

Well Name: JUDGE BAYLOR FED COM	Well Location: T25S / R35E / SEC 36 / SWSW / 32.08026 / -103.328098	County or Parish/State: LEA / NM
Well Number: 701H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM117126	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548103	Well Status: Drilling Well	Operator: FRANKLIN MOUNTAIN ENERGY LLC

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Drilling Operations
Date Sundry Submitted: 07/12/2021	Time Sundry Submitted: 09:58
Date proposed operation will begin: 07/19/2021	

Procedure Description: Franklin Mountain Energy, LLC (FME), Operator, respectfully requests approval to make the following changes to the proposed drilling plan for the above referenced well: - Change 1st Intermediate set depth to 5100'. - Change cement volumes based on updated Geoprog, casing and Directional plan. - Production Casing: FME would like approval to utilize 5.5 inch Eagle 606 23lb. P-110 in the drilling of this bore. Please see attached revised 14-point plan, Plan #5, geo prog and data sheet.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Franklin_Mountain___Judge_Baylor_Fed_Com_701H___Plan_5_20210712095819.pdf
- Judge_Baylor_Fed_Com_701H_GEOPROG_Final_20210712095811.pdf
- Eagle_606_Spec_Sheet_20210712095805.pdf
- FME_Federal_14_Point_Plan_JB_701_20210712095758.pdf

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Well Number: 701H	Type of Well: OIL WELL	Allottee or Tribe Name:
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US Well Number: 3002548103	Well Status: Drilling Well	Operator: FRANKLIN MOUNTAIN ENERGY LLC

Conditions of Approval

Specialist Review

Judge_Baylor_Fed_Com_701H_Sundry_ID_2507177_20210712125936.pdf

Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: RACHAEL OVERBEY

Signed on: JUL 12, 2021 09:58 AM

Name: FRANKLIN MOUNTAIN ENERGY LLC

Title: Director – Operations Planning and Regulatory

Street Address: 2401 E 2nd Avenue, Suite 300

City: DenverState: CO

Phone: (720) 414-7868

Email address: roverbey@fmellc.com

Field Representative

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 07/19/2021

Signature: Chris Walls



Judge Baylor Fed Com 701H

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)	3,070'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2,300'	800'			Carbonates
Salado	1,810'	1,290'			Salt, Carbonate & Clastics
Base Salt	518'	2,582'			Shaley Carbonate & Shale
Lamar	-1,986'	5,086'			Carbonate & Clastics
Bell Canyon	-2,023'	5,123'			Sandstone - oil/gas/water
Cherry Canyon	-2,900'	6,000'			Sandstone - oil/gas/water
Brushy Canyon	-4,297'	7,397'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,567'	8,667'			Shale/Carbonates - oil/gas
Avalon	-5,618'	8,718'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-6,812'	9,912'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-6,951'	10,051'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7,400'	10,500'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-8,103'	11,203'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-8,707'	11,807'			Sandstone - oil/gas/water
Wolfcamp	-8,949'	12,049'			Overpressure shale/sand- Oil/Gas
Wolfcamp A	-9,010'	12,110'			Overpressure Shale - Oil/Gas
HZ Target	-9,136'	12,236'			Overpressure Shale - Oil/Gas
Wolfcamp B	-9,230'	12,330'			Overpressure Shale - Oil/Gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	5,123'	Oil
Bone Spring	9,912'	Oil
Wolfcamp	12,049'	Oil

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

4. Casing Program:

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

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length	API design factor			
								Burst	Collapse	Tension	Coupling
Surface 13 3/8"	54.5	J-55	2730	1130	853	BTC 909	1300	1.18	1.67	4.99	5.32
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	BTC 1042	5100	1.79	1.77	3.01	3.43
Intermediate 7 5/8"	29.7	HCP-110	8280	7150	827	Stinger 564	12050	1.10	1.27	1.81	1.23
Long string 5 1/2"	23	P-110	14520	14520	729	Eagle 606 TVD	22389 12362	1.32	1.39	1.19	0.99 1.58



7 5/8" casing will be set at 12,050' MD/12,016' TVD at 35° Inc. Stress calculations on 5 1/2" casing performed assuming 22,389' depth. Actual max vertical depth is 12,362'.

Cementing Program:

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

String Type	Hole Size	Casing Size	Setting Depth	Sacks	Type of cmt	Lead Yield ft ³ /sk	Water gal/sk	TOC ft	Sacks	Type of cmt	Tail Yield ft ³ /sk	Water gal/sk	TOC	Excess
Surf	17.5	13.375	1300	795	Extenda Cem, 12.8 ppg Class C, 3lb/sk Kol-Seal	1.747	9.06	0	334	Tail, 14.8 ppg, Class C,	1.349	6.51	1000	100%
Int1	12.25	9.625	5100	1488	0.125pps Poly-E-Flake					1% CaCl ₂ , 0.125pps Celo-Flake				
					Lead, 12.8 ppg, Class C 5% Salt,	1.79	9.74	0	154	Tail, 14.8 ppg, Class C,	1.33	6.37	4800	100%
					0.125 pps Poly-E-Flake, 3lb/sk Kol-Seal					0.1% HR 800 .125 pps Poly-E-Flake				
Int2	8.75	7.625	12050	373	Lite Fill, 9.5 ppg, Class C 3lb/sk	2.13	5.97	4130	94	NeoCem 14.8 ppg, Class C	1.33	6.29	11050	50%
					Bridgemaker Gel, 5% Salt, 5pps LCM, 0.25pps Cello-Flake					0.25 pps Cello-Flake, 2% CaCl ₂				
Prod	6.75	5.5	22389	846	Tail, 14.5 ppg, Gas Migration Control	1.34	6.22	11050						20%

5. Minimum Specifications for Pressure Control:

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

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

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

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

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



6. Types and characteristics of the proposed mud system:

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

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,300'	Fresh - Gel	8.6-8.8	28-34	N/c
1,300' – 12,297'	Brine	8.8-10.2	28-34	N/c
12,297' – 22,100'	Oil Base	10.0-12.0	58-68	3 - 6
Lateral				

The highest mud weight needed to balance formation is expected to be 11-12.5 ppg. In order to maintain hole stability, mud weights up to 13 ppg may be utilized.

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

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

7. Auxiliary well control and monitoring equipment:

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

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

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

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

8. Logging, testing and coring program:

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

Open-hole logs are not planned for this well.

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

The estimated bottom-hole temperature at 12,362' TVD (deepest point of the well) is 195F with an estimated maximum bottom-hole pressure (BHP) at the same point of 8,356 psig (based on 13 ppg MW). Hydrogen sulfate may be present in the area. All necessary precautions will be taken before drilling operations commence. See Hydrogen Sulfide Plan below:

10. Hydrogen Sulfide Plan:

- A. All personnel shall receive proper awareness H₂S training.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment
 - a. Well Control Equipment
 - i. Flare line 150' from wellhead to be ignited by auto ignition sparking system.
 - ii. Choke manifold with a remotely operated hydraulic choke.
 - iii. Mud/gas separator
 - b. Protective equipment for essential personnel
 - i. Breathing Apparatus
 1. Rescue packs (SCBA) – 1 unit shall be placed at each briefing area, 2 shall be stored in a safety trailer on site.



2. Work/Escapes packs – 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity
3. Emergency Escape Packs – 4 packs shall be stored in the doghouse for emergency evacuation.
- ii. Auxiliary Rescue Equipment
 1. Stretcher
 2. Two OSHA full body harnesses
 3. 100 feet of 5/8 inches OSHA approved rope
 4. 1-20# class ABC fire extinguisher
- c. H2S Detection and Monitoring Equipment
 - i. A stationary detector with three sensors will be placed in the doghouse if equipped, set to visually alarm at 10 ppm and audible at 14 ppm. The detector will be calibrated a minimum of every 30 days or as needed. The sensors will be placed in the following places:
 1. Rig Floor
 2. Below Rig Floor / Near BOPs
 3. End of flow line or where well bore fluid is being discharged (near shakers)
 - ii. If H2S is encountered, measured values and formations will be provided to the BLM.
- d. Visual Warning Systems
 - i. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - ii. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - iii. Two windsocks will be placed in strategic locations, visible from all angles.
- e. Mud Program
 - i. The Mud program will be designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.
- f. Metallurgy
 - i. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service at the anticipated operating pressures to prevent sour sulfide stress cracking.
- g. Communication
 - i. Communication will be via cell phones and walkie talkies on location.

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

11. Anticipated starting date and duration of operations:

The drilling operations on the well should be finished in approximately one month. However, in order to minimize disturbance in the area and to improve efficiency Franklin Mountain is planning to drill all the wells on the pad prior to commence completion operations. To even further reduce the time heavy machinery is used



the "batch drilling" method may be used. A batch drilling sequence sundry will be submitted for BLM approval prior to spud. A drilling rig with walking/skidding capabilities will be used.

12. Disposal/environmental concerns:

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

13. Wellhead:

A multi-bowl wellhead system will be utilized.

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

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

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

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the 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.



U. S. Steel Tubular Products

7/14/2020 11:41:19 AM

5.500" 23.00lbs/ft (0.415" Wall) P110 USS-EAGLE SFH®



MECHANICAL PROPERTIES	Pipe	USS-EAGLE SFH™	
Minimum Yield Strength	110,000	--	psi
Maximum Yield Strength	140,000	--	psi
Minimum Tensile Strength	125,000	--	psi
DIMENSIONS	Pipe	USS-EAGLE SFH™	
Outside Diameter	5.500	5.830	in.
Wall Thickness	0.415	--	in.
Inside Diameter	4.670	4.585	in.
Standard Drift	4.545	4.545	in.
Alternate Drift	--	4.545	in.
Nominal Linear Weight, T&C	23.00	--	lbs/ft
Plain End Weight	22.56	--	lbs/ft
SECTION AREA	Pipe	USS-EAGLE SFH™	
Critical Area	6.630	5.507	sq. in.
Joint Efficiency	--	83.1	%
PERFORMANCE	Pipe	USS-EAGLE SFH™	
Minimum Collapse Pressure	14,540	14,540	psi
External Pressure Leak Resistance	--	9,130	psi
Minimum Internal Yield Pressure	14,520	14,520	psi
Minimum Pipe Body Yield Strength	729,000	--	lbs
Joint Strength	--	606,000	lbs
Compression Rating	--	606,000	lbs
Reference Length	--	17,900	ft
Maximum Uniaxial Bend Rating	--	76.2	deg/100 ft
MAKE-UP DATA	Pipe	USS-EAGLE SFH™	
Make-Up Loss	--	6.65	in.
Minimum Make-Up Torque	--	16,600	ft-lbs
Maximum Make-Up Torque	--	19,800	ft-lbs
Maximum Operating Torque	--	28,000	ft-lbs

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www.usstubular.com

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: Judge Baylor Fed Com
Well: Judge Baylor Fed Com 701H
Wellbore: OH
Design: Plan #5



Azimuths to Grid North
True North: -0.53°
Magnetic North: 6.00°

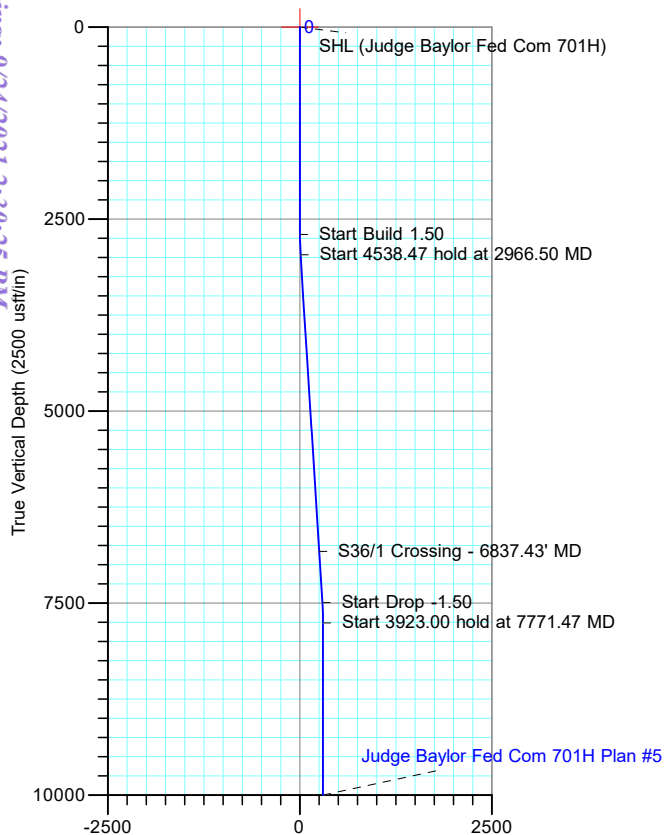
Magnetic Field
Strength: 47603.9nT
Dip Angle: 59.93°
Date: 2/25/2020
Model: IGRF2015

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



3069.7' GE + 21' KB @ 3090.70usft

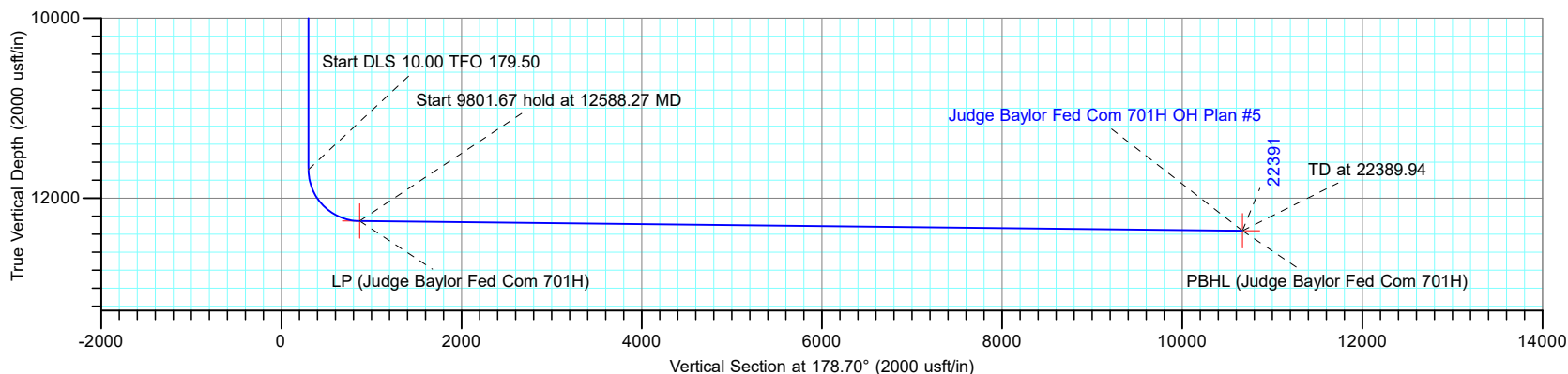
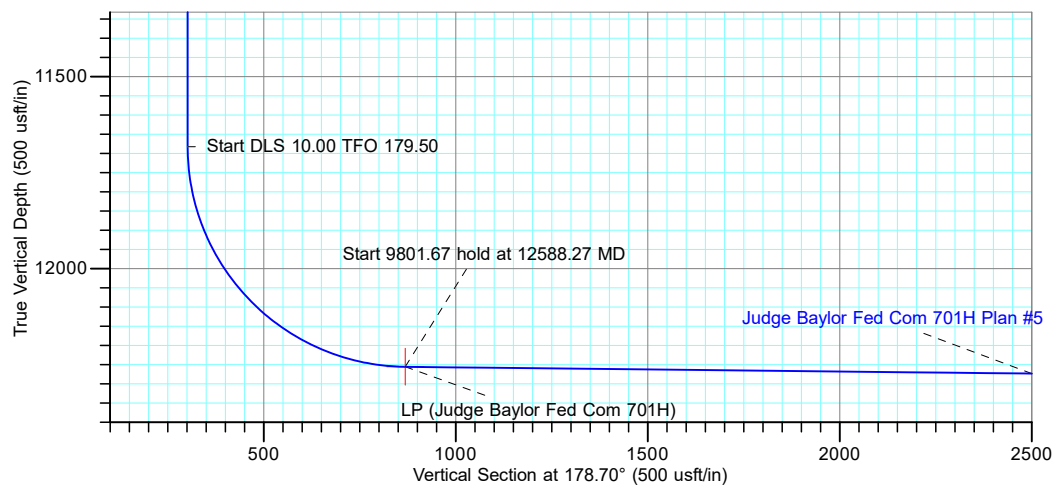


SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
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2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
2966.50	4.00	153.03	2966.29	-8.28	4.21	1.50	153.03	8.38	Start 4538.47 hold at 2966.50 MD
7504.97	4.00	153.03	7493.71	-290.28	147.69	0.00	0.00	293.56	Start Drop -1.50
7771.47	0.00	0.00	7760.00	-298.56	151.90	1.50	180.00	301.93	Start 3923.00 hold at 7771.47 MD
11694.47	0.00	0.00	11683.00	-298.56	151.90	0.00	0.00	301.93	Start DLS 10.00 TFO 179.50
12588.27	89.38	179.50	12255.92	-865.29	156.84	10.00	179.50	868.63	Start 9801.67 hold at 12588.27 MD
22389.94	89.38	179.50	12362.07	-10666.01	242.36	0.00	0.00	10668.76	TD at 22389.94

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
LP (Judge Baylor Fed Com 701H)	12255.92	-865.29	156.84	32.077878	-103.327618
PBHL (Judge Baylor Fed Com 701H)	12362.07	-10666.01	242.36	32.050938	-103.327637
SHL (Judge Baylor Fed Com 701H)	0.00	0.00	0.00	32.080260	-103.328098



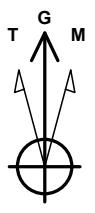
TOTAL DIRECTIONAL SERVICES LLC
671 Academy Ct, Windsor, CO 80550
Phone: (970) 460-9402

Plan: Plan #5 (Judge Baylor Fed Com 701H/OH)
Judge Baylor Fed Com
Created By: Dustin Ault Date: 18:05, May 24 2021
Date: _____
Approved: _____ Date: _____

Released for Imaging: 9/24/2021 2:30:25 PM

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: Judge Baylor Fed Com
Well: Judge Baylor Fed Com 701H
Wellbore: OH
Design: Plan #5



Azimuths to Grid North
True North: -0.53°
Magnetic North: 6.00°

Magnetic Field
Strength: 47603.9nT
Dip Angle: 59.93°
Date: 2/25/2020
Model: IGRF2015



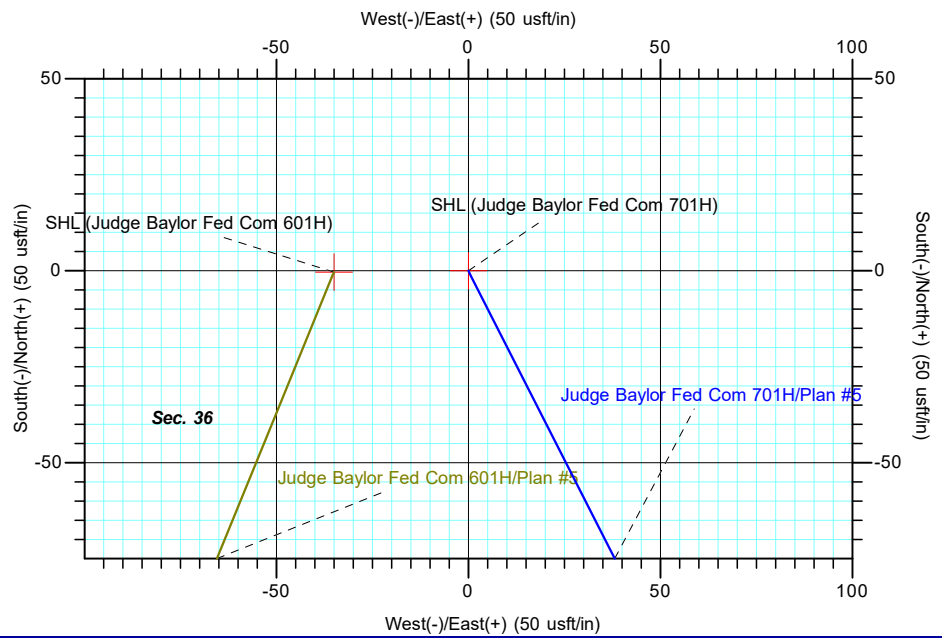
PROJECT DETAILS: Lea County, NM (NAD83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

DESIGN TARGET DETAILS

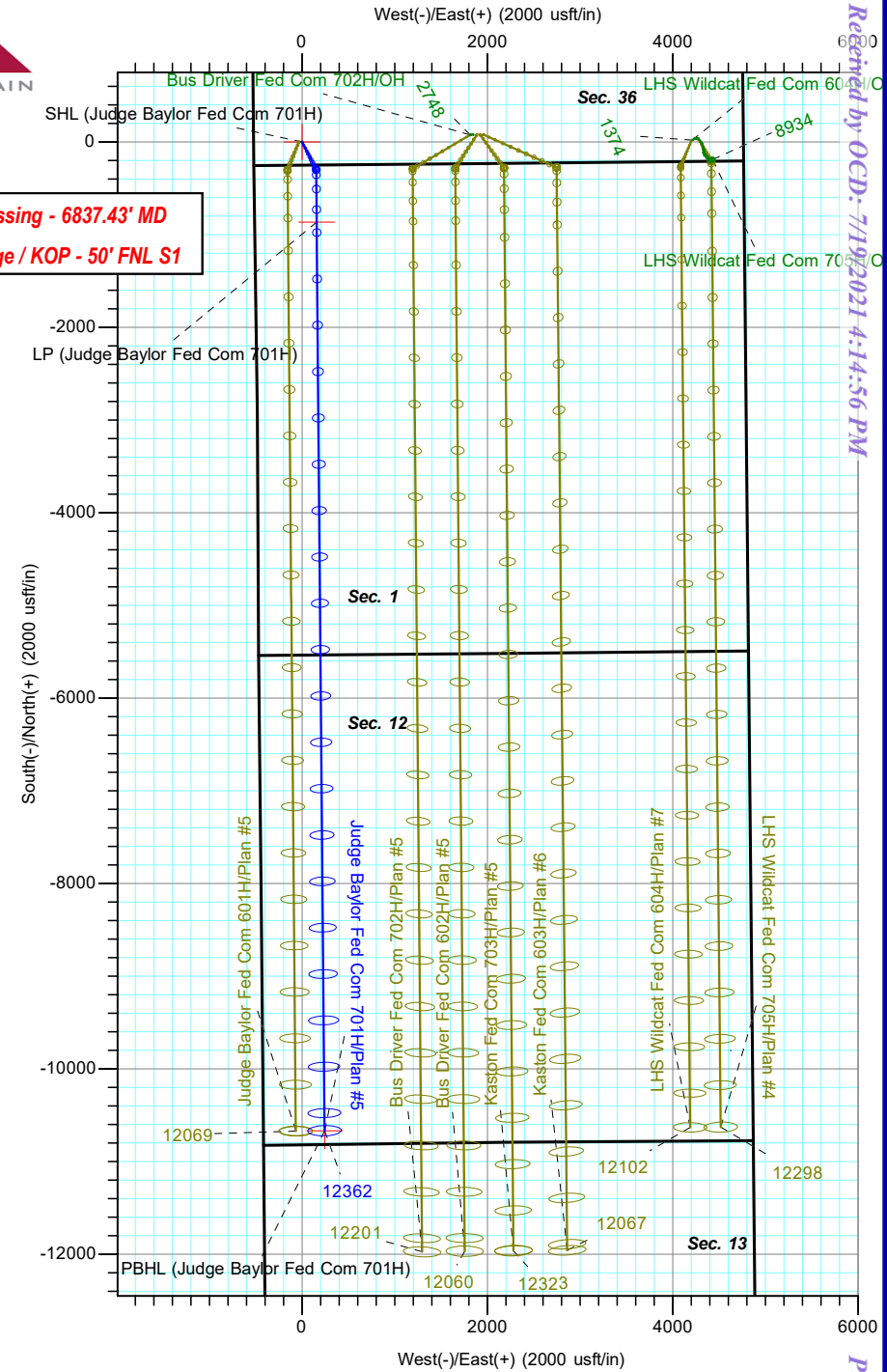
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP (Judge Baylor Fed Com 701H)	12255.92	-865.29	156.84	393521.26	852840.44	32.077878	-103.327618
PBHL (Judge Baylor Fed Com 701H)	12362.07	-10666.01	242.36	383720.54	852925.96	32.050938	-103.327637
SHL (Judge Baylor Fed Com 701H)	0.00	0.00	0.00	394386.55	852683.60	32.080260	-103.328098

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
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2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
2966.50	4.00	153.03	2966.29	-8.28	4.21	1.50	153.03	8.38	Start 4538.47 hold at 2966.50 MD
7504.97	4.00	153.03	7493.71	-290.28	147.69	0.00	0.00	293.56	Start Drop -1.50
7771.47	0.00	0.00	7760.00	-298.56	151.90	1.50	180.00	301.93	Start 3923.00 hold at 7771.47 MD
11694.47	0.00	0.00	11683.00	-298.56	151.90	0.00	0.00	301.93	Start DLS 10.00 TFO 179.50
12588.27	89.38	179.50	12255.92	-865.29	156.84	10.00	179.50	868.63	Start 9801.67 hold at 12588.27 MD
22389.94	89.38	179.50	12362.07	-10666.01	242.36	0.00	0.00	10668.76	TD at 22389.94



S36/1 Crossing - 6837.43' MD
End of Nudge / KOP - 50' FNL S1



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

Plan: Plan #5 (Judge Baylor Fed Com 701H/OH)
Judge Baylor Fed Com
Created By: Dustin Ault
Date: 18:10, May 24 2021
Approved: _____ Date: _____

Received by OCD: 7/19/2021 4:14:56 PM

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Franklin Mountain Energy

Lea County, NM (NAD83)

Judge Baylor Fed Com

Judge Baylor Fed Com 701H

OH

Plan: Plan #5

Standard Planning Report

24 May, 2021





Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Company:	Franklin Mountain Energy	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Project:	Lea County, NM (NAD83)	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #5		

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	Judge Baylor Fed Com				
Site Position:		Northing:	394,386.23 usft	Latitude:	32.080260
From:	Map	Easting:	852,648.61 usft	Longitude:	-103.328212
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.53

Well	Judge Baylor Fed Com 701H					
Well Position	+N/-S	0.32 usft	Northing:	394,386.55 usft	Latitude:	32.080260
	+E/-W	34.99 usft	Easting:	852,683.60 usft	Longitude:	-103.328099
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,069.70 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/25/2020	6.54	59.93	47,603.86184820

Design	Plan #5			
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	178.70

Plan Survey Tool Program	Date	5/24/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,389.94 Plan #5 (OH)	OWSG (Rev2) MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,966.50	4.00	153.03	2,966.29	-8.28	4.21	1.50	1.50	0.00	153.03	
7,504.97	4.00	153.03	7,493.71	-290.28	147.69	0.00	0.00	0.00	0.00	
7,771.47	0.00	0.00	7,760.00	-298.56	151.90	1.50	-1.50	0.00	180.00	
11,694.47	0.00	0.00	11,683.00	-298.56	151.90	0.00	0.00	0.00	0.00	
12,588.27	89.38	179.50	12,255.92	-865.29	156.84	10.00	10.00	20.08	179.50	
22,389.94	89.38	179.50	12,362.07	-10,666.01	242.36	0.00	0.00	0.00	0.00	PBHL (Judge Baylor f



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Company:	Franklin Mountain Energy	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Project:	Lea County, NM (NAD83)	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #5		

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 (Judge Baylor Fed Com 701H)									
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
Start Build 1.50									
2,800.00	1.50	153.03	2,799.99	-1.17	0.59	1.18	1.50	1.50	0.00
2,900.00	3.00	153.03	2,899.91	-4.67	2.37	4.72	1.50	1.50	0.00
2,966.50	4.00	153.03	2,966.29	-8.28	4.21	8.38	1.50	1.50	0.00
Start 4538.47 hold at 2966.50 MD									
3,000.00	4.00	153.03	2,999.70	-10.36	5.27	10.48	0.00	0.00	0.00
3,100.00	4.00	153.03	3,099.46	-16.58	8.43	16.76	0.00	0.00	0.00
3,200.00	4.00	153.03	3,199.22	-22.79	11.60	23.05	0.00	0.00	0.00
3,300.00	4.00	153.03	3,298.97	-29.00	14.76	29.33	0.00	0.00	0.00
3,400.00	4.00	153.03	3,398.73	-35.22	17.92	35.62	0.00	0.00	0.00
3,500.00	4.00	153.03	3,498.49	-41.43	21.08	41.90	0.00	0.00	0.00
3,600.00	4.00	153.03	3,598.24	-47.64	24.24	48.18	0.00	0.00	0.00
3,700.00	4.00	153.03	3,698.00	-53.86	27.40	54.47	0.00	0.00	0.00
3,800.00	4.00	153.03	3,797.76	-60.07	30.56	60.75	0.00	0.00	0.00
3,900.00	4.00	153.03	3,897.51	-66.28	33.72	67.03	0.00	0.00	0.00
4,000.00	4.00	153.03	3,997.27	-72.50	36.89	73.32	0.00	0.00	0.00
4,100.00	4.00	153.03	4,097.03	-78.71	40.05	79.60	0.00	0.00	0.00
4,200.00	4.00	153.03	4,196.78	-84.93	43.21	85.88	0.00	0.00	0.00
4,300.00	4.00	153.03	4,296.54	-91.14	46.37	92.17	0.00	0.00	0.00
4,400.00	4.00	153.03	4,396.30	-97.35	49.53	98.45	0.00	0.00	0.00
4,500.00	4.00	153.03	4,496.05	-103.57	52.69	104.74	0.00	0.00	0.00
4,600.00	4.00	153.03	4,595.81	-109.78	55.85	111.02	0.00	0.00	0.00
4,700.00	4.00	153.03	4,695.57	-115.99	59.01	117.30	0.00	0.00	0.00
4,800.00	4.00	153.03	4,795.32	-122.21	62.18	123.59	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Company:	Franklin Mountain Energy	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Project:	Lea County, NM (NAD83)	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #5		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.00	4.00	153.03	4,895.08	-128.42	65.34	129.87	0.00	0.00	0.00
5,000.00	4.00	153.03	4,994.84	-134.63	68.50	136.15	0.00	0.00	0.00
5,100.00	4.00	153.03	5,094.59	-140.85	71.66	142.44	0.00	0.00	0.00
5,200.00	4.00	153.03	5,194.35	-147.06	74.82	148.72	0.00	0.00	0.00
5,300.00	4.00	153.03	5,294.11	-153.27	77.98	155.00	0.00	0.00	0.00
5,400.00	4.00	153.03	5,393.86	-159.49	81.14	161.29	0.00	0.00	0.00
5,500.00	4.00	153.03	5,493.62	-165.70	84.30	167.57	0.00	0.00	0.00
5,600.00	4.00	153.03	5,593.38	-171.91	87.47	173.86	0.00	0.00	0.00
5,700.00	4.00	153.03	5,693.13	-178.13	90.63	180.14	0.00	0.00	0.00
5,800.00	4.00	153.03	5,792.89	-184.34	93.79	186.42	0.00	0.00	0.00
5,900.00	4.00	153.03	5,892.65	-190.55	96.95	192.71	0.00	0.00	0.00
6,000.00	4.00	153.03	5,992.40	-196.77	100.11	198.99	0.00	0.00	0.00
6,100.00	4.00	153.03	6,092.16	-202.98	103.27	205.27	0.00	0.00	0.00
6,200.00	4.00	153.03	6,191.92	-209.19	106.43	211.56	0.00	0.00	0.00
6,300.00	4.00	153.03	6,291.67	-215.41	109.59	217.84	0.00	0.00	0.00
6,400.00	4.00	153.03	6,391.43	-221.62	112.76	224.12	0.00	0.00	0.00
6,500.00	4.00	153.03	6,491.19	-227.83	115.92	230.41	0.00	0.00	0.00
6,600.00	4.00	153.03	6,590.94	-234.05	119.08	236.69	0.00	0.00	0.00
6,700.00	4.00	153.03	6,690.70	-240.26	122.24	242.98	0.00	0.00	0.00
6,800.00	4.00	153.03	6,790.46	-246.47	125.40	249.26	0.00	0.00	0.00
6,837.43	4.00	153.03	6,827.80	-248.80	126.58	251.61	0.00	0.00	0.00
S36/1 Crossing - 6837.43' MD									
6,900.00	4.00	153.03	6,890.21	-252.69	128.56	255.54	0.00	0.00	0.00
7,000.00	4.00	153.03	6,989.97	-258.90	131.72	261.83	0.00	0.00	0.00
7,100.00	4.00	153.03	7,089.73	-265.11	134.88	268.11	0.00	0.00	0.00
7,200.00	4.00	153.03	7,189.48	-271.33	138.05	274.39	0.00	0.00	0.00
7,300.00	4.00	153.03	7,289.24	-277.54	141.21	280.68	0.00	0.00	0.00
7,400.00	4.00	153.03	7,389.00	-283.75	144.37	286.96	0.00	0.00	0.00
7,504.97	4.00	153.03	7,493.71	-290.28	147.69	293.56	0.00	0.00	0.00
Start Drop -1.50									
7,600.00	2.57	153.03	7,588.58	-295.13	150.15	298.47	1.50	-1.50	0.00
7,700.00	1.07	153.03	7,688.53	-297.96	151.60	301.33	1.50	-1.50	0.00
7,771.47	0.00	0.00	7,760.00	-298.56	151.90	301.93	1.50	-1.50	-214.12
Start 3923.00 hold at 7771.47 MD									
7,800.00	0.00	0.00	7,788.53	-298.56	151.90	301.93	0.00	0.00	0.00
7,900.00	0.00	0.00	7,888.53	-298.56	151.90	301.93	0.00	0.00	0.00
8,000.00	0.00	0.00	7,988.53	-298.56	151.90	301.93	0.00	0.00	0.00
8,100.00	0.00	0.00	8,088.53	-298.56	151.90	301.93	0.00	0.00	0.00
8,200.00	0.00	0.00	8,188.53	-298.56	151.90	301.93	0.00	0.00	0.00
8,300.00	0.00	0.00	8,288.53	-298.56	151.90	301.93	0.00	0.00	0.00
8,400.00	0.00	0.00	8,388.53	-298.56	151.90	301.93	0.00	0.00	0.00
8,500.00	0.00	0.00	8,488.53	-298.56	151.90	301.93	0.00	0.00	0.00
8,600.00	0.00	0.00	8,588.53	-298.56	151.90	301.93	0.00	0.00	0.00
8,700.00	0.00	0.00	8,688.53	-298.56	151.90	301.93	0.00	0.00	0.00
8,800.00	0.00	0.00	8,788.53	-298.56	151.90	301.93	0.00	0.00	0.00
8,900.00	0.00	0.00	8,888.53	-298.56	151.90	301.93	0.00	0.00	0.00
9,000.00	0.00	0.00	8,988.53	-298.56	151.90	301.93	0.00	0.00	0.00
9,100.00	0.00	0.00	9,088.53	-298.56	151.90	301.93	0.00	0.00	0.00
9,200.00	0.00	0.00	9,188.53	-298.56	151.90	301.93	0.00	0.00	0.00
9,300.00	0.00	0.00	9,288.53	-298.56	151.90	301.93	0.00	0.00	0.00
9,400.00	0.00	0.00	9,388.53	-298.56	151.90	301.93	0.00	0.00	0.00
9,500.00	0.00	0.00	9,488.53	-298.56	151.90	301.93	0.00	0.00	0.00
9,600.00	0.00	0.00	9,588.53	-298.56	151.90	301.93	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Company:	Franklin Mountain Energy	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Project:	Lea County, NM (NAD83)	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #5		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,700.00	0.00	0.00	9,688.53	-298.56	151.90	301.93	0.00	0.00	0.00
9,800.00	0.00	0.00	9,788.53	-298.56	151.90	301.93	0.00	0.00	0.00
9,900.00	0.00	0.00	9,888.53	-298.56	151.90	301.93	0.00	0.00	0.00
10,000.00	0.00	0.00	9,988.53	-298.56	151.90	301.93	0.00	0.00	0.00
10,100.00	0.00	0.00	10,088.53	-298.56	151.90	301.93	0.00	0.00	0.00
10,200.00	0.00	0.00	10,188.53	-298.56	151.90	301.93	0.00	0.00	0.00
10,300.00	0.00	0.00	10,288.53	-298.56	151.90	301.93	0.00	0.00	0.00
10,400.00	0.00	0.00	10,388.53	-298.56	151.90	301.93	0.00	0.00	0.00
10,500.00	0.00	0.00	10,488.53	-298.56	151.90	301.93	0.00	0.00	0.00
10,600.00	0.00	0.00	10,588.53	-298.56	151.90	301.93	0.00	0.00	0.00
10,700.00	0.00	0.00	10,688.53	-298.56	151.90	301.93	0.00	0.00	0.00
10,800.00	0.00	0.00	10,788.53	-298.56	151.90	301.93	0.00	0.00	0.00
10,900.00	0.00	0.00	10,888.53	-298.56	151.90	301.93	0.00	0.00	0.00
11,000.00	0.00	0.00	10,988.53	-298.56	151.90	301.93	0.00	0.00	0.00
11,100.00	0.00	0.00	11,088.53	-298.56	151.90	301.93	0.00	0.00	0.00
11,200.00	0.00	0.00	11,188.53	-298.56	151.90	301.93	0.00	0.00	0.00
11,300.00	0.00	0.00	11,288.53	-298.56	151.90	301.93	0.00	0.00	0.00
11,400.00	0.00	0.00	11,388.53	-298.56	151.90	301.93	0.00	0.00	0.00
11,500.00	0.00	0.00	11,488.53	-298.56	151.90	301.93	0.00	0.00	0.00
11,600.00	0.00	0.00	11,588.53	-298.56	151.90	301.93	0.00	0.00	0.00
11,694.47	0.00	0.00	11,683.00	-298.56	151.90	301.93	0.00	0.00	0.00
Start DLS 10.00 TFO 179.50									
11,700.00	0.55	179.50	11,688.53	-298.59	151.90	301.96	9.99	9.99	0.00
11,750.00	5.55	179.50	11,738.44	-301.25	151.92	304.62	10.00	10.00	0.00
11,800.00	10.55	179.50	11,787.93	-308.25	151.98	311.62	10.00	10.00	0.00
11,850.00	15.55	179.50	11,836.62	-319.54	152.08	322.91	10.00	10.00	0.00
11,900.00	20.55	179.50	11,884.15	-335.03	152.22	338.40	10.00	10.00	0.00
11,950.00	25.55	179.50	11,930.14	-354.60	152.39	357.97	10.00	10.00	0.00
12,000.00	30.55	179.50	11,974.25	-378.10	152.59	381.47	10.00	10.00	0.00
12,050.00	35.55	179.50	12,016.15	-405.37	152.83	408.73	10.00	10.00	0.00
12,100.00	40.55	179.50	12,055.51	-436.17	153.10	439.54	10.00	10.00	0.00
12,150.00	45.55	179.50	12,092.03	-470.29	153.40	473.66	10.00	10.00	0.00
12,200.00	50.55	179.50	12,125.44	-507.47	153.72	510.83	10.00	10.00	0.00
12,250.00	55.55	179.50	12,155.49	-547.41	154.07	550.77	10.00	10.00	0.00
12,300.00	60.55	179.50	12,181.94	-589.83	154.44	593.18	10.00	10.00	0.00
12,350.00	65.55	179.50	12,204.59	-634.38	154.83	637.74	10.00	10.00	0.00
12,400.00	70.55	179.50	12,223.27	-680.74	155.23	684.09	10.00	10.00	0.00
12,450.00	75.55	179.50	12,237.84	-728.55	155.65	731.90	10.00	10.00	0.00
12,500.00	80.55	179.50	12,248.19	-777.45	156.08	780.80	10.00	10.00	0.00
12,550.00	85.55	179.50	12,254.23	-827.07	156.51	830.41	10.00	10.00	0.00
12,588.27	89.38	179.50	12,255.92	-865.29	156.84	868.63	10.00	10.00	0.00
Start 9801.67 hold at 12588.27 MD - LP (Judge Baylor Fed Com 701H)									
12,600.00	89.38	179.50	12,256.05	-877.02	156.95	880.36	0.00	0.00	0.00
12,700.00	89.38	179.50	12,257.13	-977.01	157.82	980.34	0.00	0.00	0.00
12,800.00	89.38	179.50	12,258.22	-1,077.00	158.69	1,080.33	0.00	0.00	0.00
12,900.00	89.38	179.50	12,259.30	-1,176.99	159.56	1,180.31	0.00	0.00	0.00
13,000.00	89.38	179.50	12,260.38	-1,276.98	160.44	1,280.30	0.00	0.00	0.00
13,100.00	89.38	179.50	12,261.47	-1,376.97	161.31	1,380.28	0.00	0.00	0.00
13,200.00	89.38	179.50	12,262.55	-1,476.96	162.18	1,480.27	0.00	0.00	0.00
13,300.00	89.38	179.50	12,263.63	-1,576.95	163.05	1,580.25	0.00	0.00	0.00
13,400.00	89.38	179.50	12,264.71	-1,676.94	163.93	1,680.23	0.00	0.00	0.00
13,500.00	89.38	179.50	12,265.80	-1,776.93	164.80	1,780.22	0.00	0.00	0.00
13,600.00	89.38	179.50	12,266.88	-1,876.92	165.67	1,880.20	0.00	0.00	0.00
13,700.00	89.38	179.50	12,267.96	-1,976.91	166.54	1,980.19	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Company:	Franklin Mountain Energy	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Project:	Lea County, NM (NAD83)	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #5		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,800.00	89.38	179.50	12,269.05	-2,076.90	167.42	2,080.17	0.00	0.00	0.00
13,900.00	89.38	179.50	12,270.13	-2,176.90	168.29	2,180.16	0.00	0.00	0.00
14,000.00	89.38	179.50	12,271.21	-2,276.89	169.16	2,280.14	0.00	0.00	0.00
14,100.00	89.38	179.50	12,272.30	-2,376.88	170.03	2,380.13	0.00	0.00	0.00
14,200.00	89.38	179.50	12,273.38	-2,476.87	170.91	2,480.11	0.00	0.00	0.00
14,300.00	89.38	179.50	12,274.46	-2,576.86	171.78	2,580.09	0.00	0.00	0.00
14,400.00	89.38	179.50	12,275.54	-2,676.85	172.65	2,680.08	0.00	0.00	0.00
14,500.00	89.38	179.50	12,276.63	-2,776.84	173.52	2,780.06	0.00	0.00	0.00
14,600.00	89.38	179.50	12,277.71	-2,876.83	174.40	2,880.05	0.00	0.00	0.00
14,700.00	89.38	179.50	12,278.79	-2,976.82	175.27	2,980.03	0.00	0.00	0.00
14,800.00	89.38	179.50	12,279.88	-3,076.81	176.14	3,080.02	0.00	0.00	0.00
14,900.00	89.38	179.50	12,280.96	-3,176.80	177.01	3,180.00	0.00	0.00	0.00
15,000.00	89.38	179.50	12,282.04	-3,276.79	177.89	3,279.98	0.00	0.00	0.00
15,100.00	89.38	179.50	12,283.12	-3,376.78	178.76	3,379.97	0.00	0.00	0.00
15,200.00	89.38	179.50	12,284.21	-3,476.77	179.63	3,479.95	0.00	0.00	0.00
15,300.00	89.38	179.50	12,285.29	-3,576.76	180.50	3,579.94	0.00	0.00	0.00
15,400.00	89.38	179.50	12,286.37	-3,676.75	181.38	3,679.92	0.00	0.00	0.00
15,500.00	89.38	179.50	12,287.46	-3,776.74	182.25	3,779.91	0.00	0.00	0.00
15,600.00	89.38	179.50	12,288.54	-3,876.73	183.12	3,879.89	0.00	0.00	0.00
15,700.00	89.38	179.50	12,289.62	-3,976.72	183.99	3,979.87	0.00	0.00	0.00
15,800.00	89.38	179.50	12,290.71	-4,076.71	184.87	4,079.86	0.00	0.00	0.00
15,900.00	89.38	179.50	12,291.79	-4,176.70	185.74	4,179.84	0.00	0.00	0.00
16,000.00	89.38	179.50	12,292.87	-4,276.69	186.61	4,279.83	0.00	0.00	0.00
16,100.00	89.38	179.50	12,293.95	-4,376.68	187.48	4,379.81	0.00	0.00	0.00
16,200.00	89.38	179.50	12,295.04	-4,476.67	188.36	4,479.80	0.00	0.00	0.00
16,300.00	89.38	179.50	12,296.12	-4,576.66	189.23	4,579.78	0.00	0.00	0.00
16,400.00	89.38	179.50	12,297.20	-4,676.65	190.10	4,679.77	0.00	0.00	0.00
16,500.00	89.38	179.50	12,298.29	-4,776.64	190.97	4,779.75	0.00	0.00	0.00
16,600.00	89.38	179.50	12,299.37	-4,876.63	191.85	4,879.73	0.00	0.00	0.00
16,700.00	89.38	179.50	12,300.45	-4,976.62	192.72	4,979.72	0.00	0.00	0.00
16,800.00	89.38	179.50	12,301.53	-5,076.61	193.59	5,079.70	0.00	0.00	0.00
16,900.00	89.38	179.50	12,302.62	-5,176.61	194.46	5,179.69	0.00	0.00	0.00
17,000.00	89.38	179.50	12,303.70	-5,276.60	195.34	5,279.67	0.00	0.00	0.00
17,100.00	89.38	179.50	12,304.78	-5,376.59	196.21	5,379.66	0.00	0.00	0.00
17,200.00	89.38	179.50	12,305.87	-5,476.58	197.08	5,479.64	0.00	0.00	0.00
17,300.00	89.38	179.50	12,306.95	-5,576.57	197.95	5,579.62	0.00	0.00	0.00
17,400.00	89.38	179.50	12,308.03	-5,676.56	198.83	5,679.61	0.00	0.00	0.00
17,500.00	89.38	179.50	12,309.12	-5,776.55	199.70	5,779.59	0.00	0.00	0.00
17,600.00	89.38	179.50	12,310.20	-5,876.54	200.57	5,879.58	0.00	0.00	0.00
17,700.00	89.38	179.50	12,311.28	-5,976.53	201.44	5,979.56	0.00	0.00	0.00
17,800.00	89.38	179.50	12,312.36	-6,076.52	202.31	6,079.55	0.00	0.00	0.00
17,900.00	89.38	179.50	12,313.45	-6,176.51	203.19	6,179.53	0.00	0.00	0.00
18,000.00	89.38	179.50	12,314.53	-6,276.50	204.06	6,279.51	0.00	0.00	0.00
18,100.00	89.38	179.50	12,315.61	-6,376.49	204.93	6,379.50	0.00	0.00	0.00
18,200.00	89.38	179.50	12,316.70	-6,476.48	205.80	6,479.48	0.00	0.00	0.00
18,300.00	89.38	179.50	12,317.78	-6,576.47	206.68	6,579.47	0.00	0.00	0.00
18,400.00	89.38	179.50	12,318.86	-6,676.46	207.55	6,679.45	0.00	0.00	0.00
18,500.00	89.38	179.50	12,319.94	-6,776.45	208.42	6,779.44	0.00	0.00	0.00
18,600.00	89.38	179.50	12,321.03	-6,876.44	209.29	6,879.42	0.00	0.00	0.00
18,700.00	89.38	179.50	12,322.11	-6,976.43	210.17	6,979.41	0.00	0.00	0.00
18,800.00	89.38	179.50	12,323.19	-7,076.42	211.04	7,079.39	0.00	0.00	0.00
18,900.00	89.38	179.50	12,324.28	-7,176.41	211.91	7,179.37	0.00	0.00	0.00
19,000.00	89.38	179.50	12,325.36	-7,276.40	212.78	7,279.36	0.00	0.00	0.00
19,100.00	89.38	179.50	12,326.44	-7,376.39	213.66	7,379.34	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Company:	Franklin Mountain Energy	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Project:	Lea County, NM (NAD83)	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #5		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
19,200.00	89.38	179.50	12,327.53	-7,476.38	214.53	7,479.33	0.00	0.00	0.00	
19,300.00	89.38	179.50	12,328.61	-7,576.37	215.40	7,579.31	0.00	0.00	0.00	
19,400.00	89.38	179.50	12,329.69	-7,676.36	216.27	7,679.30	0.00	0.00	0.00	
19,500.00	89.38	179.50	12,330.77	-7,776.35	217.15	7,779.28	0.00	0.00	0.00	
19,600.00	89.38	179.50	12,331.86	-7,876.34	218.02	7,879.26	0.00	0.00	0.00	
19,700.00	89.38	179.50	12,332.94	-7,976.33	218.89	7,979.25	0.00	0.00	0.00	
19,800.00	89.38	179.50	12,334.02	-8,076.32	219.76	8,079.23	0.00	0.00	0.00	
19,900.00	89.38	179.50	12,335.11	-8,176.32	220.64	8,179.22	0.00	0.00	0.00	
20,000.00	89.38	179.50	12,336.19	-8,276.31	221.51	8,279.20	0.00	0.00	0.00	
20,100.00	89.38	179.50	12,337.27	-8,376.30	222.38	8,379.19	0.00	0.00	0.00	
20,200.00	89.38	179.50	12,338.35	-8,476.29	223.25	8,479.17	0.00	0.00	0.00	
20,300.00	89.38	179.50	12,339.44	-8,576.28	224.13	8,579.15	0.00	0.00	0.00	
20,400.00	89.38	179.50	12,340.52	-8,676.27	225.00	8,679.14	0.00	0.00	0.00	
20,500.00	89.38	179.50	12,341.60	-8,776.26	225.87	8,779.12	0.00	0.00	0.00	
20,600.00	89.38	179.50	12,342.69	-8,876.25	226.74	8,879.11	0.00	0.00	0.00	
20,700.00	89.38	179.50	12,343.77	-8,976.24	227.62	8,979.09	0.00	0.00	0.00	
20,800.00	89.38	179.50	12,344.85	-9,076.23	228.49	9,079.08	0.00	0.00	0.00	
20,900.00	89.38	179.50	12,345.94	-9,176.22	229.36	9,179.06	0.00	0.00	0.00	
21,000.00	89.38	179.50	12,347.02	-9,276.21	230.23	9,279.05	0.00	0.00	0.00	
21,100.00	89.38	179.50	12,348.10	-9,376.20	231.11	9,379.03	0.00	0.00	0.00	
21,200.00	89.38	179.50	12,349.18	-9,476.19	231.98	9,479.01	0.00	0.00	0.00	
21,300.00	89.38	179.50	12,350.27	-9,576.18	232.85	9,579.00	0.00	0.00	0.00	
21,400.00	89.38	179.50	12,351.35	-9,676.17	233.72	9,678.98	0.00	0.00	0.00	
21,500.00	89.38	179.50	12,352.43	-9,776.16	234.60	9,778.97	0.00	0.00	0.00	
21,600.00	89.38	179.50	12,353.52	-9,876.15	235.47	9,878.95	0.00	0.00	0.00	
21,700.00	89.38	179.50	12,354.60	-9,976.14	236.34	9,978.94	0.00	0.00	0.00	
21,800.00	89.38	179.50	12,355.68	-10,076.13	237.21	10,078.92	0.00	0.00	0.00	
21,900.00	89.38	179.50	12,356.76	-10,176.12	238.09	10,178.90	0.00	0.00	0.00	
22,000.00	89.38	179.50	12,357.85	-10,276.11	238.96	10,278.89	0.00	0.00	0.00	
22,100.00	89.38	179.50	12,358.93	-10,376.10	239.83	10,378.87	0.00	0.00	0.00	
22,200.00	89.38	179.50	12,360.01	-10,476.09	240.70	10,478.86	0.00	0.00	0.00	
22,300.00	89.38	179.50	12,361.10	-10,576.08	241.58	10,578.84	0.00	0.00	0.00	
22,389.94	89.38	179.50	12,362.07	-10,666.01	242.36	10,668.76	0.00	0.00	0.00	
TD at 22389.94 - PBHL (Judge Baylor Fed Com 701H)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL (Judge Baylor Fed Com 701H) - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	394,386.55	852,683.60	32.080260	-103.328099	
LP (Judge Baylor Fed Com 701H) - plan misses target center by 0.01usft at 12588.27usft MD (12255.92 TVD, -865.29 N, 156.84 E) - Point	0.00	0.00	12,255.92	-865.29	156.84	393,521.26	852,840.44	32.077878	-103.327618	
PBHL (Judge Baylor Fed Com 701H) - plan hits target center - Point	0.00	0.00	12,362.07	-10,666.01	242.36	383,720.54	852,925.96	32.050938	-103.327637	



