	40.93	84.46	164.79	-192.66	331.74	273.93	57.80	5.739		
11,550.00	11,537.96	11,536.51	11,516.49	41.21	41.04	81.73	148.15	-192.50	333.88	275.94	57.94	5.763		
11,600.00	11,587.49	11,579.39	11,554.82	41.36	41.15	79.10	128.94	-192.31	336.73	278.73	58.00	5.805		
11,650.00	11,636.26	11,621.40	11,590.87	41.51	41.24	76.58	107.38	-192.10	340.18	282.19	58.00	5.866		
11,700.00	11,683.87	11,662.64	11,624.62	41.65	41.33	74.20	83.71	-191.86	344.11	286.20	57.90	5.943		
11,750.00	11,729.98	11,700.00	11,653.66	41.78	41.40	72.11	60.22	-191.63	348.40	290.74	57.66	6.042		
11,800.00	11,774.24	11,743.13	11,685.20	41.90	41.48	69.89	30.82	-191.35	352.88	295.40	57.47	6.140		
11,850.00	11,816.30	11,782.52	11,712.00	42.01	41.55	67.98	1.96	-191.06	357.48	300.32	57.16	6.255		
11,900.00	11,855.85	11,821.44	11,736.47	42.11	41.61	66.23	-28.29	-190.77	362.07	305.28	56.79	6.376		
11,950.00	11,892.58	11,859.94	11,758.60	42.20	41.68	64.65	-59.78	-190.46	366.55	310.16	56.38	6.501		
12,000.00	11,926.22	11,900.00	11,779.33	42.29	41.77	63.20	-94.06	-190.12	370.82	314.81	56.01	6.620		
12,050.00	11,956.50	11,935.88	11,795.82	42.39	41.85	62.01	-125.91	-189.81	374.79	319.23	55.56	6.746		
12,100.00	11,983.21	11,973.42	11,810.91	42.50	41.93	60.94	-160.28	-189.47	378.39	323.21	55.18	6.858		
12,150.00	12,006.13	12,010.74	11,823.64	42.61	42.02	60.04	-195.35	-189.13	381.56	326.72	54.84	6.958		
12,200.00	12,025.10	12,050.00	11,834.54	42.72	42.11	59.27	-233.06	-188.76	384.24	329.65	54.60	7.038		
12,250.00	12,039.96	12,084.85	11,842.04	42.84	42.20	58.72	-267.08	-188.43	386.38	332.02	54.37	7.107		
12,300.00	12,050.60	12,121.72	11,847.70	42.96	42.29	58.30	-303.51	-188.07	387.96	333.71	54.26	7.150		
12,350.00	12,056.95	12,158.51	11,851.00	43.08	42.38	58.05	-340.15	-187.71	388.95	334.71	54.25	7.170		
12,386.75	12,058.85	12,187.12	11,851.97	43.17	42.45	57.96	-368.73	-187.43	389.28	334.97	54.30	7.168		
12,400.00	12,059.11	12,200.37	11,852.21	43.21	42.49	57.96	-381.97	-187.30	389.29	334.94	54.34	7.163		
12,500.00	12,061.06	12,300.37	11,854.04	43.50	42.78	57.94	-481.95	-186.32	389.35	334.67	54.69	7.119		
12,600.00	12,063.02	12,400.36	11,855.87	43.85	43.14	57.93	-581.93	-185.34	389.42	334.32	55.10	7.067		
12,700.00	12,064.98	12,500.36	11,857.70	44.25	43.56	57.91	-681.91	-184.36	389.49	333.90	55.59	7.006		
12,800.00	12,066.94	12,600.36	11,859.54	44.72	44.04	57.90	-781.89	-183.38	389.56	333.41	56.15	6.938		
12,900.00	12,068.89	12,700.36	11,861.37	45.24	44.57	57.88	-881.87	-182.40	389.62	332.86	56.77	6.864		
13,000.00	12,070.85	12,800.36	11,863.20	45.81	45.15	57.86	-981.84	-181.43	389.69	332.24	57.45	6.783		
13,100.00	12,072.81	12,900.36	11,865.03	46.43	45.79	57.85	-1,081.82	-180.45	389.76	331.56	58.20	6.697		
13,200.00	12,074.77	13,000.36	11,866.86	47.11	46.48	57.83	-1,181.80	-179.47	389.82	330.82	59.00	6.607		
13,300.00	12,076.72	13,100.36	11,868.69	47.83	47.21	57.82	-1,281.78	-178.49	389.89	330.03	59.86	6.513		
13,400.00	12,078.68	13,200.36	11,870.52	48.60	47.99	57.80	-1,381.76	-177.51	389.96	329.18	60.77	6.417		
13,500.00	12,080.64	13,300.36	11,872.35	49.41	48.82	57.78	-1,481.74	-176.53	390.03	328.29	61.74	6.317		
13,600.00	12,082.59	13,400.36	11,874.18	50.26	49.68	57.77	-1,581.71	-175.55	390.09	327.34	62.75	6.216		
13,700.00	12,084.55	13,500.36	11,876.01	51.15	50.59	57.75	-1,681.69	-174.57	390.16	326.35	63.81	6.114		
13,800.00	12,086.51	13,600.36	11,877.84	52.08	51.53	57.74	-1,781.67	-173.59	390.23	325.32	64.91	6.012		
13,900.00	12,088.47	13,700.36	11,879.67	53.04	52.50	57.72	-1,881.65	-172.61	390.30	324.24	66.05	5.909		
14,000.00	12,090.42	13,800.36	11,881.50	54.04	53.51	57.71	-1,981.63	-171.63	390.36	323.13	67.24	5.806		
14,100.00	12,092.38	13,900.36	11,883.33	55.07	54.55	57.69	-2,081.61	-170.65	390.43	321.98	68.45	5.704		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - Plan #2		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	12,094.34	14,000.36	11,885.16	56.13	55.63	57.67	-2,181.58	-169.67	390.50	320.80	69.70	5.602					
14,300.00	12,096.30	14,100.36	11,886.99	57.21	56.72	57.66	-2,281.56	-168.69	390.57	319.58	70.99	5.502					
14,400.00	12,098.25	14,200.36	11,888.82	58.33	57.85	57.64	-2,381.54	-167.71	390.63	318.34	72.30	5.403					
14,500.00	12,100.21	14,300.36	11,890.65	59.46	59.00	57.63	-2,481.52	-166.73	390.70	317.06	73.64	5.306					
14,600.00	12,102.17	14,400.36	11,892.48	60.63	60.17	57.61	-2,581.50	-165.75	390.77	315.76	75.01	5.210					
14,700.00	12,104.12	14,500.36	11,894.31	61.81	61.37	57.60	-2,681.48	-164.77	390.84	314.44	76.40	5.116					
14,800.00	12,106.08	14,600.36	11,896.14	63.01	62.58	57.58	-2,781.46	-163.80	390.91	313.09	77.81	5.024					
14,900.00	12,108.04	14,700.36	11,897.97	64.24	63.82	57.56	-2,881.43	-162.82	390.97	311.72	79.25	4.933					
15,000.00	12,110.00	14,800.36	11,899.80	65.48	65.07	57.55	-2,981.41	-161.84	391.04	310.34	80.71	4.845					
15,100.00	12,111.95	14,900.36	11,901.63	66.74	66.34	57.53	-3,081.39	-160.86	391.11	308.93	82.18	4.759					
15,200.00	12,113.91	15,000.36	11,903.46	68.02	67.63	57.52	-3,181.37	-159.88	391.18	307.50	83.67	4.675					
15,300.00	12,115.87	15,100.36	11,905.29	69.32	68.94	57.50	-3,281.35	-158.90	391.24	306.06	85.18	4.593					
15,400.00	12,117.83	15,200.36	11,907.12	70.63	70.25	57.49	-3,381.33	-157.92	391.31	304.61	86.71	4.513					
15,500.00	12,119.78	15,300.36	11,908.95	71.95	71.59	57.47	-3,481.30	-156.94	391.38	303.14	88.25	4.435					
15,600.00	12,121.74	15,400.36	11,910.78	73.29	72.93	57.45	-3,581.28	-155.96	391.45	301.65	89.80	4.359					
15,700.00	12,123.70	15,500.36	11,912.62	74.64	74.29	57.44	-3,681.26	-154.98	391.52	300.16	91.36	4.285					
15,800.00	12,125.65	15,600.36	11,914.45	76.00	75.66	57.42	-3,781.24	-154.00	391.58	298.65	92.94	4.213					
15,900.00	12,127.61	15,700.36	11,916.28	77.37	77.04	57.41	-3,881.22	-153.02	391.65	297.13	94.52	4.144					
16,000.00	12,129.57	15,800.36	11,918.11	78.75	78.43	57.39	-3,981.20	-152.04	391.72	295.60	96.12	4.075					
16,100.00	12,131.53	15,900.36	11,919.94	80.15	79.83	57.38	-4,081.17	-151.06	391.79	294.07	97.72	4.009					
16,200.00	12,133.48	16,000.36	11,921.77	81.55	81.24	57.36	-4,181.15	-150.08	391.86	292.52	99.34	3.945					
16,300.00	12,135.44	16,100.36	11,923.60	82.96	82.66	57.34	-4,281.13	-149.10	391.93	290.97	100.96	3.882					
16,400.00	12,137.40	16,200.36	11,925.43	84.38	84.09	57.33	-4,381.11	-148.12	391.99	289.41	102.58	3.821					