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Company:	Franklin Mountain Energy	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Project:	Lea County, NM (NAD83)	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #5		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,700.00	2,700.00	0.00	0.00	Start Build 1.50
2,966.50	2,966.29	-8.28	4.21	Start 4538.47 hold at 2966.50 MD
6,837.43	6,827.80	-248.80	126.58	S36/1 Crossing - 6837.43' MD
7,504.97	7,493.71	-290.28	147.69	Start Drop -1.50
7,771.47	7,760.00	-298.56	151.90	Start 3923.00 hold at 7771.47 MD
11,694.47	11,683.00	-298.56	151.90	Start DLS 10.00 TFO 179.50
12,588.27	12,255.92	-865.29	156.84	Start 9801.67 hold at 12588.27 MD
22,389.94	12,362.07	-10,666.01	242.36	TD at 22389.94



Franklin Mountain Energy

Lea County, NM (NAD83)

Judge Baylor Fed Com

Judge Baylor Fed Com 701H

OH

Plan #5

Anticollision Report

24 May, 2021





Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Reference	Plan #5
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	Stations
Depth Range:	0.00 to 28,197.00usft
Results Limited by:	Maximum ellipse separation of 1,000.00 usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Combined Separation
Casing Method:	Not applied

Survey Tool Program		Date	5/24/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	22,389.94	Plan #5 (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/Kaston Fed Com						
Bus Driver Fed Com 602H - OH - Plan #5	11,353.82	11,361.10	1,500.45	1,444.11	26.628	CC
Bus Driver Fed Com 602H - OH - Plan #5	22,390.61	22,033.60	1,535.32	1,283.81	6.104	ES, SF
Bus Driver Fed Com 702H - OH - OH	2,759.32	2,745.00	1,814.98	1,803.20	154.137	CC, ES
Bus Driver Fed Com 702H - OH - OH	3,200.00	2,745.00	1,860.30	1,847.61	146.625	SF
Bus Driver Fed Com 702H - OH - Plan #5	11,518.79	11,558.98	1,040.48	985.94	19.079	CC
Bus Driver Fed Com 702H - OH - Plan #5	22,390.61	22,233.15	1,056.32	804.19	4.190	ES, SF
Kaston Fed Com 603H - OH - Plan #6	2,613.85	2,610.65	1,957.42	1,944.50	151.447	CC
Kaston Fed Com 603H - OH - Plan #6	2,800.00	2,762.90	1,957.81	1,944.05	142.318	ES
Kaston Fed Com 603H - OH - Plan #6	22,390.61	22,055.59	2,625.71	2,370.54	10.290	SF
Kaston Fed Com 703H - OH - Plan #5	3,328.31	3,270.26	1,911.91	1,895.66	117.697	CC
Kaston Fed Com 703H - OH - Plan #5	22,390.61	22,322.68	2,028.31	1,771.65	7.903	ES, SF
Judge Baylor Fed Com						
Judge Baylor Fed Com 601H - OH - Plan #5	2,700.00	2,700.30	34.99	21.61	2.615	CC, ES
Judge Baylor Fed Com 601H - OH - Plan #5	22,389.94	22,101.01	426.86	244.63	2.342	SF
LHS Wildcat Fed Com						
LHS Wildcat Fed Com 604H - OH - OH	1,373.59	1,345.00	4,210.72	4,204.27	652.696	CC, ES
LHS Wildcat Fed Com 604H - OH - OH	4,900.00	1,345.00	5,441.23	5,426.86	378.705	SF
LHS Wildcat Fed Com 604H - OH - Plan #7	11,115.87	11,086.33	3,934.37	3,882.31	75.574	CC
LHS Wildcat Fed Com 604H - OH - Plan #7	22,390.61	21,869.36	3,954.54	3,699.55	15.508	ES, SF
LHS Wildcat Fed Com 705H - OH - OH	1,637.35	1,600.88	4,234.37	4,227.03	576.722	CC
LHS Wildcat Fed Com 705H - OH - OH	7,700.00	7,636.49	4,258.31	4,222.68	119.520	ES
LHS Wildcat Fed Com 705H - OH - OH	15,900.00	8,917.00	6,723.27	6,656.24	100.315	SF
LHS Wildcat Fed Com 705H - OH - Plan #4	11,783.15	11,751.96	4,264.85	4,206.57	73.174	CC
LHS Wildcat Fed Com 705H - OH - Plan #4	22,390.61	22,251.43	4,276.40	4,020.39	16.704	ES, SF

Offset Design	Bus Driver/Kaston Fed Com - Bus Driver Fed Com 602H - OH - Plan #5										Offset Site Error:	0.00 usft
Survey Program:	0-OWSG (Rev2) MWD										Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	87.59	79.53	1,885.79	1,887.47			
100.00	100.00	96.80	96.80	0.14	0.12	87.59	79.53	1,885.79	1,887.47	1,887.28	0.19	N/A
200.00	200.00	196.80	196.80	0.50	0.47	87.59	79.53	1,885.79	1,887.47	1,886.78	0.69	2,743.562

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	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		
300.00	300.00	296.80	296.80	0.86	0.83	87.59	79.53	1,885.79	1,887.47	1,886.27	1.19	1,579.734		
400.00	400.00	396.80	396.80	1.22	1.19	87.59	79.53	1,885.79	1,887.47	1,885.76	1.70	1,109.160		
500.00	500.00	496.80	496.80	1.58	1.55	87.59	79.53	1,885.79	1,887.47	1,885.26	2.21	854.584		
600.00	600.00	596.80	596.80	1.93	1.91	87.59	79.53	1,885.79	1,887.47	1,884.75	2.72	695.052		
700.00	700.00	696.80	696.80	2.29	2.26	87.59	79.53	1,885.79	1,887.47	1,884.24	3.22	585.711		
800.00	800.00	796.80	796.80	2.65	2.62	87.59	79.53	1,885.79	1,887.47	1,883.74	3.73	506.095		
900.00	900.00	896.80	896.80	3.01	2.98	87.59	79.53	1,885.79	1,887.47	1,883.23	4.24	445.534		
1,000.00	1,000.00	996.80	996.80	3.37	3.34	87.59	79.53	1,885.79	1,887.47	1,882.72	4.74	397.917		
1,100.00	1,100.00	1,096.80	1,096.80	3.73	3.70	87.59	79.53	1,885.79	1,887.47	1,882.22	5.25	359.496		
1,200.00	1,200.00	1,196.80	1,196.80	4.08	4.06	87.59	79.53	1,885.79	1,887.47	1,881.71	5.76	327.840		
1,300.00	1,300.00	1,296.80	1,296.80	4.44	4.42	87.59	79.53	1,885.79	1,887.47	1,881.20	6.26	301.309		
1,400.00	1,400.00	1,396.80	1,396.80	4.80	4.77	87.59	79.53	1,885.79	1,887.47	1,880.70	6.77	278.750		
1,500.00	1,500.00	1,496.80	1,496.80	5.16	5.13	87.59	79.53	1,885.79	1,887.47	1,880.19	7.28	259.334		
1,600.00	1,600.00	1,596.80	1,596.80	5.52	5.49	87.59	79.53	1,885.79	1,887.47	1,879.68	7.79	242.446		
1,700.00	1,700.00	1,696.80	1,696.80	5.88	5.85	87.59	79.53	1,885.79	1,887.47	1,879.17	8.29	227.624		
1,800.00	1,800.00	1,796.80	1,796.80	6.24	6.21	87.59	79.53	1,885.79	1,887.47	1,878.67	8.80	214.509		
1,900.00	1,900.00	1,896.80	1,896.80	6.59	6.57	87.59	79.53	1,885.79	1,887.47	1,878.16	9.31	202.824		
2,000.00	2,000.00	1,996.80	1,996.80	6.95	6.92	87.59	79.53	1,885.79	1,887.47	1,877.65	9.81	192.345		
2,100.00	2,100.00	2,096.80	2,096.80	7.31	7.28	87.59	79.53	1,885.79	1,887.47	1,877.15	10.32	182.897		
2,200.00	2,200.00	2,196.80	2,196.80	7.67	7.64	87.59	79.53	1,885.79	1,887.47	1,876.64	10.83	174.333		
2,300.00	2,300.00	2,296.80	2,296.80	8.03	8.00	87.59	79.53	1,885.79	1,887.47	1,876.13	11.33	166.535		
2,400.00	2,400.00	2,396.80	2,396.80	8.39	8.36	87.59	79.53	1,885.79	1,887.47	1,875.63	11.84	159.405		
2,500.00	2,500.00	2,496.80	2,496.80	8.74	8.72	87.59	79.53	1,885.79	1,887.47	1,875.12	12.35	152.860		
2,600.00	2,600.00	2,596.80	2,596.80	9.10	9.08	87.59	79.53	1,885.79	1,887.47	1,874.61	12.85	146.832		
2,700.00	2,700.00	2,696.80	2,696.80	9.46	9.43	87.59	79.53	1,885.79	1,887.47	1,874.10	13.36	141.261		
2,800.00	2,799.99	2,796.79	2,796.79	9.80	9.79	-65.49	79.53	1,885.79	1,886.92	1,873.07	13.86	136.180		
2,900.00	2,899.91	2,896.71	2,896.71	10.13	10.15	-65.62	79.53	1,885.79	1,885.30	1,870.96	14.34	131.479		
2,966.50	2,966.29	2,963.09	2,963.09	10.35	10.39	-65.76	79.53	1,885.79	1,883.62	1,868.96	14.66	128.478		
3,000.00	2,999.70	2,996.50	2,996.50	10.46	10.51	-65.82	79.53	1,885.79	1,882.66	1,867.84	14.82	127.005		
3,100.00	3,099.46	3,096.26	3,096.26	10.79	10.87	-66.02	79.53	1,885.79	1,879.81	1,864.50	15.31	122.785		
3,200.00	3,199.22	3,196.02	3,196.02	11.12	11.22	-66.21	79.53	1,885.79	1,876.99	1,861.19	15.80	118.810		
3,300.00	3,298.97	3,334.52	3,334.49	11.46	11.69	-66.42	77.54	1,884.51	1,873.19	1,856.82	16.36	114.472		
3,400.00	3,398.73	3,474.63	3,474.40	11.80	12.15	-66.51	71.22	1,880.46	1,867.25	1,850.33	16.92	110.381		
3,500.00	3,498.49	3,614.37	3,613.56	12.14	12.61	-66.47	60.63	1,873.67	1,859.16	1,841.70	17.47	106.447		
3,600.00	3,598.24	3,709.86	3,708.53	12.48	12.93	-66.41	52.25	1,868.29	1,850.24	1,832.31	17.93	103.175		
3,700.00	3,698.00	3,809.44	3,807.56	12.83	13.27	-66.35	43.48	1,862.67	1,841.31	1,822.90	18.41	100.010		
3,800.00	3,797.76	3,909.02	3,906.60	13.17	13.61	-66.28	34.72	1,857.05	1,832.38	1,813.48	18.89	96.988		
3,900.00	3,897.51	4,008.60	4,005.63	13.52	13.95	-66.21	25.96	1,851.43	1,823.45	1,804.07	19.38	94.103		
4,000.00	3,997.27	4,108.18	4,104.66	13.87	14.30	-66.15	17.19	1,845.81	1,814.52	1,794.66	19.86	91.346		
4,100.00	4,097.03	4,207.76	4,203.70	14.22	14.64	-66.08	8.43	1,840.19	1,805.60	1,785.25	20.35	88.710		
4,200.00	4,196.78	4,307.34	4,302.73	14.58	14.99	-66.01	-0.34	1,834.57	1,796.68	1,775.83	20.85	86.188		
4,300.00	4,296.54	4,406.91	4,401.76	14.93	15.35	-65.94	-9.10	1,828.95	1,787.76	1,766.42	21.34	83.773		
4,400.00	4,396.30	4,506.49	4,500.79	15.28	15.70	-65.87	-17.86	1,823.33	1,778.85	1,757.01	21.84	81.461		
4,500.00	4,496.05	4,606.07	4,599.83	15.64	16.06	-65.80	-26.63	1,817.71	1,769.93	1,747.60	22.34	79.244		
4,600.00	4,595.81	4,705.65	4,698.86	16.00	16.42	-65.73	-35.39	1,812.09	1,761.02	1,738.19	22.84	77.119		
4,700.00	4,695.57	4,805.23	4,797.89	16.36	16.78	-65.66	-44.15	1,806.47	1,752.12	1,728.78	23.34	75.079		
4,800.00	4,795.32	4,904.81	4,896.92	16.71	17.14	-65.59	-52.92	1,800.85	1,743.21	1,719.37	23.84	73.120		
4,900.00	4,895.08	5,004.38	4,995.96	17.07	17.50	-65.52	-61.68	1,795.23	1,734.31	1,709.96	24.35	71.238		
5,000.00	4,994.84	5,103.96	5,094.99	17.43	17.87	-65.44	-70.45	1,789.61	1,725.41	1,700.56	24.85	69.429		
5,100.00	5,094.59	5,203.54	5,194.02	17.79	18.23	-65.37	-79.21	1,783.99	1,716.51	1,691.15	25.36	67.688		
5,200.00	5,194.35	5,303.12	5,293.06	18.16	18.60	-65.29	-87.97	1,778.37	1,707.62	1,681.75	25.87	66.013		
5,300.00	5,294.11	5,402.70	5,392.09	18.52	18.97	-65.21	-96.74	1,772.75	1,698.73	1,672.35	26.38	64.400		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	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		
5,400.00	5,393.86	5,502.28	5,491.12	18.88	19.34	-65.14	-105.50	1,767.13	1,689.84	1,662.95	26.89	62.845		
5,500.00	5,493.62	5,601.85	5,590.15	19.24	19.71	-65.06	-114.26	1,761.51	1,680.96	1,653.56	27.40	61.346		
5,600.00	5,593.38	5,701.43	5,689.19	19.61	20.08	-64.98	-123.03	1,755.89	1,672.08	1,644.16	27.91	59.900		
5,700.00	5,693.13	5,801.01	5,788.22	19.97	20.45	-64.90	-131.79	1,750.27	1,663.20	1,634.77	28.43	58.504		
5,800.00	5,792.89	5,900.59	5,887.25	20.34	20.82	-64.82	-140.56	1,744.65	1,654.32	1,625.38	28.94	57.157		
5,900.00	5,892.65	6,000.17	5,986.28	20.70	21.20	-64.74	-149.32	1,739.03	1,645.45	1,615.99	29.46	55.855		
6,000.00	5,992.40	6,099.75	6,085.32	21.07	21.57	-64.66	-158.08	1,733.41	1,636.58	1,606.61	29.98	54.596		
6,100.00	6,092.16	6,199.33	6,184.35	21.43	21.95	-64.57	-166.85	1,727.79	1,627.72	1,597.23	30.49	53.379		
6,200.00	6,191.92	6,298.90	6,283.38	21.80	22.32	-64.49	-175.61	1,722.17	1,618.86	1,587.85	31.01	52.201		
6,300.00	6,291.67	6,398.48	6,382.41	22.17	22.70	-64.41	-184.37	1,716.55	1,610.00	1,578.47	31.53	51.061		
6,400.00	6,391.43	6,498.06	6,481.45	22.53	23.08	-64.32	-193.14	1,710.93	1,601.15	1,569.10	32.05	49.957		
6,500.00	6,491.19	6,597.64	6,580.48	22.90	23.46	-64.23	-201.90	1,705.31	1,592.29	1,559.72	32.57	48.887		
6,600.00	6,590.94	6,697.22	6,679.51	23.27	23.84	-64.15	-210.66	1,699.69	1,583.45	1,550.36	33.09	47.850		
6,700.00	6,690.70	6,796.80	6,778.55	23.64	24.21	-64.06	-219.43	1,694.07	1,574.60	1,540.99	33.61	46.845		
6,800.00	6,790.46	6,896.37	6,877.58	24.00	24.59	-63.97	-228.19	1,688.45	1,565.76	1,531.63	34.14	45.869		
6,900.00	6,890.21	6,995.95	6,976.61	24.37	24.98	-63.88	-236.96	1,682.83	1,556.93	1,522.27	34.66	44.923		
7,000.00	6,989.97	7,095.53	7,075.64	24.74	25.36	-63.78	-245.72	1,677.21	1,548.10	1,512.92	35.18	44.004		
7,100.00	7,089.73	7,195.11	7,174.68	25.11	25.74	-63.69	-254.48	1,671.59	1,539.27	1,503.57	35.70	43.111		
7,200.00	7,189.48	7,294.69	7,273.71	25.48	26.12	-63.60	-263.25	1,665.97	1,530.45	1,494.22	36.23	42.244		
7,300.00	7,289.24	7,384.02	7,362.58	25.85	26.46	-63.52	-270.87	1,661.08	1,521.82	1,485.09	36.73	41.428		
7,400.00	7,389.00	7,465.98	7,444.27	26.22	26.77	-63.50	-276.49	1,657.48	1,514.26	1,477.04	37.22	40.684		
7,504.97	7,493.71	7,552.15	7,530.29	26.61	27.08	-63.54	-280.82	1,654.70	1,507.57	1,469.85	37.72	39.965		
7,600.00	7,588.58	7,630.26	7,608.33	26.95	27.36	-63.54	-283.33	1,653.09	1,503.16	1,464.99	38.17	39.382		
7,700.00	7,688.53	7,712.52	7,690.58	27.31	27.65	-63.55	-284.51	1,652.33	1,500.80	1,462.18	38.63	38.855		
7,771.47	7,760.00	7,778.74	7,756.80	27.56	27.87	-63.55	-284.58	1,652.29	1,500.46	1,461.50	38.96	38.514		
7,800.00	7,788.53	7,807.27	7,785.33	27.66	27.97	-63.55	-284.58	1,652.29	1,500.46	1,461.36	39.09	38.381		
7,900.00	7,888.53	7,907.27	7,885.33	27.99	28.30	-63.55	-284.58	1,652.29	1,500.46	1,460.88	39.57	37.919		
8,000.00	7,988.53	8,007.27	7,985.33	28.33	28.64	-63.55	-284.58	1,652.29	1,500.46	1,460.41	40.05	37.467		
8,100.00	8,088.53	8,107.27	8,085.33	28.66	28.97	-63.55	-284.58	1,652.29	1,500.46	1,459.93	40.53	37.025		
8,200.00	8,188.53	8,207.27	8,185.33	29.00	29.31	-63.55	-284.58	1,652.29	1,500.46	1,459.45	41.00	36.593		
8,300.00	8,288.53	8,307.27	8,285.33	29.34	29.65	-63.55	-284.58	1,652.29	1,500.46	1,458.97	41.48	36.171		
8,400.00	8,388.53	8,407.27	8,385.33	29.68	29.98	-63.55	-284.58	1,652.29	1,500.46	1,458.49	41.96	35.757		
8,500.00	8,488.53	8,507.27	8,485.33	30.02	30.32	-63.55	-284.58	1,652.29	1,500.46	1,458.01	42.44	35.352		
8,600.00	8,588.53	8,607.27	8,585.33	30.36	30.66	-63.55	-284.58	1,652.29	1,500.46	1,457.53	42.92	34.956		
8,700.00	8,688.53	8,707.27	8,685.33	30.70	31.00	-63.55	-284.58	1,652.29	1,500.46	1,457.05	43.41	34.568		
8,800.00	8,788.53	8,807.27	8,785.33	31.04	31.34	-63.55	-284.58	1,652.29	1,500.46	1,456.57	43.89	34.189		
8,900.00	8,888.53	8,907.27	8,885.33	31.38	31.68	-63.55	-284.58	1,652.29	1,500.46	1,456.08	44.37	33.817		
9,000.00	8,988.53	9,007.27	8,985.33	31.72	32.02	-63.55	-284.58	1,652.29	1,500.46	1,455.60	44.85	33.452		
9,100.00	9,088.53	9,107.27	9,085.33	32.06	32.36	-63.55	-284.58	1,652.29	1,500.46	1,455.12	45.34	33.095		
9,200.00	9,188.53	9,207.27	9,185.33	32.40	32.70	-63.55	-284.58	1,652.29	1,500.46	1,454.63	45.82	32.746		
9,300.00	9,288.53	9,307.27	9,285.33	32.75	33.04	-63.55	-284.58	1,652.29	1,500.46	1,454.15	46.31	32.403		
9,400.00	9,388.53	9,407.27	9,385.33	33.09	33.38	-63.55	-284.58	1,652.29	1,500.46	1,453.66	46.79	32.067		
9,500.00	9,488.53	9,507.27	9,485.33	33.43	33.72	-63.55	-284.58	1,652.29	1,500.46	1,453.18	47.28	31.737		
9,600.00	9,588.53	9,607.27	9,585.33	33.77	34.06	-63.55	-284.58	1,652.29	1,500.46	1,452.69	47.76	31.414		
9,700.00	9,688.53	9,707.27	9,685.33	34.12	34.41	-63.55	-284.58	1,652.29	1,500.46	1,452.21	48.25	31.098		
9,800.00	9,788.53	9,807.27	9,785.33	34.46	34.75	-63.55	-284.58	1,652.29	1,500.46	1,451.72	48.74	30.787		
9,900.00	9,888.53	9,907.27	9,885.33	34.81	35.09	-63.55	-284.58	1,652.29	1,500.46	1,451.23	49.22	30.482		
10,000.00	9,988.53	10,007.27	9,985.33	35.15	35.44	-63.55	-284.58	1,652.29	1,500.46	1,450.74	49.71	30.183		
10,100.00	10,088.53	10,107.27	10,085.33	35.50	35.78	-63.55	-284.58	1,652.29	1,500.46	1,450.25	50.20	29.889		
10,200.00	10,188.53	10,207.27	10,185.33	35.84	36.13	-63.55	-284.58	1,652.29	1,500.46	1,449.77	50.69	29.601		
10,300.00	10,288.53	10,307.27	10,285.33	36.19	36.47	-63.55	-284.58	1,652.29	1,500.46	1,449.28	51.18	29.319		
10,400.00	10,388.53	10,407.27	10,385.33	36.53	36.81	-63.55	-284.58	1,652.29	1,500.46	1,448.79	51.67	29.041		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kaston Fed Com - Bus Driver Fed Com 602H - OH - Plan #5		Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD															Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
10,500.00	10,488.53	10,507.27	10,485.33	36.88	37.16	89.47	-284.58	1,652.29	1,500.46	1,448.30	52.16	28.768				
10,600.00	10,588.53	10,607.27	10,585.33	37.22	37.50	89.47	-284.58	1,652.29	1,500.46	1,447.81	52.65	28.501				
10,700.00	10,688.53	10,707.27	10,685.33	37.57	37.85	89.47	-284.58	1,652.29	1,500.46	1,447.32	53.14	28.238				
10,800.00	10,788.53	10,807.27	10,785.33	37.92	38.20	89.47	-284.58	1,652.29	1,500.46	1,446.83	53.63	27.979				
10,900.00	10,888.53	10,907.27	10,885.33	38.26	38.54	89.47	-284.58	1,652.29	1,500.46	1,446.34	54.12	27.726				
11,000.00	10,988.53	11,007.27	10,985.33	38.61	38.89	89.47	-284.58	1,652.29	1,500.46	1,445.85	54.61	27.476				
11,100.00	11,088.53	11,107.27	11,085.33	38.96	39.23	89.47	-284.58	1,652.29	1,500.46	1,445.35	55.10	27.231				
11,200.00	11,188.53	11,207.27	11,185.33	39.30	39.58	89.47	-284.58	1,652.29	1,500.46	1,444.86	55.59	26.990				
11,300.00	11,288.53	11,307.27	11,285.33	39.65	39.93	89.47	-284.58	1,652.29	1,500.46	1,444.37	56.08	26.754				
11,353.82	11,342.34	11,361.10	11,339.14	39.84	40.11	89.50	-285.37	1,652.30	1,500.45	1,444.11	56.35	26.628	CC			
11,400.00	11,388.53	11,406.92	11,384.76	40.00	40.28	89.66	-289.61	1,652.33	1,500.46	1,443.88	56.58	26.519				
11,500.00	11,488.53	11,502.22	11,477.74	40.35	40.64	90.44	-309.99	1,652.51	1,500.68	1,443.59	57.08	26.289				
11,600.00	11,588.53	11,588.72	11,558.17	40.70	40.98	91.64	-341.60	1,652.79	1,501.75	1,444.18	57.58	26.083				
11,694.47	11,683.00	11,660.40	11,620.60	41.02	41.28	92.98	-376.72	1,653.10	1,504.40	1,446.39	58.01	25.935				
11,700.00	11,688.53	11,664.29	11,623.86	41.04	41.30	-86.42	-378.84	1,653.12	1,504.62	1,446.59	58.03	25.928				
11,750.00	11,738.44	11,700.00	11,653.06	41.22	41.45	-85.48	-399.38	1,653.30	1,506.82	1,448.58	58.24	25.871				
11,800.00	11,787.93	11,733.18	11,679.00	41.40	41.60	-84.59	-420.06	1,653.48	1,509.36	1,450.92	58.45	25.825				
11,850.00	11,836.62	11,766.69	11,703.94	41.59	41.75	-83.70	-442.44	1,653.68	1,512.17	1,453.53	58.64	25.786				
11,900.00	11,884.15	11,800.00	11,727.39	41.78	41.90	-82.82	-466.09	1,653.89	1,515.18	1,456.34	58.83	25.754				
11,950.00	11,930.14	11,832.24	11,748.75	41.98	42.05	-81.99	-490.24	1,654.10	1,518.31	1,459.30	59.01	25.728				
12,000.00	11,974.25	11,864.42	11,768.67	42.18	42.21	-81.19	-515.50	1,654.32	1,521.52	1,462.33	59.19	25.706				
12,050.00	12,016.15	11,900.00	11,789.01	42.39	42.38	-80.38	-544.68	1,654.58	1,524.73	1,465.34	59.38	25.676				
12,100.00	12,055.51	11,927.83	11,803.63	42.60	42.52	-79.72	-568.36	1,654.78	1,527.86	1,468.33	59.53	25.664				
12,150.00	12,092.03	11,959.15	11,818.69	42.82	42.68	-79.06	-595.81	1,655.03	1,530.89	1,471.18	59.70	25.641				
12,200.00	12,125.44	11,990.26	11,832.14	43.04	42.84	-78.46	-623.85	1,655.27	1,533.74	1,473.86	59.88	25.614				
12,250.00	12,155.49	12,021.18	11,843.99	43.27	43.00	-77.92	-652.42	1,655.52	1,536.37	1,476.31	60.06	25.581				
12,300.00	12,181.94	12,050.00	11,853.62	43.50	43.16	-77.46	-679.57	1,655.76	1,538.74	1,478.50	60.24	25.545				
12,350.00	12,204.59	12,082.61	11,862.86	43.75	43.34	-77.04	-710.84	1,656.04	1,540.80	1,480.35	60.45	25.489				
12,400.00	12,223.27	12,113.16	11,869.89	43.99	43.50	-76.71	-740.57	1,656.30	1,542.53	1,481.87	60.66	25.428				
12,450.00	12,237.84	12,150.00	11,876.25	44.24	43.71	-76.42	-776.85	1,656.62	1,543.91	1,482.99	60.92	25.342				
12,500.00	12,248.19	12,174.05	11,879.14	44.50	43.84	-76.26	-800.71	1,656.83	1,544.87	1,483.74	61.14	25.269				
12,550.00	12,254.23	12,204.42	11,881.34	44.76	44.01	-76.15	-831.00	1,657.09	1,545.45	1,484.06	61.40	25.171				
12,588.27	12,255.92	12,231.38	11,882.04	44.96	44.16	-76.12	-857.95	1,657.33	1,545.61	1,483.99	61.63	25.080				
12,600.00	12,256.05	12,243.11	11,882.22	45.02	44.23	-76.12	-869.68	1,657.43	1,545.60	1,483.88	61.71	25.044				
12,700.00	12,257.13	12,343.11	11,883.80	45.57	44.84	-76.14	-969.66	1,658.31	1,545.49	1,482.98	62.51	24.725				
12,800.00	12,258.22	12,443.11	11,885.38	46.18	45.49	-76.16	-1,069.64	1,659.19	1,545.37	1,482.01	63.37	24.387				
12,900.00	12,259.30	12,543.10	11,886.95	46.83	46.19	-76.18	-1,169.63	1,660.07	1,545.26	1,480.96	64.30	24.031				
13,000.00	12,260.38	12,643.10	11,888.53	47.54	46.94	-76.20	-1,269.61	1,660.95	1,545.15	1,479.85	65.30	23.662				
13,100.00	12,261.47	12,743.10	11,890.11	48.29	47.74	-76.21	-1,369.59	1,661.83	1,545.04	1,478.68	66.36	23.282				
13,200.00	12,262.55	12,843.10	11,891.68	49.08	48.58	-76.23	-1,469.57	1,662.70	1,544.93	1,477.44	67.49	22.892				
13,300.00	12,263.63	12,943.10	11,893.26	49.92	49.46	-76.25	-1,569.56	1,663.58	1,544.82	1,476.15	68.67	22.497				
13,400.00	12,264.71	13,043.10	11,894.84	50.80	50.38	-76.27	-1,669.54	1,664.46	1,544.70	1,474.80	69.90	22.098				
13,500.00	12,265.80	13,143.10	11,896.41	51.71	51.33	-76.28	-1,769.52	1,665.34	1,544.59	1,473.40	71.19	21.696				
13,600.00	12,266.88	13,243.10	11,897.99	52.66	52.32	-76.30	-1,869.50	1,666.22	1,544.48	1,471.95	72.53	21.294				
13,700.00	12,267.96	13,343.09	11,899.57	53.64	53.34	-76.32	-1,969.49	1,667.10	1,544.37	1,470.46	73.91	20.894				
13,800.00	12,269.05	13,443.09	11,901.15	54.66	54.39	-76.34	-2,069.47	1,667.98	1,544.26	1,468.92	75.34	20.497				
13,900.00	12,270.13	13,543.09	11,902.72	55.71	55.48	-76.36	-2,169.45	1,668.86	1,544.15	1,467.34	76.81	20.103				
14,000.00	12,271.21	13,643.09	11,904.30	56.78	56.59	-76.37	-2,269.43	1,669.73	1,544.04	1,465.72	78.32	19.715				
14,100.00	12,272.30	13,743.09	11,905.88	57.89	57.72	-76.39	-2,369.42	1,670.61	1,543.93	1,464.07	79.86	19.332				
14,200.00	12,273.38	13,843.09	11,907.45	59.01	58.88	-76.41	-2,469.40	1,671.49	1,543.82	1,462.38	81.44	18.956				
14,300.00	12,274.46	13,943.09	11,909.03	60.17	60.06	-76.43	-2,569.38	1,672.37	1,543.71	1,460.65	83.06	18.586				
14,400.00	12,275.54	14,043.09	11,910.61	61.34	61.27	-76.45	-2,669.36	1,673.25	1,543.60	1,458.90	84.70	18.224				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,500.00	12,276.63	14,143.08	11,912.18	62.54	62.49	-76.46	-2,769.35	1,674.13	1,543.49	1,457.11	86.38	17.869		
14,600.00	12,277.71	14,243.08	11,913.76	63.76	63.74	-76.48	-2,869.33	1,675.01	1,543.38	1,455.30	88.08	17.523		
14,700.00	12,278.79	14,343.08	11,915.34	64.99	65.00	-76.50	-2,969.31	1,675.89	1,543.27	1,453.47	89.81	17.184		
14,800.00	12,279.88	14,443.08	11,916.92	66.25	66.28	-76.52	-3,069.29	1,676.76	1,543.16	1,451.60	91.56	16.854		
14,900.00	12,280.96	14,543.08	11,918.49	67.52	67.57	-76.53	-3,169.28	1,677.64	1,543.05	1,449.72	93.33	16.532		
15,000.00	12,282.04	14,643.08	11,920.07	68.81	68.89	-76.55	-3,269.26	1,678.52	1,542.95	1,447.81	95.13	16.219		
15,100.00	12,283.12	14,743.08	11,921.65	70.11	70.21	-76.57	-3,369.24	1,679.40	1,542.84	1,445.89	96.95	15.914		
15,200.00	12,284.21	14,843.08	11,923.22	71.43	71.55	-76.59	-3,469.22	1,680.28	1,542.73	1,443.94	98.79	15.617		
15,300.00	12,285.29	14,943.08	11,924.80	72.76	72.90	-76.61	-3,569.21	1,681.16	1,542.62	1,441.98	100.64	15.328		
15,400.00	12,286.37	15,043.07	11,926.38	74.11	74.26	-76.62	-3,669.19	1,682.04	1,542.51	1,439.99	102.52	15.046		
15,500.00	12,287.46	15,143.07	11,927.95	75.46	75.64	-76.64	-3,769.17	1,682.92	1,542.40	1,438.00	104.41	14.773		
15,600.00	12,288.54	15,243.07	11,929.53	76.83	77.03	-76.66	-3,869.15	1,683.79	1,542.30	1,435.98	106.31	14.507		
15,700.00	12,289.62	15,343.07	11,931.11	78.21	78.42	-76.68	-3,969.14	1,684.67	1,542.19	1,433.95	108.24	14.248		
15,800.00	12,290.71	15,443.07	11,932.69	79.60	79.83	-76.70	-4,069.12	1,685.55	1,542.08	1,431.91	110.17	13.997		
15,900.00	12,291.79	15,543.07	11,934.26	81.00	81.24	-76.71	-4,169.10	1,686.43	1,541.97	1,429.85	112.12	13.753		
16,000.00	12,292.87	15,643.07	11,935.84	82.41	82.67	-76.73	-4,269.08	1,687.31	1,541.87	1,427.78	114.08	13.515		
16,100.00	12,293.95	15,743.07	11,937.42	83.83	84.10	-76.75	-4,369.07	1,688.19	1,541.76	1,425.70	116.06	13.284		
16,200.00	12,295.04	15,843.06	11,938.99	85.25	85.54	-76.77	-4,469.05	1,689.07	1,541.65	1,423.61	118.04	13.060		
16,300.00	12,296.12	15,943.06	11,940.57	86.69	86.99	-76.79	-4,569.03	1,689.95	1,541.54	1,421.50	120.04	12.842		
16,400.00	12,297.20	16,043.06	11,942.15	88.13	88.44	-76.80	-4,669.01	1,690.82	1,541.44	1,419.39	122.05	12.630		
16,500.00	12,298.29	16,143.06	11,943.72	89.58	89.90	-76.82	-4,769.00	1,691.70	1,541.33	1,417.27	124.06	12.424		
16,600.00	12,299.37	16,243.06	11,945.30	91.03	91.37	-76.84	-4,868.98	1,692.58	1,541.23	1,415.14	126.09	12.223		
16,700.00	12,300.45	16,343.06	11,946.88	92.50	92.85	-76.86	-4,968.96	1,693.46	1,541.12	1,412.99	128.12	12.028		
16,800.00	12,301.53	16,443.06	11,948.46	93.97	94.33	-76.88	-5,068.94	1,694.34	1,541.01	1,410.84	130.17	11.839		
16,900.00	12,302.62	16,543.06	11,950.03	95.44	95.81	-76.89	-5,168.93	1,695.22	1,540.91	1,408.69	132.22	11.654		
17,000.00	12,303.70	16,643.05	11,951.61	96.92	97.30	-76.91	-5,268.91	1,696.10	1,540.80	1,406.52	134.28	11.475		
17,100.00	12,304.78	16,743.05	11,953.19	98.41	98.80	-76.93	-5,368.89	1,696.97	1,540.70	1,404.35	136.35	11.300		
17,200.00	12,305.87	16,843.05	11,954.76	99.90	100.30	-76.95	-5,468.87	1,697.85	1,540.59	1,402.17	138.42	11.130		
17,300.00	12,306.95	16,943.05	11,956.34	101.39	101.81	-76.97	-5,568.86	1,698.73	1,540.48	1,399.98	140.50	10.964		
17,400.00	12,308.03	17,043.05	11,957.92	102.90	103.32	-76.98	-5,668.84	1,699.61	1,540.38	1,397.79	142.59	10.803		
17,500.00	12,309.12	17,143.05	11,959.49	104.40	104.83	-77.00	-5,768.82	1,700.49	1,540.27	1,395.59	144.69	10.646		
17,600.00	12,310.20	17,243.05	11,961.07	105.91	106.35	-77.02	-5,868.80	1,701.37	1,540.17	1,393.38	146.79	10.493		
17,700.00	12,311.28	17,343.05	11,962.65	107.43	107.87	-77.04	-5,968.79	1,702.25	1,540.06	1,391.17	148.89	10.344		
17,800.00	12,312.36	17,443.04	11,964.23	108.94	109.40	-77.05	-6,068.77	1,703.13	1,539.96	1,388.96	151.00	10.198		
17,900.00	12,313.45	17,543.04	11,965.80	110.47	110.93	-77.07	-6,168.75	1,704.00	1,539.86	1,386.74	153.12	10.057		
18,000.00	12,314.53	17,643.04	11,967.38	111.99	112.46	-77.09	-6,268.73	1,704.88	1,539.75	1,384.51	155.24	9.918		
18,100.00	12,315.61	17,743.04	11,968.96	113.52	114.00	-77.11	-6,368.72	1,705.76	1,539.65	1,382.28	157.37	9.784		
18,200.00	12,316.70	17,843.04	11,970.53	115.05	115.54	-77.13	-6,468.70	1,706.64	1,539.54	1,380.04	159.50	9.652		
18,300.00	12,317.78	17,943.04	11,972.11	116.59	117.08	-77.14	-6,568.68	1,707.52	1,539.44	1,377.80	161.64	9.524		
18,400.00	12,318.86	18,043.04	11,973.69	118.13	118.63	-77.16	-6,668.66	1,708.40	1,539.34	1,375.56	163.78	9.399		
18,500.00	12,319.94	18,143.04	11,975.26	119.67	120.17	-77.18	-6,768.65	1,709.28	1,539.23	1,373.31	165.92	9.277		
18,600.00	12,321.03	18,243.04	11,976.84	121.22	121.73	-77.20	-6,868.63	1,710.16	1,539.13	1,371.06	168.07	9.158		
18,700.00	12,322.11	18,343.03	11,978.42	122.76	123.28	-77.22	-6,968.61	1,711.03	1,539.03	1,368.80	170.22	9.041		
18,800.00	12,323.19	18,443.03	11,980.00	124.32	124.84	-77.23	-7,068.59	1,711.91	1,538.92	1,366.54	172.38	8.928		
18,900.00	12,324.28	18,543.03	11,981.57	125.87	126.39	-77.25	-7,168.58	1,712.79	1,538.82	1,364.28	174.54	8.817		
19,000.00	12,325.36	18,643.03	11,983.15	127.42	127.96	-77.27	-7,268.56	1,713.67	1,538.72	1,362.02	176.70	8.708		
19,100.00	12,326.44	18,743.03	11,984.73	128.98	129.52	-77.29	-7,368.54	1,714.55	1,538.61	1,359.75	178.87	8.602		
19,200.00	12,327.53	18,843.03	11,986.30	130.54	131.08	-77.31	-7,468.52	1,715.43	1,538.51	1,357.47	181.04	8.498		
19,300.00	12,328.61	18,943.03	11,987.88	132.11	132.65	-77.32	-7,568.51	1,716.31	1,538.41	1,355.20	183.21	8.397		
19,400.00	12,329.69	19,043.03	11,989.46	133.67	134.22	-77.34	-7,668.49	1,717.19	1,538.31	1,352.92	185.39	8.298		
19,500.00	12,330.77	19,143.02	11,991.03	135.24	135.79	-77.36	-7,768.47	1,718.06	1,538.20	1,350.64	187.57	8.201		
19,600.00	12,331.86	19,243.02	11,992.61	136.81	137.37	-77.38	-7,868.45	1,718.94	1,538.10	1,348.35	189.75	8.106		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	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		
19,700.00	12,332.94	19,343.02	11,994.19	138.38	138.94	-77.40	-7,968.44	1,719.82	1,538.00	1,346.06	191.94	8.013		
19,800.00	12,334.02	19,443.02	11,995.77	139.95	140.52	-77.41	-8,068.42	1,720.70	1,537.90	1,343.77	194.13	7.922		
19,900.00	12,335.11	19,543.02	11,997.34	141.52	142.10	-77.43	-8,168.40	1,721.58	1,537.80	1,341.48	196.31	7.833		
20,000.00	12,336.19	19,643.02	11,998.92	143.10	143.68	-77.45	-8,268.38	1,722.46	1,537.70	1,339.19	198.51	7.746		
20,100.00	12,337.27	19,743.02	12,000.50	144.68	145.26	-77.47	-8,368.37	1,723.34	1,537.60	1,336.89	200.70	7.661		
20,200.00	12,338.35	19,843.02	12,002.07	146.26	146.84	-77.49	-8,468.35	1,724.22	1,537.50	1,334.59	202.90	7.578		
20,300.00	12,339.44	19,943.01	12,003.65	147.84	148.43	-77.50	-8,568.33	1,725.09	1,537.39	1,332.29	205.10	7.496		
20,400.00	12,340.52	20,043.01	12,005.23	149.42	150.01	-77.52	-8,668.31	1,725.97	1,537.29	1,329.99	207.30	7.416		
20,500.00	12,341.60	20,143.01	12,006.81	151.01	151.60	-77.54	-8,768.30	1,726.85	1,537.19	1,327.69	209.51	7.337		
20,600.00	12,342.69	20,243.01	12,008.38	152.59	153.19	-77.56	-8,868.28	1,727.73	1,537.09	1,325.38	211.71	7.260		
20,700.00	12,343.77	20,343.01	12,009.96	154.18	154.78	-77.58	-8,968.26	1,728.61	1,536.99	1,323.07	213.92	7.185		
20,800.00	12,344.85	20,443.01	12,011.54	155.77	156.37	-77.60	-9,068.24	1,729.49	1,536.89	1,320.76	216.13	7.111		
20,900.00	12,345.94	20,543.01	12,013.11	157.36	157.96	-77.61	-9,168.23	1,730.37	1,536.79	1,318.45	218.34	7.038		
21,000.00	12,347.02	20,643.01	12,014.69	158.95	159.56	-77.63	-9,268.21	1,731.25	1,536.69	1,316.14	220.56	6.967		
21,100.00	12,348.10	20,743.00	12,016.27	160.54	161.15	-77.65	-9,368.19	1,732.12	1,536.59	1,313.82	222.77	6.898		
21,200.00	12,349.18	20,843.00	12,017.84	162.13	162.75	-77.67	-9,468.17	1,733.00	1,536.49	1,311.50	224.99	6.829		
21,300.00	12,350.27	20,943.00	12,019.42	163.73	164.35	-77.69	-9,568.16	1,733.88	1,536.39	1,309.18	227.21	6.762		
21,400.00	12,351.35	21,043.00	12,021.00	165.32	165.95	-77.70	-9,668.14	1,734.76	1,536.30	1,306.86	229.43	6.696		
21,500.00	12,352.43	21,143.00	12,022.58	166.92	167.55	-77.72	-9,768.12	1,735.64	1,536.20	1,304.54	231.65	6.631		
21,600.00	12,353.52	21,243.00	12,024.15	168.52	169.15	-77.74	-9,868.10	1,736.52	1,536.10	1,302.22	233.88	6.568		
21,700.00	12,354.60	21,343.00	12,025.73	170.12	170.75	-77.76	-9,968.09	1,737.40	1,536.00	1,299.90	236.10	6.506		
21,800.00	12,355.68	21,443.00	12,027.31	171.72	172.35	-77.78	-10,068.07	1,738.27	1,535.90	1,297.57	238.33	6.444		
21,900.00	12,356.76	21,542.99	12,028.88	173.32	173.95	-77.79	-10,168.05	1,739.15	1,535.80	1,295.24	240.56	6.384		
22,000.00	12,357.85	21,642.99	12,030.46	174.92	175.56	-77.81	-10,268.03	1,740.03	1,535.70	1,292.92	242.79	6.325		
22,100.00	12,358.93	21,742.99	12,032.04	176.52	177.16	-77.83	-10,368.02	1,740.91	1,535.61	1,290.59	245.02	6.267		
22,200.00	12,360.01	21,842.99	12,033.61	178.13	178.77	-77.85	-10,468.00	1,741.79	1,535.51	1,288.26	247.25	6.210		
22,300.00	12,361.10	21,942.99	12,035.19	179.73	180.38	-77.87	-10,567.98	1,742.67	1,535.41	1,285.92	249.49	6.154		
22,389.94	12,362.07	22,032.92	12,036.61	181.18	181.82	-77.88	-10,657.90	1,743.46	1,535.32	1,283.82	251.50	6.105		
22,390.61	12,362.08	22,033.60	12,036.62	181.19	181.83	-77.88	-10,658.57	1,743.46	1,535.32	1,283.81	251.51	6.104 ES, SF		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kaston Fed Com - Bus Driver Fed Com 702H - OH - OH		Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD															Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	0.00	0.00	0.00	0.00	87.55	79.20	1,850.80	1,852.50							
100.00	100.00	128.87	128.84	0.14	0.24	87.51	80.55	1,849.32	1,851.35	1,851.07	0.28	6,652.304				
200.00	200.00	213.00	212.96	0.50	0.53	87.48	81.37	1,848.61	1,850.47	1,849.74	0.73	2,535.171				
300.00	300.00	332.80	332.74	0.86	0.96	87.47	81.71	1,846.84	1,848.99	1,847.71	1.29	1,437.657				
400.00	400.00	444.40	444.31	1.22	1.36	87.47	81.59	1,844.24	1,846.65	1,844.83	1.82	1,013.773				
500.00	500.00	576.68	576.50	1.58	1.84	87.48	81.11	1,839.43	1,842.94	1,840.52	2.41	763.434				
600.00	600.00	677.00	676.73	1.93	2.20	87.48	80.73	1,835.18	1,838.69	1,835.77	2.92	629.647				
700.00	700.00	750.32	749.99	2.29	2.47	87.49	80.48	1,832.38	1,834.91	1,831.56	3.36	546.780				
800.00	800.00	849.07	848.70	2.65	2.82	87.50	79.92	1,829.71	1,832.19	1,828.33	3.86	474.823				
900.00	900.00	938.80	938.41	3.01	3.14	87.53	78.85	1,827.44	1,829.61	1,825.27	4.34	421.780				
1,000.00	1,000.00	1,035.18	1,034.76	3.37	3.49	87.56	77.69	1,825.45	1,827.49	1,822.66	4.83	378.049				
1,100.00	1,100.00	1,147.34	1,146.87	3.73	3.89	87.62	75.76	1,822.83	1,825.09	1,819.72	5.37	339.833				
1,200.00	1,200.00	1,235.40	1,234.90	4.08	4.21	87.65	74.69	1,820.90	1,822.83	1,816.98	5.85	311.781				
1,300.00	1,300.00	1,326.75	1,326.24	4.44	4.50	87.67	73.97	1,819.35	1,821.09	1,814.79	6.31	288.768				
1,400.00	1,400.00	1,416.19	1,415.66	4.80	4.67	87.68	73.66	1,818.18	1,819.77	1,813.09	6.68	272.561				
1,500.00	1,500.00	1,511.55	1,511.02	5.16	4.71	87.68	73.67	1,817.32	1,818.87	1,811.91	6.97	261.128				
1,600.00	1,600.00	1,608.39	1,607.86	5.52	4.76	87.68	73.55	1,816.66	1,818.18	1,810.91	7.27	250.159				
1,700.00	1,700.00	1,703.15	1,702.62	5.88	4.83	87.68	73.45	1,816.22	1,817.71	1,810.12	7.59	239.476				
1,800.00	1,800.00	1,802.00	1,801.47	6.24	4.93	87.68	73.44	1,815.96	1,817.45	1,809.51	7.93	229.100				
1,900.00	1,900.00	1,902.11	1,901.58	6.59	5.06	87.68	73.54	1,815.71	1,817.20	1,808.91	8.29	219.112				
2,000.00	2,000.00	2,000.03	1,999.50	6.95	5.20	87.68	73.60	1,815.50	1,817.00	1,808.33	8.67	209.663				
2,100.00	2,100.00	2,098.55	2,098.02	7.31	5.36	87.67	73.87	1,815.39	1,816.89	1,807.84	9.05	200.754				
2,187.28	2,187.28	2,184.61	2,184.08	7.62	5.51	87.66	74.30	1,815.34	1,816.86	1,807.47	9.39	193.433				
2,200.00	2,200.00	2,197.06	2,196.52	7.67	5.54	87.65	74.37	1,815.34	1,816.86	1,807.42	9.44	192.391				
2,300.00	2,300.00	2,294.62	2,294.08	8.03	5.72	87.64	74.90	1,815.39	1,816.94	1,807.09	9.84	184.558				
2,400.00	2,400.00	2,391.89	2,391.35	8.39	5.92	87.61	75.67	1,815.59	1,817.17	1,806.92	10.25	177.221				
2,500.00	2,500.00	2,490.35	2,489.80	8.74	6.14	87.59	76.54	1,815.88	1,817.50	1,806.83	10.67	170.313				
2,600.00	2,600.00	2,606.49	2,605.94	9.10	6.41	87.56	77.48	1,816.13	1,817.80	1,806.68	11.12	163.459				
2,700.00	2,700.00	2,740.31	2,739.73	9.46	6.74	87.59	76.18	1,813.64	1,815.75	1,804.15	11.60	156.507				
2,759.32	2,759.32	2,745.00	2,744.41	9.66	6.75	-65.45	76.12	1,813.53	1,814.98	1,803.20	11.78	154.137	CC, ES			
2,800.00	2,799.99	2,745.00	2,744.41	9.80	6.75	-65.44	76.12	1,813.53	1,815.34	1,803.46	11.88	152.746				
2,900.00	2,899.91	2,745.00	2,744.41	10.13	6.75	-65.39	76.12	1,813.53	1,819.34	1,807.22	12.12	150.076				
2,966.50	2,966.29	2,745.00	2,744.41	10.35	6.75	-65.32	76.12	1,813.53	1,824.44	1,812.17	12.27	148.724				
3,000.00	2,999.70	2,745.00	2,744.41	10.46	6.75	-65.32	76.12	1,813.53	1,827.79	1,815.46	12.34	148.169				
3,100.00	3,099.46	2,745.00	2,744.41	10.79	6.75	-65.32	76.12	1,813.53	1,841.40	1,828.88	12.52	147.027				
3,200.00	3,199.22	2,745.00	2,744.41	11.12	6.75	-65.32	76.12	1,813.53	1,860.30	1,847.61	12.69	146.625	SF			
3,300.00	3,298.97	2,745.00	2,744.41	11.46	6.75	-65.32	76.12	1,813.53	1,884.31	1,871.49	12.83	146.916				
3,400.00	3,398.73	2,745.00	2,744.41	11.80	6.75	-65.32	76.12	1,813.53	1,913.26	1,900.32	12.94	147.851				
3,500.00	3,498.49	2,745.00	2,744.41	12.14	6.75	-65.32	76.12	1,813.53	1,946.92	1,933.89	13.03	149.383				
3,600.00	3,598.24	2,745.00	2,744.41	12.48	6.75	-65.32	76.12	1,813.53	1,985.06	1,971.95	13.10	151.481				
3,700.00	3,698.00	2,745.00	2,744.41	12.83	6.75	-65.32	76.12	1,813.53	2,027.41	2,014.25	13.16	154.088				
3,800.00	3,797.76	2,745.00	2,744.41	13.17	6.75	-65.32	76.12	1,813.53	2,073.72	2,060.53	13.20	157.152				
3,900.00	3,897.51	2,745.00	2,744.41	13.52	6.75	-65.32	76.12	1,813.53	2,123.74	2,110.52	13.22	160.629				
4,000.00	3,997.27	2,745.00	2,744.41	13.87	6.75	-65.32	76.12	1,813.53	2,177.20	2,163.96	13.24	164.477				
4,100.00	4,097.03	2,745.00	2,744.41	14.22	6.75	-65.32	76.12	1,813.53	2,233.86	2,220.62	13.25	168.655				
4,200.00	4,196.78	2,745.00	2,744.41	14.58	6.75	-65.32	76.12	1,813.53	2,293.49	2,280.24	13.25	173.124				
4,300.00	4,296.54	2,745.00	2,744.41	14.93	6.75	-65.32	76.12	1,813.53	2,355.85	2,342.60	13.25	177.846				
4,400.00	4,396.30	2,745.00	2,744.41	15.28	6.75	-65.32	76.12	1,813.53	2,420.73	2,407.49	13.24	182.787				
4,500.00	4,496.05	2,745.00	2,744.41	15.64	6.75	-65.32	76.12	1,813.53	2,487.95	2,474.71	13.24	187.913				
4,600.00	4,595.81	2,745.00	2,744.41	16.00	6.75	-65.32	76.12	1,813.53	2,557.31	2,544.07	13.24	193.192				
4,700.00	4,695.57	2,745.00	2,744.41	16.36	6.75	-65.32	76.12	1,813.53	2,628.64	2,615.41	13.24	198.593				
4,800.00	4,795.32	2,745.00	2,744.41	16.71	6.75	-65.32	76.12	1,813.53	2,701.80	2,688.56	13.24	204.090				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.00	4,895.08	2,745.00	2,744.41	17.07	6.75	-65.32	76.12	1,813.53	2,776.62	2,763.38	13.24	209.655		
5,000.00	4,994.84	2,745.00	2,744.41	17.43	6.75	-65.32	76.12	1,813.53	2,852.99	2,839.74	13.25	215.263		
5,100.00	5,094.59	2,745.00	2,744.41	17.79	6.75	-65.32	76.12	1,813.53	2,930.79	2,917.52	13.27	220.893		
5,200.00	5,194.35	2,745.00	2,744.41	18.16	6.75	-65.32	76.12	1,813.53	3,009.89	2,996.60	13.29	226.522		
5,300.00	5,294.11	2,745.00	2,744.41	18.52	6.75	-65.32	76.12	1,813.53	3,090.21	3,076.90	13.31	232.131		
5,400.00	5,393.86	2,745.00	2,744.41	18.88	6.75	-65.32	76.12	1,813.53	3,171.64	3,158.30	13.34	237.701		
5,500.00	5,493.62	2,745.00	2,744.41	19.24	6.75	-65.32	76.12	1,813.53	3,254.11	3,240.74	13.38	243.217		
5,600.00	5,593.38	2,745.00	2,744.41	19.61	6.75	-65.32	76.12	1,813.53	3,337.54	3,324.12	13.42	248.664		
5,700.00	5,693.13	2,745.00	2,744.41	19.97	6.75	-65.32	76.12	1,813.53	3,421.86	3,408.39	13.47	254.026		
5,800.00	5,792.89	2,745.00	2,744.41	20.34	6.75	-65.32	76.12	1,813.53	3,507.00	3,493.48	13.53	259.293		
5,900.00	5,892.65	2,745.00	2,744.41	20.70	6.75	-65.32	76.12	1,813.53	3,592.91	3,579.33	13.59	264.454		
6,000.00	5,992.40	2,745.00	2,744.41	21.07	6.75	-65.32	76.12	1,813.53	3,679.53	3,665.88	13.65	269.498		
6,100.00	6,092.16	2,745.00	2,744.41	21.43	6.75	-65.32	76.12	1,813.53	3,766.81	3,753.09	13.73	274.417		
6,200.00	6,191.92	2,745.00	2,744.41	21.80	6.75	-65.32	76.12	1,813.53	3,854.71	3,840.91	13.81	279.203		
6,300.00	6,291.67	2,745.00	2,744.41	22.17	6.75	-65.32	76.12	1,813.53	3,943.19	3,929.30	13.89	283.851		
6,400.00	6,391.43	2,745.00	2,744.41	22.53	6.75	-65.32	76.12	1,813.53	4,032.21	4,018.22	13.98	288.355		
6,500.00	6,491.19	2,745.00	2,744.41	22.90	6.75	-65.32	76.12	1,813.53	4,121.73	4,107.65	14.08	292.710		
6,600.00	6,590.94	2,745.00	2,744.41	23.27	6.75	-65.32	76.12	1,813.53	4,211.72	4,197.53	14.19	296.913		
6,700.00	6,690.70	2,745.00	2,744.41	23.64	6.75	-65.32	76.12	1,813.53	4,302.15	4,287.86	14.29	300.962		
6,800.00	6,790.46	2,745.00	2,744.41	24.00	6.75	-65.32	76.12	1,813.53	4,393.00	4,378.59	14.41	304.854		
6,900.00	6,890.21	2,745.00	2,744.41	24.37	6.75	-65.32	76.12	1,813.53	4,484.24	4,469.71	14.53	308.589		
7,000.00	6,989.97	2,745.00	2,744.41	24.74	6.75	-65.32	76.12	1,813.53	4,575.84	4,561.18	14.66	312.165		
7,100.00	7,089.73	2,745.00	2,744.41	25.11	6.75	-65.32	76.12	1,813.53	4,667.79	4,653.00	14.79	315.583		
7,200.00	7,189.48	2,745.00	2,744.41	25.48	6.75	-65.32	76.12	1,813.53	4,760.06	4,745.13	14.93	318.844		
7,300.00	7,289.24	2,745.00	2,744.41	25.85	6.75	-65.32	76.12	1,813.53	4,852.64	4,837.57	15.07	321.947		
7,400.00	7,389.00	2,745.00	2,744.41	26.22	6.75	-65.32	76.12	1,813.53	4,945.51	4,930.29	15.22	324.896		
7,504.97	7,493.71	2,745.00	2,744.41	26.61	6.75	-65.32	76.12	1,813.53	5,043.29	5,027.91	15.38	327.836		
7,600.00	7,588.58	2,745.00	2,744.41	26.95	6.75	-68.80	76.12	1,813.53	5,132.22	5,116.68	15.53	330.371		
7,700.00	7,688.53	2,745.00	2,744.41	27.31	6.75	-72.75	76.12	1,813.53	5,226.34	5,210.64	15.70	332.911		
7,771.47	7,760.00	2,745.00	2,744.41	27.56	6.75	77.29	76.12	1,813.53	5,293.91	5,278.09	15.82	334.671		
7,800.00	7,788.53	2,745.00	2,744.41	27.66	6.75	77.29	76.12	1,813.53	5,320.92	5,305.06	15.87	335.363		
7,900.00	7,888.53	2,745.00	2,744.41	27.99	6.75	77.29	76.12	1,813.53	5,415.75	5,399.72	16.04	337.728		
8,000.00	7,988.53	2,745.00	2,744.41	28.33	6.75	77.29	76.12	1,813.53	5,510.77	5,494.56	16.21	339.943		
8,100.00	8,088.53	2,745.00	2,744.41	28.66	6.75	77.29	76.12	1,813.53	5,605.96	5,589.57	16.39	342.011		
8,200.00	8,188.53	2,745.00	2,744.41	29.00	6.75	77.29	76.12	1,813.53	5,701.31	5,684.73	16.58	343.937		
8,300.00	8,288.53	2,745.00	2,744.41	29.34	6.75	77.29	76.12	1,813.53	5,796.82	5,780.05	16.77	345.724		
8,400.00	8,388.53	2,745.00	2,744.41	29.68	6.75	77.29	76.12	1,813.53	5,892.48	5,875.52	16.96	347.377		
8,500.00	8,488.53	2,745.00	2,744.41	30.02	6.75	77.29	76.12	1,813.53	5,988.28	5,971.12	17.16	348.900		
8,600.00	8,588.53	2,745.00	2,744.41	30.36	6.75	77.29	76.12	1,813.53	6,084.22	6,066.85	17.37	350.298		
8,700.00	8,688.53	2,745.00	2,744.41	30.70	6.75	77.29	76.12	1,813.53	6,180.28	6,162.70	17.58	351.574		
8,800.00	8,788.53	2,745.00	2,744.41	31.04	6.75	77.29	76.12	1,813.53	6,276.47	6,258.67	17.79	352.733		
8,900.00	8,888.53	2,745.00	2,744.41	31.38	6.75	77.29	76.12	1,813.53	6,372.77	6,354.76	18.01	353.779		
9,000.00	8,988.53	2,745.00	2,744.41	31.72	6.75	77.29	76.12	1,813.53	6,469.19	6,450.95	18.24	354.716		
9,100.00	9,088.53	2,745.00	2,744.41	32.06	6.75	77.29	76.12	1,813.53	6,565.71	6,547.25	18.47	355.548		
9,200.00	9,188.53	2,745.00	2,744.41	32.40	6.75	77.29	76.12	1,813.53	6,662.34	6,643.64	18.70	356.280		
9,300.00	9,288.53	2,745.00	2,744.41	32.75	6.75	77.29	76.12	1,813.53	6,759.06	6,740.13	18.94	356.916		
9,400.00	9,388.53	2,745.00	2,744.41	33.09	6.75	77.29	76.12	1,813.53	6,855.88	6,836.70	19.18	357.458		
9,500.00	9,488.53	2,745.00	2,744.41	33.43	6.75	77.29	76.12	1,813.53	6,952.79	6,933.37	19.43	357.912		
9,600.00	9,588.53	2,745.00	2,744.41	33.77	6.75	77.29	76.12	1,813.53	7,049.79	7,030.11	19.68	358.281		
9,700.00	9,688.53	2,745.00	2,744.41	34.12	6.75	77.29	76.12	1,813.53	7,146.87	7,126.93	19.93	358.568		
9,800.00	9,788.53	2,745.00	2,744.41	34.46	6.75	77.29	76.12	1,813.53	7,244.02	7,223.83	20.19	358.777		
9,900.00	9,888.53	2,745.00	2,744.41	34.81	6.75	77.29	76.12	1,813.53	7,341.26	7,320.80	20.45	358.911		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kaston Fed Com - Bus Driver Fed Com 702H - OH - OH		Offset Site Error: 0.00 usft	
Survey Program: 16-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
10,000.00	9,988.53	2,745.00	2,744.41	35.15	6.75	77.29	76.12	1,813.53	7,438.56	7,417.84	20.72	358.975				
10,100.00	10,088.53	2,745.00	2,744.41	35.50	6.75	77.29	76.12	1,813.53	7,535.94	7,514.95	20.99	358.970				
10,200.00	10,188.53	2,745.00	2,744.41	35.84	6.75	77.29	76.12	1,813.53	7,633.39	7,612.12	21.27	358.899				
10,300.00	10,288.53	2,745.00	2,744.41	36.19	6.75	77.29	76.12	1,813.53	7,730.90	7,709.35	21.55	358.767				
10,400.00	10,388.53	2,745.00	2,744.41	36.53	6.75	77.29	76.12	1,813.53	7,828.47	7,806.64	21.83	358.576				
10,500.00	10,488.53	2,745.00	2,744.41	36.88	6.75	77.29	76.12	1,813.53	7,926.11	7,903.99	22.12	358.329				
10,600.00	10,588.53	2,745.00	2,744.41	37.22	6.75	77.29	76.12	1,813.53	8,023.80	8,001.39	22.41	358.028				
10,700.00	10,688.53	2,745.00	2,744.41	37.57	6.75	77.29	76.12	1,813.53	8,121.55	8,098.84	22.71	357.676				
10,800.00	10,788.53	2,745.00	2,744.41	37.92	6.75	77.29	76.12	1,813.53	8,219.35	8,196.34	23.01	357.275				
10,900.00	10,888.53	2,745.00	2,744.41	38.26	6.75	77.29	76.12	1,813.53	8,317.20	8,293.89	23.31	356.829				
11,000.00	10,988.53	2,745.00	2,744.41	38.61	6.75	77.29	76.12	1,813.53	8,415.11	8,391.49	23.62	356.338				
11,100.00	11,088.53	2,745.00	2,744.41	38.96	6.75	77.29	76.12	1,813.53	8,513.06	8,489.14	23.93	355.806				
11,200.00	11,188.53	2,745.00	2,744.41	39.30	6.75	77.29	76.12	1,813.53	8,611.06	8,586.82	24.24	355.235				
11,300.00	11,288.53	2,745.00	2,744.41	39.65	6.75	77.29	76.12	1,813.53	8,709.11	8,684.55	24.56	354.626				
11,400.00	11,388.53	2,745.00	2,744.41	40.00	6.75	77.29	76.12	1,813.53	8,807.20	8,782.32	24.88	353.982				
11,500.00	11,488.53	2,745.00	2,744.41	40.35	6.75	77.29	76.12	1,813.53	8,905.33	8,880.13	25.21	353.305				
11,600.00	11,588.53	2,745.00	2,744.41	40.70	6.75	77.29	76.12	1,813.53	9,003.51	8,977.97	25.53	352.595				
11,694.47	11,683.00	2,745.00	2,744.41	41.02	6.75	77.29	76.12	1,813.53	9,096.29	9,070.44	25.85	351.898				
11,700.00	11,688.53	2,745.00	2,744.41	41.04	6.75	-99.34	76.12	1,813.53	9,101.72	9,075.85	25.87	351.856				
11,750.00	11,738.44	2,745.00	2,744.41	41.22	6.75	-73.01	76.12	1,813.53	9,150.86	9,124.83	26.04	351.478				
11,800.00	11,787.93	2,745.00	2,744.41	41.40	6.75	-52.19	76.12	1,813.53	9,199.77	9,173.57	26.20	351.106				
11,850.00	11,836.62	2,745.00	2,744.41	41.59	6.75	-38.81	76.12	1,813.53	9,248.08	9,221.72	26.37	350.757				
11,900.00	11,884.15	2,745.00	2,744.41	41.78	6.75	-30.41	76.12	1,813.53	9,295.44	9,268.92	26.53	350.435				
11,950.00	11,930.14	2,745.00	2,744.41	41.98	6.75	-24.91	76.12	1,813.53	9,341.50	9,314.83	26.68	350.145				
12,000.00	11,974.25	2,745.00	2,744.41	42.18	6.75	-21.11	76.12	1,813.53	9,385.94	9,359.12	26.83	349.887				
12,050.00	12,016.15	2,745.00	2,744.41	42.39	6.75	-18.38	76.12	1,813.53	9,428.44	9,401.47	26.96	349.660				
12,100.00	12,055.51	2,745.00	2,744.41	42.60	6.75	-16.35	76.12	1,813.53	9,468.70	9,441.61	27.10	349.458				
12,150.00	12,092.03	2,745.00	2,744.41	42.82	6.75	-14.81	76.12	1,813.53	9,506.46	9,479.24	27.22	349.273				
12,200.00	12,125.44	2,745.00	2,744.41	43.04	6.75	-13.60	76.12	1,813.53	9,541.45	9,514.12	27.33	349.093				
12,250.00	12,155.49	2,745.00	2,744.41	43.27	6.75	-12.66	76.12	1,813.53	9,573.44	9,546.00	27.44	348.904				
12,300.00	12,181.94	2,745.00	2,744.41	43.50	6.75	-11.91	76.12	1,813.53	9,602.21	9,574.68	27.54	348.688				
12,350.00	12,204.59	2,745.00	2,744.41	43.75	6.75	-11.31	76.12	1,813.53	9,627.59	9,599.96	27.63	348.427				
12,400.00	12,223.27	2,745.00	2,744.41	43.99	6.75	-10.85	76.12	1,813.53	9,649.40	9,621.68	27.72	348.101				
12,450.00	12,237.84	2,745.00	2,744.41	44.24	6.75	-10.49	76.12	1,813.53	9,667.50	9,639.69	27.80	347.689				
12,500.00	12,248.19	2,745.00	2,744.41	44.50	6.75	-10.22	76.12	1,813.53	9,681.77	9,653.88	27.89	347.175				
12,550.00	12,254.23	2,745.00	2,744.41	44.76	6.75	-10.03	76.12	1,813.53	9,692.13	9,664.16	27.97	346.540				
12,588.27	12,255.92	2,745.00	2,744.41	44.96	6.75	-9.94	76.12	1,813.53	9,697.36	9,669.33	28.03	345.968				
12,600.00	12,256.05	2,745.00	2,744.41	45.02	6.75	-9.94	76.12	1,813.53	9,698.62	9,670.57	28.05	345.780				
12,700.00	12,257.13	2,745.00	2,744.41	45.57	6.75	-9.94	76.12	1,813.53	9,709.86	9,681.63	28.23	343.946				
12,800.00	12,258.22	2,745.00	2,744.41	46.18	6.75	-9.94	76.12	1,813.53	9,722.13	9,693.69	28.44	341.841				
12,900.00	12,259.30	2,745.00	2,744.41	46.83	6.75	-9.94	76.12	1,813.53	9,735.40	9,706.73	28.68	339.486				
13,000.00	12,260.38	2,745.00	2,744.41	47.54	6.75	-9.94	76.12	1,813.53	9,749.69	9,720.75	28.94	336.906				
13,100.00	12,261.47	2,745.00	2,744.41	48.29	6.75	-9.94	76.12	1,813.53	9,764.97	9,735.75	29.23	334.126				
13,200.00	12,262.55	2,745.00	2,744.41	49.08	6.75	-9.94	76.12	1,813.53	9,781.26	9,751.72	29.54	331.170				
13,300.00	12,263.63	2,745.00	2,744.41	49.92	6.75	-9.94	76.12	1,813.53	9,798.54	9,768.67	29.87	328.063				
13,400.00	12,264.71	2,745.00	2,744.41	50.80	6.75	-9.94	76.12	1,813.53	9,816.80	9,786.58	30.22	324.830				
13,500.00	12,265.80	2,745.00	2,744.41	51.71	6.75	-9.94	76.12	1,813.53	9,836.05	9,805.46	30.59	321.494				
13,600.00	12,266.88	2,745.00	2,744.41	52.66	6.75	-9.94	76.12	1,813.53	9,856.28	9,825.29	30.99	318.077				
13,700.00	12,267.96	2,745.00	2,744.41	53.64	6.75	-9.94	76.12	1,813.53	9,877.48	9,846.08	31.40	314.601				
13,800.00	12,269.05	2,745.00	2,744.41	54.66	6.75	-9.94	76.12	1,813.53	9,899.64	9,867.82	31.82	311.083				
13,900.00	12,270.13	2,745.00	2,744.41	55.71	6.75	-9.94	76.12	1,813.53	9,922.76	9,890.50	32.26	307.542				
14,000.00	12,271.21	2,745.00	2,744.41	56.78	6.75	-9.94	76.12	1,813.53	9,946.84	9,914.12	32.72	303.995				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design Bus Driver/Kaston Fed Com - Bus Driver Fed Com 702H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	12,272.30	2,745.00	2,744.41	57.89	6.75	-9.94	76.12	1,813.53	9,971.85	9,938.66	33.19	300.455	
14,200.00	12,273.38	2,745.00	2,744.41	59.01	6.75	-9.94	76.12	1,813.53	9,997.81	9,964.14	33.67	296.936	



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kaston Fed Com - Bus Driver Fed Com 702H - OH - Plan #5		Offset Site Error:	0.00 usft
Survey Program:													16-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 2745-OWSG (Rev2) MWD		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	0.00	0.00	0.00	0.00	87.55	79.20	1,850.80	1,852.50							
100.00	100.00	128.87	128.84	0.14	0.24	87.51	80.55	1,849.32	1,851.35	1,851.07	0.28	6,652.304				
200.00	200.00	213.00	212.96	0.50	0.53	87.48	81.37	1,848.61	1,850.47	1,849.74	0.73	2,535.171				
300.00	300.00	332.80	332.74	0.86	0.96	87.47	81.71	1,846.84	1,848.99	1,847.71	1.29	1,437.657				
400.00	400.00	444.40	444.31	1.22	1.36	87.47	81.59	1,844.24	1,846.65	1,844.83	1.82	1,013.773				
500.00	500.00	576.68	576.50	1.58	1.84	87.48	81.11	1,839.43	1,842.94	1,840.52	2.41	763.434				
600.00	600.00	677.00	676.73	1.93	2.20	87.48	80.73	1,835.18	1,838.69	1,835.77	2.92	629.647				
700.00	700.00	750.32	749.99	2.29	2.47	87.49	80.48	1,832.38	1,834.91	1,831.56	3.36	546.780				
800.00	800.00	849.07	848.70	2.65	2.82	87.50	79.92	1,829.71	1,832.19	1,828.33	3.86	474.823				
900.00	900.00	938.80	938.41	3.01	3.14	87.53	78.85	1,827.44	1,829.61	1,825.27	4.34	421.780				
1,000.00	1,000.00	1,035.18	1,034.76	3.37	3.49	87.56	77.69	1,825.45	1,827.49	1,822.66	4.83	378.049				
1,100.00	1,100.00	1,147.34	1,146.87	3.73	3.89	87.62	75.76	1,822.83	1,825.09	1,819.72	5.37	339.833				
1,200.00	1,200.00	1,235.40	1,234.90	4.08	4.21	87.65	74.69	1,820.90	1,822.83	1,816.98	5.85	311.781				
1,300.00	1,300.00	1,326.75	1,326.24	4.44	4.50	87.67	73.97	1,819.35	1,821.09	1,814.79	6.31	288.768				
1,400.00	1,400.00	1,416.19	1,415.66	4.80	4.67	87.68	73.66	1,818.18	1,819.77	1,813.09	6.68	272.561				
1,500.00	1,500.00	1,511.55	1,511.02	5.16	4.71	87.68	73.67	1,817.32	1,818.87	1,811.91	6.97	261.128				
1,600.00	1,600.00	1,608.39	1,607.86	5.52	4.76	87.68	73.55	1,816.66	1,818.18	1,810.91	7.27	250.159				
1,700.00	1,700.00	1,703.15	1,702.62	5.88	4.83	87.68	73.45	1,816.22	1,817.71	1,810.12	7.59	239.476				
1,800.00	1,800.00	1,802.00	1,801.47	6.24	4.93	87.68	73.44	1,815.96	1,817.45	1,809.51	7.93	229.100				
1,900.00	1,900.00	1,902.11	1,901.58	6.59	5.06	87.68	73.54	1,815.71	1,817.20	1,808.91	8.29	219.112				
2,000.00	2,000.00	2,000.03	1,999.50	6.95	5.20	87.68	73.60	1,815.50	1,817.00	1,808.33	8.67	209.663				
2,100.00	2,100.00	2,098.55	2,098.02	7.31	5.36	87.67	73.87	1,815.39	1,816.89	1,807.84	9.05	200.754				
2,187.28	2,187.28	2,184.61	2,184.08	7.62	5.51	87.66	74.30	1,815.34	1,816.86	1,807.47	9.39	193.433				
2,200.00	2,200.00	2,197.06	2,196.52	7.67	5.54	87.65	74.37	1,815.34	1,816.86	1,807.42	9.44	192.391				
2,300.00	2,300.00	2,294.62	2,294.08	8.03	5.72	87.64	74.90	1,815.39	1,816.94	1,807.09	9.84	184.558				
2,400.00	2,400.00	2,391.89	2,391.35	8.39	5.92	87.61	75.67	1,815.59	1,817.17	1,806.92	10.25	177.221				
2,500.00	2,500.00	2,490.35	2,489.80	8.74	6.14	87.59	76.54	1,815.88	1,817.50	1,806.83	10.67	170.313				
2,600.00	2,600.00	2,606.49	2,605.94	9.10	6.41	87.56	77.48	1,816.13	1,817.80	1,806.68	11.12	163.459				
2,700.00	2,700.00	2,758.40	2,757.80	9.46	6.79	87.60	75.87	1,813.09	1,815.70	1,804.08	11.63	156.173				
2,800.00	2,799.99	2,889.24	2,888.52	9.80	7.13	-65.46	73.14	1,808.17	1,811.43	1,799.33	12.10	149.752				
2,900.00	2,899.91	3,059.68	3,058.41	10.13	7.62	-65.58	66.40	1,796.48	1,802.78	1,790.17	12.61	142.969				
2,966.50	2,966.29	3,172.14	3,170.11	10.35	7.96	-65.70	59.82	1,785.22	1,794.29	1,781.34	12.95	138.551				
3,000.00	2,999.70	3,228.46	3,225.88	10.46	8.13	-65.70	55.89	1,778.52	1,789.24	1,776.12	13.12	136.360				
3,100.00	3,099.46	3,344.96	3,340.99	10.79	8.51	-65.66	46.77	1,763.01	1,772.69	1,759.11	13.58	130.537				
3,200.00	3,199.22	3,443.56	3,438.37	11.12	8.85	-65.63	38.95	1,749.71	1,756.01	1,741.99	14.03	125.198				
3,300.00	3,298.97	3,542.15	3,535.75	11.46	9.19	-65.59	31.13	1,736.41	1,739.34	1,724.86	14.48	120.138				
3,400.00	3,398.73	3,640.74	3,633.13	11.80	9.54	-65.56	23.31	1,723.11	1,722.66	1,707.72	14.94	115.342				
3,500.00	3,498.49	3,739.34	3,730.51	12.14	9.89	-65.52	15.48	1,709.81	1,705.98	1,690.58	15.40	110.794				
3,600.00	3,598.24	3,837.93	3,827.89	12.48	10.25	-65.49	7.66	1,696.51	1,689.31	1,673.44	15.87	106.480				
3,700.00	3,698.00	3,936.53	3,925.27	12.83	10.62	-65.45	-0.16	1,683.21	1,672.63	1,656.29	16.34	102.386				
3,800.00	3,797.76	4,035.12	4,022.65	13.17	10.99	-65.41	-7.98	1,669.91	1,655.95	1,639.14	16.81	98.499				
3,900.00	3,897.51	4,133.71	4,120.03	13.52	11.37	-65.37	-15.81	1,656.61	1,639.28	1,621.99	17.29	94.807				
4,000.00	3,997.27	4,232.31	4,217.40	13.87	11.75	-65.34	-23.63	1,643.31	1,622.61	1,604.83	17.77	91.296				
4,100.00	4,097.03	4,330.90	4,314.78	14.22	12.13	-65.29	-31.45	1,630.01	1,605.93	1,587.68	18.26	87.956				
4,200.00	4,196.78	4,429.50	4,412.16	14.58	12.52	-65.25	-39.27	1,616.71	1,589.26	1,570.52	18.75	84.777				
4,300.00	4,296.54	4,528.09	4,509.54	14.93	12.91	-65.21	-47.09	1,603.40	1,572.59	1,553.35	19.24	81.748				
4,400.00	4,396.30	4,626.68	4,606.92	15.28	13.30	-65.17	-54.92	1,590.10	1,555.92	1,536.19	19.73	78.859				
4,500.00	4,496.05	4,725.28	4,704.30	15.64	13.70	-65.13	-62.74	1,576.80	1,539.25	1,519.03	20.23	76.104				
4,600.00	4,595.81	4,823.87	4,801.68	16.00	14.09	-65.08	-70.56	1,563.50	1,522.58	1,501.86	20.72	73.472				
4,700.00	4,695.57	4,922.47	4,899.06	16.36	14.49	-65.04	-78.38	1,550.20	1,505.92	1,484.69	21.22	70.958				
4,800.00	4,795.32	5,021.06	4,996.44	16.71	14.89	-64.99	-86.21	1,536.90	1,489.25	1,467.53	21.72	68.553				
4,900.00	4,895.08	5,119.65	5,093.82	17.07	15.30	-64.94	-94.03	1,523.60	1,472.58	1,450.36	22.23	66.252				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kaston Fed Com - Bus Driver Fed Com 702H - OH - Plan #5		Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 2745-OWSG (Rev2) MWD													Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,000.00	4,994.84	5,218.25	5,191.20	17.43	15.70	-64.89	-101.85	1,510.30	1,455.92	1,433.19	22.73	64.048				
5,100.00	5,094.59	5,316.84	5,288.57	17.79	16.11	-64.84	-109.67	1,497.00	1,439.26	1,416.02	23.24	61.936				
5,200.00	5,194.35	5,415.44	5,385.95	18.16	16.52	-64.79	-117.50	1,483.70	1,422.59	1,398.85	23.75	59.910				
5,300.00	5,294.11	5,514.03	5,483.33	18.52	16.92	-64.74	-125.32	1,470.40	1,405.93	1,381.68	24.25	57.966				
5,400.00	5,393.86	5,612.62	5,580.71	18.88	17.33	-64.68	-133.14	1,457.10	1,389.27	1,364.51	24.76	56.099				
5,500.00	5,493.62	5,711.22	5,678.09	19.24	17.75	-64.63	-140.96	1,443.80	1,372.61	1,347.34	25.28	54.305				
5,600.00	5,593.38	5,809.81	5,775.47	19.61	18.16	-64.57	-148.78	1,430.50	1,355.95	1,330.17	25.79	52.580				
5,700.00	5,693.13	5,908.41	5,872.85	19.97	18.57	-64.52	-156.61	1,417.20	1,339.30	1,313.00	26.30	50.920				
5,800.00	5,792.89	6,007.00	5,970.23	20.34	18.99	-64.46	-164.43	1,403.90	1,322.64	1,295.83	26.82	49.321				
5,900.00	5,892.65	6,105.59	6,067.61	20.70	19.40	-64.40	-172.25	1,390.60	1,305.99	1,278.66	27.33	47.781				
6,000.00	5,992.40	6,204.19	6,164.99	21.07	19.82	-64.33	-180.07	1,377.30	1,289.34	1,261.49	27.85	46.298				
6,100.00	6,092.16	6,302.78	6,262.37	21.43	20.23	-64.27	-187.90	1,364.00	1,272.69	1,244.32	28.37	44.866				
6,200.00	6,191.92	6,401.38	6,359.74	21.80	20.65	-64.20	-195.72	1,350.70	1,256.04	1,227.15	28.88	43.485				
6,300.00	6,291.67	6,499.97	6,457.12	22.17	21.07	-64.14	-203.54	1,337.40	1,239.39	1,209.99	29.40	42.152				
6,400.00	6,391.43	6,598.56	6,554.50	22.53	21.49	-64.07	-211.36	1,324.10	1,222.74	1,192.82	29.92	40.863				
6,500.00	6,491.19	6,697.16	6,651.88	22.90	21.91	-64.00	-219.19	1,310.80	1,206.10	1,175.66	30.44	39.618				
6,600.00	6,590.94	6,795.75	6,749.26	23.27	22.33	-63.92	-227.01	1,297.50	1,189.46	1,158.49	30.96	38.413				
6,700.00	6,690.70	6,894.35	6,846.64	23.64	22.75	-63.85	-234.83	1,284.20	1,172.82	1,141.33	31.49	37.248				
6,800.00	6,790.46	6,992.94	6,944.02	24.00	23.17	-63.77	-242.65	1,270.90	1,156.18	1,124.17	32.01	36.120				
6,900.00	6,890.21	7,091.53	7,041.40	24.37	23.59	-63.69	-250.47	1,257.60	1,139.54	1,107.01	32.53	35.027				
7,000.00	6,989.97	7,190.13	7,138.78	24.74	24.01	-63.61	-258.30	1,244.30	1,122.91	1,089.85	33.06	33.968				
7,100.00	7,089.73	7,285.90	7,233.37	25.11	24.42	-63.53	-265.89	1,231.39	1,106.30	1,072.71	33.58	32.944				
7,200.00	7,189.48	7,385.02	7,331.68	25.48	24.75	-63.49	-271.64	1,221.62	1,090.80	1,056.71	34.10	31.992				
7,300.00	7,289.24	7,484.58	7,390.63	25.85	25.07	-63.49	-276.59	1,213.20	1,077.08	1,042.48	34.60	31.128				
7,400.00	7,389.00	7,524.49	7,470.13	26.22	25.38	-63.54	-280.72	1,206.17	1,065.15	1,030.05	35.10	30.349				
7,504.97	7,493.71	7,600.00	7,545.38	26.61	25.66	-63.63	-283.85	1,200.85	1,054.61	1,019.03	35.59	29.634				
7,600.00	7,588.58	7,685.20	7,630.42	26.95	25.96	-63.63	-286.47	1,196.39	1,047.24	1,011.19	36.05	29.052				
7,700.00	7,688.53	7,765.94	7,711.09	27.31	26.24	-63.61	-288.07	1,193.67	1,042.44	1,005.94	36.50	28.560				
7,771.47	7,760.00	7,823.73	7,768.88	27.56	26.42	89.46	-288.69	1,192.62	1,040.84	1,004.03	36.81	28.276				
7,800.00	7,788.53	7,846.81	7,791.95	27.66	26.50	89.46	-288.81	1,192.42	1,040.59	1,003.66	36.93	28.178				
7,851.03	7,839.55	7,891.21	7,836.35	27.83	26.63	89.47	-288.86	1,192.33	1,040.48	1,003.33	37.15	28.010				
7,900.00	7,888.53	7,940.19	7,885.33	27.99	26.77	89.47	-288.86	1,192.33	1,040.48	1,003.10	37.37	27.842				
8,000.00	7,988.53	8,040.19	7,985.33	28.33	27.07	89.47	-288.86	1,192.33	1,040.48	1,002.64	37.83	27.504				
8,100.00	8,088.53	8,140.19	8,085.33	28.66	27.36	89.47	-288.86	1,192.33	1,040.48	1,002.18	38.29	27.173				
8,200.00	8,188.53	8,240.19	8,185.33	29.00	27.66	89.47	-288.86	1,192.33	1,040.48	1,001.72	38.75	26.849				
8,300.00	8,288.53	8,340.19	8,285.33	29.34	27.96	89.47	-288.86	1,192.33	1,040.48	1,001.26	39.22	26.532				
8,400.00	8,388.53	8,440.19	8,385.33	29.68	28.26	89.47	-288.86	1,192.33	1,040.48	1,000.80	39.68	26.222				
8,500.00	8,488.53	8,540.19	8,485.33	30.02	28.56	89.47	-288.86	1,192.33	1,040.48	1,000.33	40.14	25.918				
8,600.00	8,588.53	8,640.19	8,585.33	30.36	28.86	89.47	-288.86	1,192.33	1,040.48	999.86	40.61	25.621				
8,700.00	8,688.53	8,740.19	8,685.33	30.70	29.17	89.47	-288.86	1,192.33	1,040.48	999.40	41.08	25.330				
8,800.00	8,788.53	8,840.19	8,785.33	31.04	29.47	89.47	-288.86	1,192.33	1,040.48	998.93	41.54	25.045				
8,900.00	8,888.53	8,940.19	8,885.33	31.38	29.78	89.47	-288.86	1,192.33	1,040.48	998.46	42.01	24.765				
9,000.00	8,988.53	9,040.19	8,985.33	31.72	30.08	89.47	-288.86	1,192.33	1,040.48	997.99	42.48	24.491				
9,100.00	9,088.53	9,140.19	9,085.33	32.06	30.39	89.47	-288.86	1,192.33	1,040.48	997.52	42.95	24.223				
9,200.00	9,188.53	9,240.19	9,185.33	32.40	30.70	89.47	-288.86	1,192.33	1,040.48	997.05	43.43	23.960				
9,300.00	9,288.53	9,340.19	9,285.33	32.75	31.01	89.47	-288.86	1,192.33	1,040.48	996.58	43.90	23.703				
9,400.00	9,388.53	9,440.19	9,385.33	33.09	31.32	89.47	-288.86	1,192.33	1,040.48	996.11	44.37	23.450				
9,500.00	9,488.53	9,540.19	9,485.33	33.43	31.64	89.47	-288.86	1,192.33	1,040.48	995.63	44.84	23.202				
9,600.00	9,588.53	9,640.19	9,585.33	33.77	31.95	89.47	-288.86	1,192.33	1,040.48	995.16	45.32	22.959				
9,700.00	9,688.53	9,740.19	9,685.33	34.12	32.26	89.47	-288.86	1,192.33	1,040.48	994.68	45.79	22.721				
9,800.00	9,788.53	9,840.19	9,785.33	34.46	32.58	89.47	-288.86	1,192.33	1,040.48	994.21	46.27	22.488				
9,900.00	9,888.53	9,940.19	9,885.33	34.81	32.90	89.47	-288.86	1,192.33	1,040.48	993.73	46.74	22.259				

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



Total Directional Services

Anticollision Report



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Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kaston Fed Com - Bus Driver Fed Com 702H - OH - Plan #5		Offset Site Error:	0.00 usft
Survey Program:													16-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 2745-OWSG (Rev2) MWD		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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			
10,000.00	9,988.53	10,040.19	9,985.33	35.15	33.21	89.47	-288.86	1,192.33	1,040.48	993.25	47.22	22.034				
10,100.00	10,088.53	10,140.19	10,085.33	35.50	33.53	89.47	-288.86	1,192.33	1,040.48	992.78	47.70	21.813				
10,200.00	10,188.53	10,240.19	10,185.33	35.84	33.85	89.47	-288.86	1,192.33	1,040.48	992.30	48.18	21.597				
10,300.00	10,288.53	10,340.19	10,285.33	36.19	34.17	89.47	-288.86	1,192.33	1,040.48	991.82	48.66	21.384				
10,400.00	10,388.53	10,440.19	10,385.33	36.53	34.49	89.47	-288.86	1,192.33	1,040.48	991.34	49.14	21.175				
10,500.00	10,488.53	10,540.19	10,485.33	36.88	34.81	89.47	-288.86	1,192.33	1,040.48	990.86	49.62	20.971				
10,600.00	10,588.53	10,640.19	10,585.33	37.22	35.13	89.47	-288.86	1,192.33	1,040.48	990.38	50.10	20.770				
10,700.00	10,688.53	10,740.19	10,685.33	37.57	35.45	89.47	-288.86	1,192.33	1,040.48	989.90	50.58	20.572				
10,800.00	10,788.53	10,840.19	10,785.33	37.92	35.78	89.47	-288.86	1,192.33	1,040.48	989.42	51.06	20.378				
10,900.00	10,888.53	10,940.19	10,885.33	38.26	36.10	89.47	-288.86	1,192.33	1,040.48	988.93	51.54	20.187				
11,000.00	10,988.53	11,040.19	10,985.33	38.61	36.43	89.47	-288.86	1,192.33	1,040.48	988.45	52.02	20.000				
11,100.00	11,088.53	11,140.19	11,085.33	38.96	36.75	89.47	-288.86	1,192.33	1,040.48	987.97	52.51	19.816				
11,200.00	11,188.53	11,240.19	11,185.33	39.30	37.08	89.47	-288.86	1,192.33	1,040.48	987.49	52.99	19.636				
11,300.00	11,288.53	11,340.19	11,285.33	39.65	37.40	89.47	-288.86	1,192.33	1,040.48	987.00	53.47	19.458				
11,400.00	11,388.53	11,440.19	11,385.33	40.00	37.73	89.47	-288.86	1,192.33	1,040.48	986.52	53.96	19.283				
11,500.00	11,488.53	11,540.19	11,485.33	40.35	38.06	89.47	-288.89	1,192.33	1,040.48	986.03	54.44	19.112				
11,518.79	11,507.32	11,558.98	11,504.12	40.41	38.12	89.50	-289.41	1,192.33	1,040.48	985.94	54.53	19.079 CC				
11,600.00	11,588.53	11,639.09	11,583.64	40.70	38.40	90.00	-298.50	1,192.41	1,040.52	985.57	54.94	18.938				
11,694.47	11,683.00	11,727.17	11,668.66	41.02	38.72	91.24	-321.16	1,192.61	1,041.02	985.59	55.43	18.782				
11,700.00	11,688.53	11,732.09	11,673.30	41.04	38.74	-88.16	-322.81	1,192.63	1,041.08	985.62	55.45	18.773				
11,750.00	11,738.44	11,776.02	11,714.02	41.22	38.91	-87.31	-339.28	1,192.77	1,041.76	986.05	55.71	18.700				
11,800.00	11,787.93	11,819.02	11,752.53	41.40	39.07	-86.48	-358.37	1,192.94	1,042.66	986.70	55.96	18.632				
11,850.00	11,836.62	11,861.16	11,788.79	41.59	39.24	-85.67	-379.83	1,193.13	1,043.75	987.54	56.21	18.568				
11,900.00	11,884.15	11,900.00	11,820.72	41.78	39.40	-84.93	-401.92	1,193.32	1,044.99	988.55	56.44	18.514				
11,950.00	11,930.14	11,943.27	11,854.45	41.98	39.58	-84.15	-429.01	1,193.56	1,046.34	989.64	56.70	18.454				
12,000.00	11,974.25	11,983.39	11,883.81	42.18	39.74	-83.45	-456.34	1,193.80	1,047.78	990.85	56.93	18.403				
12,050.00	12,016.15	12,022.98	11,910.84	42.39	39.91	-82.78	-485.25	1,194.06	1,049.27	992.10	57.17	18.355				
12,100.00	12,055.51	12,062.10	11,935.52	42.60	40.09	-82.17	-515.59	1,194.32	1,050.76	993.36	57.39	18.308				
12,150.00	12,092.03	12,100.00	11,957.41	42.82	40.26	-81.60	-546.52	1,194.60	1,052.22	994.61	57.61	18.264				
12,200.00	12,125.44	12,139.16	11,977.82	43.04	40.44	-81.08	-579.93	1,194.89	1,053.63	995.79	57.84	18.215				
12,250.00	12,155.49	12,177.20	11,995.43	43.27	40.62	-80.62	-613.64	1,195.19	1,054.95	996.87	58.07	18.166				
12,300.00	12,181.94	12,214.97	12,010.65	43.50	40.81	-80.21	-648.20	1,195.49	1,056.14	997.84	58.30	18.115				
12,350.00	12,204.59	12,250.00	12,022.71	43.75	40.99	-79.88	-681.08	1,195.78	1,057.20	998.68	58.52	18.065				
12,400.00	12,223.27	12,289.91	12,033.97	43.99	41.20	-79.58	-719.36	1,196.12	1,058.09	999.30	58.79	17.997				
12,450.00	12,237.84	12,327.14	12,042.05	44.24	41.40	-79.36	-755.70	1,196.44	1,058.80	999.75	59.05	17.930				
12,500.00	12,248.19	12,364.27	12,047.74	44.50	41.61	-79.20	-792.38	1,196.76	1,059.31	999.99	59.32	17.856				
12,550.00	12,254.23	12,400.00	12,050.96	44.76	41.81	-79.11	-827.96	1,197.07	1,059.62	1,000.02	59.60	17.778				
12,588.27	12,255.92	12,430.84	12,051.97	44.96	41.99	-79.08	-858.78	1,197.34	1,059.71	999.86	59.85	17.708				
12,600.00	12,256.05	12,442.57	12,052.12	45.02	42.06	-79.08	-870.51	1,197.44	1,059.70	999.77	59.94	17.681				
12,700.00	12,257.13	12,542.57	12,053.44	45.57	42.68	-79.09	-970.49	1,198.32	1,059.67	998.92	60.75	17.443				
12,800.00	12,258.22	12,642.57	12,054.75	46.18	43.35	-79.10	-1,070.48	1,199.20	1,059.63	997.99	61.64	17.192				
12,900.00	12,259.30	12,742.57	12,056.06	46.83	44.07	-79.12	-1,170.47	1,200.08	1,059.59	997.00	62.59	16.928				
13,000.00	12,260.38	12,842.57	12,057.37	47.54	44.85	-79.13	-1,270.46	1,200.96	1,059.56	995.93	63.62	16.654				
13,100.00	12,261.47	12,942.57	12,058.69	48.29	45.66	-79.14	-1,370.44	1,201.84	1,059.52	994.80	64.71	16.372				
13,200.00	12,262.55	13,042.57	12,060.00	49.08	46.53	-79.15	-1,470.43	1,202.72	1,059.48	993.61	65.87	16.084				
13,300.00	12,263.63	13,142.57	12,061.31	49.92	47.43	-79.17	-1,570.42	1,203.60	1,059.45	992.36	67.09	15.792				
13,400.00	12,264.71	13,242.57	12,062.63	50.80	48.37	-79.18	-1,670.41	1,204.48	1,059.41	991.05	68.36	15.498				
13,500.00	12,265.80	13,342.57	12,063.94	51.71	49.36	-79.19	-1,770.39	1,205.36	1,059.37	989.69	69.68	15.204				
13,600.00	12,266.88	13,442.57	12,065.25	52.66	50.37	-79.20	-1,870.38	1,206.24	1,059.34	988.28	71.05	14.909				
13,700.00	12,267.96	13,542.57	12,066.57	53.64	51.42	-79.22	-1,970.37	1,207.12	1,059.30	986.83	72.47	14.616				
13,800.00	12,269.05	13,642.57	12,067.88	54.66	52.50	-79.23	-2,070.35	1,208.00	1,059.26	985.32	73.94	14.326				
13,900.00	12,270.13	13,742.57	12,069.19	55.71	53.61	-79.24	-2,170.34	1,208.87	1,059.23	983.78	75.45	14.039				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 2745-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	12,271.21	13,842.57	12,070.51	56.78	54.74	-79.25	-2,270.33	1,209.75	1,059.19	982.20	76.99	13.757		
14,100.00	12,272.30	13,942.57	12,071.82	57.89	55.91	-79.26	-2,370.32	1,210.63	1,059.15	980.58	78.58	13.479		
14,200.00	12,273.38	14,042.57	12,073.13	59.01	57.09	-79.28	-2,470.30	1,211.51	1,059.12	978.92	80.20	13.206		
14,300.00	12,274.46	14,142.57	12,074.45	60.17	58.30	-79.29	-2,570.29	1,212.39	1,059.08	977.23	81.85	12.939		
14,400.00	12,275.54	14,242.57	12,075.76	61.34	59.53	-79.30	-2,670.28	1,213.27	1,059.05	975.51	83.53	12.678		
14,500.00	12,276.63	14,342.57	12,077.07	62.54	60.78	-79.31	-2,770.27	1,214.15	1,059.01	973.77	85.24	12.423		
14,600.00	12,277.71	14,442.57	12,078.39	63.76	62.05	-79.33	-2,870.25	1,215.03	1,058.97	971.99	86.98	12.174		
14,700.00	12,278.79	14,542.57	12,079.70	64.99	63.33	-79.34	-2,970.24	1,215.91	1,058.94	970.19	88.75	11.932		
14,800.00	12,279.88	14,642.57	12,081.01	66.25	64.64	-79.35	-3,070.23	1,216.79	1,058.90	968.37	90.54	11.696		
14,900.00	12,280.96	14,742.57	12,082.33	67.52	65.96	-79.36	-3,170.21	1,217.67	1,058.87	966.52	92.35	11.466		
15,000.00	12,282.04	14,842.57	12,083.64	68.81	67.29	-79.38	-3,270.20	1,218.55	1,058.83	964.65	94.18	11.242		
15,100.00	12,283.12	14,942.57	12,084.95	70.11	68.64	-79.39	-3,370.19	1,219.43	1,058.79	962.76	96.03	11.025		
15,200.00	12,284.21	15,042.57	12,086.26	71.43	70.00	-79.40	-3,470.18	1,220.31	1,058.76	960.85	97.91	10.814		
15,300.00	12,285.29	15,142.57	12,087.58	72.76	71.37	-79.41	-3,570.16	1,221.18	1,058.72	958.92	99.80	10.609		
15,400.00	12,286.37	15,242.57	12,088.89	74.11	72.75	-79.42	-3,670.15	1,222.06	1,058.69	956.98	101.71	10.409		
15,500.00	12,287.46	15,342.57	12,090.20	75.46	74.15	-79.44	-3,770.14	1,222.94	1,058.65	955.02	103.63	10.216		
15,600.00	12,288.54	15,442.57	12,091.52	76.83	75.55	-79.45	-3,870.13	1,223.82	1,058.62	953.05	105.57	10.028		
15,700.00	12,289.62	15,542.56	12,092.83	78.21	76.97	-79.46	-3,970.11	1,224.70	1,058.58	951.06	107.52	9.845		
15,800.00	12,290.71	15,642.56	12,094.14	79.60	78.39	-79.47	-4,070.10	1,225.58	1,058.55	949.05	109.49	9.668		
15,900.00	12,291.79	15,742.56	12,095.46	81.00	79.82	-79.49	-4,170.09	1,226.46	1,058.51	947.04	111.47	9.496		
16,000.00	12,292.87	15,842.56	12,096.77	82.41	81.26	-79.50	-4,270.07	1,227.34	1,058.48	945.01	113.47	9.329		
16,100.00	12,293.95	15,942.56	12,098.08	83.83	82.71	-79.51	-4,370.06	1,228.22	1,058.44	942.97	115.47	9.166		
16,200.00	12,295.04	16,042.56	12,099.40	85.25	84.17	-79.52	-4,470.05	1,229.10	1,058.40	940.92	117.49	9.009		
16,300.00	12,296.12	16,142.56	12,100.71	86.69	85.63	-79.54	-4,570.04	1,229.98	1,058.37	938.86	119.51	8.856		
16,400.00	12,297.20	16,242.56	12,102.02	88.13	87.10	-79.55	-4,670.02	1,230.86	1,058.33	936.79	121.55	8.707		
16,500.00	12,298.29	16,342.56	12,103.34	89.58	88.58	-79.56	-4,770.01	1,231.74	1,058.30	934.71	123.59	8.563		
16,600.00	12,299.37	16,442.56	12,104.65	91.03	90.06	-79.57	-4,870.00	1,232.61	1,058.26	932.62	125.65	8.423		
16,700.00	12,300.45	16,542.56	12,105.96	92.50	91.55	-79.58	-4,969.98	1,233.49	1,058.23	930.52	127.71	8.286		
16,800.00	12,301.53	16,642.56	12,107.28	93.97	93.05	-79.60	-5,069.97	1,234.37	1,058.19	928.42	129.78	8.154		
16,900.00	12,302.62	16,742.56	12,108.59	95.44	94.55	-79.61	-5,169.96	1,235.25	1,058.16	926.30	131.86	8.025		
17,000.00	12,303.70	16,842.56	12,109.90	96.92	96.05	-79.62	-5,269.95	1,236.13	1,058.13	924.18	133.94	7.900		
17,100.00	12,304.78	16,942.56	12,111.22	98.41	97.56	-79.63	-5,369.93	1,237.01	1,058.09	922.05	136.04	7.778		
17,200.00	12,305.87	17,042.56	12,112.53	99.90	99.07	-79.65	-5,469.92	1,237.89	1,058.06	919.92	138.14	7.659		
17,300.00	12,306.95	17,142.56	12,113.84	101.39	100.59	-79.66	-5,569.91	1,238.77	1,058.02	917.78	140.24	7.544		
17,400.00	12,308.03	17,242.56	12,115.16	102.90	102.11	-79.67	-5,669.90	1,239.65	1,057.99	915.63	142.36	7.432		
17,500.00	12,309.12	17,342.56	12,116.47	104.40	103.64	-79.68	-5,769.88	1,240.53	1,057.95	913.48	144.48	7.323		
17,600.00	12,310.20	17,442.56	12,117.78	105.91	105.17	-79.70	-5,869.87	1,241.41	1,057.92	911.32	146.60	7.216		
17,700.00	12,311.28	17,542.56	12,119.09	107.43	106.70	-79.71	-5,969.86	1,242.29	1,057.88	909.15	148.73	7.113		
17,800.00	12,312.36	17,642.56	12,120.41	108.94	108.24	-79.72	-6,069.84	1,243.17	1,057.85	906.99	150.86	7.012		
17,900.00	12,313.45	17,742.56	12,121.72	110.47	109.78	-79.73	-6,169.83	1,244.04	1,057.81	904.81	153.00	6.914		
18,000.00	12,314.53	17,842.56	12,123.03	111.99	111.32	-79.75	-6,269.82	1,244.92	1,057.78	902.63	155.15	6.818		
18,100.00	12,315.61	17,942.56	12,124.35	113.52	112.87	-79.76	-6,369.81	1,245.80	1,057.75	900.45	157.30	6.725		
18,200.00	12,316.70	18,042.56	12,125.66	115.05	114.42	-79.77	-6,469.79	1,246.68	1,057.71	898.26	159.45	6.633		
18,300.00	12,317.78	18,142.56	12,126.97	116.59	115.97	-79.78	-6,569.78	1,247.56	1,057.68	896.07	161.61	6.545		
18,400.00	12,318.86	18,242.56	12,128.29	118.13	117.53	-79.79	-6,669.77	1,248.44	1,057.64	893.87	163.77	6.458		
18,500.00	12,319.94	18,342.56	12,129.60	119.67	119.08	-79.81	-6,769.76	1,249.32	1,057.61	891.67	165.94	6.374		
18,600.00	12,321.03	18,442.56	12,130.91	121.22	120.64	-79.82	-6,869.74	1,250.20	1,057.57	889.47	168.10	6.291		
18,700.00	12,322.11	18,542.56	12,132.23	122.76	122.21	-79.83	-6,969.73	1,251.08	1,057.54	887.26	170.28	6.211		
18,800.00	12,323.19	18,642.56	12,133.54	124.32	123.77	-79.84	-7,069.72	1,251.96	1,057.51	885.05	172.45	6.132		
18,900.00	12,324.28	18,742.56	12,134.85	125.87	125.34	-79.86	-7,169.70	1,252.84	1,057.47	882.84	174.63	6.055		
19,000.00	12,325.36	18,842.56	12,136.17	127.42	126.91	-79.87	-7,269.69	1,253.72	1,057.44	880.62	176.82	5.980		
19,100.00	12,326.44	18,942.56	12,137.48	128.98	128.48	-79.88	-7,369.68	1,254.60	1,057.41	878.40	179.00	5.907		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 2745-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,200.00	12,327.53	19,042.56	12,138.79	130.54	130.05	-79.89	-7,469.67	1,255.47	1,057.37	876.18	181.19	5.836		
19,300.00	12,328.61	19,142.56	12,140.11	132.11	131.63	-79.91	-7,569.65	1,256.35	1,057.34	873.96	183.38	5.766		
19,400.00	12,329.69	19,242.56	12,141.42	133.67	133.20	-79.92	-7,669.64	1,257.23	1,057.30	871.73	185.58	5.697		
19,500.00	12,330.77	19,342.55	12,142.73	135.24	134.78	-79.93	-7,769.63	1,258.11	1,057.27	869.50	187.78	5.631		
19,600.00	12,331.86	19,442.55	12,144.05	136.81	136.36	-79.94	-7,869.61	1,258.99	1,057.24	867.26	189.98	5.565		
19,700.00	12,332.94	19,542.55	12,145.36	138.38	137.94	-79.96	-7,969.60	1,259.87	1,057.20	865.03	192.18	5.501		
19,800.00	12,334.02	19,642.55	12,146.67	139.95	139.53	-79.97	-8,069.59	1,260.75	1,057.17	862.79	194.38	5.439		
19,900.00	12,335.11	19,742.55	12,147.99	141.52	141.11	-79.98	-8,169.58	1,261.63	1,057.14	860.55	196.59	5.377		
20,000.00	12,336.19	19,842.55	12,149.30	143.10	142.70	-79.99	-8,269.56	1,262.51	1,057.10	858.30	198.80	5.317		
20,100.00	12,337.27	19,942.55	12,150.61	144.68	144.29	-80.00	-8,369.55	1,263.39	1,057.07	856.06	201.01	5.259		
20,200.00	12,338.35	20,042.55	12,151.92	146.26	145.88	-80.02	-8,469.54	1,264.27	1,057.04	853.81	203.22	5.201		
20,300.00	12,339.44	20,142.55	12,153.24	147.84	147.47	-80.03	-8,569.53	1,265.15	1,057.00	851.56	205.44	5.145		
20,400.00	12,340.52	20,242.55	12,154.55	149.42	149.06	-80.04	-8,669.51	1,266.03	1,056.97	849.31	207.66	5.090		
20,500.00	12,341.60	20,342.55	12,155.86	151.01	150.65	-80.05	-8,769.50	1,266.90	1,056.94	847.06	209.88	5.036		
20,600.00	12,342.69	20,442.55	12,157.18	152.59	152.25	-80.07	-8,869.49	1,267.78	1,056.90	844.81	212.10	4.983		
20,700.00	12,343.77	20,542.55	12,158.49	154.18	153.84	-80.08	-8,969.47	1,268.66	1,056.87	842.55	214.32	4.931		
20,800.00	12,344.85	20,642.55	12,159.80	155.77	155.44	-80.09	-9,069.46	1,269.54	1,056.84	840.29	216.55	4.880		
20,900.00	12,345.94	20,742.55	12,161.12	157.36	157.04	-80.10	-9,169.45	1,270.42	1,056.81	838.03	218.77	4.831		
21,000.00	12,347.02	20,842.55	12,162.43	158.95	158.64	-80.12	-9,269.44	1,271.30	1,056.77	835.77	221.00	4.782		
21,100.00	12,348.10	20,942.55	12,163.74	160.54	160.24	-80.13	-9,369.42	1,272.18	1,056.74	833.51	223.23	4.734		
21,200.00	12,349.18	21,042.55	12,165.06	162.13	161.84	-80.14	-9,469.41	1,273.06	1,056.71	831.24	225.46	4.687		
21,300.00	12,350.27	21,142.55	12,166.37	163.73	163.44	-80.15	-9,569.40	1,273.94	1,056.67	828.98	227.70	4.641		
21,400.00	12,351.35	21,242.55	12,167.68	165.32	165.05	-80.17	-9,669.39	1,274.82	1,056.64	826.71	229.93	4.595		
21,500.00	12,352.43	21,342.55	12,169.00	166.92	166.65	-80.18	-9,769.37	1,275.70	1,056.61	824.44	232.17	4.551		
21,600.00	12,353.52	21,442.55	12,170.31	168.52	168.26	-80.19	-9,869.36	1,276.58	1,056.58	822.17	234.40	4.508		
21,700.00	12,354.60	21,542.55	12,171.62	170.12	169.86	-80.20	-9,969.35	1,277.46	1,056.54	819.90	236.64	4.465		
21,800.00	12,355.68	21,642.55	12,172.94	171.72	171.47	-80.21	-10,069.33	1,278.34	1,056.51	817.63	238.88	4.423		
21,900.00	12,356.76	21,742.55	12,174.25	173.32	173.08	-80.23	-10,169.32	1,279.21	1,056.48	815.36	241.12	4.381		
22,000.00	12,357.85	21,842.55	12,175.56	174.92	174.69	-80.24	-10,269.31	1,280.09	1,056.45	813.08	243.37	4.341		
22,100.00	12,358.93	21,942.55	12,176.88	176.52	176.30	-80.25	-10,369.30	1,280.97	1,056.42	810.81	245.61	4.301		
22,200.00	12,360.01	22,042.55	12,178.19	178.13	177.91	-80.26	-10,469.28	1,281.85	1,056.38	808.53	247.85	4.262		
22,300.00	12,361.10	22,142.55	12,179.50	179.73	179.52	-80.28	-10,569.27	1,282.73	1,056.35	806.25	250.10	4.224		
22,389.94	12,362.07	22,232.48	12,180.68	181.18	180.97	-80.29	-10,659.19	1,283.52	1,056.32	804.20	252.12	4.190		
22,390.61	12,362.08	22,233.15	12,180.69	181.19	180.98	-80.29	-10,659.87	1,283.53	1,056.32	804.19	252.13	4.190 ES, SF		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kaston Fed Com - Kaston Fed Com 603H - OH - Plan #6		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	87.65	80.19	1,955.78	1,957.43							
100.00	100.00	96.80	96.80	0.14	0.12	87.65	80.19	1,955.78	1,957.42	1,957.24	0.19	N/A				
200.00	200.00	196.80	196.80	0.50	0.47	87.65	80.19	1,955.78	1,957.42	1,956.74	0.69	2,845.249				
300.00	300.00	296.80	296.80	0.86	0.83	87.65	80.19	1,955.78	1,957.42	1,956.23	1.19	1,638.285				
400.00	400.00	396.80	396.80	1.22	1.19	87.65	80.19	1,955.78	1,957.42	1,955.72	1.70	1,150.270				
500.00	500.00	496.80	496.80	1.58	1.55	87.65	80.19	1,955.78	1,957.42	1,955.21	2.21	886.258				
600.00	600.00	596.80	596.80	1.93	1.91	87.65	80.19	1,955.78	1,957.42	1,954.71	2.72	720.813				
700.00	700.00	696.80	696.80	2.29	2.26	87.65	80.19	1,955.78	1,957.42	1,954.20	3.22	607.420				
800.00	800.00	796.80	796.80	2.65	2.62	87.65	80.19	1,955.78	1,957.42	1,953.69	3.73	524.853				
900.00	900.00	896.80	896.80	3.01	2.98	87.65	80.19	1,955.78	1,957.42	1,953.19	4.24	462.047				
1,000.00	1,000.00	996.80	996.80	3.37	3.34	87.65	80.19	1,955.78	1,957.42	1,952.68	4.74	412.665				
1,100.00	1,100.00	1,096.80	1,096.80	3.73	3.70	87.65	80.19	1,955.78	1,957.42	1,952.17	5.25	372.820				
1,200.00	1,200.00	1,196.80	1,196.80	4.08	4.06	87.65	80.19	1,955.78	1,957.42	1,951.67	5.76	339.992				
1,300.00	1,300.00	1,296.80	1,296.80	4.44	4.42	87.65	80.19	1,955.78	1,957.42	1,951.16	6.26	312.477				
1,400.00	1,400.00	1,396.80	1,396.80	4.80	4.77	87.65	80.19	1,955.78	1,957.42	1,950.65	6.77	289.082				
1,500.00	1,500.00	1,496.80	1,496.80	5.16	5.13	87.65	80.19	1,955.78	1,957.42	1,950.15	7.28	268.946				
1,600.00	1,600.00	1,596.80	1,596.80	5.52	5.49	87.65	80.19	1,955.78	1,957.42	1,949.64	7.79	251.433				
1,700.00	1,700.00	1,696.80	1,696.80	5.88	5.85	87.65	80.19	1,955.78	1,957.42	1,949.13	8.29	236.061				
1,800.00	1,800.00	1,796.80	1,796.80	6.24	6.21	87.65	80.19	1,955.78	1,957.42	1,948.62	8.80	222.460				
1,900.00	1,900.00	1,896.80	1,896.80	6.59	6.57	87.65	80.19	1,955.78	1,957.42	1,948.12	9.31	210.341				
2,000.00	2,000.00	1,996.80	1,996.80	6.95	6.92	87.65	80.19	1,955.78	1,957.42	1,947.61	9.81	199.474				
2,100.00	2,100.00	2,096.80	2,096.80	7.31	7.28	87.65	80.19	1,955.78	1,957.42	1,947.10	10.32	189.675				
2,200.00	2,200.00	2,196.80	2,196.80	7.67	7.64	87.65	80.19	1,955.78	1,957.42	1,946.60	10.83	180.794				
2,300.00	2,300.00	2,296.80	2,296.80	8.03	8.00	87.65	80.19	1,955.78	1,957.42	1,946.09	11.33	172.707				
2,400.00	2,400.00	2,396.80	2,396.80	8.39	8.36	87.65	80.19	1,955.78	1,957.42	1,945.58	11.84	165.313				
2,500.00	2,500.00	2,496.80	2,496.80	8.74	8.72	87.65	80.19	1,955.78	1,957.42	1,945.08	12.35	158.526				
2,600.00	2,600.00	2,596.80	2,596.80	9.10	9.08	87.65	80.19	1,955.78	1,957.42	1,944.57	12.85	152.274				
2,613.85	2,613.85	2,610.65	2,610.65	9.15	9.13	87.65	80.19	1,955.78	1,957.42	1,944.50	12.92	151.447 CC				
2,700.00	2,700.00	2,694.35	2,694.35	9.46	9.42	87.65	80.19	1,955.78	1,957.43	1,944.07	13.35	146.570				
2,800.00	2,799.99	2,762.90	2,762.90	9.80	9.65	-65.39	79.90	1,956.43	1,957.81	1,944.05	13.76	142.318 ES				
2,900.00	2,899.91	2,831.44	2,831.40	10.13	9.88	-65.43	79.10	1,958.20	1,958.71	1,944.57	14.14	138.483				
2,966.50	2,966.29	2,877.00	2,876.92	10.35	10.04	-65.46	78.30	1,960.00	1,959.60	1,945.20	14.40	136.072				
3,000.00	2,999.70	2,900.00	2,899.89	10.46	10.11	-65.49	77.81	1,961.10	1,960.19	1,945.66	14.53	134.901				
3,100.00	3,099.46	2,968.43	2,968.18	10.79	10.35	-65.56	76.01	1,965.10	1,963.04	1,948.12	14.92	131.599				
3,200.00	3,199.22	3,036.88	3,036.40	11.12	10.58	-65.61	73.71	1,970.23	1,967.49	1,952.19	15.30	128.575				
3,300.00	3,298.97	3,100.00	3,099.21	11.46	10.80	-65.65	71.15	1,975.94	1,973.55	1,957.88	15.67	125.936				
3,400.00	3,398.73	3,173.45	3,172.15	11.80	11.05	-65.67	67.64	1,983.78	1,981.18	1,965.11	16.07	123.288				
3,500.00	3,498.49	3,241.50	3,239.57	12.14	11.29	-65.67	63.87	1,992.18	1,990.40	1,973.95	16.45	120.993				
3,600.00	3,598.24	3,300.00	3,297.40	12.48	11.50	-65.66	60.24	2,000.28	2,001.24	1,984.44	16.80	119.132				
3,700.00	3,698.00	3,376.89	3,373.17	12.83	11.77	-65.63	54.92	2,012.15	2,013.58	1,996.37	17.21	117.028				
3,800.00	3,797.76	3,467.34	3,462.10	13.17	12.11	-65.58	48.14	2,027.28	2,027.10	2,009.44	17.66	114.775				
3,900.00	3,897.51	3,566.40	3,559.46	13.52	12.48	-65.53	40.69	2,043.90	2,040.68	2,022.53	18.15	112.434				
4,000.00	3,997.27	3,665.45	3,656.83	13.87	12.86	-65.47	33.24	2,060.51	2,054.26	2,035.62	18.64	110.198				
4,100.00	4,097.03	3,764.51	3,754.20	14.22	13.24	-65.42	25.79	2,077.13	2,067.84	2,048.71	19.14	108.061				
4,200.00	4,196.78	3,863.56	3,851.56	14.58	13.62	-65.36	18.34	2,093.74	2,081.43	2,061.79	19.63	106.017				
4,300.00	4,296.54	3,962.62	3,948.93	14.93	14.02	-65.31	10.89	2,110.36	2,095.01	2,074.88	20.13	104.061				
4,400.00	4,396.30	4,061.67	4,046.30	15.28	14.41	-65.26	3.45	2,126.97	2,108.60	2,087.97	20.63	102.189				
4,500.00	4,496.05	4,160.72	4,143.66	15.64	14.81	-65.21	-4.00	2,143.59	2,122.19	2,101.05	21.14	100.396				
4,600.00	4,495.81	4,259.78	4,241.03	16.00	15.22	-65.16	-11.45	2,160.20	2,135.78	2,114.14	21.64	98.678				
4,700.00	4,495.57	4,358.83	4,338.40	16.36	15.62	-65.11	-18.90	2,176.82	2,149.38	2,127.23	22.15	97.031				
4,800.00	4,495.32	4,457.89	4,435.76	16.71	16.03	-65.06	-26.35	2,193.44	2,162.97	2,140.31	22.66	95.450				
4,900.00	4,495.08	4,556.94	4,533.13	17.07	16.45	-65.01	-33.80	2,210.05	2,176.57	2,153.40	23.17	93.932				