16,500.00	12,139.36	16,300.36	11,927.26	85.81	85.53	57.31	-4,481.09	-147.14	392.06	287.84	104.22	3.762					
16,600.00	12,141.31	16,400.36	11,929.09	87.25	86.97	57.30	-4,581.07	-146.17	392.13	286.27	105.86	3.704					
16,700.00	12,143.27	16,500.36	11,930.92	88.70	88.42	57.28	-4,681.04	-145.19	392.20	284.69	107.50	3.648					
16,800.00	12,145.23	16,600.36	11,932.75	90.15	89.88	57.27	-4,781.02	-144.21	392.27	283.11	109.16	3.594					
16,900.00	12,147.18	16,700.36	11,934.58	91.61	91.34	57.25	-4,881.00	-143.23	392.34	281.52	110.81	3.541					
17,000.00	12,149.14	16,800.36	11,936.41	93.07	92.81	57.23	-4,980.98	-142.25	392.40	279.93	112.47	3.489					
17,100.00	12,151.10	16,900.36	11,938.24	94.54	94.29	57.22	-5,080.96	-141.27	392.47	278.34	114.14	3.439					
17,200.00	12,153.06	17,000.36	11,940.07	96.02	95.77	57.20	-5,180.94	-140.29	392.54	276.74	115.80	3.390					
17,300.00	12,155.01	17,100.36	11,941.90	97.50	97.26	57.19	-5,280.91	-139.31	392.61	275.14	117.47	3.342					
17,400.00	12,156.97	17,200.36	11,943.73	98.99	98.76	57.17	-5,380.89	-138.33	392.68	273.53	119.14	3.296					
17,500.00	12,158.93	17,300.36	11,945.56	100.48	100.25	57.16	-5,480.87	-137.35	392.75	271.93	120.82	3.251					
17,600.00	12,160.89	17,400.36	11,947.39	101.98	101.76	57.14	-5,580.85	-136.37	392.81	270.32	122.50	3.207					
17,700.00	12,162.84	17,500.36	11,949.22	103.49	103.26	57.13	-5,680.83	-135.39	392.88	268.71	124.18	3.164					
17,800.00	12,164.80	17,600.36	11,951.05	104.99	104.78	57.11	-5,780.81	-134.41	392.95	267.10	125.86	3.122					
17,900.00	12,166.76	17,700.36	11,952.88	106.51	106.29	57.09	-5,880.78	-133.43	393.02	265.48	127.54	3.082					
18,000.00	12,168.71	17,800.36	11,954.71	108.02	107.81	57.08	-5,980.76	-132.45	393.09	263.87	129.22	3.042					
18,100.00	12,170.67	17,900.36	11,956.54	109.54	109.34	57.06	-6,080.74	-131.47	393.16	262.26	130.90	3.003					
18,200.00	12,172.63	18,000.36	11,958.37	111.07	110.87	57.05	-6,180.72	-130.49	393.23	260.64	132.58	2.966					
18,300.00	12,174.59	18,100.36	11,960.20	112.59	112.40	57.03	-6,280.70	-129.51	393.30	259.03	134.27	2.929					
18,400.00	12,176.54	18,200.36	11,962.03	114.12	113.93	57.02	-6,380.68	-128.54	393.36	257.41	135.95	2.893					
18,500.00	12,178.50	18,300.36	11,963.86	115.66	115.47	57.00	-6,480.65	-127.56	393.43	255.80	137.63	2.859					
18,600.00	12,180.46	18,400.36	11,965.69	117.20	117.01	56.99	-6,580.63	-126.58	393.50	254.19	139.32	2.825					
18,700.00	12,182.42	18,500.36	11,967.53	118.74	118.56	56.97	-6,680.61	-125.60	393.57	252.57	141.00	2.791					
18,800.00	12,184.37	18,600.36	11,969.36	120.28	120.10	56.95	-6,780.59	-124.62	393.64	250.96	142.68	2.759					
18,900.00	12,186.33	18,700.36	11,971.19	121.83	121.65	56.94	-6,880.57	-123.64	393.71	249.35	144.36	2.727					
19,000.00	12,188.29	18,800.36	11,973.02	123.38	123.20	56.92	-6,980.55	-122.66	393.78	247.74	146.04	2.696					
19,100.00	12,190.24	18,900.36	11,974.85	124.93	124.76	56.91	-7,080.53	-121.68	393.85	246.13	147.72	2.666					
19,200.00	12,192.20	19,000.36	11,976.68	126.48	126.32	56.89	-7,180.50	-120.70	393.92	244.52	149.40	2.637					
19,300.00	12,194.16	19,100.36	11,978.51	128.04	127.88	56.88	-7,280.48	-119.72	393.99	242.91	151.07	2.608					

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



Total Directional Services

Anticollision Report



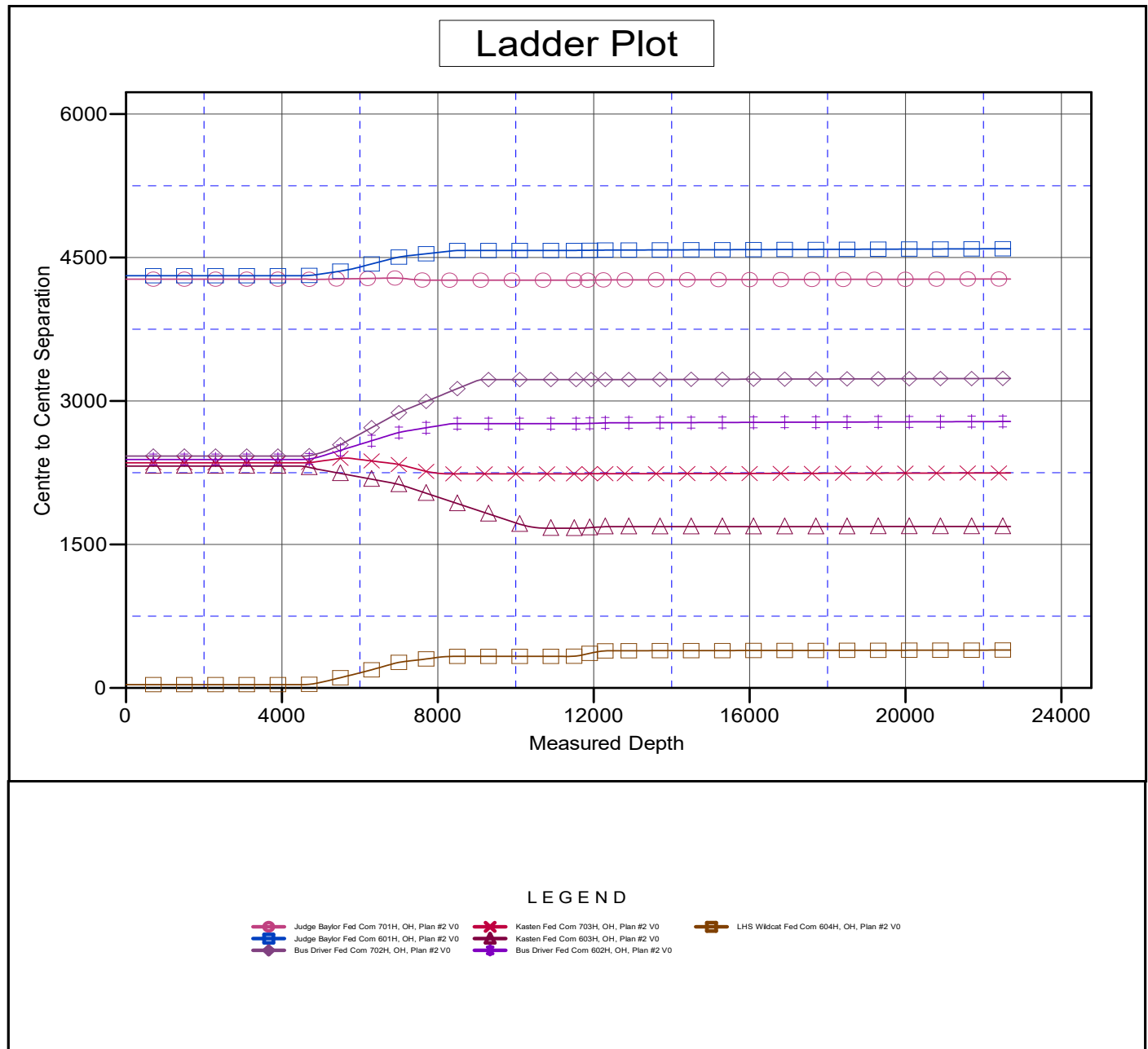
Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - Plan #2													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	12,196.12	19,200.36	11,980.34	129.60	129.44	56.86	-7,380.46	-118.74	394.05	241.31	152.75	2.580		
19,500.00	12,198.07	19,300.36	11,982.17	131.16	131.00	56.85	-7,480.44	-117.76	394.12	239.71	154.42	2.552		
19,600.00	12,200.03	19,400.36	11,984.00	132.72	132.57	56.83	-7,580.42	-116.78	394.19	238.10	156.09	2.525		
19,700.00	12,201.99	19,500.36	11,985.83	134.29	134.14	56.82	-7,680.40	-115.80	394.26	236.51	157.76	2.499		
19,800.00	12,203.95	19,600.36	11,987.66	135.86	135.71	56.80	-7,780.37	-114.82	394.33	234.91	159.42	2.473		
19,900.00	12,205.90	19,700.36	11,989.49	137.43	137.28	56.78	-7,880.35	-113.84	394.40	233.31	161.09	2.448		
20,000.00	12,207.86	19,800.36	11,991.32	139.00	138.86	56.77	-7,980.33	-112.86	394.47	231.72	162.75	2.424		
20,100.00	12,209.82	19,900.36	11,993.15	140.57	140.43	56.75	-8,080.31	-111.88	394.54	230.13	164.41	2.400		
20,200.00	12,211.77	20,000.36	11,994.98	142.15	142.01	56.74	-8,180.29	-110.91	394.61	228.54	166.07	2.376		
20,300.00	12,213.73	20,100.36	11,996.81	143.72	143.59	56.72	-8,280.27	-109.93	394.68	226.96	167.72	2.353		
20,400.00	12,215.69	20,200.36	11,998.64	145.30	145.17	56.71	-8,380.24	-108.95	394.75	225.38	169.37	2.331		
20,500.00	12,217.65	20,300.36	12,000.47	146.88	146.76	56.69	-8,480.22	-107.97	394.82	223.80	171.02	2.309		
20,600.00	12,219.60	20,400.36	12,002.30	148.47	148.34	56.68	-8,580.20	-106.99	394.89	222.22	172.67	2.287		
20,700.00	12,221.56	20,500.36	12,004.13	150.05	149.93	56.66	-8,680.18	-106.01	394.96	220.64	174.31	2.266		
20,800.00	12,223.52	20,600.36	12,005.96	151.63	151.51	56.65	-8,780.16	-105.03	395.03	219.07	175.95	2.245		
20,900.00	12,225.48	20,700.36	12,007.79	153.22	153.10	56.63	-8,880.14	-104.05	395.09	217.51	177.59	2.225		