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 Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,994.84	4,656.00	4,630.49	17.43	16.86	-64.96	-41.25	2,226.67	2,190.17	2,166.48	23.68	92.475		
5,100.00	5,094.59	4,755.05	4,727.86	17.79	17.28	-64.91	-48.69	2,243.28	2,203.77	2,179.57	24.20	91.074		
5,200.00	5,194.35	4,854.10	4,825.23	18.16	17.70	-64.86	-56.14	2,259.90	2,217.37	2,192.66	24.71	89.727		
5,300.00	5,294.11	4,953.16	4,922.59	18.52	18.12	-64.82	-63.59	2,276.51	2,230.97	2,205.74	25.23	88.430		
5,400.00	5,393.86	5,052.21	5,019.96	18.88	18.54	-64.77	-71.04	2,293.13	2,244.58	2,218.83	25.75	87.182		
5,500.00	5,493.62	5,151.27	5,117.33	19.24	18.97	-64.73	-78.49	2,309.74	2,258.18	2,231.92	26.26	85.980		
5,600.00	5,593.38	5,250.32	5,214.69	19.61	19.40	-64.68	-85.94	2,326.36	2,271.79	2,245.01	26.78	84.821		
5,700.00	5,693.13	5,349.38	5,312.06	19.97	19.83	-64.64	-93.38	2,342.97	2,285.40	2,258.09	27.30	83.704		
5,800.00	5,792.89	5,448.43	5,409.42	20.34	20.26	-64.59	-100.83	2,359.59	2,299.01	2,271.18	27.82	82.626		
5,900.00	5,892.65	5,547.48	5,506.79	20.70	20.69	-64.55	-108.28	2,376.20	2,312.62	2,284.27	28.35	81.585		
6,000.00	5,992.40	5,646.54	5,604.16	21.07	21.12	-64.51	-115.73	2,392.82	2,326.23	2,297.36	28.87	80.580		
6,100.00	6,092.16	5,745.59	5,701.52	21.43	21.56	-64.46	-123.18	2,409.43	2,339.84	2,310.45	29.39	79.608		
6,200.00	6,191.92	5,844.65	5,798.89	21.80	21.99	-64.42	-130.63	2,426.05	2,353.46	2,323.54	29.92	78.669		
6,300.00	6,291.67	5,943.70	5,896.26	22.17	22.43	-64.38	-138.07	2,442.67	2,367.07	2,336.63	30.44	77.760		
6,400.00	6,391.43	6,042.76	5,993.62	22.53	22.87	-64.34	-145.52	2,459.28	2,380.69	2,349.73	30.97	76.881		
6,500.00	6,491.19	6,141.81	6,090.99	22.90	23.31	-64.30	-152.97	2,475.90	2,394.31	2,362.82	31.49	76.030		
6,600.00	6,590.94	6,240.86	6,188.36	23.27	23.75	-64.26	-160.42	2,492.51	2,407.93	2,375.91	32.02	75.205		
6,700.00	6,690.70	6,339.92	6,285.72	23.64	24.19	-64.22	-167.87	2,509.13	2,421.55	2,389.00	32.54	74.406		
6,800.00	6,790.46	6,438.97	6,383.09	24.00	24.63	-64.18	-175.32	2,525.74	2,435.17	2,402.10	33.07	73.632		
6,900.00	6,890.21	6,538.03	6,480.45	24.37	25.07	-64.14	-182.77	2,542.36	2,448.79	2,415.19	33.60	72.880		
7,000.00	6,989.97	6,637.08	6,577.82	24.74	25.51	-64.10	-190.21	2,558.97	2,462.42	2,428.29	34.13	72.151		
7,100.00	7,089.73	6,736.13	6,675.19	25.11	25.96	-64.07	-197.66	2,575.59	2,476.04	2,441.39	34.66	71.444		
7,200.00	7,189.48	6,835.19	6,772.55	25.48	26.40	-64.03	-205.11	2,592.20	2,489.67	2,454.48	35.19	70.757		
7,300.00	7,289.24	6,934.24	6,869.92	25.85	26.85	-63.99	-212.56	2,608.82	2,503.30	2,467.58	35.72	70.089		
7,400.00	7,389.00	7,033.30	6,967.29	26.22	27.29	-63.95	-220.01	2,625.43	2,516.92	2,480.68	36.25	69.441		
7,504.97	7,493.71	7,137.28	7,069.49	26.61	27.76	-63.92	-227.83	2,642.88	2,531.23	2,494.43	36.80	68.779		
7,600.00	7,588.58	7,231.31	7,161.92	26.95	28.18	-64.04	-234.90	2,658.65	2,544.70	2,507.39	37.30	68.216		
7,700.00	7,688.53	7,330.01	7,258.94	27.31	28.63	-64.14	-242.32	2,675.20	2,559.98	2,522.16	37.82	67.683		
7,771.47	7,760.00	7,400.36	7,328.09	27.56	28.95	88.85	-247.61	2,687.00	2,571.60	2,533.42	38.19	67.343		
7,800.00	7,788.53	7,469.78	7,396.44	27.66	29.26	88.97	-252.59	2,698.11	2,576.15	2,537.66	38.49	66.931		
7,900.00	7,888.53	7,679.36	7,603.97	27.99	30.13	89.24	-264.44	2,724.55	2,588.21	2,548.84	39.37	65.735		
8,000.00	7,988.53	7,786.40	7,710.11	28.33	31.27	89.45	-273.57	2,744.92	2,594.24	2,553.82	40.42	64.188		
8,100.00	8,088.53	8,161.64	8,085.33	28.66	31.83	89.47	-274.37	2,746.70	2,594.91	2,553.88	41.03	63.238		
8,200.00	8,188.53	8,261.64	8,185.33	29.00	32.14	89.47	-274.37	2,746.70	2,594.91	2,553.41	41.51	62.518		
8,300.00	8,288.53	8,361.64	8,285.33	29.34	32.45	89.47	-274.37	2,746.70	2,594.91	2,552.93	41.98	61.813		
8,400.00	8,388.53	8,461.64	8,385.33	29.68	32.77	89.47	-274.37	2,746.70	2,594.91	2,552.46	42.45	61.122		
8,500.00	8,488.53	8,561.64	8,485.33	30.02	33.08	89.47	-274.37	2,746.70	2,594.91	2,551.98	42.93	60.446		
8,600.00	8,588.53	8,661.64	8,585.33	30.36	33.39	89.47	-274.37	2,746.70	2,594.91	2,551.51	43.41	59.783		
8,700.00	8,688.53	8,761.64	8,685.33	30.70	33.71	89.47	-274.37	2,746.70	2,594.91	2,551.03	43.88	59.134		
8,800.00	8,788.53	8,861.64	8,785.33	31.04	34.03	89.47	-274.37	2,746.70	2,594.91	2,550.55	44.36	58.498		
8,900.00	8,888.53	8,961.64	8,885.33	31.38	34.34	89.47	-274.37	2,746.70	2,594.91	2,550.08	44.84	57.875		
9,000.00	8,988.53	9,061.64	8,985.33	31.72	34.66	89.47	-274.37	2,746.70	2,594.91	2,549.60	45.32	57.264		
9,100.00	9,088.53	9,161.64	9,085.33	32.06	34.98	89.47	-274.37	2,746.70	2,594.91	2,549.12	45.79	56.665		
9,200.00	9,188.53	9,261.64	9,185.33	32.40	35.30	89.47	-274.37	2,746.70	2,594.91	2,548.64	46.27	56.077		
9,300.00	9,288.53	9,361.64	9,285.33	32.75	35.62	89.47	-274.37	2,746.70	2,594.91	2,548.16	46.75	55.501		
9,400.00	9,388.53	9,461.64	9,385.33	33.09	35.94	89.47	-274.37	2,746.70	2,594.91	2,547.68	47.23	54.936		
9,500.00	9,488.53	9,561.64	9,485.33	33.43	36.26	89.47	-274.37	2,746.70	2,594.91	2,547.20	47.72	54.382		
9,600.00	9,588.53	9,661.64	9,585.33	33.77	36.59	89.47	-274.37	2,746.70	2,594.91	2,546.71	48.20	53.839		
9,700.00	9,688.53	9,761.64	9,685.33	34.12	36.91	89.47	-274.37	2,746.70	2,594.91	2,546.23	48.68	53.305		
9,800.00	9,788.53	9,861.64	9,785.33	34.46	37.23	89.47	-274.37	2,746.70	2,594.91	2,545.75	49.16	52.782		
9,900.00	9,888.53	9,961.64	9,885.33	34.81	37.56	89.47	-274.37	2,746.70	2,594.91	2,545.27	49.65	52.268		
10,000.00	9,988.53	10,061.64	9,985.33	35.15	37.88	89.47	-274.37	2,746.70	2,594.91	2,544.78	50.13	51.763		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	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	10,088.53	10,161.64	10,085.33	35.50	38.21	89.47	-274.37	2,746.70	2,594.91	2,544.30	50.61	51.268		
10,200.00	10,188.53	10,261.64	10,185.33	35.84	38.53	89.47	-274.37	2,746.70	2,594.91	2,543.81	51.10	50.782		
10,300.00	10,288.53	10,361.64	10,285.33	36.19	38.86	89.47	-274.37	2,746.70	2,594.91	2,543.33	51.58	50.304		
10,400.00	10,388.53	10,461.64	10,385.33	36.53	39.19	89.47	-274.37	2,746.70	2,594.91	2,542.84	52.07	49.835		
10,500.00	10,488.53	10,561.64	10,485.33	36.88	39.52	89.47	-274.37	2,746.70	2,594.91	2,542.36	52.56	49.374		
10,600.00	10,588.53	10,661.64	10,585.33	37.22	39.84	89.47	-274.37	2,746.70	2,594.91	2,541.87	53.04	48.922		
10,700.00	10,688.53	10,761.64	10,685.33	37.57	40.17	89.47	-274.37	2,746.70	2,594.91	2,541.38	53.53	48.477		
10,800.00	10,788.53	10,861.64	10,785.33	37.92	40.50	89.47	-274.37	2,746.70	2,594.91	2,540.90	54.02	48.040		
10,900.00	10,888.53	10,961.64	10,885.33	38.26	40.83	89.47	-274.37	2,746.70	2,594.91	2,540.41	54.50	47.610		
11,000.00	10,988.53	11,061.64	10,985.33	38.61	41.16	89.47	-274.37	2,746.70	2,594.91	2,539.92	54.99	47.188		
11,100.00	11,088.53	11,161.64	11,085.33	38.96	41.49	89.47	-274.37	2,746.70	2,594.91	2,539.43	55.48	46.773		
11,200.00	11,188.53	11,261.64	11,185.33	39.30	41.82	89.47	-274.37	2,746.70	2,594.91	2,538.95	55.97	46.364		
11,213.72	11,202.24	11,275.35	11,199.04	39.35	41.87	89.47	-274.37	2,746.70	2,594.91	2,538.88	56.03	46.309		
11,300.00	11,288.53	11,361.62	11,285.31	39.65	42.16	89.47	-274.43	2,746.70	2,594.91	2,538.46	56.46	45.963		
11,400.00	11,388.53	11,460.15	11,383.22	40.00	42.49	89.69	-284.30	2,746.80	2,594.94	2,537.99	56.94	45.570		
11,500.00	11,488.53	11,562.72	11,472.41	40.35	42.82	90.22	-308.72	2,747.04	2,595.19	2,537.76	57.43	45.189		
11,600.00	11,588.53	11,635.65	11,548.05	40.70	43.13	90.97	-342.54	2,747.37	2,596.11	2,538.21	57.90	44.837		
11,694.47	11,683.00	11,700.00	11,602.92	41.02	43.37	91.71	-376.09	2,747.70	2,598.09	2,539.78	58.31	44.554		
11,700.00	11,688.53	11,707.50	11,609.05	41.04	43.40	-87.68	-380.39	2,747.74	2,598.25	2,539.90	58.35	44.531		
11,750.00	11,738.44	11,740.54	11,635.41	41.22	43.53	-87.11	-400.31	2,747.93	2,599.82	2,541.25	58.56	44.393		
11,800.00	11,787.93	11,773.00	11,660.15	41.40	43.65	-86.55	-421.32	2,748.14	2,601.60	2,542.82	58.78	44.257		
11,850.00	11,836.62	11,800.00	11,679.79	41.59	43.76	-86.06	-439.84	2,748.32	2,603.56	2,544.57	58.99	44.134		
11,900.00	11,884.15	11,836.50	11,704.92	41.78	43.90	-85.46	-466.31	2,748.58	2,605.63	2,546.40	59.23	43.991		
11,950.00	11,930.14	11,867.68	11,725.00	41.98	44.03	-84.94	-490.14	2,748.82	2,607.79	2,548.33	59.46	43.860		
12,000.00	11,974.25	11,900.00	11,744.43	42.18	44.16	-84.42	-515.97	2,749.07	2,609.99	2,550.30	59.69	43.725		
12,050.00	12,016.15	11,929.12	11,760.66	42.39	44.28	-83.96	-540.14	2,749.31	2,612.18	2,552.26	59.92	43.594		
12,100.00	12,055.51	11,959.47	11,776.24	42.60	44.41	-83.50	-566.18	2,749.56	2,614.33	2,554.17	60.16	43.458		
12,150.00	12,092.03	11,989.61	11,790.34	42.82	44.54	-83.08	-592.82	2,749.82	2,616.40	2,556.00	60.40	43.317		
12,200.00	12,125.44	12,019.59	11,802.94	43.04	44.67	-82.70	-620.01	2,750.09	2,618.35	2,557.70	60.65	43.172		
12,250.00	12,155.49	12,050.00	11,814.26	43.27	44.81	-82.35	-648.24	2,750.37	2,620.15	2,559.24	60.91	43.018		
12,300.00	12,181.94	12,079.11	11,823.68	43.50	44.95	-82.05	-675.78	2,750.64	2,621.77	2,560.60	61.17	42.860		
12,350.00	12,204.59	12,100.00	11,829.57	43.75	45.05	-81.82	-695.82	2,750.83	2,623.21	2,561.80	61.42	42.712		
12,400.00	12,223.27	12,138.23	11,838.44	43.99	45.23	-81.57	-732.99	2,751.20	2,624.38	2,562.66	61.73	42.516		
12,450.00	12,237.84	12,167.68	11,843.57	44.24	45.38	-81.40	-761.99	2,751.48	2,625.33	2,563.32	62.02	42.331		
12,500.00	12,248.19	12,200.00	11,847.48	44.50	45.54	-81.27	-794.07	2,751.80	2,626.03	2,563.70	62.33	42.132		
12,550.00	12,254.23	12,226.46	11,849.33	44.76	45.68	-81.20	-820.46	2,752.05	2,626.45	2,563.82	62.63	41.937		
12,588.27	12,255.92	12,253.60	11,850.07	44.96	45.82	-81.18	-847.59	2,752.32	2,626.58	2,563.70	62.88	41.769		
12,600.00	12,256.05	12,265.34	11,850.30	45.02	45.88	-81.18	-859.32	2,752.44	2,626.58	2,563.61	62.97	41.710		
12,700.00	12,257.13	12,365.33	11,852.22	45.57	46.44	-81.20	-959.29	2,753.42	2,626.56	2,562.78	63.78	41.183		
12,800.00	12,258.22	12,465.33	11,854.14	46.18	47.06	-81.22	-1,059.26	2,754.40	2,626.54	2,561.88	64.65	40.625		
12,900.00	12,259.30	12,565.32	11,856.06	46.83	47.72	-81.24	-1,159.24	2,755.38	2,626.51	2,560.92	65.60	40.040		
13,000.00	12,260.38	12,665.32	11,857.99	47.54	48.43	-81.26	-1,259.21	2,756.36	2,626.49	2,559.88	66.61	39.430		
13,100.00	12,261.47	12,765.32	11,859.91	48.29	49.18	-81.28	-1,359.18	2,757.34	2,626.47	2,558.78	67.69	38.802		
13,200.00	12,262.55	12,865.31	11,861.83	49.08	49.98	-81.29	-1,459.16	2,758.32	2,626.45	2,557.62	68.83	38.160		
13,300.00	12,263.63	12,965.31	11,863.76	49.92	50.82	-81.31	-1,559.13	2,759.30	2,626.43	2,556.41	70.02	37.508		
13,400.00	12,264.71	13,065.31	11,865.68	50.80	51.70	-81.33	-1,659.10	2,760.28	2,626.41	2,555.14	71.27	36.849		
13,500.00	12,265.80	13,165.30	11,867.60	51.71	52.62	-81.35	-1,759.08	2,761.26	2,626.39	2,553.81	72.58	36.187		
13,600.00	12,266.88	13,265.30	11,869.53	52.66	53.57	-81.37	-1,859.05	2,762.24	2,626.37	2,552.44	73.93	35.525		
13,700.00	12,267.96	13,365.30	11,871.45	53.64	54.55	-81.39	-1,959.02	2,763.22	2,626.35	2,551.02	75.33	34.864		
13,800.00	12,269.05	13,465.29	11,873.37	54.66	55.57	-81.41	-2,059.00	2,764.20	2,626.33	2,549.56	76.78	34.208		
13,900.00	12,270.13	13,565.29	11,875.30	55.71	56.62	-81.42	-2,158.97	2,765.18	2,626.31	2,548.05	78.26	33.558		
14,000.00	12,271.21	13,665.28	11,877.22	56.78	57.69	-81.44	-2,258.94	2,766.16	2,626.30	2,546.51	79.79	32.915		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	12,272.30	13,765.28	11,879.14	57.89	58.79	-81.46	-2,358.91	2,767.14	2,626.28	2,544.92	81.35	32.282		
14,200.00	12,273.38	13,865.28	11,881.07	59.01	59.92	-81.48	-2,458.89	2,768.12	2,626.26	2,543.31	82.95	31.660		
14,300.00	12,274.46	13,965.27	11,882.99	60.17	61.07	-81.50	-2,558.86	2,769.10	2,626.24	2,541.66	84.59	31.048		
14,400.00	12,275.54	14,065.27	11,884.91	61.34	62.25	-81.52	-2,658.83	2,770.08	2,626.22	2,539.97	86.25	30.449		
14,500.00	12,276.63	14,165.27	11,886.84	62.54	63.44	-81.53	-2,758.81	2,771.06	2,626.21	2,538.26	87.94	29.862		
14,600.00	12,277.71	14,265.26	11,888.76	63.76	64.66	-81.55	-2,858.78	2,772.04	2,626.19	2,536.52	89.67	29.288		
14,700.00	12,278.79	14,365.26	11,890.68	64.99	65.89	-81.57	-2,958.75	2,773.02	2,626.17	2,534.76	91.41	28.728		
14,800.00	12,279.88	14,465.26	11,892.61	66.25	67.14	-81.59	-3,058.73	2,774.00	2,626.16	2,532.97	93.19	28.181		
14,900.00	12,280.96	14,565.25	11,894.53	67.52	68.41	-81.61	-3,158.70	2,774.98	2,626.14	2,531.16	94.99	27.648		
15,000.00	12,282.04	14,665.25	11,896.45	68.81	69.70	-81.63	-3,258.67	2,775.96	2,626.13	2,529.32	96.81	27.128		
15,100.00	12,283.12	14,765.25	11,898.38	70.11	71.00	-81.65	-3,358.65	2,776.94	2,626.11	2,527.46	98.65	26.622		
15,200.00	12,284.21	14,865.24	11,900.30	71.43	72.31	-81.66	-3,458.62	2,777.92	2,626.09	2,525.59	100.51	26.129		
15,300.00	12,285.29	14,965.24	11,902.22	72.76	73.64	-81.68	-3,558.59	2,778.90	2,626.08	2,523.69	102.39	25.649		
15,400.00	12,286.37	15,065.23	11,904.14	74.11	74.98	-81.70	-3,658.56	2,779.88	2,626.07	2,521.78	104.28	25.182		
15,500.00	12,287.46	15,165.23	11,906.07	75.46	76.34	-81.72	-3,758.54	2,780.86	2,626.05	2,519.85	106.20	24.728		
15,600.00	12,288.54	15,265.23	11,907.99	76.83	77.70	-81.74	-3,858.51	2,781.84	2,626.04	2,517.91	108.13	24.287		
15,700.00	12,289.62	15,365.22	11,909.91	78.21	79.08	-81.76	-3,958.48	2,782.82	2,626.02	2,515.95	110.07	23.857		
15,800.00	12,290.71	15,465.22	11,911.84	79.60	80.46	-81.77	-4,058.46	2,783.80	2,626.01	2,513.98	112.03	23.440		
15,900.00	12,291.79	15,565.22	11,913.76	81.00	81.86	-81.79	-4,158.43	2,784.78	2,626.00	2,511.99	114.01	23.034		
16,000.00	12,292.87	15,665.21	11,915.68	82.41	83.26	-81.81	-4,258.40	2,785.76	2,625.98	2,509.99	115.99	22.639		
16,100.00	12,293.95	15,765.21	11,917.61	83.83	84.68	-81.83	-4,358.38	2,786.74	2,625.97	2,507.98	117.99	22.256		
16,200.00	12,295.04	15,865.21	11,919.53	85.25	86.10	-81.85	-4,458.35	2,787.72	2,625.96	2,505.96	120.00	21.883		
16,300.00	12,296.12	15,965.20	11,921.45	86.69	87.53	-81.87	-4,558.32	2,788.70	2,625.95	2,503.92	122.02	21.520		
16,400.00	12,297.20	16,065.20	11,923.38	88.13	88.97	-81.89	-4,658.30	2,789.68	2,625.93	2,501.88	124.06	21.167		
16,500.00	12,298.29	16,165.20	11,925.30	89.58	90.42	-81.90	-4,758.27	2,790.66	2,625.92	2,499.82	126.10	20.825		
16,600.00	12,299.37	16,265.19	11,927.22	91.03	91.87	-81.92	-4,858.24	2,791.64	2,625.91	2,497.76	128.15	20.491		
16,700.00	12,300.45	16,365.19	11,929.15	92.50	93.33	-81.94	-4,958.22	2,792.62	2,625.90	2,495.69	130.21	20.167		
16,800.00	12,301.53	16,465.18	11,931.07	93.97	94.79	-81.96	-5,058.19	2,793.60	2,625.89	2,493.61	132.28	19.851		
16,900.00	12,302.62	16,565.18	11,932.99	95.44	96.27	-81.98	-5,158.16	2,794.58	2,625.88	2,491.52	134.36	19.544		
17,000.00	12,303.70	16,665.18	11,934.92	96.92	97.74	-82.00	-5,258.13	2,795.56	2,625.87	2,489.43	136.44	19.245		
17,100.00	12,304.78	16,765.17	11,936.84	98.41	99.23	-82.01	-5,358.11	2,796.54	2,625.86	2,487.32	138.53	18.954		
17,200.00	12,305.87	16,865.17	11,938.76	99.90	100.72	-82.03	-5,458.08	2,797.52	2,625.85	2,485.21	140.64	18.671		
17,300.00	12,306.95	16,965.17	11,940.69	101.39	102.21	-82.05	-5,558.05	2,798.50	2,625.84	2,483.10	142.74	18.396		
17,400.00	12,308.03	17,065.16	11,942.61	102.90	103.71	-82.07	-5,658.03	2,799.48	2,625.83	2,480.97	144.86	18.127		
17,500.00	12,309.12	17,165.16	11,944.53	104.40	105.21	-82.09	-5,758.00	2,800.46	2,625.82	2,478.84	146.98	17.865		
17,600.00	12,310.20	17,265.16	11,946.46	105.91	106.72	-82.11	-5,857.97	2,801.44	2,625.81	2,476.71	149.10	17.611		
17,700.00	12,311.28	17,365.15	11,948.38	107.43	108.23	-82.13	-5,957.95	2,802.42	2,625.80	2,474.57	151.24	17.362		
17,800.00	12,312.36	17,465.15	11,950.30	108.94	109.74	-82.14	-6,057.92	2,803.40	2,625.79	2,472.42	153.37	17.120		
17,900.00	12,313.45	17,565.14	11,952.22	110.47	111.26	-82.16	-6,157.89	2,804.38	2,625.79	2,470.27	155.52	16.884		
18,000.00	12,314.53	17,665.14	11,954.15	111.99	112.79	-82.18	-6,257.87	2,805.36	2,625.78	2,468.11	157.67	16.654		
18,100.00	12,315.61	17,765.14	11,956.07	113.52	114.31	-82.20	-6,357.84	2,806.35	2,625.77	2,465.95	159.82	16.430		
18,200.00	12,316.70	17,865.13	11,957.99	115.05	115.84	-82.22	-6,457.81	2,807.33	2,625.76	2,463.79	161.98	16.211		
18,300.00	12,317.78	17,965.13	11,959.92	116.59	117.38	-82.24	-6,557.79	2,808.31	2,625.76	2,461.62	164.14	15.997		
18,400.00	12,318.86	18,065.13	11,961.84	118.13	118.91	-82.26	-6,657.76	2,809.29	2,625.75	2,459.44	166.31	15.788		
18,500.00	12,319.94	18,165.12	11,963.76	119.67	120.45	-82.27	-6,757.73	2,810.27	2,625.74	2,457.26	168.48	15.585		
18,600.00	12,321.03	18,265.12	11,965.69	121.22	121.99	-82.29	-6,857.70	2,811.25	2,625.74	2,455.08	170.66	15.386		
18,700.00	12,322.11	18,365.12	11,967.61	122.76	123.54	-82.31	-6,957.68	2,812.23	2,625.73	2,452.90	172.84	15.192		
18,800.00	12,323.19	18,465.11	11,969.53	124.32	125.09	-82.33	-7,057.65	2,813.21	2,625.73	2,450.71	175.02	15.002		
18,900.00	12,324.28	18,565.11	11,971.46	125.87	126.64	-82.35	-7,157.62	2,814.19	2,625.72	2,448.51	177.21	14.817		
19,000.00	12,325.36	18,665.11	11,973.38	127.42	128.19	-82.37	-7,257.60	2,815.17	2,625.72	2,446.32	179.40	14.636		
19,100.00	12,326.44	18,765.10	11,975.30	128.98	129.75	-82.38	-7,357.57	2,816.15	2,625.71	2,444.12	181.60	14.459		
19,200.00	12,327.53	18,865.10	11,977.23	130.54	131.30	-82.40	-7,457.54	2,817.13	2,625.71	2,441.92	183.79	14.286		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	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	12,328.61	18,965.09	11,979.15	132.11	132.86	-82.42	-7,557.52	2,818.11	2,625.70	2,439.71	185.99	14.117		
19,400.00	12,329.69	19,065.09	11,981.07	133.67	134.43	-82.44	-7,657.49	2,819.09	2,625.70	2,437.50	188.20	13.952		
19,500.00	12,330.77	19,165.09	11,983.00	135.24	135.99	-82.46	-7,757.46	2,820.07	2,625.70	2,435.29	190.41	13.790		
19,600.00	12,331.86	19,265.08	11,984.92	136.81	137.56	-82.48	-7,857.44	2,821.05	2,625.69	2,433.08	192.62	13.632		
19,700.00	12,332.94	19,365.08	11,986.84	138.38	139.13	-82.50	-7,957.41	2,822.03	2,625.69	2,430.86	194.83	13.477		
19,800.00	12,334.02	19,465.08	11,988.77	139.95	140.70	-82.51	-8,057.38	2,823.01	2,625.69	2,428.64	197.04	13.325		
19,900.00	12,335.11	19,565.07	11,990.69	141.52	142.27	-82.53	-8,157.35	2,823.99	2,625.69	2,426.42	199.26	13.177		
20,000.00	12,336.19	19,665.07	11,992.61	143.10	143.84	-82.55	-8,257.33	2,824.97	2,625.68	2,424.20	201.48	13.032		
20,100.00	12,337.27	19,765.07	11,994.54	144.68	145.42	-82.57	-8,357.30	2,825.95	2,625.68	2,421.97	203.71	12.889		
20,200.00	12,338.35	19,865.06	11,996.46	146.26	147.00	-82.59	-8,457.27	2,826.93	2,625.68	2,419.75	205.93	12.750		
20,300.00	12,339.44	19,965.06	11,998.38	147.84	148.57	-82.61	-8,557.25	2,827.91	2,625.68	2,417.52	208.16	12.614		
20,400.00	12,340.52	20,065.06	12,000.30	149.42	150.16	-82.63	-8,657.22	2,828.89	2,625.68	2,415.29	210.39	12.480		
20,500.00	12,341.60	20,165.05	12,002.23	151.01	151.74	-82.64	-8,757.19	2,829.87	2,625.68	2,413.05	212.62	12.349		
20,600.00	12,342.69	20,265.05	12,004.15	152.59	153.32	-82.66	-8,857.17	2,830.85	2,625.68	2,410.82	214.86	12.220		
20,700.00	12,343.77	20,365.04	12,006.07	154.18	154.91	-82.68	-8,957.14	2,831.83	2,625.68	2,408.58	217.10	12.095		
20,727.16	12,344.06	20,392.20	12,006.60	154.61	155.34	-82.69	-8,984.29	2,832.10	2,625.68	2,407.97	217.70	12.061		
20,800.00	12,344.85	20,465.04	12,008.00	155.77	156.49	-82.70	-9,057.11	2,832.81	2,625.68	2,406.34	219.33	11.971		
20,900.00	12,345.94	20,565.04	12,009.92	157.36	158.08	-82.72	-9,157.09	2,833.79	2,625.68	2,404.10	221.58	11.850		
21,000.00	12,347.02	20,665.03	12,011.84	158.95	159.67	-82.74	-9,257.06	2,834.77	2,625.68	2,401.86	223.82	11.731		
21,100.00	12,348.10	20,765.03	12,013.77	160.54	161.26	-82.75	-9,357.03	2,835.75	2,625.68	2,399.62	226.06	11.615		
21,200.00	12,349.18	20,865.03	12,015.69	162.13	162.85	-82.77	-9,457.01	2,836.73	2,625.68	2,397.37	228.31	11.501		
21,300.00	12,350.27	20,965.02	12,017.61	163.73	164.44	-82.79	-9,556.98	2,837.71	2,625.68	2,395.13	230.56	11.388		
21,400.00	12,351.35	21,065.02	12,019.54	165.32	166.04	-82.81	-9,656.95	2,838.69	2,625.68	2,392.88	232.81	11.278		
21,500.00	12,352.43	21,165.02	12,021.46	166.92	167.63	-82.83	-9,756.92	2,839.67	2,625.69	2,390.63	235.06	11.170		
21,600.00	12,353.52	21,265.01	12,023.38	168.52	169.23	-82.85	-9,856.90	2,840.65	2,625.69	2,388.38	237.31	11.064		
21,700.00	12,354.60	21,365.01	12,025.31	170.12	170.83	-82.87	-9,956.87	2,841.63	2,625.69	2,386.13	239.56	10.960		
21,800.00	12,355.68	21,465.01	12,027.23	171.72	172.42	-82.88	-10,056.84	2,842.61	2,625.69	2,383.87	241.82	10.858		
21,900.00	12,356.76	21,565.00	12,029.15	173.32	174.02	-82.90	-10,156.82	2,843.59	2,625.70	2,381.62	244.08	10.758		
22,000.00	12,357.85	21,665.00	12,031.08	174.92	175.62	-82.92	-10,256.79	2,844.57	2,625.70	2,379.36	246.34	10.659		
22,100.00	12,358.93	21,764.99	12,033.00	176.52	177.22	-82.94	-10,356.76	2,845.55	2,625.70	2,377.11	248.60	10.562		
22,200.00	12,360.01	21,864.99	12,034.92	178.13	178.83	-82.96	-10,456.74	2,846.53	2,625.71	2,374.85	250.86	10.467		
22,300.00	12,361.10	21,964.99	12,036.85	179.73	180.43	-82.98	-10,556.71	2,847.51	2,625.71	2,372.59	253.12	10.373		
22,389.94	12,362.07	22,054.92	12,038.58	181.18	181.87	-82.99	-10,646.62	2,848.39	2,625.71	2,370.56	255.16	10.291		
22,390.61	12,362.08	22,055.59	12,038.59	181.19	181.88	-82.99	-10,647.29	2,848.40	2,625.71	2,370.54	255.17	10.290 SF		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	87.62	79.86	1,920.78	1,922.44					
100.00	100.00	96.80	96.80	0.14	0.12	87.62	79.86	1,920.78	1,922.44	1,922.25	0.19	N/A		
200.00	200.00	196.80	196.80	0.50	0.47	87.62	79.86	1,920.78	1,922.44	1,921.75	0.69	2,794.397		
300.00	300.00	296.80	296.80	0.86	0.83	87.62	79.86	1,920.78	1,922.44	1,921.24	1.19	1,609.005		
400.00	400.00	396.80	396.80	1.22	1.19	87.62	79.86	1,920.78	1,922.44	1,920.74	1.70	1,129.712		
500.00	500.00	496.80	496.80	1.58	1.55	87.62	79.86	1,920.78	1,922.44	1,920.23	2.21	870.419		
600.00	600.00	596.80	596.80	1.93	1.91	87.62	79.86	1,920.78	1,922.44	1,919.72	2.72	707.931		
700.00	700.00	696.80	696.80	2.29	2.26	87.62	79.86	1,920.78	1,922.44	1,919.22	3.22	596.564		
800.00	800.00	796.80	796.80	2.65	2.62	87.62	79.86	1,920.78	1,922.44	1,918.71	3.73	515.473		
900.00	900.00	896.80	896.80	3.01	2.98	87.62	79.86	1,920.78	1,922.44	1,918.20	4.24	453.789		
1,000.00	1,000.00	996.80	996.80	3.37	3.34	87.62	79.86	1,920.78	1,922.44	1,917.70	4.74	405.290		
1,100.00	1,100.00	1,096.80	1,096.80	3.73	3.70	87.62	79.86	1,920.78	1,922.44	1,917.19	5.25	366.157		
1,200.00	1,200.00	1,196.80	1,196.80	4.08	4.06	87.62	79.86	1,920.78	1,922.44	1,916.68	5.76	333.915		
1,300.00	1,300.00	1,296.80	1,296.80	4.44	4.42	87.62	79.86	1,920.78	1,922.44	1,916.18	6.26	306.892		
1,400.00	1,400.00	1,396.80	1,396.80	4.80	4.77	87.62	79.86	1,920.78	1,922.44	1,915.67	6.77	283.915		
1,500.00	1,500.00	1,496.80	1,496.80	5.16	5.13	87.62	79.86	1,920.78	1,922.44	1,915.16	7.28	264.139		
1,600.00	1,600.00	1,596.80	1,596.80	5.52	5.49	87.62	79.86	1,920.78	1,922.44	1,914.65	7.79	246.939		
1,700.00	1,700.00	1,696.80	1,696.80	5.88	5.85	87.62	79.86	1,920.78	1,922.44	1,914.15	8.29	231.842		
1,800.00	1,800.00	1,796.80	1,796.80	6.24	6.21	87.62	79.86	1,920.78	1,922.44	1,913.64	8.80	218.484		
1,900.00	1,900.00	1,896.80	1,896.80	6.59	6.57	87.62	79.86	1,920.78	1,922.44	1,913.13	9.31	206.582		
2,000.00	2,000.00	1,996.80	1,996.80	6.95	6.92	87.62	79.86	1,920.78	1,922.44	1,912.63	9.81	195.909		
2,100.00	2,100.00	2,096.80	2,096.80	7.31	7.28	87.62	79.86	1,920.78	1,922.44	1,912.12	10.32	186.286		
2,200.00	2,200.00	2,196.80	2,196.80	7.67	7.64	87.62	79.86	1,920.78	1,922.44	1,911.61	10.83	177.563		
2,300.00	2,300.00	2,296.80	2,296.80	8.03	8.00	87.62	79.86	1,920.78	1,922.44	1,911.11	11.33	169.621		
2,400.00	2,400.00	2,396.80	2,396.80	8.39	8.36	87.62	79.86	1,920.78	1,922.44	1,910.60	11.84	162.358		
2,500.00	2,500.00	2,496.80	2,496.80	8.74	8.72	87.62	79.86	1,920.78	1,922.44	1,910.09	12.35	155.692		
2,600.00	2,600.00	2,596.80	2,596.80	9.10	9.08	87.62	79.86	1,920.78	1,922.44	1,909.58	12.85	149.552		
2,700.00	2,700.00	2,696.80	2,696.80	9.46	9.43	87.62	79.86	1,920.78	1,922.44	1,909.08	13.36	143.878		
2,800.00	2,799.99	2,796.79	2,796.79	9.80	9.79	-65.46	79.86	1,920.78	1,921.90	1,908.04	13.86	138.704		
2,900.00	2,899.91	2,896.71	2,896.71	10.13	10.15	-65.59	79.86	1,920.78	1,920.27	1,905.93	14.34	133.918		
2,966.50	2,966.29	2,963.09	2,963.09	10.35	10.39	-65.72	79.86	1,920.78	1,918.59	1,903.93	14.66	130.863		
3,000.00	2,999.70	2,996.50	2,996.50	10.46	10.51	-65.78	79.86	1,920.78	1,917.63	1,902.81	14.82	129.364		
3,100.00	3,099.46	3,090.65	3,090.65	10.79	10.84	-65.96	79.81	1,920.81	1,914.81	1,899.52	15.29	125.208		
3,200.00	3,199.22	3,169.24	3,169.22	11.12	11.10	-66.08	78.81	1,921.53	1,912.82	1,897.11	15.71	121.763		
3,300.00	3,298.97	3,247.96	3,247.89	11.46	11.36	-66.16	76.49	1,923.20	1,911.95	1,895.83	16.13	118.563		
3,328.31	3,327.21	3,270.26	3,270.17	11.55	11.43	-66.17	75.60	1,923.84	1,911.91	1,895.66	16.24	117.697 CC		
3,400.00	3,398.73	3,326.75	3,326.56	11.80	11.62	-66.20	72.85	1,925.81	1,912.19	1,895.65	16.54	115.584		
3,500.00	3,498.49	3,400.00	3,399.59	12.14	11.86	-66.19	68.29	1,929.09	1,913.55	1,896.61	16.95	112.911		
3,600.00	3,598.24	3,488.13	3,487.30	12.48	12.15	-66.15	61.32	1,934.08	1,915.98	1,898.59	17.39	110.165		
3,700.00	3,698.00	3,588.06	3,586.68	12.83	12.49	-66.07	52.83	1,940.18	1,918.80	1,900.92	17.87	107.366		
3,800.00	3,797.76	3,687.99	3,686.06	13.17	12.83	-66.00	44.34	1,946.27	1,921.61	1,903.26	18.35	104.694		
3,900.00	3,897.51	3,787.92	3,785.45	13.52	13.17	-65.93	35.86	1,952.36	1,924.43	1,905.59	18.84	102.143		
4,000.00	3,997.27	3,887.85	3,884.83	13.87	13.52	-65.85	27.37	1,958.45	1,927.26	1,907.93	19.33	99.706		
4,100.00	4,097.03	3,987.78	3,984.21	14.22	13.87	-65.78	18.88	1,964.54	1,930.08	1,910.26	19.82	97.376		
4,200.00	4,196.78	4,087.71	4,083.59	14.58	14.22	-65.71	10.39	1,970.63	1,932.91	1,912.60	20.31	95.148		
4,300.00	4,296.54	4,187.64	4,182.98	14.93	14.58	-65.64	1.90	1,976.72	1,935.74	1,914.93	20.81	93.015		
4,400.00	4,396.30	4,287.57	4,282.36	15.28	14.93	-65.57	-6.58	1,982.81	1,938.58	1,917.27	21.31	90.973		
4,500.00	4,496.05	4,387.50	4,381.74	15.64	15.29	-65.49	-15.07	1,988.90	1,941.42	1,919.61	21.81	89.017		
4,600.00	4,595.81	4,487.43	4,481.13	16.00	15.65	-65.42	-23.56	1,995.00	1,944.26	1,921.95	22.31	87.141		
4,700.00	4,695.57	4,587.36	4,580.51	16.36	16.01	-65.35	-32.05	2,001.09	1,947.10	1,924.29	22.82	85.342		
4,800.00	4,795.32	4,687.29	4,679.89	16.71	16.37	-65.28	-40.54	2,007.18	1,949.95	1,926.63	23.32	83.615		
4,900.00	4,895.08	4,787.22	4,779.27	17.07	16.74	-65.21	-49.03	2,013.27	1,952.80	1,928.97	23.83	81.956		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,994.84	4,887.15	4,878.66	17.43	17.11	-65.14	-57.51	2,019.36	1,955.65	1,931.32	24.34	80.362		
5,100.00	5,094.59	4,987.08	4,978.04	17.79	17.47	-65.07	-66.00	2,025.45	1,958.51	1,933.66	24.84	78.829		
5,200.00	5,194.35	5,087.01	5,077.42	18.16	17.84	-65.00	-74.49	2,031.54	1,961.37	1,936.01	25.36	77.354		
5,300.00	5,294.11	5,186.94	5,176.81	18.52	18.21	-64.93	-82.98	2,037.63	1,964.23	1,938.36	25.87	75.935		
5,400.00	5,393.86	5,286.88	5,276.19	18.88	18.58	-64.86	-91.47	2,043.72	1,967.09	1,940.71	26.38	74.567		
5,500.00	5,493.62	5,386.81	5,375.57	19.24	18.96	-64.79	-99.95	2,049.82	1,969.96	1,943.07	26.89	73.249		
5,600.00	5,593.38	5,486.74	5,474.95	19.61	19.33	-64.72	-108.44	2,055.91	1,972.83	1,945.42	27.41	71.978		
5,700.00	5,693.13	5,586.67	5,574.34	19.97	19.70	-64.65	-116.93	2,062.00	1,975.70	1,947.78	27.92	70.752		
5,800.00	5,792.89	5,686.60	5,673.72	20.34	20.08	-64.59	-125.42	2,068.09	1,978.58	1,950.14	28.44	69.568		
5,900.00	5,892.65	5,786.53	5,773.10	20.70	20.45	-64.52	-133.91	2,074.18	1,981.46	1,952.50	28.96	68.425		
6,000.00	5,992.40	5,886.46	5,872.49	21.07	20.83	-64.45	-142.39	2,080.27	1,984.34	1,954.87	29.48	67.320		
6,100.00	6,092.16	5,986.39	5,971.87	21.43	21.21	-64.38	-150.88	2,086.36	1,987.23	1,957.23	29.99	66.252		
6,200.00	6,191.92	6,086.32	6,071.25	21.80	21.59	-64.31	-159.37	2,092.45	1,990.11	1,959.60	30.51	65.220		
6,300.00	6,291.67	6,186.25	6,170.63	22.17	21.97	-64.24	-167.86	2,098.54	1,993.00	1,961.97	31.03	64.220		
6,400.00	6,391.43	6,286.18	6,270.02	22.53	22.34	-64.18	-176.35	2,104.63	1,995.90	1,964.34	31.55	63.252		
6,500.00	6,491.19	6,386.11	6,369.40	22.90	22.72	-64.11	-184.83	2,110.73	1,998.79	1,966.72	32.08	62.315		
6,600.00	6,590.94	6,486.04	6,468.78	23.27	23.11	-64.04	-193.32	2,116.82	2,001.69	1,969.10	32.60	61.407		
6,700.00	6,690.70	6,585.97	6,568.17	23.64	23.49	-63.98	-201.81	2,122.91	2,004.59	1,971.47	33.12	60.526		
6,800.00	6,790.46	6,685.90	6,667.55	24.00	23.87	-63.91	-210.30	2,129.00	2,007.50	1,973.86	33.64	59.673		
6,900.00	6,890.21	6,785.83	6,766.93	24.37	24.25	-63.84	-218.79	2,135.09	2,010.40	1,976.24	34.16	58.844		
7,000.00	6,989.97	6,885.76	6,866.31	24.74	24.63	-63.78	-227.28	2,141.18	2,013.31	1,978.63	34.69	58.040		
7,100.00	7,089.73	6,985.69	6,965.70	25.11	25.02	-63.71	-235.76	2,147.27	2,016.23	1,981.01	35.21	57.259		
7,200.00	7,189.48	7,085.62	7,065.08	25.48	25.40	-63.64	-244.25	2,153.36	2,019.14	1,983.40	35.74	56.501		
7,300.00	7,289.24	7,185.55	7,164.46	25.85	25.78	-63.58	-252.74	2,159.45	2,022.06	1,985.80	36.26	55.764		
7,400.00	7,389.00	7,285.49	7,263.85	26.22	26.17	-63.51	-261.23	2,165.55	2,024.98	1,988.19	36.79	55.048		
7,504.97	7,493.71	7,429.20	7,406.97	26.61	26.71	-63.47	-271.73	2,173.08	2,027.20	1,989.76	37.45	54.132		
7,600.00	7,588.58	7,566.12	7,543.68	26.95	27.21	-63.50	-277.69	2,177.36	2,027.71	1,989.66	38.05	53.295		
7,700.00	7,688.53	7,710.14	7,687.67	27.31	27.71	-63.56	-279.66	2,178.78	2,027.26	1,988.62	38.64	52.460		
7,771.47	7,760.00	7,779.26	7,756.80	27.56	27.94	89.47	-279.67	2,178.78	2,026.97	1,987.98	38.98	51.996		
7,800.00	7,788.53	7,807.79	7,785.33	27.66	28.03	89.47	-279.67	2,178.78	2,026.97	1,987.85	39.12	51.815		
7,900.00	7,888.53	7,907.79	7,885.33	27.99	28.37	89.47	-279.67	2,178.78	2,026.97	1,987.37	39.60	51.192		
8,000.00	7,988.53	8,007.79	7,985.33	28.33	28.70	89.47	-279.67	2,178.78	2,026.97	1,986.90	40.07	50.583		
8,100.00	8,088.53	8,107.79	8,085.33	28.66	29.04	89.47	-279.67	2,178.78	2,026.97	1,986.42	40.55	49.988		
8,200.00	8,188.53	8,207.79	8,185.33	29.00	29.37	89.47	-279.67	2,178.78	2,026.97	1,985.94	41.03	49.405		
8,300.00	8,288.53	8,307.79	8,285.33	29.34	29.71	89.47	-279.67	2,178.78	2,026.97	1,985.46	41.51	48.835		
8,400.00	8,388.53	8,407.79	8,385.33	29.68	30.05	89.47	-279.67	2,178.78	2,026.97	1,984.98	41.99	48.277		
8,500.00	8,488.53	8,507.79	8,485.33	30.02	30.39	89.47	-279.67	2,178.78	2,026.97	1,984.50	42.47	47.731		
8,600.00	8,588.53	8,607.79	8,585.33	30.36	30.72	89.47	-279.67	2,178.78	2,026.97	1,984.02	42.95	47.197		
8,700.00	8,688.53	8,707.79	8,685.33	30.70	31.06	89.47	-279.67	2,178.78	2,026.97	1,983.54	43.43	46.674		
8,800.00	8,788.53	8,807.79	8,785.33	31.04	31.40	89.47	-279.67	2,178.78	2,026.97	1,983.06	43.91	46.162		
8,900.00	8,888.53	8,907.79	8,885.33	31.38	31.74	89.47	-279.67	2,178.78	2,026.97	1,982.58	44.39	45.660		
9,000.00	8,988.53	9,007.79	8,985.33	31.72	32.08	89.47	-279.67	2,178.78	2,026.97	1,982.09	44.88	45.168		
9,100.00	9,088.53	9,107.79	9,085.33	32.06	32.42	89.47	-279.67	2,178.78	2,026.97	1,981.61	45.36	44.687		
9,200.00	9,188.53	9,207.79	9,185.33	32.40	32.76	89.47	-279.67	2,178.78	2,026.97	1,981.12	45.84	44.215		
9,300.00	9,288.53	9,307.79	9,285.33	32.75	33.10	89.47	-279.67	2,178.78	2,026.97	1,980.64	46.33	43.752		
9,400.00	9,388.53	9,407.79	9,385.33	33.09	33.44	89.47	-279.67	2,178.78	2,026.97	1,980.15	46.81	43.299		
9,500.00	9,488.53	9,507.79	9,485.33	33.43	33.78	89.47	-279.67	2,178.78	2,026.97	1,979.67	47.30	42.855		
9,600.00	9,588.53	9,607.79	9,585.33	33.77	34.13	89.47	-279.67	2,178.78	2,026.97	1,979.18	47.78	42.419		
9,700.00	9,688.53	9,707.79	9,685.33	34.12	34.47	89.47	-279.67	2,178.78	2,026.97	1,978.70	48.27	41.991		
9,800.00	9,788.53	9,807.79	9,785.33	34.46	34.81	89.47	-279.67	2,178.78	2,026.97	1,978.21	48.76	41.572		
9,900.00	9,888.53	9,907.79	9,885.33	34.81	35.15	89.47	-279.67	2,178.78	2,026.97	1,977.72	49.25	41.161		
10,000.00	9,988.53	10,007.79	9,985.33	35.15	35.50	89.47	-279.67	2,178.78	2,026.97	1,977.24	49.73	40.757		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Bus Driver/Kaston Fed Com - Kaston Fed Com 703H - OH - Plan #5		Offset Site Error:		0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:		0.00 usft			
Reference		Offset		Semi Major Axis			Distance											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning					
10,100.00	10,088.53	10,107.79	10,085.33	35.50	35.84	89.47	-279.67	2,178.78	2,026.97	1,976.75	50.22	40.361						
10,200.00	10,188.53	10,207.79	10,185.33	35.84	36.18	89.47	-279.67	2,178.78	2,026.97	1,976.26	50.71	39.972						
10,300.00	10,288.53	10,307.79	10,285.33	36.19	36.53	89.47	-279.67	2,178.78	2,026.97	1,975.77	51.20	39.591						
10,400.00	10,388.53	10,407.79	10,385.33	36.53	36.87	89.47	-279.67	2,178.78	2,026.97	1,975.28	51.69	39.216						
10,500.00	10,488.53	10,507.79	10,485.33	36.88	37.22	89.47	-279.67	2,178.78	2,026.97	1,974.79	52.18	38.848						
10,600.00	10,588.53	10,607.79	10,585.33	37.22	37.56	89.47	-279.67	2,178.78	2,026.97	1,974.30	52.67	38.487						
10,700.00	10,688.53	10,707.79	10,685.33	37.57	37.91	89.47	-279.67	2,178.78	2,026.97	1,973.81	53.16	38.132						
10,800.00	10,788.53	10,807.79	10,785.33	37.92	38.25	89.47	-279.67	2,178.78	2,026.97	1,973.32	53.65	37.784						
10,900.00	10,888.53	10,907.79	10,885.33	38.26	38.60	89.47	-279.67	2,178.78	2,026.97	1,972.83	54.14	37.441						
11,000.00	10,988.53	11,007.79	10,985.33	38.61	38.94	89.47	-279.67	2,178.78	2,026.97	1,972.34	54.63	37.105						
11,100.00	11,088.53	11,107.79	11,085.33	38.96	39.29	89.47	-279.67	2,178.78	2,026.97	1,971.85	55.12	36.774						
11,200.00	11,188.53	11,207.79	11,185.33	39.30	39.64	89.47	-279.67	2,178.78	2,026.97	1,971.36	55.61	36.449						
11,300.00	11,288.53	11,307.79	11,285.33	39.65	39.98	89.47	-279.67	2,178.78	2,026.97	1,970.87	56.10	36.129						
11,400.00	11,388.53	11,407.79	11,385.33	40.00	40.33	89.47	-279.67	2,178.78	2,026.97	1,970.37	56.60	35.815						
11,500.00	11,488.53	11,507.79	11,485.33	40.35	40.68	89.47	-279.67	2,178.78	2,026.97	1,969.88	57.09	35.506						
11,600.00	11,588.53	11,607.79	11,585.33	40.70	41.02	89.47	-279.67	2,178.78	2,026.97	1,969.39	57.58	35.203						
11,652.08	11,640.61	11,659.89	11,637.41	40.88	41.21	89.50	-280.77	2,178.79	2,026.97	1,969.13	57.84	35.046						
11,694.47	11,683.00	11,701.94	11,679.24	41.02	41.36	89.61	-284.90	2,178.83	2,026.97	1,968.93	58.05	34.920						
11,700.00	11,688.53	11,707.37	11,684.62	41.04	41.38	-89.87	-285.66	2,178.83	2,026.97	1,968.90	58.07	34.903						
11,750.00	11,738.44	11,756.22	11,732.59	41.22	41.56	-89.68	-294.75	2,178.91	2,027.00	1,968.67	58.33	34.752						
11,800.00	11,787.93	11,804.53	11,779.11	41.40	41.74	-89.49	-307.73	2,179.03	2,027.05	1,968.46	58.59	34.598						
11,850.00	11,836.62	11,852.33	11,823.91	41.59	41.93	-89.31	-324.39	2,179.17	2,027.12	1,968.26	58.86	34.442						
11,900.00	11,884.15	11,900.00	11,867.04	41.78	42.12	-89.14	-344.65	2,179.35	2,027.20	1,968.07	59.13	34.283						
11,950.00	11,930.14	11,946.55	11,907.39	41.98	42.32	-88.97	-367.84	2,179.55	2,027.30	1,967.89	59.41	34.123						
12,000.00	11,974.25	11,993.02	11,945.66	42.18	42.52	-88.81	-394.17	2,179.79	2,027.41	1,967.72	59.70	33.961						
12,050.00	12,016.15	12,039.12	11,981.40	42.39	42.72	-88.66	-423.27	2,180.04	2,027.53	1,967.54	59.99	33.797						
12,100.00	12,055.51	12,084.87	12,014.43	42.60	42.92	-88.52	-454.90	2,180.32	2,027.66	1,967.37	60.29	33.631						
12,150.00	12,092.03	12,130.30	12,044.64	42.82	43.13	-88.39	-488.82	2,180.62	2,027.78	1,967.19	60.60	33.463						
12,200.00	12,125.44	12,175.45	12,071.90	43.04	43.35	-88.27	-524.79	2,180.93	2,027.91	1,967.00	60.91	33.293						
12,250.00	12,155.49	12,220.35	12,096.13	43.27	43.56	-88.17	-562.58	2,181.26	2,028.03	1,966.80	61.23	33.121						
12,300.00	12,181.94	12,265.03	12,117.22	43.50	43.79	-88.07	-601.96	2,181.61	2,028.14	1,966.58	61.56	32.946						
12,350.00	12,204.59	12,309.53	12,135.11	43.75	44.02	-87.99	-642.68	2,181.97	2,028.24	1,966.34	61.89	32.770						
12,400.00	12,223.27	12,353.87	12,149.75	43.99	44.25	-87.92	-684.52	2,182.33	2,028.32	1,966.09	62.24	32.591						
12,450.00	12,237.84	12,400.00	12,161.49	44.24	44.49	-87.87	-729.12	2,182.73	2,028.39	1,965.80	62.59	32.408						
12,500.00	12,248.19	12,442.21	12,169.06	44.50	44.72	-87.83	-770.63	2,183.09	2,028.44	1,965.51	62.94	32.231						
12,550.00	12,254.23	12,486.26	12,173.69	44.76	44.96	-87.81	-814.44	2,183.48	2,028.48	1,965.19	63.29	32.050						
12,588.27	12,255.92	12,520.37	12,174.95	44.96	45.15	-87.80	-848.51	2,183.77	2,028.49	1,964.92	63.57	31.912						
12,600.00	12,256.05	12,532.10	12,175.11	45.02	45.22	-87.80	-860.24	2,183.88	2,028.49	1,964.83	63.66	31.866						
12,700.00	12,257.13	12,632.10	12,176.41	45.57	45.80	-87.81	-960.23	2,184.76	2,028.49	1,964.03	64.46	31.468						
12,800.00	12,258.22	12,732.10	12,177.71	46.18	46.44	-87.82	-1,060.21	2,185.63	2,028.48	1,963.15	65.34	31.046						
12,900.00	12,259.30	12,832.10	12,179.01	46.83	47.12	-87.82	-1,160.20	2,186.51	2,028.48	1,962.20	66.29	30.602						
13,000.00	12,260.38	12,932.10	12,180.32	47.54	47.85	-87.83	-1,260.19	2,187.39	2,028.48	1,961.18	67.30	30.141						
13,100.00	12,261.47	13,032.10	12,181.62	48.29	48.63	-87.83	-1,360.17	2,188.27	2,028.48	1,960.09	68.38	29.664						
13,200.00	12,262.55	13,132.10	12,182.92	49.08	49.44	-87.84	-1,460.16	2,189.14	2,028.47	1,958.95	69.52	29.177						
13,300.00	12,263.63	13,232.10	12,184.22	49.92	50.30	-87.85	-1,560.15	2,190.02	2,028.47	1,957.75	70.72	28.682						
13,400.00	12,264.71	13,332.10	12,185.52	50.80	51.20	-87.85	-1,660.14	2,190.90	2,028.47	1,956.49	71.98	28.182						
13,500.00	12,265.80	13,432.10	12,186.83	51.71	52.13	-87.86	-1,760.12	2,191.78	2,028.46	1,955.18	73.29	27.678						
13,600.00	12,266.88	13,532.09	12,188.13	52.66	53.10	-87.87	-1,860.11	2,192.66	2,028.46	1,953.81	74.65	27.174						
13,700.00	12,267.96	13,632.09	12,189.43	53.64	54.11	-87.87	-1,960.10	2,193.53	2,028.46	1,952.41	76.05	26.672						
13,800.00	12,269.05	13,732.09	12,190.73	54.66	55.14	-87.88	-2,060.09	2,194.41	2,028.46	1,950.95	77.50	26.172						
13,900.00	12,270.13	13,832.09	12,192.04	55.71	56.20	-87.88	-2,160.07	2,195.29	2,028.45	1,949.45	79.00	25.677						
14,000.00	12,271.21	13,932.09	12,193.34	56.78	57.29	-87.89	-2,260.06	2,196.17	2,028.45	1,947.92	80.53	25.188						