21,000.00	12,227.43	20,800.36	12,009.62	154.81	154.69	56.61	-8,980.11	-103.07	395.16	215.94	179.22	2.205		
21,100.00	12,229.39	20,900.36	12,011.45	156.40	156.28	56.60	-9,080.09	-102.09	395.23	214.38	180.86	2.185		
21,200.00	12,231.35	21,000.36	12,013.28	157.99	157.88	56.58	-9,180.07	-101.11	395.30	212.82	182.48	2.166		
21,300.00	12,233.30	21,100.36	12,015.11	159.58	159.47	56.57	-9,280.05	-100.13	395.37	211.26	184.11	2.147		
21,400.00	12,235.26	21,200.36	12,016.94	161.17	161.06	56.55	-9,380.03	-99.15	395.44	209.71	185.73	2.129		
21,500.00	12,237.22	21,300.36	12,018.77	162.77	162.66	56.54	-9,480.01	-98.17	395.51	208.16	187.35	2.111		
21,600.00	12,239.18	21,400.36	12,020.60	164.36	164.26	56.52	-9,579.98	-97.19	395.58	206.62	188.97	2.093		
21,700.00	12,241.13	21,500.36	12,022.44	165.96	165.86	56.51	-9,679.96	-96.21	395.65	205.07	190.58	2.076		
21,800.00	12,243.09	21,600.36	12,024.27	167.56	167.46	56.49	-9,779.94	-95.23	395.72	203.54	192.19	2.059		
21,900.00	12,245.05	21,700.36	12,026.10	169.16	169.06	56.48	-9,879.92	-94.25	395.79	202.00	193.79	2.042		
22,000.00	12,247.01	21,800.36	12,027.93	170.76	170.66	56.46	-9,979.90	-93.28	395.86	200.47	195.39	2.026		
22,100.00	12,248.96	21,900.36	12,029.76	172.36	172.26	56.45	-10,079.88	-92.30	395.93	198.94	196.99	2.010		
22,200.00	12,250.92	22,000.36	12,031.59	173.96	173.86	56.43	-10,179.85	-91.32	396.00	197.42	198.59	1.994		
22,300.00	12,252.88	22,100.36	12,033.42	175.56	175.47	56.41	-10,279.83	-90.34	396.07	195.89	200.18	1.979		
22,400.00	12,254.83	22,200.36	12,035.25	177.16	177.07	56.40	-10,379.81	-89.36	396.14	194.38	201.76	1.963		
22,500.00	12,256.79	22,300.36	12,037.08	178.77	178.68	56.38	-10,479.79	-88.38	396.21	192.86	203.35	1.948		
22,600.00	12,258.75	22,400.36	12,038.91	180.37	180.29	56.37	-10,579.77	-87.40	396.28	191.35	204.93	1.934		
22,605.91	12,258.86	22,406.27	12,039.02	180.47	180.38	56.37	-10,585.68	-87.34	396.29	191.26	205.02	1.933		
22,695.11	12,260.61	22,490.07	12,040.55	181.90	181.73	56.36	-10,669.46	-86.52	396.38	189.92	206.46	1.920		

Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3031.9' GE + 21' KB @ 3052.90usft
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: LHS Wildcat Fed Com 705H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.54°

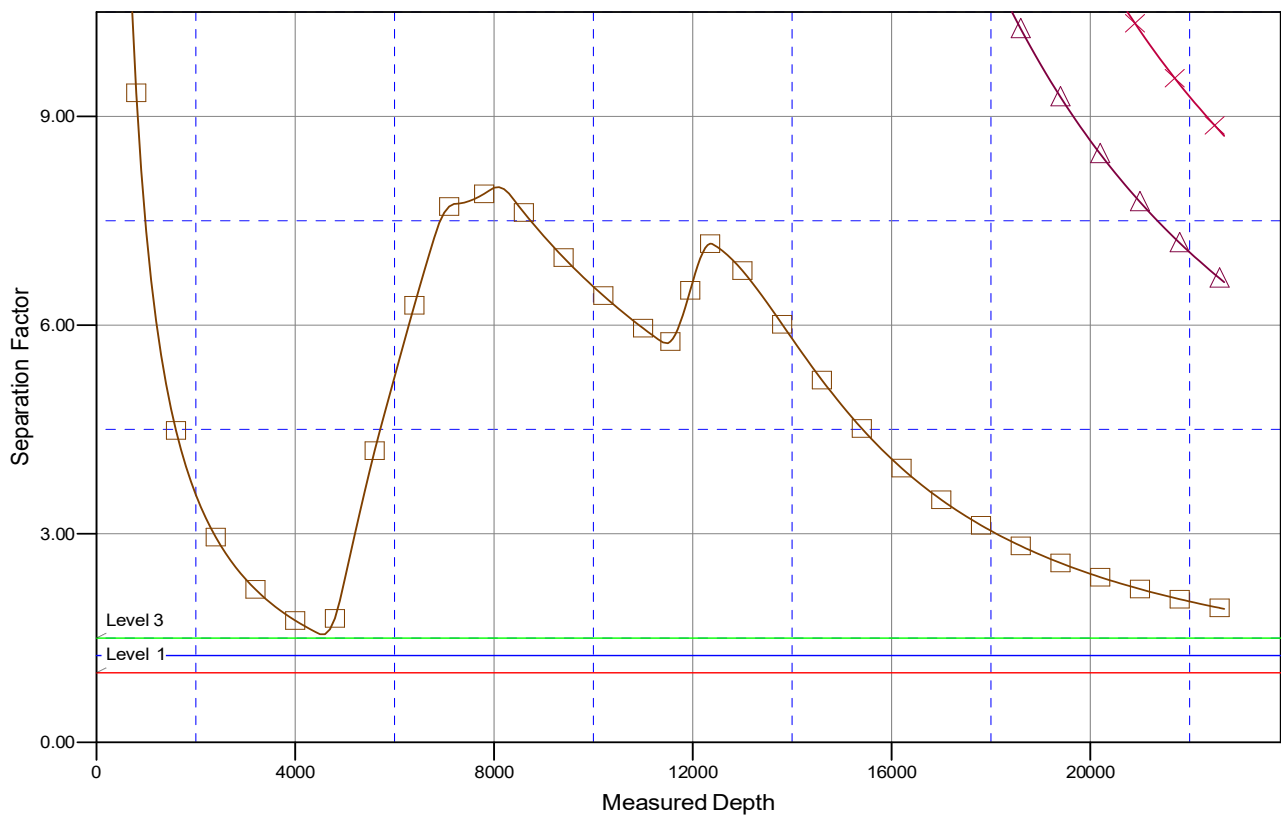


Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well LHS Wildcat Fed Com 705H
Project:	Lea County, NM (NAD83)	TVD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Reference Site:	LHS Wildcat Fed Com	MD Reference:	3031.9' GE + 21' KB @ 3052.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	LHS Wildcat Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3031.9' GE + 21' KB @ 3052.90usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.333334

Coordinates are relative to: LHS Wildcat Fed Com 705H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.54°

Separation Factor Plot



LEGEND

- Judge Baylor Fed Com 701H, OH, Plan #2 V0
- Judge Baylor Fed Com 601H, OH, Plan #2 V0
- Bus Driver Fed Com 702H, OH, Plan #2 V0
- Kasten Fed Com 703H, OH, Plan #2 V0
- Kasten Fed Com 603H, OH, Plan #2 V0
- Bus Driver Fed Com 602H, OH, Plan #2 V0
- LHS Wildcat Fed Com 604H, OH, Plan #2 V0

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Franklin Mountain Energy LLC
LEASE NO.:	NMNM117126
LOCATION:	Section 36, T.25 S., R.35 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	LHS Wildcat Fed Com 604H
SURFACE HOLE FOOTAGE:	250'/S & 523'/E
BOTTOM HOLE FOOTAGE:	150'/S & 680'/E

WELL NAME & NO.:	LHS Wildcat Fed Com 705H
SURFACE HOLE FOOTAGE:	250'/S & 488'/E
BOTTOM HOLE FOOTAGE:	150'/S & 350'/E