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	12,272.30	14,032.09	12,194.64	57.89	58.41	-87.90	-2,360.05	2,197.05	2,028.45	1,946.34	82.10	24.706		
14,200.00	12,273.38	14,132.09	12,195.94	59.01	59.55	-87.90	-2,460.04	2,197.92	2,028.45	1,944.73	83.71	24.232		
14,300.00	12,274.46	14,232.09	12,197.25	60.17	60.72	-87.91	-2,560.02	2,198.80	2,028.44	1,943.09	85.35	23.766		
14,400.00	12,275.54	14,332.09	12,198.55	61.34	61.90	-87.91	-2,660.01	2,199.68	2,028.44	1,941.42	87.02	23.309		
14,500.00	12,276.63	14,432.09	12,199.85	62.54	63.11	-87.92	-2,760.00	2,200.56	2,028.44	1,939.71	88.73	22.862		
14,600.00	12,277.71	14,532.09	12,201.15	63.76	64.34	-87.93	-2,859.99	2,201.43	2,028.43	1,937.98	90.46	22.424		
14,700.00	12,278.79	14,632.09	12,202.45	64.99	65.59	-87.93	-2,959.97	2,202.31	2,028.43	1,936.22	92.21	21.997		
14,800.00	12,279.88	14,732.09	12,203.76	66.25	66.85	-87.94	-3,059.96	2,203.19	2,028.43	1,934.43	94.00	21.580		
14,900.00	12,280.96	14,832.09	12,205.06	67.52	68.13	-87.95	-3,159.95	2,204.07	2,028.43	1,932.62	95.80	21.173		
15,000.00	12,282.04	14,932.09	12,206.36	68.81	69.43	-87.95	-3,259.94	2,204.95	2,028.42	1,930.79	97.63	20.776		
15,100.00	12,283.12	15,032.09	12,207.66	70.11	70.74	-87.96	-3,359.92	2,205.82	2,028.42	1,928.94	99.48	20.390		
15,200.00	12,284.21	15,132.09	12,208.97	71.43	72.06	-87.96	-3,459.91	2,206.70	2,028.42	1,927.07	101.35	20.014		
15,300.00	12,285.29	15,232.09	12,210.27	72.76	73.40	-87.97	-3,559.90	2,207.58	2,028.42	1,925.18	103.24	19.647		
15,400.00	12,286.37	15,332.09	12,211.57	74.11	74.75	-87.98	-3,659.89	2,208.46	2,028.42	1,923.27	105.15	19.291		
15,500.00	12,287.46	15,432.09	12,212.87	75.46	76.12	-87.98	-3,759.87	2,209.34	2,028.41	1,921.34	107.07	18.944		
15,600.00	12,288.54	15,532.09	12,214.18	76.83	77.49	-87.99	-3,859.86	2,210.21	2,028.41	1,919.40	109.01	18.607		
15,700.00	12,289.62	15,632.09	12,215.48	78.21	78.88	-88.00	-3,959.85	2,211.09	2,028.41	1,917.44	110.97	18.279		
15,800.00	12,290.71	15,732.09	12,216.78	79.60	80.27	-88.00	-4,059.84	2,211.97	2,028.41	1,915.47	112.94	17.961		
15,900.00	12,291.79	15,832.09	12,218.08	81.00	81.67	-88.01	-4,159.82	2,212.85	2,028.40	1,913.48	114.92	17.651		
16,000.00	12,292.87	15,932.09	12,219.39	82.41	83.09	-88.01	-4,259.81	2,213.72	2,028.40	1,911.49	116.92	17.349		
16,100.00	12,293.95	16,032.09	12,220.69	83.83	84.51	-88.02	-4,359.80	2,214.60	2,028.40	1,909.47	118.93	17.056		
16,200.00	12,295.04	16,132.09	12,221.99	85.25	85.94	-88.03	-4,459.79	2,215.48	2,028.40	1,907.45	120.95	16.771		
16,300.00	12,296.12	16,232.09	12,223.29	86.69	87.38	-88.03	-4,559.77	2,216.36	2,028.40	1,905.42	122.98	16.494		
16,400.00	12,297.20	16,332.09	12,224.59	88.13	88.82	-88.04	-4,659.76	2,217.24	2,028.39	1,903.37	125.02	16.225		
16,500.00	12,298.29	16,432.09	12,225.90	89.58	90.28	-88.05	-4,759.75	2,218.11	2,028.39	1,901.32	127.07	15.963		
16,600.00	12,299.37	16,532.09	12,227.20	91.03	91.74	-88.05	-4,859.73	2,218.99	2,028.39	1,899.26	129.13	15.708		
16,700.00	12,300.45	16,632.09	12,228.50	92.50	93.20	-88.06	-4,959.72	2,219.87	2,028.39	1,897.18	131.20	15.460		
16,800.00	12,301.53	16,732.09	12,229.80	93.97	94.67	-88.06	-5,059.71	2,220.75	2,028.39	1,895.10	133.28	15.218		
16,900.00	12,302.62	16,832.09	12,231.11	95.44	96.15	-88.07	-5,159.70	2,221.63	2,028.38	1,893.01	135.37	14.984		
17,000.00	12,303.70	16,932.09	12,232.41	96.92	97.63	-88.08	-5,259.68	2,222.50	2,028.38	1,890.91	137.47	14.755		
17,100.00	12,304.78	17,032.09	12,233.71	98.41	99.12	-88.08	-5,359.67	2,223.38	2,028.38	1,888.81	139.57	14.533		
17,200.00	12,305.87	17,132.09	12,235.01	99.90	100.62	-88.09	-5,459.66	2,224.26	2,028.38	1,886.69	141.68	14.316		
17,300.00	12,306.95	17,232.09	12,236.32	101.39	102.11	-88.09	-5,559.65	2,225.14	2,028.38	1,884.57	143.80	14.105		
17,400.00	12,308.03	17,332.09	12,237.62	102.90	103.62	-88.10	-5,659.63	2,226.01	2,028.37	1,882.45	145.93	13.900		
17,500.00	12,309.12	17,432.09	12,238.92	104.40	105.12	-88.11	-5,759.62	2,226.89	2,028.37	1,880.32	148.06	13.700		
17,600.00	12,310.20	17,532.09	12,240.22	105.91	106.64	-88.11	-5,859.61	2,227.77	2,028.37	1,878.18	150.19	13.505		
17,700.00	12,311.28	17,632.09	12,241.52	107.43	108.15	-88.12	-5,959.60	2,228.65	2,028.37	1,876.03	152.34	13.315		
17,800.00	12,312.36	17,732.09	12,242.83	108.94	109.67	-88.13	-6,059.58	2,229.53	2,028.37	1,873.88	154.49	13.130		
17,900.00	12,313.45	17,832.09	12,244.13	110.47	111.20	-88.13	-6,159.57	2,230.40	2,028.36	1,871.73	156.64	12.949		
18,000.00	12,314.53	17,932.09	12,245.43	111.99	112.72	-88.14	-6,259.56	2,231.28	2,028.36	1,869.57	158.80	12.773		
18,100.00	12,315.61	18,032.09	12,246.73	113.52	114.25	-88.14	-6,359.55	2,232.16	2,028.36	1,867.40	160.96	12.602		
18,200.00	12,316.70	18,132.09	12,248.04	115.05	115.79	-88.15	-6,459.53	2,233.04	2,028.36	1,865.23	163.13	12.434		
18,300.00	12,317.78	18,232.09	12,249.34	116.59	117.32	-88.16	-6,559.52	2,233.91	2,028.36	1,863.05	165.30	12.270		
18,400.00	12,318.86	18,332.09	12,250.64	118.13	118.87	-88.16	-6,659.51	2,234.79	2,028.36	1,860.88	167.48	12.111		
18,500.00	12,319.94	18,432.09	12,251.94	119.67	120.41	-88.17	-6,759.50	2,235.67	2,028.35	1,858.69	169.66	11.955		
18,600.00	12,321.03	18,532.09	12,253.25	121.22	121.95	-88.18	-6,859.48	2,236.55	2,028.35	1,856.50	171.85	11.803		
18,700.00	12,322.11	18,632.09	12,254.55	122.76	123.50	-88.18	-6,959.47	2,237.43	2,028.35	1,854.31	174.04	11.655		
18,800.00	12,323.19	18,732.09	12,255.85	124.32	125.05	-88.19	-7,059.46	2,238.30	2,028.35	1,852.12	176.23	11.510		
18,900.00	12,324.28	18,832.09	12,257.15	125.87	126.61	-88.19	-7,159.45	2,239.18	2,028.35	1,849.92	178.43	11.368		
19,000.00	12,325.36	18,932.09	12,258.45	127.42	128.16	-88.20	-7,259.43	2,240.06	2,028.35	1,847.72	180.63	11.229		
19,100.00	12,326.44	19,032.09	12,259.76	128.98	129.72	-88.21	-7,359.42	2,240.94	2,028.35	1,845.51	182.83	11.094		
19,200.00	12,327.53	19,132.09	12,261.06	130.54	131.28	-88.21	-7,459.41	2,241.82	2,028.34	1,843.30	185.04	10.962		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	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	12,328.61	19,232.08	12,262.36	132.11	132.85	-88.22	-7,559.40	2,242.69	2,028.34	1,841.09	187.25	10.832		
19,400.00	12,329.69	19,332.08	12,263.66	133.67	134.41	-88.22	-7,659.38	2,243.57	2,028.34	1,838.88	189.46	10.706		
19,500.00	12,330.77	19,432.08	12,264.97	135.24	135.98	-88.23	-7,759.37	2,244.45	2,028.34	1,836.66	191.68	10.582		
19,600.00	12,331.86	19,532.08	12,266.27	136.81	137.55	-88.24	-7,859.36	2,245.33	2,028.34	1,834.44	193.90	10.461		
19,700.00	12,332.94	19,632.08	12,267.57	138.38	139.12	-88.24	-7,959.35	2,246.20	2,028.34	1,832.22	196.12	10.342		
19,800.00	12,334.02	19,732.08	12,268.87	139.95	140.69	-88.25	-8,059.33	2,247.08	2,028.34	1,829.99	198.35	10.226		
19,900.00	12,335.11	19,832.08	12,270.18	141.52	142.27	-88.26	-8,159.32	2,247.96	2,028.34	1,827.76	200.57	10.113		
20,000.00	12,336.19	19,932.08	12,271.48	143.10	143.84	-88.26	-8,259.31	2,248.84	2,028.33	1,825.53	202.80	10.002		
20,100.00	12,337.27	20,032.08	12,272.78	144.68	145.42	-88.27	-8,359.29	2,249.72	2,028.33	1,823.30	205.03	9.893		
20,200.00	12,338.35	20,132.08	12,274.08	146.26	147.00	-88.27	-8,459.28	2,250.59	2,028.33	1,821.06	207.27	9.786		
20,300.00	12,339.44	20,232.08	12,275.39	147.84	148.58	-88.28	-8,559.27	2,251.47	2,028.33	1,818.83	209.50	9.682		
20,400.00	12,340.52	20,332.08	12,276.69	149.42	150.17	-88.29	-8,659.26	2,252.35	2,028.33	1,816.59	211.74	9.579		
20,500.00	12,341.60	20,432.08	12,277.99	151.01	151.75	-88.29	-8,759.24	2,253.23	2,028.33	1,814.34	213.98	9.479		
20,600.00	12,342.69	20,532.08	12,279.29	152.59	153.34	-88.30	-8,859.23	2,254.11	2,028.33	1,812.10	216.23	9.381		
20,700.00	12,343.77	20,632.08	12,280.59	154.18	154.92	-88.31	-8,959.22	2,254.98	2,028.33	1,809.85	218.47	9.284		
20,800.00	12,344.85	20,732.08	12,281.90	155.77	156.51	-88.31	-9,059.21	2,255.86	2,028.32	1,807.61	220.72	9.190		
20,900.00	12,345.94	20,832.08	12,283.20	157.36	158.10	-88.32	-9,159.19	2,256.74	2,028.32	1,805.36	222.97	9.097		
21,000.00	12,347.02	20,932.08	12,284.50	158.95	159.69	-88.32	-9,259.18	2,257.62	2,028.32	1,803.11	225.22	9.006		
21,100.00	12,348.10	21,032.08	12,285.80	160.54	161.29	-88.33	-9,359.17	2,258.49	2,028.32	1,800.85	227.47	8.917		
21,200.00	12,349.18	21,132.08	12,287.11	162.13	162.88	-88.34	-9,459.16	2,259.37	2,028.32	1,798.60	229.72	8.829		
21,300.00	12,350.27	21,232.08	12,288.41	163.73	164.47	-88.34	-9,559.14	2,260.25	2,028.32	1,796.34	231.98	8.744		
21,400.00	12,351.35	21,332.08	12,289.71	165.32	166.07	-88.35	-9,659.13	2,261.13	2,028.32	1,794.09	234.23	8.659		
21,500.00	12,352.43	21,432.08	12,291.01	166.92	167.67	-88.36	-9,759.12	2,262.01	2,028.32	1,791.83	236.49	8.577		
21,600.00	12,353.52	21,532.08	12,292.32	168.52	169.26	-88.36	-9,859.11	2,262.88	2,028.32	1,789.57	238.75	8.496		
21,700.00	12,354.60	21,632.08	12,293.62	170.12	170.86	-88.37	-9,959.09	2,263.76	2,028.32	1,787.30	241.01	8.416		
21,800.00	12,355.68	21,732.08	12,294.92	171.72	172.46	-88.37	-10,059.08	2,264.64	2,028.32	1,785.04	243.28	8.338		
21,900.00	12,356.76	21,832.08	12,296.22	173.32	174.06	-88.38	-10,159.07	2,265.52	2,028.31	1,782.78	245.54	8.261		
22,000.00	12,357.85	21,932.07	12,297.52	174.92	175.66	-88.39	-10,259.06	2,266.40	2,028.31	1,780.51	247.80	8.185		
22,100.00	12,358.93	22,032.07	12,298.83	176.52	177.27	-88.39	-10,359.04	2,267.27	2,028.31	1,778.24	250.07	8.111		
22,200.00	12,360.01	22,132.07	12,300.13	178.13	178.87	-88.40	-10,459.03	2,268.15	2,028.31	1,775.97	252.34	8.038		
22,300.00	12,361.10	22,232.07	12,301.43	179.73	180.47	-88.40	-10,559.02	2,269.03	2,028.31	1,773.70	254.61	7.966		
22,389.94	12,362.07	22,322.01	12,302.60	181.18	181.92	-88.41	-10,648.94	2,269.82	2,028.31	1,771.66	256.65	7.903		
22,390.61	12,362.08	22,322.68	12,302.61	181.19	181.93	-88.41	-10,649.61	2,269.82	2,028.31	1,771.65	256.66	7.903 ES, SF		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.30	0.30	0.00	0.00	-90.52	-0.32	-34.99	34.99					
100.00	100.00	100.30	100.30	0.14	0.14	-90.52	-0.32	-34.99	34.99	34.79	0.20	174.079		
200.00	200.00	200.30	200.30	0.50	0.50	-90.52	-0.32	-34.99	34.99	34.28	0.71	49.426		
300.00	300.00	300.30	300.30	0.86	0.86	-90.52	-0.32	-34.99	34.99	33.78	1.21	28.801		
400.00	400.00	400.30	400.30	1.22	1.22	-90.52	-0.32	-34.99	34.99	33.27	1.72	20.322		
500.00	500.00	500.30	500.30	1.58	1.58	-90.52	-0.32	-34.99	34.99	32.76	2.23	15.699		
600.00	600.00	600.30	600.30	1.93	1.94	-90.52	-0.32	-34.99	34.99	32.26	2.74	12.790		
700.00	700.00	700.30	700.30	2.29	2.29	-90.52	-0.32	-34.99	34.99	31.75	3.24	10.791		
800.00	800.00	800.30	800.30	2.65	2.65	-90.52	-0.32	-34.99	34.99	31.24	3.75	9.332		
900.00	900.00	900.30	900.30	3.01	3.01	-90.52	-0.32	-34.99	34.99	30.73	4.26	8.220		
1,000.00	1,000.00	1,000.30	1,000.30	3.37	3.37	-90.52	-0.32	-34.99	34.99	30.23	4.76	7.346		
1,100.00	1,100.00	1,100.30	1,100.30	3.73	3.73	-90.52	-0.32	-34.99	34.99	29.72	5.27	6.639		
1,200.00	1,200.00	1,200.30	1,200.30	4.08	4.09	-90.52	-0.32	-34.99	34.99	29.21	5.78	6.056		
1,300.00	1,300.00	1,300.30	1,300.30	4.44	4.44	-90.52	-0.32	-34.99	34.99	28.71	6.28	5.568		
1,400.00	1,400.00	1,400.30	1,400.30	4.80	4.80	-90.52	-0.32	-34.99	34.99	28.20	6.79	5.152		
1,500.00	1,500.00	1,500.30	1,500.30	5.16	5.16	-90.52	-0.32	-34.99	34.99	27.69	7.30	4.794		
1,600.00	1,600.00	1,600.30	1,600.30	5.52	5.52	-90.52	-0.32	-34.99	34.99	27.19	7.81	4.483		
1,700.00	1,700.00	1,700.30	1,700.30	5.88	5.88	-90.52	-0.32	-34.99	34.99	26.68	8.31	4.210		
1,800.00	1,800.00	1,800.30	1,800.30	6.24	6.24	-90.52	-0.32	-34.99	34.99	26.17	8.82	3.968		
1,900.00	1,900.00	1,900.30	1,900.30	6.59	6.60	-90.52	-0.32	-34.99	34.99	25.67	9.33	3.752		
2,000.00	2,000.00	2,000.30	2,000.30	6.95	6.95	-90.52	-0.32	-34.99	34.99	25.16	9.83	3.559		
2,100.00	2,100.00	2,100.30	2,100.30	7.31	7.31	-90.52	-0.32	-34.99	34.99	24.65	10.34	3.384		
2,200.00	2,200.00	2,200.30	2,200.30	7.67	7.67	-90.52	-0.32	-34.99	34.99	24.14	10.85	3.226		
2,300.00	2,300.00	2,300.30	2,300.30	8.03	8.03	-90.52	-0.32	-34.99	34.99	23.64	11.35	3.082		
2,400.00	2,400.00	2,400.30	2,400.30	8.39	8.39	-90.52	-0.32	-34.99	34.99	23.13	11.86	2.950		
2,500.00	2,500.00	2,500.30	2,500.30	8.74	8.75	-90.52	-0.32	-34.99	34.99	22.62	12.37	2.829		
2,600.00	2,600.00	2,600.30	2,600.30	9.10	9.10	-90.52	-0.32	-34.99	34.99	22.12	12.87	2.718		
2,700.00	2,700.00	2,700.30	2,700.30	9.46	9.46	-90.52	-0.32	-34.99	34.99	21.61	13.38	2.615 CC, ES		
2,800.00	2,799.99	2,800.29	2,800.29	9.80	9.82	118.32	-0.32	-34.99	35.59	21.72	13.88	2.565		
2,900.00	2,899.91	2,900.21	2,900.21	10.13	10.18	123.56	-0.32	-34.99	37.62	23.26	14.36	2.620		
2,966.50	2,966.29	2,966.59	2,966.59	10.35	10.42	128.38	-0.32	-34.99	40.00	25.32	14.68	2.725		
3,000.00	2,999.70	3,000.00	3,000.00	10.46	10.54	130.90	-0.32	-34.99	41.50	26.65	14.84	2.796		
3,100.00	3,099.46	3,099.76	3,099.76	10.79	10.89	137.42	-0.32	-34.99	46.37	31.04	15.33	3.025		
3,200.00	3,199.22	3,199.52	3,199.52	11.12	11.25	142.65	-0.32	-34.99	51.72	35.91	15.82	3.270		
3,300.00	3,298.97	3,299.27	3,299.27	11.46	11.61	146.87	-0.32	-34.99	57.42	41.12	16.31	3.522		
3,400.00	3,398.73	3,399.03	3,399.03	11.80	11.97	150.31	-0.32	-34.99	63.38	46.59	16.79	3.774		
3,500.00	3,498.49	3,498.79	3,498.79	12.14	12.33	153.16	-0.32	-34.99	69.53	52.24	17.29	4.022		
3,600.00	3,598.24	3,598.54	3,598.54	12.48	12.68	155.54	-0.32	-34.99	75.81	58.04	17.78	4.265		
3,700.00	3,698.00	3,698.30	3,698.30	12.83	13.04	157.55	-0.32	-34.99	82.21	63.94	18.27	4.500		
3,800.00	3,797.76	3,798.67	3,798.67	13.17	13.39	158.79	-1.07	-35.30	88.43	69.67	18.76	4.715		
3,900.00	3,897.51	3,899.33	3,899.26	13.52	13.71	158.38	-4.22	-36.58	93.80	74.57	19.23	4.878		
4,000.00	3,997.27	3,999.98	3,999.73	13.87	14.04	156.56	-9.81	-38.87	98.35	78.65	19.70	4.992		
4,100.00	4,097.03	4,100.16	4,099.56	14.22	14.37	153.64	-17.55	-42.03	102.38	82.21	20.18	5.074		
4,200.00	4,196.78	4,199.94	4,198.96	14.58	14.70	150.77	-25.59	-45.32	106.58	85.93	20.66	5.160		
4,300.00	4,296.54	4,299.71	4,298.35	14.93	15.03	148.13	-33.63	-48.60	111.03	89.89	21.14	5.252		
4,400.00	4,396.30	4,399.49	4,397.75	15.28	15.36	145.69	-41.68	-51.89	115.70	94.08	21.62	5.351		
4,500.00	4,496.05	4,499.26	4,497.14	15.64	15.70	143.44	-49.72	-55.17	120.56	98.45	22.11	5.452		
4,600.00	4,595.81	4,599.04	4,596.54	16.00	16.04	141.37	-57.76	-58.46	125.59	102.99	22.60	5.557		
4,700.00	4,695.57	4,698.81	4,695.93	16.36	16.38	139.47	-65.80	-61.75	130.77	107.68	23.09	5.663		
4,800.00	4,795.32	4,798.58	4,795.33	16.71	16.72	137.71	-73.85	-65.03	136.09	112.50	23.59	5.770		
4,900.00	4,895.08	4,898.36	4,894.73	17.07	17.07	136.08	-81.89	-68.32	141.52	117.44	24.08	5.877		
5,000.00	4,994.84	4,998.13	4,994.12	17.43	17.41	134.57	-89.93	-71.60	147.06	122.48	24.58	5.983		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	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	5,094.59	5,097.91	5,093.52	17.79	17.76	133.18	-97.97	-74.89	152.70	127.62	25.08	6.089		
5,200.00	5,194.35	5,197.68	5,192.91	18.16	18.11	131.88	-106.02	-78.18	158.41	132.84	25.58	6.193		
5,300.00	5,294.11	5,297.46	5,292.31	18.52	18.46	130.68	-114.06	-81.46	164.21	138.13	26.08	6.296		
5,400.00	5,393.86	5,397.23	5,391.70	18.88	18.81	129.55	-122.10	-84.75	170.07	143.48	26.58	6.398		
5,500.00	5,493.62	5,497.01	5,491.10	19.24	19.17	128.51	-130.14	-88.03	175.99	148.90	27.09	6.497		
5,600.00	5,593.38	5,596.78	5,590.50	19.61	19.52	127.53	-138.19	-91.32	181.97	154.37	27.59	6.594		
5,700.00	5,693.13	5,696.55	5,689.89	19.97	19.88	126.61	-146.23	-94.61	187.99	159.89	28.10	6.690		
5,800.00	5,792.89	5,796.33	5,789.29	20.34	20.24	125.75	-154.27	-97.89	194.06	165.45	28.61	6.783		
5,900.00	5,892.65	5,896.10	5,888.68	20.70	20.59	124.94	-162.31	-101.18	200.17	171.06	29.12	6.875		
6,000.00	5,992.40	5,995.88	5,988.08	21.07	20.95	124.18	-170.36	-104.46	206.32	176.70	29.63	6.964		
6,100.00	6,092.16	6,095.65	6,087.47	21.43	21.31	123.47	-178.40	-107.75	212.51	182.37	30.14	7.051		
6,200.00	6,191.92	6,195.43	6,186.87	21.80	21.67	122.79	-186.44	-111.04	218.72	188.07	30.65	7.136		
6,300.00	6,291.67	6,295.20	6,286.26	22.17	22.04	122.16	-194.48	-114.32	224.96	193.80	31.16	7.219		
6,400.00	6,391.43	6,394.98	6,385.66	22.53	22.40	121.55	-202.53	-117.61	231.23	199.56	31.67	7.300		
6,500.00	6,491.19	6,494.75	6,485.06	22.90	22.76	120.98	-210.57	-120.89	237.53	205.34	32.19	7.379		
6,600.00	6,590.94	6,594.53	6,584.45	23.27	23.13	120.44	-218.61	-124.18	243.84	211.14	32.70	7.456		
6,700.00	6,690.70	6,694.30	6,683.85	23.64	23.49	119.93	-226.65	-127.47	250.18	216.96	33.22	7.532		
6,800.00	6,790.46	6,794.07	6,783.24	24.00	23.86	119.44	-234.70	-130.75	256.53	222.80	33.73	7.605		
6,900.00	6,890.21	6,893.85	6,882.64	24.37	24.22	118.97	-242.74	-134.04	262.90	228.66	34.25	7.676		
7,000.00	6,989.97	6,993.62	6,982.03	24.74	24.59	118.53	-250.78	-137.32	269.29	234.53	34.76	7.746		
7,100.00	7,089.73	7,093.40	7,081.43	25.11	24.96	118.11	-258.82	-140.61	275.70	240.42	35.28	7.814		
7,200.00	7,189.48	7,193.17	7,180.82	25.48	25.32	117.70	-266.86	-143.90	282.12	246.32	35.80	7.880		
7,300.00	7,289.24	7,292.95	7,280.22	25.85	25.69	117.32	-274.91	-147.18	288.55	252.23	36.32	7.945		
7,400.00	7,389.00	7,392.72	7,379.62	26.22	26.06	116.95	-282.95	-150.47	294.99	258.16	36.84	8.008		
7,504.97	7,493.71	7,498.76	7,485.27	26.61	26.45	116.62	-291.27	-153.87	301.68	264.29	37.39	8.069		
7,600.00	7,588.58	7,596.65	7,582.96	26.95	26.81	116.55	-296.99	-156.20	306.42	268.53	37.89	8.087		
7,700.00	7,688.53	7,699.81	7,686.05	27.31	27.18	116.48	-300.50	-157.64	309.26	270.85	38.41	8.052		
7,771.47	7,760.00	7,773.59	7,759.82	27.56	27.43	-90.53	-301.43	-158.02	309.93	271.17	38.77	7.995		
7,800.00	7,788.53	7,802.59	7,788.83	27.66	27.53	-90.54	-301.46	-158.03	309.94	271.04	38.91	7.967		
7,900.00	7,888.53	7,902.59	7,888.83	27.99	27.87	-90.54	-301.46	-158.03	309.94	270.56	39.39	7.870		
8,000.00	7,988.53	8,002.59	7,988.83	28.33	28.21	-90.54	-301.46	-158.03	309.94	270.08	39.87	7.775		
8,100.00	8,088.53	8,102.59	8,088.83	28.66	28.56	-90.54	-301.46	-158.03	309.94	269.60	40.35	7.682		
8,200.00	8,188.53	8,202.59	8,188.83	29.00	28.90	-90.54	-301.46	-158.03	309.94	269.11	40.83	7.591		
8,300.00	8,288.53	8,302.59	8,288.83	29.34	29.24	-90.54	-301.46	-158.03	309.94	268.63	41.31	7.503		
8,400.00	8,388.53	8,402.59	8,388.83	29.68	29.59	-90.54	-301.46	-158.03	309.94	268.15	41.79	7.416		
8,500.00	8,488.53	8,502.59	8,488.83	30.02	29.93	-90.54	-301.46	-158.03	309.94	267.67	42.28	7.331		
8,600.00	8,588.53	8,602.59	8,588.83	30.36	30.27	-90.54	-301.46	-158.03	309.94	267.18	42.76	7.248		
8,700.00	8,688.53	8,702.59	8,688.83	30.70	30.62	-90.54	-301.46	-158.03	309.94	266.70	43.25	7.167		
8,800.00	8,788.53	8,802.59	8,788.83	31.04	30.96	-90.54	-301.46	-158.03	309.94	266.21	43.73	7.087		
8,900.00	8,888.53	8,902.59	8,888.83	31.38	31.31	-90.54	-301.46	-158.03	309.94	265.73	44.22	7.009		
9,000.00	8,988.53	9,002.59	8,988.83	31.72	31.65	-90.54	-301.46	-158.03	309.94	265.24	44.70	6.933		
9,100.00	9,088.53	9,102.59	9,088.83	32.06	32.00	-90.54	-301.46	-158.03	309.94	264.75	45.19	6.859		
9,200.00	9,188.53	9,202.59	9,188.83	32.40	32.34	-90.54	-301.46	-158.03	309.94	264.27	45.68	6.785		
9,300.00	9,288.53	9,302.59	9,288.83	32.75	32.69	-90.54	-301.46	-158.03	309.94	263.78	46.17	6.714		
9,400.00	9,388.53	9,402.59	9,388.83	33.09	33.04	-90.54	-301.46	-158.03	309.94	263.29	46.65	6.644		
9,500.00	9,488.53	9,502.59	9,488.83	33.43	33.38	-90.54	-301.46	-158.03	309.94	262.80	47.14	6.575		
9,600.00	9,588.53	9,602.59	9,588.83	33.77	33.73	-90.54	-301.46	-158.03	309.94	262.31	47.63	6.507		
9,700.00	9,688.53	9,702.59	9,688.83	34.12	34.08	-90.54	-301.46	-158.03	309.94	261.82	48.12	6.441		
9,800.00	9,788.53	9,802.59	9,788.83	34.46	34.42	-90.54	-301.46	-158.03	309.94	261.33	48.61	6.376		
9,900.00	9,888.53	9,902.59	9,888.83	34.81	34.77	-90.54	-301.46	-158.03	309.94	260.85	49.10	6.313		
10,000.00	9,988.53	10,002.59	9,988.83	35.15	35.12	-90.54	-301.46	-158.03	309.94	260.35	49.59	6.250		
10,100.00	10,088.53	10,102.59	10,088.83	35.50	35.47	-90.54	-301.46	-158.03	309.94	259.86	50.08	6.189		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	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	10,188.53	10,202.59	10,188.83	35.84	35.82	-90.54	-301.46	-158.03	309.94	259.37	50.57	6.129			
10,300.00	10,288.53	10,302.59	10,288.83	36.19	36.17	-90.54	-301.46	-158.03	309.94	258.88	51.06	6.070			
10,400.00	10,388.53	10,402.59	10,388.83	36.53	36.51	-90.54	-301.46	-158.03	309.94	258.39	51.55	6.012			
10,500.00	10,488.53	10,502.59	10,488.83	36.88	36.86	-90.54	-301.46	-158.03	309.94	257.90	52.04	5.955			
10,600.00	10,588.53	10,602.59	10,588.83	37.22	37.21	-90.54	-301.46	-158.03	309.94	257.41	52.54	5.900			
10,700.00	10,688.53	10,702.59	10,688.83	37.57	37.56	-90.54	-301.46	-158.03	309.94	256.92	53.03	5.845			
10,800.00	10,788.53	10,802.59	10,788.83	37.92	37.91	-90.54	-301.46	-158.03	309.94	256.42	53.52	5.791			
10,900.00	10,888.53	10,902.59	10,888.83	38.26	38.26	-90.54	-301.46	-158.03	309.94	255.93	54.01	5.738			
11,000.00	10,988.53	11,002.59	10,988.83	38.61	38.61	-90.54	-301.46	-158.03	309.94	255.44	54.51	5.686			
11,100.00	11,088.53	11,102.59	11,088.83	38.96	38.96	-90.54	-301.46	-158.03	309.94	254.94	55.00	5.635			
11,200.00	11,188.53	11,202.59	11,188.83	39.30	39.31	-90.54	-301.46	-158.03	309.94	254.45	55.49	5.585			
11,300.00	11,288.53	11,302.59	11,288.83	39.65	39.66	-90.54	-301.46	-158.03	309.94	253.96	55.99	5.536			
11,400.00	11,388.53	11,402.59	11,388.83	40.00	40.01	-90.54	-301.46	-158.03	309.94	253.46	56.48	5.487			
11,400.10	11,388.62	11,402.69	11,388.92	40.00	40.01	-90.54	-301.46	-158.03	309.94	253.46	56.48	5.487			
11,500.00	11,488.53	11,501.60	11,487.36	40.35	40.36	-92.08	-309.79	-157.96	310.06	253.09	56.98	5.442			
11,600.00	11,588.53	11,595.08	11,577.78	40.70	40.71	-96.37	-333.10	-157.75	311.77	254.32	57.45	5.427			
11,694.47	11,683.00	11,674.77	11,651.01	41.02	41.03	-102.01	-364.36	-157.48	317.95	260.23	57.72	5.508			
11,700.00	11,688.53	11,679.14	11,654.89	41.04	41.05	78.08	-366.37	-157.46	318.51	260.79	57.72	5.518			
11,750.00	11,738.44	11,718.15	11,688.84	41.22	41.20	74.48	-385.57	-157.30	324.37	266.66	57.71	5.621			
11,800.00	11,787.93	11,756.28	11,720.69	41.40	41.36	71.07	-406.52	-157.11	331.30	273.72	57.58	5.753			
11,850.00	11,836.62	11,793.63	11,750.47	41.59	41.52	67.86	-429.05	-156.92	339.04	281.70	57.34	5.912			
11,900.00	11,884.15	11,830.31	11,778.22	41.78	41.68	64.89	-453.03	-156.71	347.34	290.34	57.00	6.094			
11,950.00	11,930.14	11,866.40	11,803.98	41.98	41.83	62.16	-478.30	-156.49	355.95	299.39	56.56	6.293			
12,000.00	11,974.25	11,900.00	11,826.48	42.18	41.98	59.76	-503.24	-156.27	364.67	308.68	55.99	6.513			
12,050.00	12,016.15	11,937.12	11,849.59	42.39	42.15	57.42	-532.28	-156.02	373.27	317.78	55.50	6.726			
12,100.00	12,055.51	11,971.86	11,869.48	42.60	42.32	55.41	-560.76	-155.77	381.62	326.72	54.91	6.951			
12,150.00	12,092.03	12,000.00	11,884.30	42.82	42.45	53.82	-584.67	-155.56	389.63	335.53	54.10	7.201			
12,200.00	12,125.44	12,040.39	11,903.48	43.04	42.64	52.07	-620.20	-155.25	396.95	343.23	53.72	7.389			
12,250.00	12,155.49	12,074.25	11,917.60	43.27	42.81	50.72	-650.98	-154.98	403.70	350.52	53.17	7.592			
12,300.00	12,181.94	12,100.00	11,927.10	43.50	42.94	49.72	-674.90	-154.77	409.81	357.34	52.47	7.811			
12,350.00	12,204.59	12,141.40	11,940.10	43.75	43.15	48.63	-714.20	-154.43	414.88	362.63	52.24	7.941			
12,400.00	12,223.27	12,174.74	11,948.49	43.99	43.32	47.87	-746.46	-154.15	419.17	367.27	51.90	8.077			
12,450.00	12,237.84	12,200.00	11,953.59	44.24	43.45	47.35	-771.20	-153.93	422.65	371.13	51.52	8.204			
12,500.00	12,248.19	12,241.12	11,959.54	44.50	43.67	46.88	-811.88	-153.58	424.93	373.42	51.51	8.249			
12,550.00	12,254.23	12,274.22	11,962.20	44.76	43.84	46.65	-844.86	-153.29	426.33	374.84	51.49	8.280			
12,588.27	12,255.92	12,300.54	11,962.96	44.96	43.98	46.58	-871.17	-153.06	426.71	375.15	51.56	8.276			
12,600.00	12,256.05	12,312.27	11,963.08	45.02	44.05	46.58	-882.89	-152.96	426.71	375.09	51.62	8.266			
12,700.00	12,257.13	12,412.27	11,964.16	45.57	44.61	46.58	-982.88	-152.08	426.71	374.56	52.15	8.183			
12,800.00	12,258.22	12,512.27	11,965.24	46.18	45.23	46.58	-1,082.88	-151.21	426.71	373.99	52.73	8.093			
12,900.00	12,259.30	12,612.27	11,966.33	46.83	45.90	46.58	-1,182.87	-150.34	426.71	373.35	53.36	7.997			
13,000.00	12,260.38	12,712.27	11,967.41	47.54	46.62	46.58	-1,282.86	-149.47	426.72	372.67	54.05	7.895			
13,100.00	12,261.47	12,812.27	11,968.49	48.29	47.38	46.58	-1,382.85	-148.60	426.72	371.94	54.78	7.789			
13,200.00	12,262.55	12,912.27	11,969.57	49.08	48.19	46.58	-1,482.84	-147.72	426.72	371.15	55.56	7.680			
13,300.00	12,263.63	13,012.27	11,970.65	49.92	49.04	46.58	-1,582.83	-146.85	426.72	370.33	56.39	7.567			
13,400.00	12,264.71	13,112.27	11,971.73	50.80	49.94	46.58	-1,682.82	-145.98	426.72	369.46	57.26	7.452			
13,500.00	12,265.80	13,212.27	11,972.81	51.71	50.86	46.58	-1,782.81	-145.11	426.72	368.55	58.17	7.336			
13,600.00	12,266.88	13,312.27	11,973.89	52.66	51.83	46.58	-1,882.80	-144.23	426.73	367.61	59.12	7.218			
13,700.00	12,267.96	13,412.27	11,974.97	53.64	52.83	46.58	-1,982.79	-143.36	426.73	366.63	60.10	7.100			
13,800.00	12,269.05	13,512.27	11,976.05	54.66	53.86	46.58	-2,082.78	-142.49	426.73	365.61	61.12	6.982			
13,900.00	12,270.13	13,612.27	11,977.13	55.71	54.92	46.58	-2,182.77	-141.62	426.73	364.56	62.17	6.864			
14,000.00	12,271.21	13,712.27	11,978.21	56.78	56.02	46.58	-2,282.76	-140.74	426.73	363.48	63.25	6.747			
14,100.00	12,272.30	13,812.27	11,979.30	57.89	57.13	46.58	-2,382.75	-139.87	426.73	362.38	64.36	6.631			