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

1. The 13-3/8 inch surface casing shall be set at approximately **1150 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 shall be set at approximately **5400 feet** is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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 **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:

1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 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.**
 - 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. 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.
 - e. 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.



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.



Emergency Contact List:

Vladimir Roudakov, Drilling Engineer	Cell 720 933 9784
Rachael Overbey, Project and Regulatory Director	Cell 303 570 4057
Franklin Mountain Energy Afterhours Emergency Call Tree:	720-640-7517

EMERGENCY NUMBERS:

<u>Agency</u>	<u>Telephone Number</u>
BLM – Carlsbad Mainline	575-234-5972
BLM – Spill Emergency	575-234-6235
BLM – Engineering Emergency	575-361-2822
NMOCD District 1 – Hobbs Mainline	575-393-6161
NMOCD Emergency Line	575-370-3186
Wild Well Control	281-784-4700
H2S Emergency response:	
Air Ambulance New Mexico – Lea Co Reginal	575-391-2934
Lea County Sheriff's Department	575-396-3611
Fire Department:	
Carlsbad	575-885-3125
Artesia	575-746-5050
Lea County Regional Medical Center	575-492-5000
Jal Community Hospital	505-395-2511
Lea County Emergency Management	575-396-8602
Poison Control Center	800-222-1222