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Judge Baylor Fed Com - Judge Baylor Fed Com 601H - OH - Plan #5		Offset Site Error: 0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
14,200.00	12,273.38	13,912.27	11,980.38	59.01	58.28	46.58	-2,482.74	-139.00	426.73	361.24	65.49	6.516				
14,300.00	12,274.46	14,012.27	11,981.46	60.17	59.44	46.58	-2,582.73	-138.13	426.74	360.08	66.66	6.402				
14,400.00	12,275.54	14,112.27	11,982.54	61.34	60.63	46.58	-2,682.72	-137.25	426.74	358.90	67.84	6.290				
14,500.00	12,276.63	14,212.27	11,983.62	62.54	61.84	46.58	-2,782.71	-136.38	426.74	357.69	69.05	6.181				
14,600.00	12,277.71	14,312.27	11,984.70	63.76	63.08	46.58	-2,882.70	-135.51	426.74	356.47	70.27	6.073				
14,700.00	12,278.79	14,412.27	11,985.78	64.99	64.33	46.58	-2,982.69	-134.64	426.74	355.22	71.52	5.967				
14,800.00	12,279.88	14,512.27	11,986.86	66.25	65.59	46.58	-3,082.68	-133.77	426.74	353.96	72.78	5.863				
14,900.00	12,280.96	14,612.27	11,987.94	67.52	66.88	46.58	-3,182.67	-132.89	426.75	352.68	74.07	5.762				
15,000.00	12,282.04	14,712.27	11,989.02	68.81	68.18	46.58	-3,282.66	-132.02	426.75	351.38	75.36	5.662				
15,100.00	12,283.12	14,812.27	11,990.10	70.11	69.49	46.58	-3,382.65	-131.15	426.75	350.07	76.68	5.566				
15,200.00	12,284.21	14,912.27	11,991.18	71.43	70.82	46.58	-3,482.64	-130.28	426.75	348.75	78.00	5.471				
15,300.00	12,285.29	15,012.27	11,992.26	72.76	72.17	46.58	-3,582.63	-129.40	426.75	347.41	79.34	5.379				
15,400.00	12,286.37	15,112.27	11,993.35	74.11	73.52	46.58	-3,682.62	-128.53	426.75	346.06	80.69	5.289				
15,500.00	12,287.46	15,212.27	11,994.43	75.46	74.89	46.58	-3,782.61	-127.66	426.76	344.70	82.06	5.201				
15,600.00	12,288.54	15,312.27	11,995.51	76.83	76.27	46.58	-3,882.61	-126.79	426.76	343.33	83.43	5.115				
15,700.00	12,289.62	15,412.27	11,996.59	78.21	77.66	46.58	-3,982.60	-125.91	426.76	341.95	84.81	5.032				
15,800.00	12,290.71	15,512.27	11,997.67	79.60	79.06	46.58	-4,082.59	-125.04	426.76	340.56	86.20	4.951				
15,900.00	12,291.79	15,612.27	11,998.75	81.00	80.46	46.58	-4,182.58	-124.17	426.76	339.16	87.60	4.871				
16,000.00	12,292.87	15,712.27	11,999.83	82.41	81.88	46.58	-4,282.57	-123.30	426.76	337.75	89.01	4.794				
16,100.00	12,293.95	15,812.27	12,000.91	83.83	83.31	46.57	-4,382.56	-122.42	426.76	336.34	90.43	4.719				
16,200.00	12,295.04	15,912.27	12,001.99	85.25	84.74	46.57	-4,482.55	-121.55	426.77	334.92	91.85	4.646				
16,300.00	12,296.12	16,012.27	12,003.07	86.69	86.19	46.57	-4,582.54	-120.68	426.77	333.49	93.28	4.575				
16,400.00	12,297.20	16,112.27	12,004.15	88.13	87.64	46.57	-4,682.53	-119.81	426.77	332.06	94.71	4.506				
16,500.00	12,298.29	16,212.27	12,005.23	89.58	89.09	46.57	-4,782.52	-118.94	426.77	330.62	96.15	4.439				
16,600.00	12,299.37	16,312.27	12,006.31	91.03	90.56	46.57	-4,882.51	-118.06	426.77	329.18	97.59	4.373				
16,700.00	12,300.45	16,412.27	12,007.40	92.50	92.03	46.57	-4,982.50	-117.19	426.77	327.73	99.04	4.309				
16,800.00	12,301.53	16,512.27	12,008.48	93.97	93.50	46.57	-5,082.49	-116.32	426.78	326.28	100.49	4.247				
16,900.00	12,302.62	16,612.27	12,009.56	95.44	94.99	46.57	-5,182.48	-115.45	426.78	324.83	101.95	4.186				
17,000.00	12,303.70	16,712.27	12,010.64	96.92	96.47	46.57	-5,282.47	-114.57	426.78	323.37	103.41	4.127				
17,100.00	12,304.78	16,812.27	12,011.72	98.41	97.97	46.57	-5,382.46	-113.70	426.78	321.91	104.87	4.070				
17,200.00	12,305.87	16,912.27	12,012.80	99.90	99.47	46.57	-5,482.45	-112.83	426.78	320.45	106.33	4.014				
17,300.00	12,306.95	17,012.27	12,013.88	101.39	100.97	46.57	-5,582.44	-111.96	426.78	318.98	107.80	3.959				
17,400.00	12,308.03	17,112.27	12,014.96	102.90	102.48	46.57	-5,682.43	-111.08	426.78	317.51	109.27	3.906				
17,500.00	12,309.12	17,212.27	12,016.04	104.40	103.99	46.57	-5,782.42	-110.21	426.79	316.04	110.74	3.854				
17,600.00	12,310.20	17,312.27	12,017.12	105.91	105.50	46.57	-5,882.41	-109.34	426.79	314.57	112.22	3.803				
17,700.00	12,311.28	17,412.27	12,018.20	107.43	107.02	46.57	-5,982.40	-108.47	426.79	313.10	113.69	3.754				
17,800.00	12,312.36	17,512.27	12,019.28	108.94	108.55	46.57	-6,082.39	-107.59	426.79	311.62	115.17	3.706				
17,900.00	12,313.45	17,612.27	12,020.36	110.47	110.08	46.57	-6,182.38	-106.72	426.79	310.15	116.64	3.659				
18,000.00	12,314.53	17,712.27	12,021.45	111.99	111.61	46.57	-6,282.37	-105.85	426.79	308.67	118.12	3.613				
18,100.00	12,315.61	17,812.27	12,022.53	113.52	113.14	46.57	-6,382.36	-104.98	426.80	307.19	119.60	3.568				
18,200.00	12,316.70	17,912.27	12,023.61	115.05	114.68	46.57	-6,482.35	-104.10	426.80	305.72	121.08	3.525				
18,300.00	12,317.78	18,012.27	12,024.69	116.59	116.22	46.57	-6,582.34	-103.23	426.80	304.24	122.56	3.482				
18,400.00	12,318.86	18,112.27	12,025.77	118.13	117.76	46.57	-6,682.34	-102.36	426.80	302.76	124.04	3.441				
18,500.00	12,319.94	18,212.27	12,026.85	119.67	119.31	46.57	-6,782.33	-101.49	426.80	301.28	125.52	3.400				
18,600.00	12,321.03	18,312.27	12,027.93	121.22	120.86	46.57	-6,882.32	-100.62	426.80	299.80	127.00	3.361				
18,700.00	12,322.11	18,412.27	12,029.01	122.76	122.41	46.57	-6,982.31	-99.74	426.80	298.32	128.48	3.322				
18,800.00	12,323.19	18,512.27	12,030.09	124.32	123.97	46.57	-7,082.30	-98.87	426.81	296.85	129.96	3.284				
18,900.00	12,324.28	18,612.27	12,031.17	125.87	125.53	46.57	-7,182.29	-98.00	426.81	295.37	131.44	3.247				
19,000.00	12,325.36	18,712.27	12,032.25	127.42	127.09	46.57	-7,282.28	-97.13	426.81	293.89	132.92	3.211				
19,100.00	12,326.44	18,812.27	12,033.33	128.98	128.65	46.57	-7,382.27	-96.25	426.81	292.42	134.40	3.176				
19,200.00	12,327.53	18,912.27	12,034.41	130.54	130.21	46.57	-7,482.26	-95.38	426.81	290.94	135.87	3.141				
19,300.00	12,328.61	19,012.27	12,035.50	132.11	131.78	46.57	-7,582.25	-94.51	426.81	289.47	137.35	3.108				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Judge Baylor Fed Com - Judge Baylor Fed Com 601H - OH - Plan #5		Offset Site Error: 0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	12,329.69	19,112.27	12,036.58	133.67	133.35	46.57	-7,682.24	-93.64	426.82	287.99	138.82	3.075				
19,500.00	12,330.77	19,212.27	12,037.66	135.24	134.92	46.57	-7,782.23	-92.76	426.82	286.52	140.30	3.042				
19,600.00	12,331.86	19,312.27	12,038.74	136.81	136.49	46.57	-7,882.22	-91.89	426.82	285.05	141.77	3.011				
19,700.00	12,332.94	19,412.27	12,039.82	138.38	138.07	46.57	-7,982.21	-91.02	426.82	283.58	143.24	2.980				
19,800.00	12,334.02	19,512.27	12,040.90	139.95	139.64	46.57	-8,082.20	-90.15	426.82	282.11	144.72	2.949				
19,900.00	12,335.11	19,612.27	12,041.98	141.52	141.22	46.57	-8,182.19	-89.27	426.82	280.64	146.19	2.920				
20,000.00	12,336.19	19,712.27	12,043.06	143.10	142.80	46.57	-8,282.18	-88.40	426.82	279.17	147.65	2.891				
20,100.00	12,337.27	19,812.27	12,044.14	144.68	144.38	46.57	-8,382.17	-87.53	426.83	277.71	149.12	2.862				
20,200.00	12,338.35	19,912.27	12,045.22	146.26	145.96	46.57	-8,482.16	-86.66	426.83	276.24	150.59	2.834				
20,300.00	12,339.44	20,012.27	12,046.30	147.84	147.55	46.57	-8,582.15	-85.79	426.83	274.78	152.05	2.807				
20,400.00	12,340.52	20,112.27	12,047.38	149.42	149.13	46.57	-8,682.14	-84.91	426.83	273.32	153.51	2.780				
20,500.00	12,341.60	20,212.27	12,048.46	151.01	150.72	46.57	-8,782.13	-84.04	426.83	271.86	154.97	2.754				
20,600.00	12,342.69	20,312.27	12,049.55	152.59	152.31	46.57	-8,882.12	-83.17	426.83	270.40	156.43	2.729				
20,700.00	12,343.77	20,412.27	12,050.63	154.18	153.90	46.57	-8,982.11	-82.30	426.84	268.94	157.89	2.703				
20,800.00	12,344.85	20,512.27	12,051.71	155.77	155.49	46.57	-9,082.10	-81.42	426.84	267.49	159.35	2.679				
20,900.00	12,345.94	20,612.27	12,052.79	157.36	157.08	46.57	-9,182.09	-80.55	426.84	266.04	160.80	2.654				
21,000.00	12,347.02	20,712.27	12,053.87	158.95	158.68	46.56	-9,282.08	-79.68	426.84	264.59	162.25	2.631				
21,100.00	12,348.10	20,812.27	12,054.95	160.54	160.27	46.56	-9,382.07	-78.81	426.84	263.14	163.70	2.607				
21,200.00	12,349.18	20,912.27	12,056.03	162.13	161.87	46.56	-9,482.07	-77.93	426.84	261.69	165.15	2.585				
21,300.00	12,350.27	21,012.27	12,057.11	163.73	163.47	46.56	-9,582.06	-77.06	426.85	260.24	166.60	2.562				
21,400.00	12,351.35	21,112.27	12,058.19	165.32	165.06	46.56	-9,682.05	-76.19	426.85	258.80	168.05	2.540				
21,500.00	12,352.43	21,212.27	12,059.27	166.92	166.66	46.56	-9,782.04	-75.32	426.85	257.36	169.49	2.518				
21,600.00	12,353.52	21,312.27	12,060.35	168.52	168.26	46.56	-9,882.03	-74.44	426.85	255.92	170.93	2.497				
21,700.00	12,354.60	21,412.27	12,061.43	170.12	169.87	46.56	-9,982.02	-73.57	426.85	254.48	172.37	2.476				
21,800.00	12,355.68	21,512.27	12,062.51	171.72	171.47	46.56	-10,082.01	-72.70	426.85	253.05	173.81	2.456				
21,900.00	12,356.76	21,612.27	12,063.60	173.32	173.07	46.56	-10,182.00	-71.83	426.85	251.61	175.24	2.436				
22,000.00	12,357.85	21,712.27	12,064.68	174.92	174.68	46.56	-10,281.99	-70.96	426.86	250.18	176.68	2.416				
22,100.00	12,358.93	21,812.27	12,065.76	176.52	176.28	46.56	-10,381.98	-70.08	426.86	248.75	178.11	2.397				
22,200.00	12,360.01	21,912.27	12,066.84	178.13	177.89	46.56	-10,481.97	-69.21	426.86	247.32	179.54	2.378				
22,300.00	12,361.10	22,012.27	12,067.92	179.73	179.49	46.56	-10,581.96	-68.34	426.86	245.90	180.96	2.359				
22,309.38	12,361.20	22,021.65	12,068.02	179.88	179.64	46.56	-10,591.34	-68.26	426.86	245.76	181.10	2.357				
22,389.94	12,362.07	22,101.01	12,068.88	181.18	180.92	46.56	-10,670.69	-67.56	426.86	244.63	182.24	2.342 SF				
22,390.61	12,362.08	22,101.01	12,068.88	181.19	180.92	46.56	-10,670.69	-67.56	426.87	244.65	182.22	2.343				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - OH		Offset Site Error:	0.00 usft
Survey Program: 190-MWD															Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
0.00	0.00	0.00	0.00	0.00	0.00	89.47	39.55	4,239.68	4,239.97							
100.00	100.00	70.80	70.80	0.14	0.11	89.47	39.55	4,239.68	4,239.86	4,239.69	0.18	N/A				
200.00	200.00	170.80	170.80	0.50	0.26	89.47	39.55	4,239.68	4,239.86	4,239.30	0.56	7,536.090				
300.00	300.00	304.30	304.29	0.86	0.68	89.47	39.12	4,239.22	4,239.54	4,238.44	1.10	3,862.672				
400.00	400.00	441.53	441.51	1.22	1.17	89.48	38.16	4,237.55	4,238.31	4,236.63	1.69	2,514.111				
500.00	500.00	581.15	581.10	1.58	1.67	89.50	36.88	4,234.62	4,236.22	4,233.92	2.29	1,848.244				
600.00	600.00	709.75	709.61	1.93	2.13	89.54	34.23	4,230.68	4,233.10	4,230.22	2.87	1,473.147				
700.00	700.00	800.18	799.97	2.29	2.46	89.56	32.22	4,227.79	4,229.88	4,226.53	3.36	1,260.671				
800.00	800.00	884.27	883.99	2.65	2.76	89.59	30.06	4,225.39	4,227.02	4,223.19	3.82	1,106.210				
900.00	900.00	954.54	954.22	3.01	3.01	89.62	28.22	4,223.73	4,224.65	4,220.40	4.25	993.449				
1,000.00	1,000.00	1,121.10	1,120.66	3.37	3.62	89.66	24.69	4,218.49	4,221.23	4,216.30	4.93	855.790				
1,100.00	1,100.00	1,213.28	1,212.77	3.73	3.95	89.69	23.03	4,215.44	4,217.90	4,212.47	5.42	778.192				
1,200.00	1,200.00	1,328.28	1,327.69	4.08	4.37	89.71	21.10	4,211.29	4,214.27	4,208.30	5.97	706.249				
1,300.00	1,300.00	1,345.00	1,344.39	4.44	4.43	89.72	20.83	4,210.67	4,211.37	4,205.10	6.26	672.590				
1,373.59	1,373.59	1,345.00	1,344.39	4.71	4.43	89.72	20.83	4,210.67	4,210.72	4,204.27	6.45	652.696	CC, ES			
1,400.00	1,400.00	1,345.00	1,344.39	4.80	4.43	89.72	20.83	4,210.67	4,210.81	4,204.29	6.52	645.790				
1,500.00	1,500.00	1,345.00	1,344.39	5.16	4.43	89.72	20.83	4,210.67	4,212.62	4,205.83	6.79	620.778				
1,600.00	1,600.00	1,345.00	1,344.39	5.52	4.43	89.72	20.83	4,210.67	4,216.81	4,209.75	7.06	597.552				
1,700.00	1,700.00	1,345.00	1,344.39	5.88	4.43	89.72	20.83	4,210.67	4,223.36	4,216.02	7.33	576.073				
1,800.00	1,800.00	1,345.00	1,344.39	6.24	4.43	89.72	20.83	4,210.67	4,232.26	4,224.65	7.61	556.275				
1,900.00	1,900.00	1,345.00	1,344.39	6.59	4.43	89.72	20.83	4,210.67	4,243.50	4,235.61	7.89	538.075				
2,000.00	2,000.00	1,345.00	1,344.39	6.95	4.43	89.72	20.83	4,210.67	4,257.06	4,248.90	8.16	521.384				
2,100.00	2,100.00	1,345.00	1,344.39	7.31	4.43	89.72	20.83	4,210.67	4,272.92	4,264.48	8.44	506.105				
2,200.00	2,200.00	1,345.00	1,344.39	7.67	4.43	89.72	20.83	4,210.67	4,291.05	4,282.33	8.72	492.144				
2,300.00	2,300.00	1,345.00	1,344.39	8.03	4.43	89.72	20.83	4,210.67	4,311.43	4,302.44	8.99	479.408				
2,400.00	2,400.00	1,345.00	1,344.39	8.39	4.43	89.72	20.83	4,210.67	4,334.02	4,324.75	9.26	467.808				
2,500.00	2,500.00	1,345.00	1,344.39	8.74	4.43	89.72	20.83	4,210.67	4,358.78	4,349.25	9.53	457.259				
2,600.00	2,600.00	1,345.00	1,344.39	9.10	4.43	89.72	20.83	4,210.67	4,385.69	4,375.89	9.80	447.681				
2,700.00	2,700.00	1,345.00	1,344.39	9.46	4.43	89.72	20.83	4,210.67	4,414.70	4,404.64	10.06	439.001				
2,800.00	2,799.99	1,345.00	1,344.39	9.80	4.43	-62.89	20.83	4,210.67	4,445.21	4,434.91	10.30	431.746				
2,900.00	2,899.91	1,345.00	1,344.39	10.13	4.43	-62.45	20.83	4,210.67	4,476.61	4,466.10	10.52	425.652				
2,966.50	2,966.29	1,345.00	1,344.39	10.35	4.43	-62.15	20.83	4,210.67	4,497.98	4,487.32	10.66	421.843				
3,000.00	2,999.70	1,345.00	1,344.39	10.46	4.43	-62.15	20.83	4,210.67	4,508.95	4,498.21	10.74	419.989				
3,100.00	3,099.46	1,345.00	1,344.39	10.79	4.43	-62.15	20.83	4,210.67	4,543.00	4,532.04	10.95	414.708				
3,200.00	3,199.22	1,345.00	1,344.39	11.12	4.43	-62.15	20.83	4,210.67	4,578.98	4,567.81	11.17	409.896				
3,300.00	3,298.97	1,345.00	1,344.39	11.46	4.43	-62.15	20.83	4,210.67	4,616.85	4,605.46	11.38	405.530				
3,400.00	3,398.73	1,345.00	1,344.39	11.80	4.43	-62.15	20.83	4,210.67	4,656.56	4,644.96	11.60	401.586				
3,500.00	3,498.49	1,345.00	1,344.39	12.14	4.43	-62.15	20.83	4,210.67	4,698.06	4,686.25	11.80	398.041				
3,600.00	3,598.24	1,345.00	1,344.39	12.48	4.43	-62.15	20.83	4,210.67	4,741.30	4,729.30	12.01	394.871				
3,700.00	3,698.00	1,345.00	1,344.39	12.83	4.43	-62.15	20.83	4,210.67	4,786.25	4,774.04	12.21	392.054				
3,800.00	3,797.76	1,345.00	1,344.39	13.17	4.43	-62.15	20.83	4,210.67	4,832.85	4,820.44	12.41	389.569				
3,900.00	3,897.51	1,345.00	1,344.39	13.52	4.43	-62.15	20.83	4,210.67	4,881.05	4,868.45	12.60	387.394				
4,000.00	3,997.27	1,345.00	1,344.39	13.87	4.43	-62.15	20.83	4,210.67	4,930.81	4,918.02	12.79	385.509				
4,100.00	4,097.03	1,345.00	1,344.39	14.22	4.43	-62.15	20.83	4,210.67	4,982.08	4,969.10	12.98	383.896				
4,200.00	4,196.78	1,345.00	1,344.39	14.58	4.43	-62.15	20.83	4,210.67	5,034.81	5,021.65	13.16	382.534				
4,300.00	4,296.54	1,345.00	1,344.39	14.93	4.43	-62.15	20.83	4,210.67	5,088.97	5,075.62	13.34	381.408				
4,400.00	4,396.30	1,345.00	1,344.39	15.28	4.43	-62.15	20.83	4,210.67	5,144.49	5,130.97	13.52	380.500				
4,500.00	4,496.05	1,345.00	1,344.39	15.64	4.43	-62.15	20.83	4,210.67	5,201.35	5,187.65	13.70	379.795				
4,600.00	4,595.81	1,345.00	1,344.39	16.00	4.43	-62.15	20.83	4,210.67	5,259.49	5,245.63	13.87	379.277				
4,700.00	4,695.57	1,345.00	1,344.39	16.36	4.43	-62.15	20.83	4,210.67	5,318.88	5,304.85	14.04	378.931				
4,800.00	4,795.32	1,345.00	1,344.39	16.71	4.43	-62.15	20.83	4,210.67	5,379.47	5,365.27	14.20	378.745				
4,900.00	4,895.08	1,345.00	1,344.39	17.07	4.43	-62.15	20.83	4,210.67	5,441.23	5,426.86	14.37	378.705	SF			

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 190-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,994.84	1,345.00	1,344.39	17.43	4.43	-62.15	20.83	4,210.67	5,504.11	5,489.58	14.53	378.799		
5,100.00	5,094.59	1,345.00	1,344.39	17.79	4.43	-62.15	20.83	4,210.67	5,568.07	5,553.38	14.69	379.015		
5,200.00	5,194.35	1,345.00	1,344.39	18.16	4.43	-62.15	20.83	4,210.67	5,633.09	5,618.24	14.85	379.342		
5,300.00	5,294.11	1,345.00	1,344.39	18.52	4.43	-62.15	20.83	4,210.67	5,699.11	5,684.11	15.01	379.770		
5,400.00	5,393.86	1,345.00	1,344.39	18.88	4.43	-62.15	20.83	4,210.67	5,766.12	5,750.96	15.16	380.289		
5,500.00	5,493.62	1,345.00	1,344.39	19.24	4.43	-62.15	20.83	4,210.67	5,834.07	5,818.75	15.32	380.888		
5,600.00	5,593.38	1,345.00	1,344.39	19.61	4.43	-62.15	20.83	4,210.67	5,902.93	5,887.46	15.47	381.560		
5,700.00	5,693.13	1,345.00	1,344.39	19.97	4.43	-62.15	20.83	4,210.67	5,972.67	5,957.05	15.62	382.295		
5,800.00	5,792.89	1,345.00	1,344.39	20.34	4.43	-62.15	20.83	4,210.67	6,043.26	6,027.49	15.78	383.085		
5,900.00	5,892.65	1,345.00	1,344.39	20.70	4.43	-62.15	20.83	4,210.67	6,114.68	6,098.75	15.93	383.923		
6,000.00	5,992.40	1,345.00	1,344.39	21.07	4.43	-62.15	20.83	4,210.67	6,186.88	6,170.80	16.08	384.801		
6,100.00	6,092.16	1,345.00	1,344.39	21.43	4.43	-62.15	20.83	4,210.67	6,259.85	6,243.62	16.23	385.713		
6,200.00	6,191.92	1,345.00	1,344.39	21.80	4.43	-62.15	20.83	4,210.67	6,333.56	6,317.18	16.38	386.652		
6,300.00	6,291.67	1,345.00	1,344.39	22.17	4.43	-62.15	20.83	4,210.67	6,407.98	6,391.45	16.53	387.611		
6,400.00	6,391.43	1,345.00	1,344.39	22.53	4.43	-62.15	20.83	4,210.67	6,483.09	6,466.40	16.68	388.585		
6,500.00	6,491.19	1,345.00	1,344.39	22.90	4.43	-62.15	20.83	4,210.67	6,558.86	6,542.02	16.84	389.568		
6,600.00	6,590.94	1,345.00	1,344.39	23.27	4.43	-62.15	20.83	4,210.67	6,635.28	6,618.29	16.99	390.555		
6,700.00	6,690.70	1,345.00	1,344.39	23.64	4.43	-62.15	20.83	4,210.67	6,712.31	6,695.17	17.14	391.541		
6,800.00	6,790.46	1,345.00	1,344.39	24.00	4.43	-62.15	20.83	4,210.67	6,789.94	6,772.65	17.30	392.522		
6,900.00	6,890.21	1,345.00	1,344.39	24.37	4.43	-62.15	20.83	4,210.67	6,868.16	6,850.70	17.45	393.493		
7,000.00	6,989.97	1,345.00	1,344.39	24.74	4.43	-62.15	20.83	4,210.67	6,946.93	6,929.32	17.61	394.450		
7,100.00	7,089.73	1,345.00	1,344.39	25.11	4.43	-62.15	20.83	4,210.67	7,026.24	7,008.47	17.77	395.389		
7,200.00	7,189.48	1,345.00	1,344.39	25.48	4.43	-62.15	20.83	4,210.67	7,106.07	7,088.14	17.93	396.306		
7,300.00	7,289.24	1,345.00	1,344.39	25.85	4.43	-62.15	20.83	4,210.67	7,186.41	7,168.32	18.09	397.200		
7,400.00	7,389.00	1,345.00	1,344.39	26.22	4.43	-62.15	20.83	4,210.67	7,267.24	7,248.98	18.26	398.065		
7,504.97	7,493.71	1,345.00	1,344.39	26.61	4.43	-62.15	20.83	4,210.67	7,352.59	7,334.16	18.43	398.941		
7,600.00	7,588.58	1,345.00	1,344.39	26.95	4.43	-63.98	20.83	4,210.67	7,430.60	7,412.01	18.59	399.736		
7,700.00	7,688.53	1,345.00	1,344.39	27.31	4.43	-66.01	20.83	4,210.67	7,513.73	7,494.98	18.76	400.625		
7,771.47	7,760.00	1,345.00	1,344.39	27.56	4.43	85.50	20.83	4,210.67	7,573.76	7,554.89	18.87	401.335		
7,800.00	7,788.53	1,345.00	1,344.39	27.66	4.43	85.50	20.83	4,210.67	7,597.83	7,578.91	18.92	401.638		
7,900.00	7,888.53	1,345.00	1,344.39	27.99	4.43	85.50	20.83	4,210.67	7,682.45	7,663.37	19.08	402.694		
8,000.00	7,988.53	1,345.00	1,344.39	28.33	4.43	85.50	20.83	4,210.67	7,767.43	7,748.19	19.24	403.685		
8,100.00	8,088.53	1,345.00	1,344.39	28.66	4.43	85.50	20.83	4,210.67	7,852.77	7,833.36	19.41	404.613		
8,200.00	8,188.53	1,345.00	1,344.39	29.00	4.43	85.50	20.83	4,210.67	7,938.45	7,918.87	19.58	405.475		
8,300.00	8,288.53	1,345.00	1,344.39	29.34	4.43	85.50	20.83	4,210.67	8,024.46	8,004.71	19.75	406.272		
8,400.00	8,388.53	1,345.00	1,344.39	29.68	4.43	85.50	20.83	4,210.67	8,110.79	8,090.86	19.93	407.003		
8,500.00	8,488.53	1,345.00	1,344.39	30.02	4.43	85.50	20.83	4,210.67	8,197.44	8,177.33	20.11	407.669		
8,600.00	8,588.53	1,345.00	1,344.39	30.36	4.43	85.50	20.83	4,210.67	8,284.38	8,264.09	20.29	408.268		
8,700.00	8,688.53	1,345.00	1,344.39	30.70	4.43	85.50	20.83	4,210.67	8,371.61	8,351.14	20.48	408.803		
8,800.00	8,788.53	1,345.00	1,344.39	31.04	4.43	85.50	20.83	4,210.67	8,459.13	8,438.46	20.67	409.272		
8,900.00	8,888.53	1,345.00	1,344.39	31.38	4.43	85.50	20.83	4,210.67	8,546.92	8,526.06	20.86	409.676		
9,000.00	8,988.53	1,345.00	1,344.39	31.72	4.43	85.50	20.83	4,210.67	8,634.98	8,613.92	21.06	410.016		
9,100.00	9,088.53	1,345.00	1,344.39	32.06	4.43	85.50	20.83	4,210.67	8,723.29	8,702.03	21.26	410.292		
9,200.00	9,188.53	1,345.00	1,344.39	32.40	4.43	85.50	20.83	4,210.67	8,811.86	8,790.39	21.47	410.506		
9,300.00	9,288.53	1,345.00	1,344.39	32.75	4.43	85.50	20.83	4,210.67	8,900.67	8,878.99	21.67	410.658		
9,400.00	9,388.53	1,345.00	1,344.39	33.09	4.43	85.50	20.83	4,210.67	8,989.71	8,967.82	21.89	410.748		
9,500.00	9,488.53	1,345.00	1,344.39	33.43	4.43	85.50	20.83	4,210.67	9,078.98	9,056.87	22.10	410.778		
9,600.00	9,588.53	1,345.00	1,344.39	33.77	4.43	85.50	20.83	4,210.67	9,168.47	9,146.15	22.32	410.749		
9,700.00	9,688.53	1,345.00	1,344.39	34.12	4.43	85.50	20.83	4,210.67	9,258.17	9,235.63	22.54	410.662		
9,800.00	9,788.53	1,345.00	1,344.39	34.46	4.43	85.50	20.83	4,210.67	9,348.09	9,325.32	22.77	410.518		
9,900.00	9,888.53	1,345.00	1,344.39	34.81	4.43	85.50	20.83	4,210.67	9,438.21	9,415.21	23.00	410.319		
10,000.00	9,988.53	1,345.00	1,344.39	35.15	4.43	85.50	20.83	4,210.67	9,528.52	9,505.29	23.24	410.065		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 190-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	10,088.53	1,345.00	1,344.39	35.50	4.43	85.50	20.83	4,210.67	9,619.03	9,595.56	23.47	409.758	
10,200.00	10,188.53	1,345.00	1,344.39	35.84	4.43	85.50	20.83	4,210.67	9,709.72	9,686.01	23.72	409.400	
10,300.00	10,288.53	1,345.00	1,344.39	36.19	4.43	85.50	20.83	4,210.67	9,800.60	9,776.63	23.96	408.991	
10,400.00	10,388.53	1,345.00	1,344.39	36.53	4.43	85.50	20.83	4,210.67	9,891.65	9,867.44	24.21	408.533	
10,500.00	10,488.53	1,345.00	1,344.39	36.88	4.43	85.50	20.83	4,210.67	9,982.87	9,958.40	24.47	408.028	

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design		LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - Plan #7											Offset Site Error:		0.00 usft
Survey Program:		190-MWD, 1345-OWSG (Rev2) MWD											Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	89.47	39.55	4,239.68	4,239.97						
100.00	100.00	70.80	70.80	0.14	0.11	89.47	39.55	4,239.68	4,239.86	4,239.69	0.18	N/A			
200.00	200.00	170.80	170.80	0.50	0.26	89.47	39.55	4,239.68	4,239.86	4,239.30	0.56	7,536.090			
300.00	300.00	304.30	304.29	0.86	0.68	89.47	39.12	4,239.22	4,239.54	4,238.44	1.10	3,862.672			
400.00	400.00	441.53	441.51	1.22	1.17	89.48	38.16	4,237.55	4,238.31	4,236.63	1.69	2,514.111			
500.00	500.00	581.15	581.10	1.58	1.67	89.50	36.88	4,234.62	4,236.22	4,233.92	2.29	1,848.244			
600.00	600.00	709.75	709.61	1.93	2.13	89.54	34.23	4,230.68	4,233.10	4,230.22	2.87	1,473.147			
700.00	700.00	800.18	799.97	2.29	2.46	89.56	32.22	4,227.79	4,229.88	4,226.53	3.36	1,260.671			
800.00	800.00	884.27	883.99	2.65	2.76	89.59	30.06	4,225.39	4,227.02	4,223.19	3.82	1,106.210			
900.00	900.00	954.54	954.22	3.01	3.01	89.62	28.22	4,223.73	4,224.65	4,220.40	4.25	993.449			
1,000.00	1,000.00	1,121.10	1,120.66	3.37	3.62	89.66	24.69	4,218.49	4,221.23	4,216.30	4.93	855.790			
1,100.00	1,100.00	1,213.28	1,212.77	3.73	3.95	89.69	23.03	4,215.44	4,217.90	4,212.47	5.42	778.192			
1,200.00	1,200.00	1,328.28	1,327.69	4.08	4.37	89.71	21.10	4,211.29	4,214.27	4,208.30	5.97	706.249			
1,300.00	1,300.00	1,428.20	1,427.52	4.44	4.54	89.74	19.45	4,207.58	4,210.54	4,204.21	6.33	664.699			
1,400.00	1,400.00	1,500.00	1,499.27	4.80	4.57	89.75	18.37	4,205.16	4,207.16	4,200.55	6.60	637.013			
1,500.00	1,500.00	1,554.50	1,553.75	5.16	4.59	89.76	17.79	4,203.85	4,204.70	4,197.81	6.89	610.383			
1,600.00	1,600.00	1,600.00	1,599.25	5.52	4.62	89.76	17.46	4,203.11	4,203.25	4,196.07	7.18	585.723			
1,700.00	1,700.00	1,678.00	1,677.24	5.88	4.68	89.76	17.25	4,202.63	4,202.67	4,195.18	7.49	561.117			
1,735.63	1,735.63	1,707.19	1,706.43	6.00	4.70	89.76	17.25	4,202.63	4,202.67	4,195.06	7.61	552.565			
1,800.00	1,800.00	1,771.56	1,770.80	6.24	4.76	89.76	17.25	4,202.63	4,202.67	4,194.84	7.83	536.943			
1,900.00	1,900.00	1,871.56	1,870.80	6.59	4.88	89.76	17.25	4,202.63	4,202.67	4,194.48	8.18	513.577			
2,000.00	2,000.00	1,971.56	1,970.80	6.95	5.02	89.76	17.25	4,202.63	4,202.67	4,194.11	8.55	491.284			
2,100.00	2,100.00	2,071.56	2,070.80	7.31	5.17	89.76	17.25	4,202.63	4,202.67	4,193.73	8.94	470.144			
2,200.00	2,200.00	2,171.56	2,170.80	7.67	5.35	89.76	17.25	4,202.63	4,202.67	4,193.33	9.34	450.183			
2,300.00	2,300.00	2,271.56	2,270.80	8.03	5.55	89.76	17.25	4,202.63	4,202.67	4,192.92	9.74	431.394			
2,400.00	2,400.00	2,371.56	2,370.80	8.39	5.76	89.76	17.25	4,202.63	4,202.67	4,192.51	10.16	413.742			
2,500.00	2,500.00	2,471.56	2,470.80	8.74	5.98	89.76	17.25	4,202.63	4,202.67	4,192.08	10.58	397.178			
2,600.00	2,600.00	2,571.56	2,570.80	9.10	6.22	89.76	17.25	4,202.63	4,202.67	4,191.65	11.01	381.646			
2,700.00	2,700.00	2,671.56	2,670.80	9.46	6.47	89.76	17.25	4,202.63	4,202.67	4,191.22	11.45	367.081			
2,800.00	2,799.99	2,824.93	2,824.15	9.80	6.86	-63.28	15.36	4,201.84	4,201.62	4,189.67	11.95	351.584			
2,900.00	2,899.91	2,985.47	2,984.45	10.13	7.28	-63.30	7.45	4,198.55	4,197.73	4,185.28	12.46	336.998			
2,966.50	2,966.29	3,051.87	3,050.69	10.35	7.47	-63.34	3.17	4,196.76	4,194.10	4,181.36	12.74	329.223			
3,000.00	2,999.70	3,085.31	3,084.05	10.46	7.56	-63.34	1.01	4,195.87	4,192.15	4,179.26	12.88	325.411			
3,100.00	3,099.46	3,185.14	3,183.63	10.79	7.85	-63.34	-5.42	4,193.18	4,186.30	4,172.98	13.32	314.390			
3,200.00	3,199.22	3,284.97	3,283.22	11.12	8.14	-63.34	-11.86	4,190.50	4,180.46	4,166.70	13.76	303.914			
3,300.00	3,298.97	3,384.80	3,382.80	11.46	8.44	-63.33	-18.29	4,187.82	4,174.61	4,160.41	14.20	293.961			
3,400.00	3,398.73	3,484.63	3,482.39	11.80	8.75	-63.33	-24.73	4,185.14	4,168.76	4,154.11	14.65	284.506			
3,500.00	3,498.49	3,584.46	3,581.97	12.14	9.06	-63.33	-31.16	4,182.46	4,162.92	4,147.81	15.11	275.524			
3,600.00	3,598.24	3,684.28	3,681.56	12.48	9.37	-63.33	-37.60	4,179.78	4,157.07	4,141.50	15.57	266.990			
3,700.00	3,698.00	3,784.11	3,781.14	12.83	9.69	-63.32	-44.03	4,177.10	4,151.23	4,135.19	16.04	258.879			
3,800.00	3,797.76	3,883.94	3,880.73	13.17	10.02	-63.32	-50.47	4,174.42	4,145.38	4,128.88	16.50	251.167			
3,900.00	3,897.51	3,983.77	3,980.32	13.52	10.34	-63.32	-56.90	4,171.74	4,139.54	4,122.56	16.98	243.830			
4,000.00	3,997.27	4,083.60	4,079.90	13.87	10.68	-63.31	-63.34	4,169.06	4,133.69	4,116.24	17.45	236.846			
4,100.00	4,097.03	4,183.43	4,179.49	14.22	11.01	-63.31	-69.77	4,166.38	4,127.85	4,109.92	17.93	230.195			
4,200.00	4,196.78	4,283.26	4,279.07	14.58	11.35	-63.31	-76.20	4,163.69	4,122.00	4,103.59	18.41	223.857			
4,300.00	4,296.54	4,383.09	4,378.66	14.93	11.68	-63.31	-82.64	4,161.01	4,116.16	4,097.26	18.90	217.812			
4,400.00	4,396.30	4,482.92	4,478.24	15.28	12.03	-63.30	-89.07	4,158.33	4,110.31	4,090.93	19.38	212.043			
4,500.00	4,496.05	4,582.74	4,577.83	15.64	12.37	-63.30	-95.51	4,155.65	4,104.47	4,084.60	19.87	206.534			
4,600.00	4,495.81	4,682.57	4,677.41	16.00	12.71	-63.30	-101.94	4,152.97	4,098.62	4,078.26	20.36	201.270			
4,700.00	4,495.57	4,782.40	4,777.00	16.36	13.06	-63.29	-108.38	4,150.29	4,092.78	4,071.92	20.86	196.236			
4,800.00	4,795.32	4,882.23	4,876.58	16.71	13.41	-63.29	-114.81	4,147.61	4,086.93	4,065.58	21.35	191.418			
4,900.00	4,895.08	4,982.06	4,976.17	17.07	13.76	-63.29	-121.25	4,144.93	4,081.09	4,059.24	21.85	186.805			

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - Plan #7		Offset Site Error:	0.00 usft
Survey Program: 190-MWD, 1345-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,000.00	4,994.84	5,081.89	5,075.75	17.43	14.11	-63.28	-127.68	4,142.25	4,075.24	4,052.90	22.34	182.384				
5,100.00	5,094.59	5,181.72	5,175.34	17.79	14.46	-63.28	-134.12	4,139.57	4,069.40	4,046.56	22.84	178.144				
5,200.00	5,194.35	5,281.55	5,274.92	18.16	14.82	-63.28	-140.55	4,136.89	4,063.55	4,040.21	23.34	174.076				
5,300.00	5,294.11	5,381.37	5,374.51	18.52	15.17	-63.28	-146.99	4,134.21	4,057.71	4,033.86	23.85	170.169				
5,400.00	5,393.86	5,481.20	5,474.09	18.88	15.53	-63.27	-153.42	4,131.52	4,051.86	4,027.52	24.35	166.415				
5,500.00	5,493.62	5,581.03	5,573.68	19.24	15.88	-63.27	-159.86	4,128.84	4,046.02	4,021.17	24.85	162.806				
5,600.00	5,593.38	5,680.86	5,673.26	19.61	16.24	-63.27	-166.29	4,126.16	4,040.17	4,014.82	25.36	159.334				
5,700.00	5,693.13	5,780.69	5,772.85	19.97	16.60	-63.26	-172.72	4,123.48	4,034.33	4,008.47	25.86	155.992				
5,800.00	5,792.89	5,880.52	5,872.43	20.34	16.96	-63.26	-179.16	4,120.80	4,028.48	4,002.12	26.37	152.773				
5,900.00	5,892.65	5,980.35	5,972.02	20.70	17.32	-63.26	-185.59	4,118.12	4,022.64	3,995.76	26.88	149.670				
6,000.00	5,992.40	6,080.18	6,071.60	21.07	17.68	-63.25	-192.03	4,115.44	4,016.80	3,989.41	27.39	146.677				
6,100.00	6,092.16	6,180.01	6,171.19	21.43	18.04	-63.25	-198.46	4,112.76	4,010.95	3,983.06	27.89	143.790				
6,200.00	6,191.92	6,279.83	6,270.77	21.80	18.40	-63.25	-204.90	4,110.08	4,005.11	3,976.70	28.40	141.003				
6,300.00	6,291.67	6,379.66	6,370.36	22.17	18.77	-63.25	-211.33	4,107.40	3,999.26	3,970.35	28.92	138.311				
6,400.00	6,391.43	6,479.49	6,469.94	22.53	19.13	-63.24	-217.77	4,104.72	3,993.42	3,963.99	29.43	135.709				
6,500.00	6,491.19	6,579.32	6,569.53	22.90	19.49	-63.24	-224.20	4,102.04	3,987.57	3,957.63	29.94	133.193				
6,600.00	6,590.94	6,679.15	6,669.11	23.27	19.86	-63.24	-230.64	4,099.35	3,981.73	3,951.28	30.45	130.759				
6,700.00	6,690.70	6,778.98	6,768.70	23.64	20.22	-63.23	-237.07	4,096.67	3,975.88	3,944.92	30.96	128.404				
6,800.00	6,790.46	6,878.81	6,868.28	24.00	20.59	-63.23	-243.51	4,093.99	3,970.04	3,938.56	31.48	126.123				
6,900.00	6,890.21	6,978.64	6,967.87	24.37	20.95	-63.23	-249.94	4,091.31	3,964.19	3,932.20	31.99	123.913				
7,000.00	6,989.97	7,067.24	7,056.27	24.74	21.27	-63.22	-255.56	4,088.97	3,958.40	3,925.92	32.48	121.868				
7,100.00	7,089.73	7,138.57	7,127.50	25.11	21.53	-63.24	-259.06	4,087.51	3,953.20	3,920.27	32.93	120.050				
7,200.00	7,189.48	7,200.00	7,188.88	25.48	21.75	-63.26	-261.09	4,086.67	3,948.74	3,915.39	33.35	118.390				
7,300.00	7,289.24	7,281.18	7,270.04	25.85	22.02	-63.32	-262.37	4,086.13	3,944.97	3,911.16	33.81	116.682				
7,400.00	7,389.00	7,370.93	7,359.80	26.22	22.31	-63.40	-262.45	4,086.10	3,941.79	3,907.51	34.28	114.998				
7,504.97	7,493.71	7,475.64	7,464.51	26.61	22.64	-63.49	-262.45	4,086.10	3,938.51	3,903.73	34.79	113.217				
7,600.00	7,588.58	7,570.51	7,559.38	26.95	22.94	-63.53	-262.45	4,086.10	3,936.08	3,900.83	35.25	111.669				
7,700.00	7,688.53	7,670.46	7,659.33	27.31	23.26	-63.56	-262.45	4,086.10	3,934.66	3,898.94	35.73	110.128				
7,771.47	7,760.00	7,741.93	7,730.80	27.56	23.49	89.47	-262.45	4,086.10	3,934.37	3,898.30	36.07	109.090				
7,800.00	7,788.53	7,770.46	7,759.33	27.66	23.58	89.47	-262.45	4,086.10	3,934.37	3,898.17	36.20	108.691				
7,900.00	7,888.53	7,870.46	7,859.33	27.99	23.90	89.47	-262.45	4,086.10	3,934.37	3,897.70	36.66	107.309				
8,000.00	7,988.53	7,970.46	7,959.33	28.33	24.23	89.47	-262.45	4,086.10	3,934.37	3,897.23	37.13	105.959				
8,100.00	8,088.53	8,070.46	8,059.33	28.66	24.55	89.47	-262.45	4,086.10	3,934.37	3,896.77	37.60	104.640				
8,200.00	8,188.53	8,170.46	8,159.33	29.00	24.88	89.47	-262.45	4,086.10	3,934.37	3,896.30	38.07	103.351				
8,300.00	8,288.53	8,270.46	8,259.33	29.34	25.20	89.47	-262.45	4,086.10	3,934.37	3,895.83	38.54	102.090				
8,400.00	8,388.53	8,370.46	8,359.33	29.68	25.53	89.47	-262.45	4,086.10	3,934.37	3,895.36	39.01	100.857				
8,500.00	8,488.53	8,470.46	8,459.33	30.02	25.86	89.47	-262.45	4,086.10	3,934.37	3,894.88	39.48	99.652				
8,600.00	8,588.53	8,570.46	8,559.33	30.36	26.19	89.47	-262.45	4,086.10	3,934.37	3,894.41	39.95	98.473				
8,700.00	8,688.53	8,670.46	8,659.33	30.70	26.51	89.47	-262.45	4,086.10	3,934.37	3,893.94	40.43	97.319				
8,800.00	8,788.53	8,770.46	8,759.33	31.04	26.84	89.47	-262.45	4,086.10	3,934.37	3,893.46	40.90	96.191				
8,900.00	8,888.53	8,870.46	8,859.33	31.38	27.18	89.47	-262.45	4,086.10	3,934.37	3,892.99	41.38	95.086				
9,000.00	8,988.53	8,970.46	8,959.33	31.72	27.51	89.47	-262.45	4,086.10	3,934.37	3,892.51	41.85	94.005				
9,100.00	9,088.53	9,070.46	9,059.33	32.06	27.84	89.47	-262.45	4,086.10	3,934.37	3,892.04	42.33	92.947				
9,200.00	9,188.53	9,170.46	9,159.33	32.40	28.17	89.47	-262.45	4,086.10	3,934.37	3,891.56	42.81	91.910				
9,300.00	9,288.53	9,270.46	9,259.33	32.75	28.50	89.47	-262.45	4,086.10	3,934.37	3,891.08	43.28	90.895				
9,400.00	9,388.53	9,370.46	9,359.33	33.09	28.84	89.47	-262.45	4,086.10	3,934.37	3,890.60	43.76	89.901				
9,500.00	9,488.53	9,470.46	9,459.33	33.43	29.17	89.47	-262.45	4,086.10	3,934.37	3,890.12	44.24	88.927				
9,600.00	9,588.53	9,570.46	9,559.33	33.77	29.51	89.47	-262.45	4,086.10	3,934.37	3,889.64	44.72	87.973				
9,700.00	9,688.53	9,670.46	9,659.33	34.12	29.84	89.47	-262.45	4,086.10	3,934.37	3,889.16	45.20	87.038				
9,800.00	9,788.53	9,770.46	9,759.33	34.46	30.18	89.47	-262.45	4,086.10	3,934.37	3,888.68	45.68	86.122				
9,900.00	9,888.53	9,870.46	9,859.33	34.81	30.52	89.47	-262.45	4,086.10	3,934.37	3,888.20	46.17	85.223				
10,000.00	9,988.53	9,970.46	9,959.33	35.15	30.85	89.47	-262.45	4,086.10	3,934.37	3,887.72	46.65	84.342				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - Plan #7		Offset Site Error:	0.00 usft
Survey Program: 190-MWD, 1345-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft		
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
10,100.00	10,088.53	10,070.46	10,059.33	35.50	31.19	89.47	-262.45	4,086.10	3,934.37	3,887.24	47.13	83.479				
10,200.00	10,188.53	10,170.46	10,159.33	35.84	31.53	89.47	-262.45	4,086.10	3,934.37	3,886.75	47.61	82.632				
10,300.00	10,288.53	10,270.46	10,259.33	36.19	31.87	89.47	-262.45	4,086.10	3,934.37	3,886.27	48.10	81.801				
10,400.00	10,388.53	10,370.46	10,359.33	36.53	32.21	89.47	-262.45	4,086.10	3,934.37	3,885.78	48.58	80.985				
10,500.00	10,488.53	10,470.46	10,459.33	36.88	32.55	89.47	-262.45	4,086.10	3,934.37	3,885.30	49.07	80.186				
10,600.00	10,588.53	10,570.46	10,559.33	37.22	32.89	89.47	-262.45	4,086.10	3,934.37	3,884.82	49.55	79.401				
10,700.00	10,688.53	10,670.46	10,659.33	37.57	33.23	89.47	-262.45	4,086.10	3,934.37	3,884.33	50.04	78.630				
10,800.00	10,788.53	10,770.46	10,759.33	37.92	33.57	89.47	-262.45	4,086.10	3,934.37	3,883.84	50.52	77.874				
10,900.00	10,888.53	10,870.46	10,859.33	38.26	33.91	89.47	-262.45	4,086.10	3,934.37	3,883.36	51.01	77.132				
11,000.00	10,988.53	10,970.46	10,959.33	38.61	34.25	89.47	-262.45	4,086.10	3,934.37	3,882.87	51.50	76.403				
11,100.00	11,088.53	11,070.46	11,059.33	38.96	34.59	89.47	-262.45	4,086.10	3,934.37	3,882.38	51.98	75.687				
11,115.87	11,104.40	11,086.33	11,075.20	39.01	34.65	89.47	-262.45	4,086.10	3,934.37	3,882.31	52.06	75.574 CC				
11,200.00	11,188.53	11,170.45	11,159.32	39.30	34.93	89.47	-262.45	4,086.10	3,934.37	3,881.90	52.47	74.984				
11,300.00	11,288.53	11,268.94	11,257.29	39.65	35.29	89.60	-271.29	4,086.19	3,934.38	3,881.42	52.97	74.282				
11,400.00	11,388.53	11,361.81	11,347.01	40.00	35.65	89.95	-294.87	4,086.42	3,934.54	3,881.07	53.47	73.590				
11,500.00	11,488.53	11,445.24	11,423.43	40.35	35.99	90.43	-328.16	4,086.75	3,935.12	3,881.17	53.95	72.935				
11,600.00	11,588.53	11,517.66	11,485.25	40.70	36.30	90.98	-365.80	4,087.12	3,936.49	3,882.07	54.42	72.334				
11,694.47	11,683.00	11,576.12	11,531.37	41.02	36.56	91.50	-401.67	4,087.47	3,938.82	3,883.99	54.84	71.830				
11,700.00	11,688.53	11,579.27	11,533.75	41.04	36.58	-87.95	-403.73	4,087.49	3,939.00	3,884.14	54.86	71.802				
11,750.00	11,738.44	11,607.62	11,554.64	41.22	36.71	-87.52	-422.89	4,087.68	3,940.67	3,885.60	55.07	71.556				
11,800.00	11,787.93	11,635.71	11,574.38	41.40	36.84	-87.09	-442.88	4,087.88	3,942.51	3,887.22	55.29	71.309				
11,850.00	11,836.62	11,663.60	11,592.98	41.59	36.97	-86.66	-463.65	4,088.08	3,944.47	3,888.96	55.51	71.063				
11,900.00	11,884.15	11,700.00	11,615.71	41.78	37.15	-86.17	-492.08	4,088.36	3,946.53	3,890.77	55.76	70.776				
11,950.00	11,930.14	11,718.84	11,626.75	41.98	37.25	-85.83	-507.34	4,088.51	3,948.62	3,892.66	55.95	70.568				
12,000.00	11,974.25	11,750.00	11,643.88	42.18	37.41	-85.40	-533.36	4,088.77	3,950.73	3,894.53	56.20	70.302				
12,050.00	12,016.15	11,773.55	11,655.88	42.39	37.53	-85.05	-553.62	4,088.97	3,952.81	3,896.40	56.42	70.066				
12,100.00	12,055.51	11,800.00	11,668.36	42.60	37.67	-84.69	-576.94	4,089.20	3,954.84	3,898.20	56.65	69.814				
12,150.00	12,092.03	11,827.85	11,680.31	42.82	37.82	-84.35	-602.09	4,089.44	3,956.78	3,899.89	56.89	69.548				
12,200.00	12,125.44	11,850.00	11,688.93	43.04	37.94	-84.06	-622.49	4,089.64	3,958.61	3,901.49	57.12	69.304				
12,250.00	12,155.49	11,881.86	11,699.94	43.27	38.12	-83.76	-652.38	4,089.94	3,960.28	3,902.89	57.39	69.004				
12,300.00	12,181.94	11,900.00	11,705.47	43.50	38.23	-83.54	-669.66	4,090.11	3,961.81	3,904.19	57.62	68.763				
12,350.00	12,204.59	11,935.66	11,714.71	43.75	38.43	-83.30	-704.09	4,090.45	3,963.10	3,905.18	57.92	68.426				
12,400.00	12,223.27	11,962.51	11,720.25	43.99	38.59	-83.12	-730.36	4,090.71	3,964.20	3,906.01	58.19	68.124				
12,450.00	12,237.84	12,000.00	11,725.91	44.24	38.81	-82.96	-767.41	4,091.07	3,965.11	3,906.59	58.51	67.764				
12,500.00	12,248.19	12,016.12	11,727.60	44.50	38.90	-82.88	-783.44	4,091.23	3,965.72	3,906.96	58.76	67.494				
12,550.00	12,254.23	12,048.12	11,729.61	44.76	39.09	-82.82	-815.37	4,091.54	3,966.11	3,907.05	59.07	67.144				
12,588.27	12,255.92	12,076.66	11,730.61	44.96	39.27	-82.81	-843.89	4,091.82	3,966.19	3,906.86	59.33	66.850				
12,600.00	12,256.05	12,088.38	11,731.01	45.02	39.34	-82.82	-855.61	4,091.94	3,966.17	3,906.74	59.42	66.746				
12,700.00	12,257.13	12,188.35	11,734.51	45.57	39.99	-82.85	-955.52	4,092.92	3,965.98	3,905.71	60.26	65.810				
12,800.00	12,258.22	12,288.33	11,738.00	46.18	40.70	-82.89	-1,055.42	4,093.91	3,965.79	3,904.61	61.18	64.820				
12,900.00	12,259.30	12,388.30	11,741.49	46.83	41.46	-82.92	-1,155.33	4,094.89	3,965.60	3,903.43	62.17	63.783				
13,000.00	12,260.38	12,488.27	11,744.98	47.54	42.28	-82.96	-1,255.23	4,095.87	3,965.42	3,902.18	63.23	62.710				
13,100.00	12,261.47	12,588.24	11,748.47	48.29	43.14	-82.99	-1,355.14	4,096.86	3,965.23	3,900.87	64.36	61.608				
13,200.00	12,262.55	12,688.21	11,751.96	49.08	44.04	-83.03	-1,455.04	4,097.84	3,965.05	3,899.50	65.55	60.486				
13,300.00	12,263.63	12,788.18	11,755.45	49.92	44.99	-83.06	-1,554.95	4,098.82	3,964.87	3,898.06	66.80	59.351				
13,400.00	12,264.71	12,888.15	11,758.95	50.80	45.98	-83.09	-1,654.85	4,099.81	3,964.69	3,896.58	68.11	58.209				
13,500.00	12,265.80	12,988.12	11,762.44	51.71	47.00	-83.13	-1,754.76	4,100.79	3,964.51	3,895.04	69.47	57.066				
13,600.00	12,266.88	13,088.09	11,765.93	52.66	48.06	-83.16	-1,854.66	4,101.77	3,964.34	3,893.45	70.88	55.927				
13,700.00	12,267.96	13,188.06	11,769.42	53.64	49.16	-83.20	-1,954.57	4,102.76	3,964.16	3,891.82	72.34	54.797				
13,800.00	12,269.05	13,288.03	11,772.91	54.66	50.28	-83.23	-2,054.47	4,103.74	3,963.99	3,890.14	73.85	53.680				
13,900.00	12,270.13	13,388.01	11,776.40	55.71	51.43	-83.27	-2,154.38	4,104.73	3,963.81	3,888.42	75.39	52.577				
14,000.00	12,271.21	13,487.98	11,779.89	56.78	52.61	-83.30	-2,254.28	4,105.71	3,963.64	3,886.67	76.97	51.493				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													LHS Wildcat Fed Com - LHS Wildcat Fed Com 604H - OH - Plan #7		Offset Site Error:	0.00 usft
Survey Program: 190-MWD, 1345-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	12,272.30	13,587.95	11,783.38	57.89	53.81	-83.34	-2,354.19	4,106.69	3,963.47	3,884.88	78.60	50.428				
14,200.00	12,273.38	13,687.92	11,786.88	59.01	55.04	-83.37	-2,454.09	4,107.68	3,963.31	3,883.05	80.25	49.385				
14,300.00	12,274.46	13,787.89	11,790.37	60.17	56.28	-83.41	-2,554.00	4,108.66	3,963.14	3,881.20	81.94	48.365				
14,400.00	12,275.54	13,887.86	11,793.86	61.34	57.55	-83.44	-2,653.90	4,109.64	3,962.98	3,879.31	83.66	47.368				
14,500.00	12,276.63	13,987.83	11,797.35	62.54	58.84	-83.48	-2,753.81	4,110.63	3,962.81	3,877.40	85.41	46.396				
14,600.00	12,277.71	14,087.80	11,800.84	63.76	60.14	-83.51	-2,853.71	4,111.61	3,962.65	3,875.46	87.19	45.449				
14,700.00	12,278.79	14,187.77	11,804.33	64.99	61.47	-83.55	-2,953.62	4,112.59	3,962.49	3,873.50	88.99	44.527				
14,800.00	12,279.88	14,287.74	11,807.82	66.25	62.80	-83.58	-3,053.52	4,113.58	3,962.33	3,871.51	90.82	43.630				
14,900.00	12,280.96	14,387.71	11,811.32	67.52	64.15	-83.62	-3,153.43	4,114.56	3,962.17	3,869.51	92.67	42.758				
15,000.00	12,282.04	14,487.69	11,814.81	68.81	65.52	-83.65	-3,253.33	4,115.54	3,962.02	3,867.48	94.54	41.910				
15,100.00	12,283.12	14,587.66	11,818.30	70.11	66.90	-83.69	-3,353.24	4,116.53	3,961.86	3,865.44	96.43	41.087				
15,200.00	12,284.21	14,687.63	11,821.79	71.43	68.29	-83.72	-3,453.14	4,117.51	3,961.71	3,863.37	98.34	40.288				
15,300.00	12,285.29	14,787.60	11,825.28	72.76	69.69	-83.76	-3,553.05	4,118.49	3,961.56	3,861.29	100.26	39.512				
15,400.00	12,286.37	14,887.57	11,828.77	74.11	71.10	-83.79	-3,652.95	4,119.48	3,961.41	3,859.20	102.21	38.759				
15,500.00	12,287.46	14,987.54	11,832.26	75.46	72.52	-83.83	-3,752.86	4,120.46	3,961.26	3,857.09	104.17	38.028				
15,600.00	12,288.54	15,087.51	11,835.75	76.83	73.96	-83.86	-3,852.76	4,121.45	3,961.11	3,854.97	106.14	37.319				
15,700.00	12,289.62	15,187.48	11,839.25	78.21	75.40	-83.89	-3,952.67	4,122.43	3,960.96	3,852.83	108.13	36.631				
15,800.00	12,290.71	15,287.45	11,842.74	79.60	76.85	-83.93	-4,052.57	4,123.41	3,960.82	3,850.69	110.13	35.963				
15,900.00	12,291.79	15,387.42	11,846.23	81.00	78.30	-83.96	-4,152.48	4,124.40	3,960.68	3,848.53	112.15	35.316				
16,000.00	12,292.87	15,487.39	11,849.72	82.41	79.77	-84.00	-4,252.38	4,125.38	3,960.54	3,846.36	114.18	34.687				
16,100.00	12,293.95	15,587.36	11,853.21	83.83	81.24	-84.03	-4,352.29	4,126.36	3,960.40	3,844.18	116.22	34.078				
16,200.00	12,295.04	15,687.34	11,856.70	85.25	82.72	-84.07	-4,452.19	4,127.35	3,960.26	3,841.99	118.27	33.486				
16,300.00	12,296.12	15,787.31	11,860.19	86.69	84.21	-84.10	-4,552.10	4,128.33	3,960.12	3,839.79	120.33	32.911				
16,400.00	12,297.20	15,887.28	11,863.68	88.13	85.70	-84.14	-4,652.00	4,129.31	3,959.98	3,837.59	122.40	32.353				
16,500.00	12,298.29	15,987.25	11,867.18	89.58	87.19	-84.17	-4,751.91	4,130.30	3,959.85	3,835.37	124.48	31.812				
16,600.00	12,299.37	16,087.22	11,870.67	91.03	88.70	-84.21	-4,851.81	4,131.28	3,959.72	3,833.15	126.57	31.286				
16,700.00	12,300.45	16,187.19	11,874.16	92.50	90.20	-84.24	-4,951.72	4,132.26	3,959.59	3,830.92	128.66	30.775				
16,800.00	12,301.53	16,287.16	11,877.65	93.97	91.72	-84.28	-5,051.62	4,133.25	3,959.46	3,828.69	130.77	30.278				
16,900.00	12,302.62	16,387.13	11,881.14	95.44	93.24	-84.31	-5,151.53	4,134.23	3,959.33	3,826.45	132.88	29.796				
17,000.00	12,303.70	16,487.10	11,884.63	96.92	94.76	-84.35	-5,251.43	4,135.21	3,959.20	3,824.20	135.00	29.327				
17,100.00	12,304.78	16,587.07	11,888.12	98.41	96.28	-84.38	-5,351.34	4,136.20	3,959.08	3,821.95	137.13	28.871				
17,200.00	12,305.87	16,687.04	11,891.62	99.90	97.81	-84.42	-5,451.24	4,137.18	3,958.95	3,819.69	139.27	28.427				
17,300.00	12,306.95	16,787.02	11,895.11	101.39	99.35	-84.45	-5,551.15	4,138.16	3,958.83	3,817.42	141.41	27.996				
17,400.00	12,308.03	16,886.99	11,898.60	102.90	100.89	-84.49	-5,651.05	4,139.15	3,958.71	3,815.16	143.55	27.577				
17,500.00	12,309.12	16,986.96	11,902.09	104.40	102.43	-84.52	-5,750.96	4,140.13	3,958.59	3,812.88	145.71	27.168				
17,600.00	12,310.20	17,086.93	11,905.58	105.91	103.97	-84.56	-5,850.86	4,141.12	3,958.47	3,810.61	147.86	26.771				
17,700.00	12,311.28	17,186.90	11,909.07	107.43	105.52	-84.59	-5,950.77	4,142.10	3,958.35	3,808.33	150.03	26.384				
17,800.00	12,312.36	17,286.87	11,912.56	108.94	107.07	-84.63	-6,050.67	4,143.08	3,958.24	3,806.04	152.20	26.007				
17,900.00	12,313.45	17,386.84	11,916.05	110.47	108.62	-84.66	-6,150.58	4,144.07	3,958.13	3,803.75	154.37	25.640				
18,000.00	12,314.53	17,486.81	11,919.55	111.99	110.18	-84.70	-6,250.48	4,145.05	3,958.01	3,801.46	156.55	25.283				
18,100.00	12,315.61	17,586.78	11,923.04	113.52	111.74	-84.73	-6,350.39	4,146.03	3,957.90	3,799.17	158.73	24.934				
18,200.00	12,316.70	17,686.75	11,926.53	115.05	113.30	-84.77	-6,450.29	4,147.02	3,957.79	3,796.87	160.92	24.595				
18,300.00	12,317.78	17,786.72	11,930.02	116.59	114.87	-84.80	-6,550.20	4,148.00	3,957.69	3,794.57	163.11	24.263				
18,400.00	12,318.86	17,886.70	11,933.51	118.13	116.43	-84.84	-6,650.10	4,148.98	3,957.58	3,792.27	165.31	23.940				
18,500.00	12,319.94	17,986.67	11,937.00	119.67	118.00	-84.87	-6,750.01	4,149.97	3,957.48	3,789.97	167.51	23.625				
18,600.00	12,321.03	18,086.64	11,940.49	121.22	119.57	-84.91	-6,849.91	4,150.95	3,957.37	3,787.66	169.71	23.318				
18,700.00	12,322.11	18,186.61	11,943.99	122.76	121.15	-84.94	-6,949.82	4,151.93	3,957.27	3,785.35	171.92	23.018				
18,800.00	12,323.19	18,286.58	11,947.48	124.32	122.72	-84.98	-7,049.73	4,152.92	3,957.17	3,783.04	174.13	22.725				
18,900.00	12,324.28	18,386.55	11,950.97	125.87	124.30	-85.01	-7,149.63	4,153.90	3,957.07	3,780.73	176.35	22.439				
19,000.00	12,325.36	18,486.52	11,954.46	127.42	125.88	-85.05	-7,249.54	4,154.88	3,956.97	3,778.41	178.56	22.160				
19,100.00	12,326.44	18,586.49	11,957.95	128.98	127.46	-85.08	-7,349.44	4,155.87	3,956.88	3,776.09	180.78	21.887				
19,200.00	12,327.53	18,686.46	11,961.44	130.54	129.04	-85.12	-7,449.35	4,156.85	3,956.78	3,773.78	183.01	21.621				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 190-MWD, 1345-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	12,328.61	18,786.43	11,964.93	132.11	130.63	-85.15	-7,549.25	4,157.84	3,956.69	3,771.46	185.23	21.361		
19,400.00	12,329.69	18,886.40	11,968.42	133.67	132.22	-85.18	-7,649.16	4,158.82	3,956.60	3,769.14	187.46	21.106		
19,500.00	12,330.77	18,986.38	11,971.92	135.24	133.80	-85.22	-7,749.06	4,159.80	3,956.51	3,766.81	189.69	20.857		
19,600.00	12,331.86	19,086.35	11,975.41	136.81	135.39	-85.25	-7,848.97	4,160.79	3,956.42	3,764.49	191.93	20.614		
19,700.00	12,332.94	19,186.32	11,978.90	138.38	136.98	-85.29	-7,948.87	4,161.77	3,956.33	3,762.17	194.17	20.376		
19,800.00	12,334.02	19,286.29	11,982.39	139.95	138.58	-85.32	-8,048.78	4,162.75	3,956.25	3,759.84	196.41	20.143		
19,900.00	12,335.11	19,386.26	11,985.88	141.52	140.17	-85.36	-8,148.68	4,163.74	3,956.16	3,757.51	198.65	19.915		
20,000.00	12,336.19	19,486.23	11,989.37	143.10	141.76	-85.39	-8,248.59	4,164.72	3,956.08	3,755.19	200.89	19.693		
20,100.00	12,337.27	19,586.20	11,992.86	144.68	143.36	-85.43	-8,348.49	4,165.70	3,956.00	3,752.86	203.14	19.474		
20,200.00	12,338.35	19,686.17	11,996.36	146.26	144.96	-85.46	-8,448.40	4,166.69	3,955.92	3,750.53	205.39	19.261		
20,300.00	12,339.44	19,786.14	11,999.85	147.84	146.56	-85.50	-8,548.30	4,167.67	3,955.84	3,748.20	207.64	19.052		
20,400.00	12,340.52	19,886.11	12,003.34	149.42	148.16	-85.53	-8,648.21	4,168.65	3,955.76	3,745.87	209.89	18.847		
20,500.00	12,341.60	19,986.08	12,006.83	151.01	149.76	-85.57	-8,748.11	4,169.64	3,955.69	3,743.54	212.15	18.646		
20,600.00	12,342.69	20,086.06	12,010.32	152.59	151.36	-85.60	-8,848.02	4,170.62	3,955.61	3,741.21	214.40	18.449		
20,700.00	12,343.77	20,186.03	12,013.81	154.18	152.96	-85.64	-8,947.92	4,171.60	3,955.54	3,738.88	216.66	18.257		
20,800.00	12,344.85	20,286.00	12,017.30	155.77	154.57	-85.67	-9,047.83	4,172.59	3,955.47	3,736.55	218.92	18.068		
20,900.00	12,345.94	20,385.97	12,020.79	157.36	156.17	-85.71	-9,147.73	4,173.57	3,955.40	3,734.22	221.18	17.883		
21,000.00	12,347.02	20,485.94	12,024.29	158.95	157.78	-85.74	-9,247.64	4,174.56	3,955.33	3,731.89	223.45	17.701		
21,100.00	12,348.10	20,585.91	12,027.78	160.54	159.38	-85.78	-9,347.54	4,175.54	3,955.27	3,729.55	225.71	17.524		
21,200.00	12,349.18	20,685.88	12,031.27	162.13	160.99	-85.81	-9,447.45	4,176.52	3,955.20	3,727.22	227.98	17.349		
21,300.00	12,350.27	20,785.85	12,034.76	163.73	162.60	-85.85	-9,547.35	4,177.51	3,955.14	3,724.89	230.25	17.178		
21,400.00	12,351.35	20,885.82	12,038.25	165.32	164.21	-85.88	-9,647.26	4,178.49	3,955.07	3,722.56	232.52	17.010		
21,500.00	12,352.43	20,985.79	12,041.74	166.92	165.82	-85.92	-9,747.16	4,179.47	3,955.01	3,720.23	234.79	16.845		
21,600.00	12,353.52	21,085.76	12,045.23	168.52	167.43	-85.95	-9,847.07	4,180.46	3,954.95	3,717.89	237.06	16.683		
21,700.00	12,354.60	21,185.74	12,048.72	170.12	169.04	-85.99	-9,946.97	4,181.44	3,954.90	3,715.56	239.33	16.525		
21,800.00	12,355.68	21,285.71	12,052.22	171.72	170.66	-86.02	-10,046.88	4,182.42	3,954.84	3,713.23	241.61	16.369		
21,900.00	12,356.76	21,385.68	12,055.71	173.32	172.27	-86.06	-10,146.78	4,183.41	3,954.79	3,710.90	243.89	16.216		
22,000.00	12,357.85	21,485.65	12,059.20	174.92	173.88	-86.09	-10,246.69	4,184.39	3,954.73	3,708.57	246.17	16.065		
22,100.00	12,358.93	21,585.62	12,062.69	176.52	175.50	-86.13	-10,346.59	4,185.37	3,954.68	3,706.24	248.44	15.918		
22,200.00	12,360.01	21,685.59	12,066.18	178.13	177.11	-86.16	-10,446.50	4,186.36	3,954.63	3,703.91	250.72	15.773		
22,300.00	12,361.10	21,785.56	12,069.67	179.73	178.73	-86.20	-10,546.40	4,187.34	3,954.58	3,701.57	253.01	15.630		
22,387.87	12,362.05	21,869.36	12,072.60	181.14	180.08	-86.23	-10,630.14	4,188.17	3,954.54	3,699.58	254.96	15.510		
22,389.94	12,362.07	21,869.36	12,072.60	181.18	180.08	-86.23	-10,630.14	4,188.17	3,954.54	3,699.55	254.99	15.509		
22,390.61	12,362.08	21,869.36	12,072.60	181.19	180.08	-86.23	-10,630.14	4,188.17	3,954.54	3,699.55	254.99	15.508 ES, SF		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													LHS Wildcat Fed Com - LHS Wildcat Fed Com 705H - OH - OH		Offset Site Error:	0.00 usft
Survey Program: 133-MWD, 1394-OWSG (Rev2) MWD															Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
							+N/-S (usft)	+E/-W (usft)								
0.00	0.00	0.00	0.00	0.00	0.00	89.47	39.86	4,274.68	4,274.96							
100.00	100.00	132.55	132.54	0.14	0.19	89.46	40.27	4,273.73	4,274.35	4,274.12	0.23	N/A				
200.00	200.00	190.00	189.99	0.50	0.39	89.46	40.30	4,273.34	4,273.57	4,272.94	0.63	6,762.144				
300.00	300.00	306.00	305.99	0.86	0.80	89.45	40.78	4,272.55	4,272.88	4,271.71	1.17	3,639.803				
400.00	400.00	417.02	417.01	1.22	1.20	89.45	41.06	4,271.71	4,272.15	4,270.44	1.71	2,501.148				
500.00	500.00	559.02	558.98	1.58	1.71	89.44	41.79	4,269.48	4,270.59	4,268.26	2.32	1,838.138				
600.00	600.00	704.74	704.65	1.93	2.23	89.44	41.63	4,265.89	4,268.18	4,265.23	2.95	1,446.456				
700.00	700.00	824.65	824.49	2.29	2.67	89.44	41.34	4,261.67	4,264.63	4,261.12	3.51	1,215.047				
800.00	800.00	951.31	951.06	2.65	3.12	89.45	40.81	4,256.99	4,260.99	4,256.90	4.09	1,042.504				
900.00	900.00	1,070.82	1,070.45	3.01	3.56	89.46	40.27	4,251.51	4,256.37	4,251.72	4.65	916.220				
1,000.00	1,000.00	1,136.54	1,136.11	3.37	3.80	89.46	39.86	4,248.79	4,252.18	4,247.12	5.06	840.470				
1,100.00	1,100.00	1,228.61	1,228.10	3.73	4.13	89.47	39.06	4,245.20	4,248.27	4,242.73	5.54	766.216				
1,200.00	1,200.00	1,316.30	1,315.74	4.08	4.45	89.48	38.32	4,242.18	4,244.82	4,238.80	6.02	705.285				
1,300.00	1,300.00	1,425.30	1,424.67	4.44	4.65	89.48	38.47	4,238.15	4,241.10	4,234.69	6.41	661.955				
1,400.00	1,400.00	1,483.00	1,482.33	4.80	4.66	89.48	38.71	4,236.15	4,237.78	4,231.11	6.67	635.453				
1,500.00	1,500.00	1,542.90	1,542.21	5.16	4.69	89.47	38.86	4,234.66	4,235.43	4,228.48	6.95	609.460				
1,600.00	1,600.00	1,573.00	1,572.31	5.52	4.71	89.47	38.91	4,234.27	4,234.45	4,227.23	7.23	585.841				
1,637.35	1,637.35	1,600.88	1,600.19	5.65	4.72	89.47	38.97	4,234.18	4,234.37	4,227.03	7.34	576.722 CC				
1,700.00	1,700.00	1,624.88	1,624.19	5.88	4.74	89.47	39.04	4,234.34	4,234.78	4,227.25	7.53	562.742				
1,800.00	1,800.00	1,663.00	1,662.30	6.24	4.76	89.47	39.23	4,235.04	4,236.62	4,228.80	7.82	541.712				
1,900.00	1,900.00	1,717.97	1,717.24	6.59	4.81	89.46	39.58	4,236.73	4,239.71	4,231.58	8.13	521.245				
2,000.00	2,000.00	1,788.18	1,787.39	6.95	4.87	89.46	40.16	4,239.64	4,243.81	4,235.35	8.46	501.469				
2,100.00	2,100.00	1,898.69	1,897.79	7.31	4.99	89.44	41.49	4,244.37	4,248.12	4,239.28	8.83	480.962				
2,200.00	2,200.00	1,995.09	1,994.10	7.67	5.12	89.42	42.74	4,248.21	4,252.12	4,242.91	9.21	461.917				
2,300.00	2,300.00	2,067.92	2,066.86	8.03	5.24	89.43	42.59	4,251.43	4,256.55	4,246.99	9.57	444.989				
2,400.00	2,400.00	2,126.00	2,124.85	8.39	5.33	89.44	41.25	4,254.44	4,261.77	4,251.85	9.91	429.833				
2,500.00	2,500.00	2,220.00	2,218.61	8.74	5.50	89.50	37.50	4,259.91	4,267.55	4,257.24	10.31	413.942				
2,600.00	2,600.00	2,306.32	2,304.67	9.10	5.67	89.55	33.46	4,265.24	4,273.69	4,262.99	10.70	399.279				
2,700.00	2,700.00	2,386.78	2,384.89	9.46	5.84	89.60	30.02	4,270.45	4,280.14	4,269.05	11.10	385.724				
2,800.00	2,799.99	2,477.93	2,475.77	9.80	6.05	-63.32	26.67	4,276.69	4,286.38	4,274.89	11.49	372.941				
2,900.00	2,899.91	2,590.84	2,588.31	10.13	6.32	-63.25	22.05	4,284.38	4,291.42	4,279.50	11.91	360.196				
2,966.50	2,966.29	2,817.96	2,814.91	10.35	6.91	-63.24	10.51	4,294.35	4,291.93	4,279.50	12.43	345.202				
3,000.00	2,999.70	2,847.46	2,844.35	10.46	6.99	-63.24	8.90	4,295.21	4,291.85	4,279.28	12.57	341.473				
3,056.36	3,055.93	2,894.59	2,891.39	10.64	7.12	-63.25	6.41	4,296.65	4,291.79	4,279.00	12.79	335.447				
3,100.00	3,099.46	2,927.36	2,924.11	10.79	7.21	-63.25	4.86	4,297.74	4,291.86	4,278.90	12.96	331.056				
3,200.00	3,199.22	3,007.11	3,003.74	11.12	7.44	-63.28	1.87	4,300.69	4,292.41	4,279.04	13.36	321.191				
3,300.00	3,298.97	3,091.92	3,088.45	11.46	7.68	-63.32	-0.42	4,304.13	4,293.31	4,279.54	13.78	311.634				
3,400.00	3,398.73	3,162.00	3,158.42	11.80	7.89	-63.34	-2.97	4,307.26	4,294.68	4,280.51	14.17	303.120				
3,500.00	3,498.49	3,239.76	3,235.98	12.14	8.13	-63.36	-6.90	4,311.21	4,296.63	4,282.06	14.58	294.733				
3,600.00	3,598.24	3,587.42	3,582.77	12.48	9.20	-63.36	-28.23	4,320.20	4,296.02	4,280.54	15.48	277.443				
3,700.00	3,698.00	3,668.15	3,663.41	12.83	9.45	-63.38	-32.05	4,320.15	4,292.81	4,276.90	15.91	269.805				
3,800.00	3,797.76	3,729.00	3,724.22	13.17	9.64	-63.40	-34.11	4,320.34	4,290.09	4,273.78	16.30	263.153				
3,900.00	3,897.51	3,796.35	3,791.53	13.52	9.86	-63.43	-36.03	4,321.10	4,288.18	4,271.47	16.71	256.644				
4,000.00	3,997.27	3,880.28	3,875.39	13.87	10.13	-63.46	-39.19	4,322.97	4,287.22	4,270.07	17.15	249.995				
4,100.00	4,097.03	4,052.43	4,047.07	14.22	10.70	-63.44	-51.57	4,325.16	4,285.25	4,267.49	17.77	241.178				
4,200.00	4,196.78	4,135.38	4,129.83	14.58	10.97	-63.43	-57.06	4,325.73	4,282.78	4,264.56	18.21	235.131				
4,300.00	4,296.54	4,216.44	4,210.79	14.93	11.24	-63.45	-60.91	4,326.73	4,280.84	4,262.19	18.66	229.441				
4,400.00	4,396.30	4,337.21	4,331.44	15.28	11.64	-63.48	-66.20	4,327.99	4,278.72	4,259.54	19.18	223.062				
4,500.00	4,496.05	4,426.72	4,420.79	15.64	11.94	-63.48	-71.45	4,328.81	4,276.49	4,256.85	19.65	217.671				
4,600.00	4,595.81	4,505.88	4,499.81	16.00	12.21	-63.49	-76.04	4,329.92	4,274.73	4,254.64	20.09	212.756				
4,700.00	4,695.57	4,595.29	4,589.09	16.36	12.52	-63.50	-80.54	4,331.50	4,273.34	4,252.78	20.56	207.848				
4,800.00	4,795.32	4,708.72	4,702.35	16.71	12.91	-63.51	-86.58	4,333.51	4,271.97	4,250.89	21.08	202.658				

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 133-MWD, 1394-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.00	4,895.08	4,861.04	4,854.35	17.07	13.43	-63.51	-96.20	4,335.00	4,269.80	4,248.12	21.68	196.914		
5,000.00	4,994.84	4,965.98	4,959.10	17.43	13.80	-63.51	-102.59	4,335.27	4,266.90	4,244.71	22.19	192.296		
5,100.00	5,094.59	5,084.72	5,077.65	17.79	14.21	-63.53	-109.18	4,335.38	4,263.85	4,241.13	22.72	187.636		
5,200.00	5,194.35	5,140.00	5,132.85	18.16	14.40	-63.53	-112.15	4,335.11	4,260.56	4,237.43	23.13	184.225		
5,300.00	5,294.11	5,235.00	5,227.71	18.52	14.73	-63.54	-117.28	4,335.90	4,258.24	4,234.62	23.61	180.322		
5,400.00	5,393.86	5,265.19	5,257.84	18.88	14.83	-63.55	-118.96	4,336.65	4,257.05	4,233.08	23.96	177.645		
5,500.00	5,493.62	5,347.56	5,340.03	19.24	15.13	-63.55	-123.96	4,338.97	4,256.70	4,232.28	24.43	174.264		
5,600.00	5,593.38	5,447.89	5,440.12	19.61	15.48	-63.55	-130.15	4,341.98	4,256.54	4,231.61	24.93	170.731		
5,678.05	5,671.23	5,518.00	5,510.06	19.89	15.73	-63.55	-134.54	4,344.04	4,256.37	4,231.06	25.31	168.188		
5,700.00	5,693.13	5,518.00	5,510.06	19.97	15.73	-63.55	-134.54	4,344.04	4,256.43	4,231.06	25.37	167.787		
5,800.00	5,792.89	5,582.78	5,574.67	20.34	15.97	-63.55	-138.59	4,346.43	4,257.10	4,231.31	25.79	165.055		
5,900.00	5,892.65	5,649.87	5,641.55	20.70	16.21	-63.55	-142.67	4,349.84	4,258.97	4,232.75	26.22	162.428		
6,000.00	5,992.40	5,746.91	5,738.28	21.07	16.56	-63.55	-148.45	4,355.01	4,261.13	4,234.41	26.72	159.474		
6,100.00	6,092.16	5,852.30	5,843.35	21.43	16.94	-63.56	-154.32	4,360.61	4,263.30	4,236.06	27.24	156.514		
6,200.00	6,191.92	5,956.39	5,947.14	21.80	17.31	-63.57	-160.13	4,365.95	4,265.27	4,237.52	27.76	153.669		
6,300.00	6,291.67	6,055.22	6,045.68	22.17	17.67	-63.57	-165.86	4,371.03	4,267.25	4,238.99	28.26	150.991		
6,400.00	6,391.43	6,158.50	6,148.67	22.53	18.05	-63.58	-171.53	4,376.32	4,269.22	4,240.45	28.78	148.349		
6,500.00	6,491.19	6,256.43	6,246.32	22.90	18.40	-63.59	-176.94	4,381.29	4,271.15	4,241.86	29.28	145.859		
6,600.00	6,590.94	6,344.34	6,333.97	23.27	18.72	-63.60	-181.78	4,385.90	4,273.23	4,243.47	29.76	143.573		
6,700.00	6,690.70	6,439.53	6,428.87	23.64	19.07	-63.61	-187.10	4,391.12	4,275.57	4,245.30	30.26	141.283		
6,800.00	6,790.46	6,537.52	6,526.56	24.00	19.43	-63.62	-192.48	4,396.54	4,277.94	4,247.18	30.77	139.036		
6,900.00	6,890.21	6,643.27	6,632.00	24.37	19.81	-63.63	-198.23	4,402.36	4,280.30	4,249.01	31.29	136.776		
7,000.00	6,989.97	6,992.05	6,980.50	24.74	21.00	-63.83	-204.65	4,407.93	4,276.59	4,244.26	32.33	132.262		
7,100.00	7,089.73	7,087.42	7,075.85	25.11	21.29	-63.93	-203.05	4,407.53	4,273.12	4,240.31	32.81	130.254		
7,200.00	7,189.48	7,175.38	7,163.79	25.48	21.56	-64.03	-201.59	4,407.28	4,269.81	4,236.54	33.27	128.354		
7,300.00	7,289.24	7,269.83	7,258.24	25.85	21.86	-64.12	-200.27	4,407.32	4,266.81	4,233.07	33.74	126.464		
7,400.00	7,389.00	7,367.79	7,356.19	26.22	22.17	-64.22	-199.12	4,407.33	4,263.80	4,229.58	34.22	124.595		
7,504.97	7,493.71	7,459.60	7,448.00	26.61	22.47	-64.31	-198.37	4,407.51	4,260.85	4,226.14	34.71	122.759		
7,600.00	7,588.58	7,545.31	7,533.71	26.95	22.75	-64.35	-197.99	4,407.97	4,259.00	4,223.85	35.16	121.142		
7,699.37	7,687.90	7,635.96	7,624.35	27.31	23.05	-64.38	-197.75	4,408.58	4,258.31	4,222.68	35.63	119.530		
7,700.00	7,688.53	7,636.49	7,624.88	27.31	23.05	-64.38	-197.75	4,408.58	4,258.31	4,222.68	35.63	119.520 ES		
7,771.47	7,760.00	7,691.00	7,679.39	27.56	23.24	88.64	-197.70	4,409.09	4,258.70	4,222.76	35.94	118.506		
7,800.00	7,788.53	7,720.34	7,708.73	27.66	23.34	88.64	-197.68	4,409.42	4,259.02	4,222.94	36.07	118.063		
7,900.00	7,888.53	7,801.09	7,789.47	27.99	23.61	88.64	-197.44	4,410.55	4,260.43	4,223.92	36.51	116.696		
8,000.00	7,988.53	7,880.00	7,868.36	28.33	23.88	88.64	-197.12	4,412.08	4,262.36	4,225.43	36.94	115.390		
8,100.00	8,088.53	7,968.69	7,957.03	28.66	24.18	88.63	-196.76	4,414.13	4,264.68	4,227.29	37.39	114.056		
8,200.00	8,188.53	8,066.05	8,054.36	29.00	24.51	88.62	-196.13	4,416.49	4,267.13	4,229.26	37.86	112.702		
8,300.00	8,288.53	8,163.00	8,151.27	29.34	24.84	88.61	-195.09	4,418.90	4,269.63	4,231.30	38.33	111.387		
8,400.00	8,388.53	8,251.10	8,239.33	29.68	25.14	88.59	-193.78	4,421.23	4,272.31	4,233.53	38.78	110.166		
8,500.00	8,488.53	8,357.50	8,345.67	30.02	25.50	88.57	-191.77	4,424.12	4,275.07	4,235.80	39.27	108.864		
8,600.00	8,588.53	8,475.84	8,463.96	30.36	25.89	88.54	-189.50	4,426.97	4,277.53	4,237.75	39.79	107.515		
8,700.00	8,688.53	8,614.77	8,602.84	30.70	26.36	88.51	-187.09	4,429.50	4,279.43	4,239.09	40.35	106.069		
8,800.00	8,788.53	8,750.48	8,738.54	31.04	26.82	88.51	-187.16	4,430.64	4,280.25	4,239.34	40.91	104.638		
8,900.00	8,888.53	8,849.97	8,838.03	31.38	27.17	88.52	-188.24	4,431.14	4,280.72	4,239.33	41.39	103.422		
9,000.00	8,988.53	8,917.00	8,905.05	31.72	27.41	88.54	-189.28	4,431.56	4,281.40	4,239.60	41.81	102.412		
9,100.00	9,088.53	8,917.00	8,905.05	32.06	27.41	88.54	-189.28	4,431.56	4,283.85	4,241.79	42.06	101.846		
9,200.00	9,188.53	8,917.00	8,905.05	32.40	27.41	88.54	-189.28	4,431.56	4,288.62	4,246.32	42.30	101.378		
9,300.00	9,288.53	8,917.00	8,905.05	32.75	27.41	88.54	-189.28	4,431.56	4,295.72	4,253.19	42.53	101.005		
9,400.00	9,388.53	8,917.00	8,905.05	33.09	27.41	88.54	-189.28	4,431.56	4,305.13	4,262.39	42.74	100.726		
9,500.00	9,488.53	8,917.00	8,905.05	33.43	27.41	88.54	-189.28	4,431.56	4,316.84	4,273.90	42.94	100.537		
9,600.00	9,588.53	8,917.00	8,905.05	33.77	27.41	88.54	-189.28	4,431.56	4,330.82	4,287.70	43.12	100.437		
9,700.00	9,688.53	8,917.00	8,905.05	34.12	27.41	88.54	-189.28	4,431.56	4,347.06	4,303.78	43.29	100.423		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													LHS Wildcat Fed Com - LHS Wildcat Fed Com 705H - OH - OH		Offset Site Error:		0.00 usft
Survey Program: 133-MWD, 1394-OWSG (Rev2) MWD													Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
9,800.00	9,788.53	8,917.00	8,905.05	34.46	27.41	88.54	-189.28	4,431.56	4,365.54	4,322.09	43.44	100.493					
9,900.00	9,888.53	8,917.00	8,905.05	34.81	27.41	88.54	-189.28	4,431.56	4,386.21	4,342.63	43.58	100.643					
10,000.00	9,988.53	8,917.00	8,905.05	35.15	27.41	88.54	-189.28	4,431.56	4,409.06	4,365.35	43.71	100.872					
10,100.00	10,088.53	8,917.00	8,905.05	35.50	27.41	88.54	-189.28	4,431.56	4,434.04	4,390.22	43.82	101.177					
10,200.00	10,188.53	8,917.00	8,905.05	35.84	27.41	88.54	-189.28	4,431.56	4,461.13	4,417.20	43.93	101.555					
10,300.00	10,288.53	8,917.00	8,905.05	36.19	27.41	88.54	-189.28	4,431.56	4,490.28	4,446.25	44.02	102.002					
10,400.00	10,388.53	8,917.00	8,905.05	36.53	27.41	88.54	-189.28	4,431.56	4,521.45	4,477.35	44.10	102.518					
10,500.00	10,488.53	8,917.00	8,905.05	36.88	27.41	88.54	-189.28	4,431.56	4,554.61	4,510.43	44.18	103.097					
10,600.00	10,588.53	8,917.00	8,905.05	37.22	27.41	88.54	-189.28	4,431.56	4,589.70	4,545.46	44.24	103.743					
10,700.00	10,688.53	8,917.00	8,905.05	37.57	27.41	88.54	-189.28	4,431.56	4,626.70	4,582.40	44.30	104.448					
10,800.00	10,788.53	8,917.00	8,905.05	37.92	27.41	88.54	-189.28	4,431.56	4,665.54	4,621.19	44.35	105.210					
10,900.00	10,888.53	8,917.00	8,905.05	38.26	27.41	88.54	-189.28	4,431.56	4,706.19	4,661.80	44.39	106.024					
11,000.00	10,988.53	8,917.00	8,905.05	38.61	27.41	88.54	-189.28	4,431.56	4,748.59	4,704.17	44.43	106.888					
11,100.00	11,088.53	8,917.00	8,905.05	38.96	27.41	88.54	-189.28	4,431.56	4,792.71	4,748.25	44.46	107.800					
11,200.00	11,188.53	8,917.00	8,905.05	39.30	27.41	88.54	-189.28	4,431.56	4,838.49	4,794.00	44.49	108.755					
11,300.00	11,288.53	8,917.00	8,905.05	39.65	27.41	88.54	-189.28	4,431.56	4,885.89	4,841.37	44.52	109.752					
11,400.00	11,388.53	8,917.00	8,905.05	40.00	27.41	88.54	-189.28	4,431.56	4,934.86	4,890.32	44.54	110.787					
11,500.00	11,488.53	8,917.00	8,905.05	40.35	27.41	88.54	-189.28	4,431.56	4,985.36	4,940.79	44.57	111.858					
11,600.00	11,588.53	8,917.00	8,905.05	40.70	27.41	88.54	-189.28	4,431.56	5,037.34	4,992.74	44.59	112.961					
11,694.47	11,683.00	8,917.00	8,905.05	41.02	27.41	88.54	-189.28	4,431.56	5,087.76	5,043.14	44.62	114.031					
11,700.00	11,688.53	8,917.00	8,905.05	41.04	27.41	-90.61	-189.28	4,431.56	5,090.75	5,046.13	44.62	114.095					
11,750.00	11,738.44	8,917.00	8,905.05	41.22	27.41	-87.36	-189.28	4,431.56	5,117.96	5,073.33	44.63	114.668					
11,800.00	11,787.93	8,917.00	8,905.05	41.40	27.41	-84.10	-189.28	4,431.56	5,145.36	5,100.71	44.65	115.231					
11,850.00	11,836.62	8,917.00	8,905.05	41.59	27.41	-80.86	-189.28	4,431.56	5,172.72	5,128.04	44.68	115.779					
11,900.00	11,884.15	8,917.00	8,905.05	41.78	27.41	-77.69	-189.28	4,431.56	5,199.83	5,155.13	44.71	116.305					
11,950.00	11,930.14	8,917.00	8,905.05	41.98	27.41	-74.63	-189.28	4,431.56	5,226.51	5,181.76	44.75	116.805					
12,000.00	11,974.25	8,917.00	8,905.05	42.18	27.41	-71.71	-189.28	4,431.56	5,252.55	5,207.76	44.79	117.271					
12,050.00	12,016.15	8,917.00	8,905.05	42.39	27.41	-68.96	-189.28	4,431.56	5,277.76	5,232.92	44.84	117.698					
12,100.00	12,055.51	8,917.00	8,905.05	42.60	27.41	-66.40	-189.28	4,431.56	5,301.97	5,257.07	44.90	118.080					
12,150.00	12,092.03	8,917.00	8,905.05	42.82	27.41	-64.04	-189.28	4,431.56	5,325.01	5,280.04	44.97	118.410					
12,200.00	12,125.44	8,917.00	8,905.05	43.04	27.41	-61.89	-189.28	4,431.56	5,346.72	5,301.67	45.05	118.683					
12,250.00	12,155.49	8,917.00	8,905.05	43.27	27.41	-59.96	-189.28	4,431.56	5,366.95	5,321.81	45.14	118.893					
12,300.00	12,181.94	8,917.00	8,905.05	43.50	27.41	-58.24	-189.28	4,431.56	5,385.56	5,340.32	45.24	119.036					
12,350.00	12,204.59	8,917.00	8,905.05	43.75	27.41	-56.73	-189.28	4,431.56	5,402.43	5,357.07	45.36	119.107					
12,400.00	12,223.27	8,917.00	8,905.05	43.99	27.41	-55.42	-189.28	4,431.56	5,417.45	5,371.97	45.49	119.102					
12,450.00	12,237.84	8,917.00	8,905.05	44.24	27.41	-54.31	-189.28	4,431.56	5,430.52	5,384.89	45.63	119.020					
12,500.00	12,248.19	8,917.00	8,905.05	44.50	27.41	-53.40	-189.28	4,431.56	5,441.56	5,395.77	45.78	118.860					
12,550.00	12,254.23	8,917.00	8,905.05	44.76	27.41	-52.67	-189.28	4,431.56	5,450.48	5,404.53	45.95	118.620					
12,588.27	12,255.92	8,917.00	8,905.05	44.96	27.41	-52.24	-189.28	4,431.56	5,455.86	5,409.77	46.09	118.384					
12,600.00	12,256.05	8,917.00	8,905.05	45.02	27.41	-52.24	-189.28	4,431.56	5,457.32	5,411.19	46.13	118.305					
12,700.00	12,257.13	8,917.00	8,905.05	45.57	27.41	-52.24	-189.28	4,431.56	5,470.80	5,424.27	46.52	117.589					
12,800.00	12,258.22	8,917.00	8,905.05	46.18	27.41	-52.24	-189.28	4,431.56	5,486.06	5,439.10	46.96	116.826					
12,900.00	12,259.30	8,917.00	8,905.05	46.83	27.41	-52.24	-189.28	4,431.56	5,503.10	5,455.67	47.43	116.024					
13,000.00	12,260.38	8,917.00	8,905.05	47.54	27.41	-52.24	-189.28	4,431.56	5,521.90	5,473.97	47.94	115.194					
13,100.00	12,261.47	8,917.00	8,905.05	48.29	27.41	-52.24	-189.28	4,431.56	5,542.44	5,493.97	48.47	114.344					
13,200.00	12,262.55	8,917.00	8,905.05	49.08	27.41	-52.24	-189.28	4,431.56	5,564.71	5,515.67	49.04	113.482					
13,300.00	12,263.63	8,917.00	8,905.05	49.92	27.41	-52.24	-189.28	4,431.56	5,588.67	5,539.04	49.63	112.616					
13,400.00	12,264.71	8,917.00	8,905.05	50.80	27.41	-52.24	-189.28	4,431.56	5,614.31	5,564.07	50.24	111.753					
13,500.00	12,265.80	8,917.00	8,905.05	51.71	27.41	-52.24	-189.28	4,431.56	5,641.61	5,590.74	50.87	110.900					
13,600.00	12,266.88	8,917.00	8,905.05	52.66	27.41	-52.24	-189.28	4,431.56	5,670.54	5,619.02	51.52	110.061					
13,700.00	12,267.96	8,917.00	8,905.05	53.64	27.41	-52.24	-189.28	4,431.56	5,701.08	5,648.89	52.19	109.243					
13,800.00	12,269.05	8,917.00	8,905.05	54.66	27.41	-52.24	-189.28	4,431.56	5,733.20	5,680.34	52.86	108.450					

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 133-MWD, 1394-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	12,270.13	8,917.00	8,905.05	55.71	27.41	-52.24	-189.28	4,431.56	5,766.88	5,713.32	53.55	107.685		
14,000.00	12,271.21	8,917.00	8,905.05	56.78	27.41	-52.24	-189.28	4,431.56	5,802.08	5,747.83	54.25	106.951		
14,100.00	12,272.30	8,917.00	8,905.05	57.89	27.41	-52.24	-189.28	4,431.56	5,838.78	5,783.83	54.95	106.252		
14,200.00	12,273.38	8,917.00	8,905.05	59.01	27.41	-52.24	-189.28	4,431.56	5,876.96	5,821.30	55.66	105.588		
14,300.00	12,274.46	8,917.00	8,905.05	60.17	27.41	-52.24	-189.28	4,431.56	5,916.58	5,860.21	56.37	104.963		
14,400.00	12,275.54	8,917.00	8,905.05	61.34	27.41	-52.24	-189.28	4,431.56	5,957.62	5,900.54	57.08	104.377		
14,500.00	12,276.63	8,917.00	8,905.05	62.54	27.41	-52.24	-189.28	4,431.56	6,000.04	5,942.26	57.78	103.837		
14,600.00	12,277.71	8,917.00	8,905.05	63.76	27.41	-52.24	-189.28	4,431.56	6,043.82	5,985.33	58.49	103.335		
14,700.00	12,278.79	8,917.00	8,905.05	64.99	27.41	-52.24	-189.28	4,431.56	6,088.93	6,029.74	59.19	102.871		
14,800.00	12,279.88	8,917.00	8,905.05	66.25	27.41	-52.24	-189.28	4,431.56	6,135.33	6,075.44	59.89	102.447		
14,900.00	12,280.96	8,917.00	8,905.05	67.52	27.41	-52.24	-189.28	4,431.56	6,183.01	6,122.43	60.58	102.064		
15,000.00	12,282.04	8,917.00	8,905.05	68.81	27.41	-52.24	-189.28	4,431.56	6,231.92	6,170.66	61.26	101.724		
15,100.00	12,283.12	8,917.00	8,905.05	70.11	27.41	-52.24	-189.28	4,431.56	6,282.05	6,220.11	61.94	101.423		
15,200.00	12,284.21	8,917.00	8,905.05	71.43	27.41	-52.24	-189.28	4,431.56	6,333.36	6,270.75	62.61	101.160		
15,300.00	12,285.29	8,917.00	8,905.05	72.76	27.41	-52.24	-189.28	4,431.56	6,385.82	6,322.55	63.27	100.934		
15,400.00	12,286.37	8,917.00	8,905.05	74.11	27.41	-52.24	-189.28	4,431.56	6,439.41	6,375.49	63.92	100.745		
15,500.00	12,287.46	8,917.00	8,905.05	75.46	27.41	-52.24	-189.28	4,431.56	6,494.09	6,429.53	64.56	100.591		
15,600.00	12,288.54	8,917.00	8,905.05	76.83	27.41	-52.24	-189.28	4,431.56	6,549.85	6,484.66	65.19	100.473		
15,700.00	12,289.62	8,917.00	8,905.05	78.21	27.41	-52.24	-189.28	4,431.56	6,606.64	6,540.83	65.81	100.388		
15,800.00	12,290.71	8,917.00	8,905.05	79.60	27.41	-52.24	-189.28	4,431.56	6,664.46	6,598.04	66.42	100.335		
15,900.00	12,291.79	8,917.00	8,905.05	81.00	27.41	-52.24	-189.28	4,431.56	6,723.27	6,656.24	67.02	100.315 SF		
16,000.00	12,292.87	8,917.00	8,905.05	82.41	27.41	-52.24	-189.28	4,431.56	6,783.04	6,715.42	67.61	100.325		
16,100.00	12,293.95	8,917.00	8,905.05	83.83	27.41	-52.24	-189.28	4,431.56	6,843.74	6,775.56	68.19	100.365		
16,200.00	12,295.04	8,917.00	8,905.05	85.25	27.41	-52.24	-189.28	4,431.56	6,905.37	6,836.61	68.76	100.434		
16,300.00	12,296.12	8,917.00	8,905.05	86.69	27.41	-52.24	-189.28	4,431.56	6,967.88	6,898.57	69.31	100.530		
16,400.00	12,297.20	8,917.00	8,905.05	88.13	27.41	-52.24	-189.28	4,431.56	7,031.26	6,961.41	69.86	100.653		
16,500.00	12,298.29	8,917.00	8,905.05	89.58	27.41	-52.24	-189.28	4,431.56	7,095.49	7,025.10	70.39	100.802		
16,600.00	12,299.37	8,917.00	8,905.05	91.03	27.41	-52.24	-189.28	4,431.56	7,160.53	7,089.62	70.91	100.976		
16,700.00	12,300.45	8,917.00	8,905.05	92.50	27.41	-52.24	-189.28	4,431.56	7,226.37	7,154.95	71.42	101.175		
16,800.00	12,301.53	8,917.00	8,905.05	93.97	27.41	-52.24	-189.28	4,431.56	7,292.99	7,221.07	71.92	101.401		
16,900.00	12,302.62	8,917.00	8,905.05	95.44	27.41	-52.24	-189.28	4,431.56	7,360.37	7,287.96	72.41	101.650		
17,000.00	12,303.70	8,917.00	8,905.05	96.92	27.41	-52.24	-189.28	4,431.56	7,428.48	7,355.59	72.89	101.920		
17,100.00	12,304.78	8,917.00	8,905.05	98.41	27.41	-52.24	-189.28	4,431.56	7,497.30	7,423.95	73.35	102.211		
17,200.00	12,305.87	8,917.00	8,905.05	99.90	27.41	-52.24	-189.28	4,431.56	7,566.82	7,493.02	73.81	102.522		
17,300.00	12,306.95	8,917.00	8,905.05	101.39	27.41	-52.24	-189.28	4,431.56	7,637.02	7,562.77	74.25	102.850		
17,400.00	12,308.03	8,917.00	8,905.05	102.90	27.41	-52.24	-189.28	4,431.56	7,707.88	7,633.18	74.69	103.195		
17,500.00	12,309.12	8,917.00	8,905.05	104.40	27.41	-52.24	-189.28	4,431.56	7,779.37	7,704.25	75.12	103.558		
17,600.00	12,310.20	8,917.00	8,905.05	105.91	27.41	-52.24	-189.28	4,431.56	7,851.49	7,775.95	75.54	103.938		
17,700.00	12,311.28	8,917.00	8,905.05	107.43	27.41	-52.24	-189.28	4,431.56	7,924.22	7,848.26	75.95	104.334		
17,800.00	12,312.36	8,917.00	8,905.05	108.94	27.41	-52.24	-189.28	4,431.56	7,997.53	7,921.18	76.35	104.746		
17,900.00	12,313.45	8,917.00	8,905.05	110.47	27.41	-52.24	-189.28	4,431.56	8,071.41	7,994.67	76.74	105.173		
18,000.00	12,314.53	8,917.00	8,905.05	111.99	27.41	-52.24	-189.28	4,431.56	8,145.86	8,068.73	77.12	105.619		
18,100.00	12,315.61	8,917.00	8,905.05	113.52	27.41	-52.24	-189.28	4,431.56	8,220.84	8,143.35	77.50	106.079		
18,200.00	12,316.70	8,917.00	8,905.05	115.05	27.41	-52.24	-189.28	4,431.56	8,296.36	8,218.50	77.86	106.553		
18,300.00	12,317.78	8,917.00	8,905.05	116.59	27.41	-52.24	-189.28	4,431.56	8,372.38	8,294.17	78.22	107.041		
18,400.00	12,318.86	8,917.00	8,905.05	118.13	27.41	-52.24	-189.28	4,431.56	8,448.91	8,370.35	78.57	107.540		
18,500.00	12,319.94	8,917.00	8,905.05	119.67	27.41	-52.24	-189.28	4,431.56	8,525.92	8,447.02	78.91	108.052		
18,600.00	12,321.03	8,917.00	8,905.05	121.22	27.41	-52.24	-189.28	4,431.56	8,603.41	8,524.17	79.24	108.576		
18,700.00	12,322.11	8,917.00	8,905.05	122.76	27.41	-52.24	-189.28	4,431.56	8,681.35	8,601.79	79.56	109.110		
18,800.00	12,323.19	8,917.00	8,905.05	124.32	27.41	-52.24	-189.28	4,431.56	8,759.75	8,679.86	79.88	109.656		
18,900.00	12,324.28	8,917.00	8,905.05	125.87	27.41	-52.24	-189.28	4,431.56	8,838.58	8,758.38	80.20	110.212		
19,000.00	12,325.36	8,917.00	8,905.05	127.42	27.41	-52.24	-189.28	4,431.56	8,917.83	8,837.33	80.50	110.777		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 133-MWD, 1394-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,100.00	12,326.44	8,917.00	8,905.05	128.98	27.41	-52.24	-189.28	4,431.56	8,997.50	8,916.70	80.80	111.353	
19,200.00	12,327.53	8,917.00	8,905.05	130.54	27.41	-52.24	-189.28	4,431.56	9,077.57	8,996.47	81.09	111.938	
19,300.00	12,328.61	8,917.00	8,905.05	132.11	27.41	-52.24	-189.28	4,431.56	9,158.03	9,076.65	81.38	112.531	
19,400.00	12,329.69	8,917.00	8,905.05	133.67	27.41	-52.24	-189.28	4,431.56	9,238.87	9,157.21	81.66	113.133	
19,500.00	12,330.77	8,917.00	8,905.05	135.24	27.41	-52.24	-189.28	4,431.56	9,320.09	9,238.15	81.94	113.744	
19,600.00	12,331.86	8,917.00	8,905.05	136.81	27.41	-52.24	-189.28	4,431.56	9,401.67	9,319.46	82.21	114.362	
19,700.00	12,332.94	8,917.00	8,905.05	138.38	27.41	-52.24	-189.28	4,431.56	9,483.60	9,401.12	82.47	114.988	
19,800.00	12,334.02	8,917.00	8,905.05	139.95	27.41	-52.24	-189.28	4,431.56	9,565.87	9,483.14	82.73	115.622	
19,900.00	12,335.11	8,917.00	8,905.05	141.52	27.41	-52.24	-189.28	4,431.56	9,648.48	9,565.49	82.99	116.263	
20,000.00	12,336.19	8,917.00	8,905.05	143.10	27.41	-52.24	-189.28	4,431.56	9,731.41	9,648.18	83.24	116.910	
20,100.00	12,337.27	8,917.00	8,905.05	144.68	27.41	-52.24	-189.28	4,431.56	9,814.67	9,731.18	83.48	117.564	
20,200.00	12,338.35	8,917.00	8,905.05	146.26	27.41	-52.24	-189.28	4,431.56	9,898.23	9,814.51	83.72	118.224	
20,300.00	12,339.44	8,917.00	8,905.05	147.84	27.41	-52.24	-189.28	4,431.56	9,982.10	9,898.14	83.96	118.891	

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	89.47	39.86	4,274.68	4,275.03					
100.00	100.00	62.20	62.20	0.14	0.09	89.47	39.86	4,274.68	4,274.87	4,274.70	0.17	N/A		
200.00	200.00	162.20	162.20	0.50	0.36	89.47	39.86	4,274.68	4,274.87	4,274.25	0.62	6,907.750		
300.00	300.00	262.20	262.20	0.86	0.72	89.47	39.86	4,274.68	4,274.87	4,273.74	1.12	3,808.545		
400.00	400.00	362.20	362.20	1.22	1.08	89.47	39.86	4,274.68	4,274.87	4,273.24	1.63	2,625.644		
500.00	500.00	462.20	462.20	1.58	1.44	89.47	39.86	4,274.68	4,274.87	4,272.73	2.13	2,002.836		
600.00	600.00	562.20	562.20	1.93	1.80	89.47	39.86	4,274.68	4,274.87	4,272.22	2.64	1,618.686		
700.00	700.00	662.20	662.20	2.29	2.16	89.47	39.86	4,274.68	4,274.87	4,271.72	3.15	1,358.125		
800.00	800.00	762.20	762.20	2.65	2.52	89.47	39.86	4,274.68	4,274.87	4,271.21	3.65	1,169.793		
900.00	900.00	862.20	862.20	3.01	2.87	89.47	39.86	4,274.68	4,274.87	4,270.70	4.16	1,027.321		
1,000.00	1,000.00	962.20	962.20	3.37	3.23	89.47	39.86	4,274.68	4,274.87	4,270.20	4.67	915.778		
1,100.00	1,100.00	1,062.20	1,062.20	3.73	3.59	89.47	39.86	4,274.68	4,274.87	4,269.69	5.17	826.081		
1,200.00	1,200.00	1,162.20	1,162.20	4.08	3.95	89.47	39.86	4,274.68	4,274.87	4,269.18	5.68	752.386		
1,300.00	1,300.00	1,262.20	1,262.20	4.44	4.31	89.47	39.86	4,274.68	4,274.87	4,268.68	6.19	690.760		
1,400.00	1,400.00	1,362.20	1,362.20	4.80	4.67	89.47	39.86	4,274.68	4,274.87	4,268.17	6.70	638.465		
1,500.00	1,500.00	1,462.20	1,462.20	5.16	5.02	89.47	39.86	4,274.68	4,274.87	4,267.66	7.20	593.530		
1,600.00	1,600.00	1,562.20	1,562.20	5.52	5.38	89.47	39.86	4,274.68	4,274.87	4,267.16	7.71	554.503		
1,700.00	1,700.00	1,662.20	1,662.20	5.88	5.74	89.47	39.86	4,274.68	4,274.87	4,266.65	8.22	520.292		
1,800.00	1,800.00	1,762.20	1,762.20	6.24	6.10	89.47	39.86	4,274.68	4,274.87	4,266.14	8.72	490.057		
1,900.00	1,900.00	1,862.20	1,862.20	6.59	6.46	89.47	39.86	4,274.68	4,274.87	4,265.64	9.23	463.143		
2,000.00	2,000.00	1,962.20	1,962.20	6.95	6.82	89.47	39.86	4,274.68	4,274.87	4,265.13	9.74	439.031		
2,100.00	2,100.00	2,062.20	2,062.20	7.31	7.18	89.47	39.86	4,274.68	4,274.87	4,264.62	10.24	417.305		
2,200.00	2,200.00	2,162.20	2,162.20	7.67	7.53	89.47	39.86	4,274.68	4,274.87	4,264.12	10.75	397.628		
2,300.00	2,300.00	2,262.20	2,262.20	8.03	7.89	89.47	39.86	4,274.68	4,274.87	4,263.61	11.26	379.723		
2,400.00	2,400.00	2,362.20	2,362.20	8.39	8.25	89.47	39.86	4,274.68	4,274.87	4,263.10	11.76	363.361		
2,500.00	2,500.00	2,462.20	2,462.20	8.74	8.61	89.47	39.86	4,274.68	4,274.87	4,262.59	12.27	348.351		
2,600.00	2,600.00	2,562.20	2,562.20	9.10	8.97	89.47	39.86	4,274.68	4,274.87	4,262.09	12.78	334.531		
2,700.00	2,700.00	2,662.20	2,662.20	9.46	9.33	89.47	39.86	4,274.68	4,274.87	4,261.58	13.29	321.766		
2,800.00	2,799.99	2,740.28	2,740.28	9.80	9.60	-63.58	39.68	4,274.79	4,274.44	4,260.72	13.72	311.551		
2,900.00	2,899.91	2,800.00	2,799.99	10.13	9.80	-63.61	38.72	4,275.33	4,273.63	4,259.53	14.09	303.229		
2,966.50	2,966.29	2,848.14	2,848.10	10.35	9.96	-63.63	37.36	4,276.10	4,272.89	4,258.53	14.36	297.596		
3,000.00	2,999.70	2,869.84	2,869.78	10.46	10.03	-63.64	36.58	4,276.55	4,272.52	4,258.04	14.49	294.952		
3,100.00	3,099.46	2,934.67	2,934.52	10.79	10.24	-63.66	33.60	4,278.24	4,271.99	4,257.13	14.87	287.333		
3,114.31	3,113.73	2,943.95	2,943.78	10.84	10.27	-63.66	33.09	4,278.53	4,271.99	4,257.06	14.92	286.273		
3,200.00	3,199.22	3,017.41	3,017.07	11.12	10.52	-63.66	28.70	4,281.03	4,272.18	4,256.89	15.29	279.324		
3,300.00	3,298.97	3,117.41	3,116.83	11.46	10.85	-63.66	22.64	4,284.47	4,272.47	4,256.70	15.77	270.995		
3,400.00	3,398.73	3,217.41	3,216.59	11.80	11.18	-63.66	16.58	4,287.92	4,272.75	4,256.51	16.24	263.091		
3,500.00	3,498.49	3,317.41	3,316.34	12.14	11.52	-63.67	10.52	4,291.36	4,273.04	4,256.32	16.72	255.587		
3,600.00	3,598.24	3,417.41	3,416.10	12.48	11.86	-63.67	4.46	4,294.81	4,273.33	4,256.13	17.20	248.456		
3,700.00	3,698.00	3,517.41	3,515.85	12.83	12.20	-63.67	-1.60	4,298.26	4,273.61	4,255.93	17.68	241.675		
3,800.00	3,797.76	3,617.41	3,615.61	13.17	12.55	-63.67	-7.66	4,301.70	4,273.90	4,255.73	18.17	235.223		
3,900.00	3,897.51	3,717.41	3,715.37	13.52	12.89	-63.67	-13.72	4,305.15	4,274.18	4,255.53	18.66	229.079		
4,000.00	3,997.27	3,817.41	3,815.12	13.87	13.24	-63.68	-19.78	4,308.59	4,274.47	4,255.32	19.15	223.223		
4,100.00	4,097.03	3,917.41	3,914.88	14.22	13.59	-63.68	-25.84	4,312.04	4,274.76	4,255.12	19.64	217.637		
4,200.00	4,196.78	4,017.41	4,014.64	14.58	13.94	-63.68	-31.90	4,315.48	4,275.04	4,254.91	20.14	212.305		
4,300.00	4,296.54	4,117.41	4,114.39	14.93	14.29	-63.68	-37.96	4,318.93	4,275.33	4,254.70	20.63	207.212		
4,400.00	4,396.30	4,217.41	4,214.15	15.28	14.64	-63.68	-44.03	4,322.38	4,275.62	4,254.49	21.13	202.343		
4,500.00	4,496.05	4,317.41	4,313.90	15.64	15.00	-63.69	-50.09	4,325.82	4,275.90	4,254.27	21.63	197.684		
4,600.00	4,595.81	4,417.41	4,413.66	16.00	15.35	-63.69	-56.15	4,329.27	4,276.19	4,254.06	22.13	193.224		
4,700.00	4,695.57	4,517.41	4,513.42	16.36	15.71	-63.69	-62.21	4,332.71	4,276.47	4,253.84	22.63	188.950		
4,800.00	4,795.32	4,617.40	4,613.17	16.71	16.07	-63.69	-68.27	4,336.16	4,276.76	4,253.62	23.14	184.852		
4,900.00	4,895.08	4,717.40	4,712.93	17.07	16.42	-63.69	-74.33	4,339.60	4,277.05	4,253.41	23.64	180.920		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design LHS Wildcat Fed Com - LHS Wildcat Fed Com 705H - OH - Plan #4													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,994.84	4,817.40	4,812.68	17.43	16.78	-63.70	-80.39	4,343.05	4,277.33	4,253.19	24.15	177.144		
5,100.00	5,094.59	4,917.40	4,912.44	17.79	17.14	-63.70	-86.45	4,346.50	4,277.62	4,252.97	24.65	173.517		
5,200.00	5,194.35	5,017.40	5,012.20	18.16	17.50	-63.70	-92.51	4,349.94	4,277.91	4,252.75	25.16	170.029		
5,300.00	5,294.11	5,117.40	5,111.95	18.52	17.86	-63.70	-98.57	4,353.39	4,278.19	4,252.52	25.67	166.673		
5,400.00	5,393.86	5,217.40	5,211.71	18.88	18.23	-63.70	-104.63	4,356.83	4,278.48	4,252.30	26.18	163.442		
5,500.00	5,493.62	5,317.40	5,311.47	19.24	18.59	-63.71	-110.69	4,360.28	4,278.76	4,252.08	26.69	160.330		
5,600.00	5,593.38	5,417.40	5,411.22	19.61	18.95	-63.71	-116.75	4,363.72	4,279.05	4,251.85	27.20	157.330		
5,700.00	5,693.13	5,517.40	5,510.98	19.97	19.31	-63.71	-122.81	4,367.17	4,279.34	4,251.63	27.71	154.437		
5,800.00	5,792.89	5,617.40	5,610.73	20.34	19.68	-63.71	-128.87	4,370.62	4,279.62	4,251.40	28.22	151.645		
5,900.00	5,892.65	5,717.40	5,710.49	20.70	20.04	-63.71	-134.93	4,374.06	4,279.91	4,251.18	28.73	148.950		
6,000.00	5,992.40	5,817.40	5,810.25	21.07	20.41	-63.72	-140.99	4,377.51	4,280.20	4,250.95	29.25	146.346		
6,100.00	6,092.16	5,917.40	5,910.00	21.43	20.77	-63.72	-147.05	4,380.95	4,280.48	4,250.72	29.76	143.829		
6,200.00	6,191.92	6,017.40	6,009.76	21.80	21.14	-63.72	-153.11	4,384.40	4,280.77	4,250.49	30.28	141.395		
6,300.00	6,291.67	6,117.40	6,109.52	22.17	21.50	-63.72	-159.17	4,387.84	4,281.05	4,250.26	30.79	139.041		
6,400.00	6,391.43	6,217.40	6,209.27	22.53	21.87	-63.72	-165.23	4,391.29	4,281.34	4,250.04	31.31	136.761		
6,500.00	6,491.19	6,317.40	6,309.03	22.90	22.24	-63.73	-171.29	4,394.74	4,281.63	4,249.81	31.82	134.553		
6,600.00	6,590.94	6,417.40	6,408.78	23.27	22.60	-63.73	-177.35	4,398.18	4,281.91	4,249.58	32.34	132.414		
6,700.00	6,690.70	6,517.39	6,508.54	23.64	22.97	-63.73	-183.41	4,401.63	4,282.20	4,249.35	32.85	130.341		
6,800.00	6,790.46	6,617.39	6,608.30	24.00	23.34	-63.73	-189.47	4,405.07	4,282.49	4,249.11	33.37	128.330		
6,900.00	6,890.21	6,717.39	6,708.05	24.37	23.71	-63.73	-195.53	4,408.52	4,282.77	4,248.88	33.89	126.379		
7,000.00	6,989.97	6,834.12	6,824.50	24.74	24.14	-63.74	-202.49	4,412.48	4,283.03	4,248.58	34.45	124.329		
7,100.00	7,089.73	7,052.17	7,042.41	25.11	24.91	-63.84	-208.77	4,416.05	4,281.55	4,246.29	35.25	121.452		
7,200.00	7,189.48	7,161.45	7,151.68	25.48	25.29	-63.93	-208.81	4,416.07	4,278.48	4,242.71	35.78	119.594		
7,300.00	7,289.24	7,261.21	7,251.44	25.85	25.62	-64.01	-208.81	4,416.07	4,275.42	4,239.14	36.28	117.860		
7,400.00	7,389.00	7,360.96	7,351.20	26.22	25.96	-64.09	-208.81	4,416.07	4,272.36	4,235.58	36.78	116.173		
7,504.97	7,493.71	7,465.68	7,455.91	26.61	26.32	-64.18	-208.81	4,416.07	4,269.16	4,231.86	37.30	114.449		
7,600.00	7,588.58	7,560.55	7,550.78	26.95	26.64	-64.22	-208.81	4,416.07	4,266.79	4,229.01	37.78	112.949		
7,700.00	7,688.53	7,660.50	7,650.73	27.31	26.98	-64.24	-208.81	4,416.07	4,265.41	4,227.13	38.27	111.453		
7,771.47	7,760.00	7,731.97	7,722.20	27.56	27.23	88.79	-208.81	4,416.07	4,265.11	4,226.50	38.62	110.443		
7,800.00	7,788.53	7,760.49	7,750.73	27.66	27.32	88.79	-208.81	4,416.07	4,265.11	4,226.36	38.76	110.053		
7,900.00	7,888.53	7,860.49	7,850.73	27.99	27.67	88.79	-208.81	4,416.07	4,265.11	4,225.88	39.24	108.706		
8,000.00	7,988.53	7,960.49	7,950.73	28.33	28.01	88.79	-208.81	4,416.07	4,265.11	4,225.40	39.72	107.390		
8,100.00	8,088.53	8,060.49	8,050.73	28.66	28.35	88.79	-208.81	4,416.07	4,265.11	4,224.92	40.20	106.103		
8,200.00	8,188.53	8,160.49	8,150.73	29.00	28.69	88.79	-208.81	4,416.07	4,265.11	4,224.43	40.68	104.846		
8,300.00	8,288.53	8,260.49	8,250.73	29.34	29.04	88.79	-208.81	4,416.07	4,265.11	4,223.95	41.16	103.616		
8,400.00	8,388.53	8,360.49	8,350.73	29.68	29.38	88.79	-208.81	4,416.07	4,265.11	4,223.47	41.65	102.414		
8,500.00	8,488.53	8,460.49	8,450.73	30.02	29.73	88.79	-208.81	4,416.07	4,265.11	4,222.98	42.13	101.237		
8,600.00	8,588.53	8,560.49	8,550.73	30.36	30.07	88.79	-208.81	4,416.07	4,265.11	4,222.50	42.61	100.087		
8,700.00	8,688.53	8,660.49	8,650.73	30.70	30.42	88.79	-208.81	4,416.07	4,265.11	4,222.02	43.10	98.961		
8,800.00	8,788.53	8,760.49	8,750.73	31.04	30.76	88.79	-208.81	4,416.07	4,265.11	4,221.53	43.58	97.858		
8,900.00	8,888.53	8,860.49	8,850.73	31.38	31.11	88.79	-208.81	4,416.07	4,265.11	4,221.04	44.07	96.779		
9,000.00	8,988.53	8,960.49	8,950.73	31.72	31.45	88.79	-208.81	4,416.07	4,265.11	4,220.56	44.56	95.723		
9,100.00	9,088.53	9,060.49	9,050.73	32.06	31.80	88.79	-208.81	4,416.07	4,265.11	4,220.07	45.04	94.688		
9,200.00	9,188.53	9,160.49	9,150.73	32.40	32.14	88.79	-208.81	4,416.07	4,265.11	4,219.58	45.53	93.675		
9,300.00	9,288.53	9,260.49	9,250.73	32.75	32.49	88.79	-208.81	4,416.07	4,265.11	4,219.10	46.02	92.682		
9,400.00	9,388.53	9,360.49	9,350.73	33.09	32.84	88.79	-208.81	4,416.07	4,265.11	4,218.61	46.51	91.710		
9,500.00	9,488.53	9,460.49	9,450.73	33.43	33.18	88.79	-208.81	4,416.07	4,265.11	4,218.12	47.00	90.756		
9,600.00	9,588.53	9,560.49	9,550.73	33.77	33.53	88.79	-208.81	4,416.07	4,265.11	4,217.63	47.48	89.822		
9,700.00	9,688.53	9,660.49	9,650.73	34.12	33.88	88.79	-208.81	4,416.07	4,265.11	4,217.14	47.97	88.906		
9,800.00	9,788.53	9,760.49	9,750.73	34.46	34.23	88.79	-208.81	4,416.07	4,265.11	4,216.65	48.46	88.008		
9,900.00	9,888.53	9,860.49	9,850.73	34.81	34.58	88.79	-208.81	4,416.07	4,265.11	4,216.16	48.95	87.127		
10,000.00	9,988.53	9,960.49	9,950.73	35.15	34.92	88.79	-208.81	4,416.07	4,265.11	4,215.67	49.44	86.263		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	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	10,088.53	10,060.49	10,050.73	35.50	35.27	88.79	-208.81	4,416.07	4,265.11	4,215.18	49.93	85.415		
10,200.00	10,188.53	10,160.49	10,150.73	35.84	35.62	88.79	-208.81	4,416.07	4,265.11	4,214.69	50.43	84.583		
10,300.00	10,288.53	10,260.49	10,250.73	36.19	35.97	88.79	-208.81	4,416.07	4,265.11	4,214.20	50.92	83.767		
10,400.00	10,388.53	10,360.49	10,350.73	36.53	36.32	88.79	-208.81	4,416.07	4,265.11	4,213.71	51.41	82.966		
10,500.00	10,488.53	10,460.49	10,450.73	36.88	36.67	88.79	-208.81	4,416.07	4,265.11	4,213.21	51.90	82.180		
10,600.00	10,588.53	10,560.49	10,550.73	37.22	37.02	88.79	-208.81	4,416.07	4,265.11	4,212.72	52.39	81.408		
10,700.00	10,688.53	10,660.49	10,650.73	37.57	37.37	88.79	-208.81	4,416.07	4,265.11	4,212.23	52.88	80.650		
10,800.00	10,788.53	10,760.49	10,750.73	37.92	37.72	88.79	-208.81	4,416.07	4,265.11	4,211.74	53.38	79.905		
10,900.00	10,888.53	10,860.49	10,850.73	38.26	38.07	88.79	-208.81	4,416.07	4,265.11	4,211.24	53.87	79.174		
11,000.00	10,988.53	10,960.49	10,950.73	38.61	38.42	88.79	-208.81	4,416.07	4,265.11	4,210.75	54.36	78.456		
11,100.00	11,088.53	11,060.49	11,050.73	38.96	38.77	88.79	-208.81	4,416.07	4,265.11	4,210.26	54.86	77.750		
11,200.00	11,188.53	11,160.49	11,150.73	39.30	39.12	88.79	-208.81	4,416.07	4,265.11	4,209.76	55.35	77.056		
11,300.00	11,288.53	11,260.49	11,250.73	39.65	39.47	88.79	-208.81	4,416.07	4,265.11	4,209.27	55.84	76.375		
11,400.00	11,388.53	11,360.49	11,350.73	40.00	39.82	88.79	-208.81	4,416.07	4,265.11	4,208.78	56.34	75.705		
11,500.00	11,488.53	11,460.49	11,450.73	40.35	40.17	88.79	-208.81	4,416.07	4,265.11	4,208.28	56.83	75.046		
11,600.00	11,588.53	11,565.36	11,555.48	40.70	40.54	88.84	-212.01	4,416.10	4,265.08	4,207.74	57.34	74.382		
11,694.47	11,683.00	11,664.43	11,652.61	41.02	40.90	89.09	-230.91	4,416.29	4,264.93	4,207.10	57.83	73.754		
11,700.00	11,688.53	11,670.00	11,657.95	41.04	40.92	-90.39	-232.47	4,416.30	4,264.92	4,207.07	57.85	73.718		
11,750.00	11,738.44	11,719.68	11,704.91	41.22	41.10	-90.21	-248.64	4,416.46	4,264.86	4,206.75	58.11	73.392		
11,783.15	11,771.32	11,751.96	11,734.59	41.34	41.23	-90.09	-261.31	4,416.58	4,264.85	4,206.57	58.28	73.174 CC		
11,800.00	11,787.93	11,768.18	11,749.23	41.40	41.29	-90.03	-268.30	4,416.65	4,264.86	4,206.48	58.37	73.064		
11,850.00	11,836.62	11,815.60	11,790.81	41.59	41.47	-89.86	-291.07	4,416.88	4,264.90	4,206.26	58.64	72.735		
11,900.00	11,884.15	11,862.02	11,829.55	41.78	41.65	-89.68	-316.62	4,417.13	4,264.98	4,206.08	58.90	72.405		
11,950.00	11,930.14	11,907.52	11,865.40	41.98	41.84	-89.51	-344.63	4,417.40	4,265.11	4,205.93	59.18	72.075		
12,000.00	11,974.25	11,952.20	11,898.32	42.18	42.02	-89.35	-374.81	4,417.70	4,265.27	4,205.82	59.45	71.744		
12,050.00	12,016.15	11,996.12	11,928.31	42.39	42.21	-89.19	-406.89	4,418.01	4,265.47	4,205.74	59.73	71.411		
12,100.00	12,055.51	12,039.36	11,955.34	42.60	42.39	-89.03	-440.62	4,418.34	4,265.70	4,205.68	60.01	71.077		
12,150.00	12,092.03	12,081.99	11,979.42	42.82	42.58	-88.88	-475.78	4,418.68	4,265.95	4,205.64	60.30	70.741		
12,200.00	12,125.44	12,124.06	12,000.56	43.04	42.77	-88.74	-512.14	4,419.04	4,266.21	4,205.61	60.60	70.403		
12,250.00	12,155.49	12,165.64	12,018.78	43.27	42.96	-88.61	-549.50	4,419.41	4,266.48	4,205.59	60.90	70.063		
12,300.00	12,181.94	12,206.77	12,034.09	43.50	43.15	-88.48	-587.67	4,419.78	4,266.76	4,205.56	61.20	69.720		
12,350.00	12,204.59	12,250.00	12,047.18	43.75	43.36	-88.36	-628.86	4,420.18	4,267.03	4,205.52	61.52	69.365		
12,400.00	12,223.27	12,287.94	12,056.09	43.99	43.54	-88.26	-665.72	4,420.54	4,267.30	4,205.48	61.82	69.026		
12,450.00	12,237.84	12,328.06	12,062.83	44.24	43.74	-88.17	-705.26	4,420.93	4,267.55	4,205.41	62.14	68.677		
12,500.00	12,248.19	12,367.93	12,066.77	44.50	43.94	-88.09	-744.93	4,421.32	4,267.78	4,205.32	62.46	68.329		
12,550.00	12,254.23	12,411.22	12,068.19	44.76	44.16	-88.02	-788.19	4,421.74	4,267.99	4,205.19	62.80	67.965		
12,588.27	12,255.92	12,449.47	12,068.94	44.96	44.36	-88.00	-826.44	4,422.12	4,268.06	4,204.98	63.08	67.662		
12,600.00	12,256.05	12,461.20	12,069.17	45.02	44.42	-88.00	-838.16	4,422.23	4,268.07	4,204.90	63.17	67.569		
12,700.00	12,257.13	12,561.20	12,071.13	45.57	44.98	-88.01	-938.14	4,423.21	4,268.14	4,204.19	63.95	66.738		
12,800.00	12,258.22	12,661.20	12,073.08	46.18	45.59	-88.02	-1,038.11	4,424.19	4,268.22	4,203.41	64.82	65.852		
12,900.00	12,259.30	12,761.19	12,075.04	46.83	46.26	-88.03	-1,138.08	4,425.17	4,268.30	4,202.55	65.75	64.918		
13,000.00	12,260.38	12,861.19	12,076.99	47.54	46.97	-88.05	-1,238.05	4,426.15	4,268.37	4,201.62	66.75	63.944		
13,100.00	12,261.47	12,961.19	12,078.95	48.29	47.73	-88.06	-1,338.02	4,427.13	4,268.45	4,200.63	67.82	62.938		
13,200.00	12,262.55	13,061.18	12,080.90	49.08	48.53	-88.07	-1,438.00	4,428.11	4,268.53	4,199.58	68.95	61.907		
13,300.00	12,263.63	13,161.18	12,082.86	49.92	49.38	-88.08	-1,537.97	4,429.09	4,268.61	4,198.47	70.14	60.858		
13,400.00	12,264.71	13,261.17	12,084.81	50.80	50.27	-88.09	-1,637.94	4,430.07	4,268.68	4,197.30	71.39	59.796		
13,500.00	12,265.80	13,361.17	12,086.77	51.71	51.19	-88.10	-1,737.91	4,431.05	4,268.76	4,196.07	72.69	58.727		
13,600.00	12,266.88	13,461.17	12,088.72	52.66	52.15	-88.12	-1,837.89	4,432.02	4,268.84	4,194.80	74.04	57.656		
13,700.00	12,267.96	13,561.16	12,090.68	53.64	53.14	-88.13	-1,937.86	4,433.00	4,268.92	4,193.48	75.44	56.588		
13,800.00	12,269.05	13,661.16	12,092.63	54.66	54.17	-88.14	-2,037.83	4,433.98	4,269.00	4,192.11	76.88	55.525		
13,900.00	12,270.13	13,761.15	12,094.59	55.71	55.23	-88.15	-2,137.80	4,434.96	4,269.07	4,190.70	78.37	54.472		
14,000.00	12,271.21	13,861.15	12,096.54	56.78	56.31	-88.16	-2,237.77	4,435.94	4,269.15	4,189.25	79.90	53.431		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	12,272.30	13,961.15	12,098.50	57.89	57.42	-88.17	-2,337.75	4,436.92	4,269.23	4,187.77	81.47	52.404		
14,200.00	12,273.38	14,061.14	12,100.45	59.01	58.56	-88.19	-2,437.72	4,437.90	4,269.31	4,186.24	83.07	51.394		
14,300.00	12,274.46	14,161.14	12,102.41	60.17	59.72	-88.20	-2,537.69	4,438.88	4,269.39	4,184.68	84.71	50.402		
14,400.00	12,275.54	14,261.14	12,104.36	61.34	60.91	-88.21	-2,637.66	4,439.86	4,269.47	4,183.09	86.38	49.429		
14,500.00	12,276.63	14,361.13	12,106.32	62.54	62.11	-88.22	-2,737.64	4,440.84	4,269.55	4,181.47	88.08	48.476		
14,600.00	12,277.71	14,461.13	12,108.27	63.76	63.34	-88.23	-2,837.61	4,441.82	4,269.63	4,179.83	89.80	47.544		
14,700.00	12,278.79	14,561.12	12,110.23	64.99	64.58	-88.25	-2,937.58	4,442.79	4,269.71	4,178.15	91.56	46.633		
14,800.00	12,279.88	14,661.12	12,112.18	66.25	65.84	-88.26	-3,037.55	4,443.77	4,269.79	4,176.45	93.34	45.744		
14,900.00	12,280.96	14,761.12	12,114.14	67.52	67.12	-88.27	-3,137.52	4,444.75	4,269.87	4,174.73	95.14	44.878		
15,000.00	12,282.04	14,861.11	12,116.09	68.81	68.42	-88.28	-3,237.50	4,445.73	4,269.95	4,172.98	96.97	44.033		
15,100.00	12,283.12	14,961.11	12,118.05	70.11	69.73	-88.29	-3,337.47	4,446.71	4,270.03	4,171.21	98.82	43.210		
15,200.00	12,284.21	15,061.10	12,120.00	71.43	71.05	-88.30	-3,437.44	4,447.69	4,270.11	4,169.42	100.69	42.409		
15,300.00	12,285.29	15,161.10	12,121.96	72.76	72.39	-88.32	-3,537.41	4,448.67	4,270.19	4,167.61	102.58	41.629		
15,400.00	12,286.37	15,261.10	12,123.91	74.11	73.74	-88.33	-3,637.39	4,449.65	4,270.27	4,165.79	104.48	40.870		
15,500.00	12,287.46	15,361.09	12,125.87	75.46	75.10	-88.34	-3,737.36	4,450.63	4,270.36	4,163.95	106.41	40.132		
15,600.00	12,288.54	15,461.09	12,127.82	76.83	76.48	-88.35	-3,837.33	4,451.61	4,270.44	4,162.09	108.35	39.414		
15,700.00	12,289.62	15,561.09	12,129.78	78.21	77.86	-88.36	-3,937.30	4,452.59	4,270.52	4,160.22	110.30	38.716		
15,800.00	12,290.71	15,661.08	12,131.73	79.60	79.26	-88.37	-4,037.27	4,453.56	4,270.60	4,158.33	112.27	38.038		
15,900.00	12,291.79	15,761.08	12,133.69	81.00	80.66	-88.39	-4,137.25	4,454.54	4,270.68	4,156.43	114.26	37.378		
16,000.00	12,292.87	15,861.07	12,135.64	82.41	82.08	-88.40	-4,237.22	4,455.52	4,270.77	4,154.51	116.25	36.737		
16,100.00	12,293.95	15,961.07	12,137.60	83.83	83.50	-88.41	-4,337.19	4,456.50	4,270.85	4,152.59	118.26	36.114		
16,200.00	12,295.04	16,061.07	12,139.55	85.25	84.93	-88.42	-4,437.16	4,457.48	4,270.93	4,150.65	120.28	35.508		
16,300.00	12,296.12	16,161.06	12,141.51	86.69	86.37	-88.43	-4,537.14	4,458.46	4,271.01	4,148.70	122.31	34.918		
16,400.00	12,297.20	16,261.06	12,143.46	88.13	87.82	-88.44	-4,637.11	4,459.44	4,271.10	4,146.74	124.36	34.345		
16,500.00	12,298.29	16,361.05	12,145.42	89.58	89.27	-88.46	-4,737.08	4,460.42	4,271.18	4,144.77	126.41	33.788		
16,600.00	12,299.37	16,461.05	12,147.37	91.03	90.73	-88.47	-4,837.05	4,461.40	4,271.26	4,142.79	128.47	33.246		
16,700.00	12,300.45	16,561.05	12,149.33	92.50	92.20	-88.48	-4,937.02	4,462.38	4,271.35	4,140.80	130.54	32.719		
16,800.00	12,301.53	16,661.04	12,151.28	93.97	93.67	-88.49	-5,037.00	4,463.36	4,271.43	4,138.80	132.63	32.207		
16,900.00	12,302.62	16,761.04	12,153.24	95.44	95.15	-88.50	-5,136.97	4,464.34	4,271.51	4,136.80	134.71	31.708		
17,000.00	12,303.70	16,861.04	12,155.19	96.92	96.63	-88.52	-5,236.94	4,465.31	4,271.60	4,134.79	136.81	31.223		
17,100.00	12,304.78	16,961.03	12,157.15	98.41	98.12	-88.53	-5,336.91	4,466.29	4,271.68	4,132.77	138.92	30.750		
17,200.00	12,305.87	17,061.03	12,159.10	99.90	99.62	-88.54	-5,436.89	4,467.27	4,271.77	4,130.74	141.03	30.290		
17,300.00	12,306.95	17,161.02	12,161.06	101.39	101.12	-88.55	-5,536.86	4,468.25	4,271.85	4,128.70	143.15	29.842		
17,400.00	12,308.03	17,261.02	12,163.01	102.90	102.62	-88.56	-5,636.83	4,469.23	4,271.94	4,126.66	145.27	29.406		
17,500.00	12,309.12	17,361.02	12,164.97	104.40	104.13	-88.57	-5,736.80	4,470.21	4,272.02	4,124.62	147.40	28.982		
17,600.00	12,310.20	17,461.01	12,166.92	105.91	105.64	-88.59	-5,836.78	4,471.19	4,272.11	4,122.56	149.54	28.568		
17,700.00	12,311.28	17,561.01	12,168.88	107.43	107.16	-88.60	-5,936.75	4,472.17	4,272.19	4,120.50	151.69	28.165		
17,800.00	12,312.36	17,661.00	12,170.83	108.94	108.68	-88.61	-6,036.72	4,473.15	4,272.28	4,118.44	153.84	27.772		
17,900.00	12,313.45	17,761.00	12,172.79	110.47	110.21	-88.62	-6,136.69	4,474.13	4,272.36	4,116.37	155.99	27.388		
18,000.00	12,314.53	17,861.00	12,174.74	111.99	111.74	-88.63	-6,236.66	4,475.11	4,272.45	4,114.30	158.15	27.015		
18,100.00	12,315.61	17,960.99	12,176.70	113.52	113.27	-88.64	-6,336.64	4,476.08	4,272.53	4,112.22	160.32	26.651		
18,200.00	12,316.70	18,060.99	12,178.65	115.05	114.80	-88.66	-6,436.61	4,477.06	4,272.62	4,110.13	162.49	26.295		
18,300.00	12,317.78	18,160.98	12,180.61	116.59	116.34	-88.67	-6,536.58	4,478.04	4,272.71	4,108.05	164.66	25.949		
18,400.00	12,318.86	18,260.98	12,182.56	118.13	117.88	-88.68	-6,636.55	4,479.02	4,272.79	4,105.95	166.84	25.610		
18,500.00	12,319.94	18,360.98	12,184.52	119.67	119.43	-88.69	-6,736.53	4,480.00	4,272.88	4,103.86	169.02	25.280		
18,600.00	12,321.03	18,460.97	12,186.47	121.22	120.97	-88.70	-6,836.50	4,480.98	4,272.97	4,101.76	171.21	24.957		
18,700.00	12,322.11	18,560.97	12,188.43	122.76	122.52	-88.71	-6,936.47	4,481.96	4,273.05	4,099.65	173.40	24.643		
18,800.00	12,323.19	18,660.97	12,190.38	124.32	124.08	-88.73	-7,036.44	4,482.94	4,273.14	4,097.55	175.60	24.335		
18,900.00	12,324.28	18,760.96	12,192.34	125.87	125.63	-88.74	-7,136.41	4,483.92	4,273.23	4,095.44	177.79	24.035		
19,000.00	12,325.36	18,860.96	12,194.29	127.42	127.19	-88.75	-7,236.39	4,484.90	4,273.32	4,093.32	180.00	23.741		
19,100.00	12,326.44	18,960.95	12,196.25	128.98	128.75	-88.76	-7,336.36	4,485.88	4,273.40	4,091.20	182.20	23.454		
19,200.00	12,327.53	19,060.95	12,198.20	130.54	130.31	-88.77	-7,436.33	4,486.85	4,273.49	4,089.08	184.41	23.174		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	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	12,328.61	19,160.95	12,200.16	132.11	131.88	-88.79	-7,536.30	4,487.83	4,273.58	4,086.96	186.62	22.900		
19,400.00	12,329.69	19,260.94	12,202.11	133.67	133.44	-88.80	-7,636.28	4,488.81	4,273.67	4,084.83	188.84	22.632		
19,500.00	12,330.77	19,360.94	12,204.07	135.24	135.01	-88.81	-7,736.25	4,489.79	4,273.76	4,082.71	191.05	22.369		
19,600.00	12,331.86	19,460.93	12,206.02	136.81	136.58	-88.82	-7,836.22	4,490.77	4,273.85	4,080.57	193.27	22.113		
19,700.00	12,332.94	19,560.93	12,207.98	138.38	138.15	-88.83	-7,936.19	4,491.75	4,273.94	4,078.44	195.50	21.862		
19,800.00	12,334.02	19,660.93	12,209.93	139.95	139.73	-88.84	-8,036.16	4,492.73	4,274.02	4,076.30	197.72	21.616		
19,900.00	12,335.11	19,760.92	12,211.89	141.52	141.30	-88.86	-8,136.14	4,493.71	4,274.11	4,074.16	199.95	21.376		
20,000.00	12,336.19	19,860.92	12,213.84	143.10	142.88	-88.87	-8,236.11	4,494.69	4,274.20	4,072.02	202.18	21.140		
20,100.00	12,337.27	19,960.92	12,215.80	144.68	144.46	-88.88	-8,336.08	4,495.67	4,274.29	4,069.88	204.41	20.910		
20,200.00	12,338.35	20,060.91	12,217.75	146.26	146.04	-88.89	-8,436.05	4,496.65	4,274.38	4,067.73	206.65	20.684		
20,300.00	12,339.44	20,160.91	12,219.71	147.84	147.63	-88.90	-8,536.03	4,497.62	4,274.47	4,065.59	208.89	20.463		
20,400.00	12,340.52	20,260.90	12,221.66	149.42	149.21	-88.91	-8,636.00	4,498.60	4,274.56	4,063.44	211.13	20.246		
20,500.00	12,341.60	20,360.90	12,223.62	151.01	150.79	-88.93	-8,735.97	4,499.58	4,274.65	4,061.29	213.37	20.034		
20,600.00	12,342.69	20,460.90	12,225.57	152.59	152.38	-88.94	-8,835.94	4,500.56	4,274.74	4,059.13	215.61	19.826		
20,700.00	12,343.77	20,560.89	12,227.53	154.18	153.97	-88.95	-8,935.91	4,501.54	4,274.83	4,056.98	217.86	19.622		
20,800.00	12,344.85	20,660.89	12,229.48	155.77	155.56	-88.96	-9,035.89	4,502.52	4,274.93	4,054.82	220.11	19.422		
20,900.00	12,345.94	20,760.88	12,231.44	157.36	157.15	-88.97	-9,135.86	4,503.50	4,275.02	4,052.66	222.35	19.226		
21,000.00	12,347.02	20,860.88	12,233.39	158.95	158.74	-88.98	-9,235.83	4,504.48	4,275.11	4,050.50	224.61	19.034		
21,100.00	12,348.10	20,960.88	12,235.35	160.54	160.34	-89.00	-9,335.80	4,505.46	4,275.20	4,048.34	226.86	18.845		
21,200.00	12,349.18	21,060.87	12,237.30	162.13	161.93	-89.01	-9,435.78	4,506.44	4,275.29	4,046.18	229.11	18.660		
21,300.00	12,350.27	21,160.87	12,239.26	163.73	163.53	-89.02	-9,535.75	4,507.42	4,275.38	4,044.01	231.37	18.479		
21,400.00	12,351.35	21,260.87	12,241.21	165.32	165.12	-89.03	-9,635.72	4,508.39	4,275.47	4,041.85	233.63	18.300		
21,500.00	12,352.43	21,360.86	12,243.17	166.92	166.72	-89.04	-9,735.69	4,509.37	4,275.57	4,039.68	235.89	18.125		
21,600.00	12,353.52	21,460.86	12,245.12	168.52	168.32	-89.05	-9,835.66	4,510.35	4,275.66	4,037.51	238.15	17.954		
21,700.00	12,354.60	21,560.85	12,247.08	170.12	169.92	-89.07	-9,935.64	4,511.33	4,275.75	4,035.34	240.41	17.785		
21,800.00	12,355.68	21,660.85	12,249.03	171.72	171.52	-89.08	-10,035.61	4,512.31	4,275.84	4,033.17	242.67	17.620		
21,900.00	12,356.76	21,760.85	12,250.99	173.32	173.12	-89.09	-10,135.58	4,513.29	4,275.94	4,031.00	244.94	17.457		
22,000.00	12,357.85	21,860.84	12,252.94	174.92	174.72	-89.10	-10,235.55	4,514.27	4,276.03	4,028.82	247.21	17.297		
22,100.00	12,358.93	21,960.84	12,254.90	176.52	176.33	-89.11	-10,335.53	4,515.25	4,276.12	4,026.65	249.47	17.141		
22,200.00	12,360.01	22,060.83	12,256.85	178.13	177.93	-89.12	-10,435.50	4,516.23	4,276.22	4,024.47	251.74	16.986		
22,300.00	12,361.10	22,160.83	12,258.81	179.73	179.54	-89.14	-10,535.47	4,517.21	4,276.31	4,022.30	254.01	16.835		
22,389.94	12,362.07	22,250.76	12,260.56	181.18	180.89	-89.15	-10,625.38	4,518.09	4,276.39	4,020.40	255.99	16.705		
22,390.61	12,362.08	22,251.43	12,260.58	181.19	180.90	-89.15	-10,626.05	4,518.09	4,276.40	4,020.39	256.00	16.704 ES, SF		

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



Total Directional Services



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3069.7' GE + 21' KB @ 3090.70usft

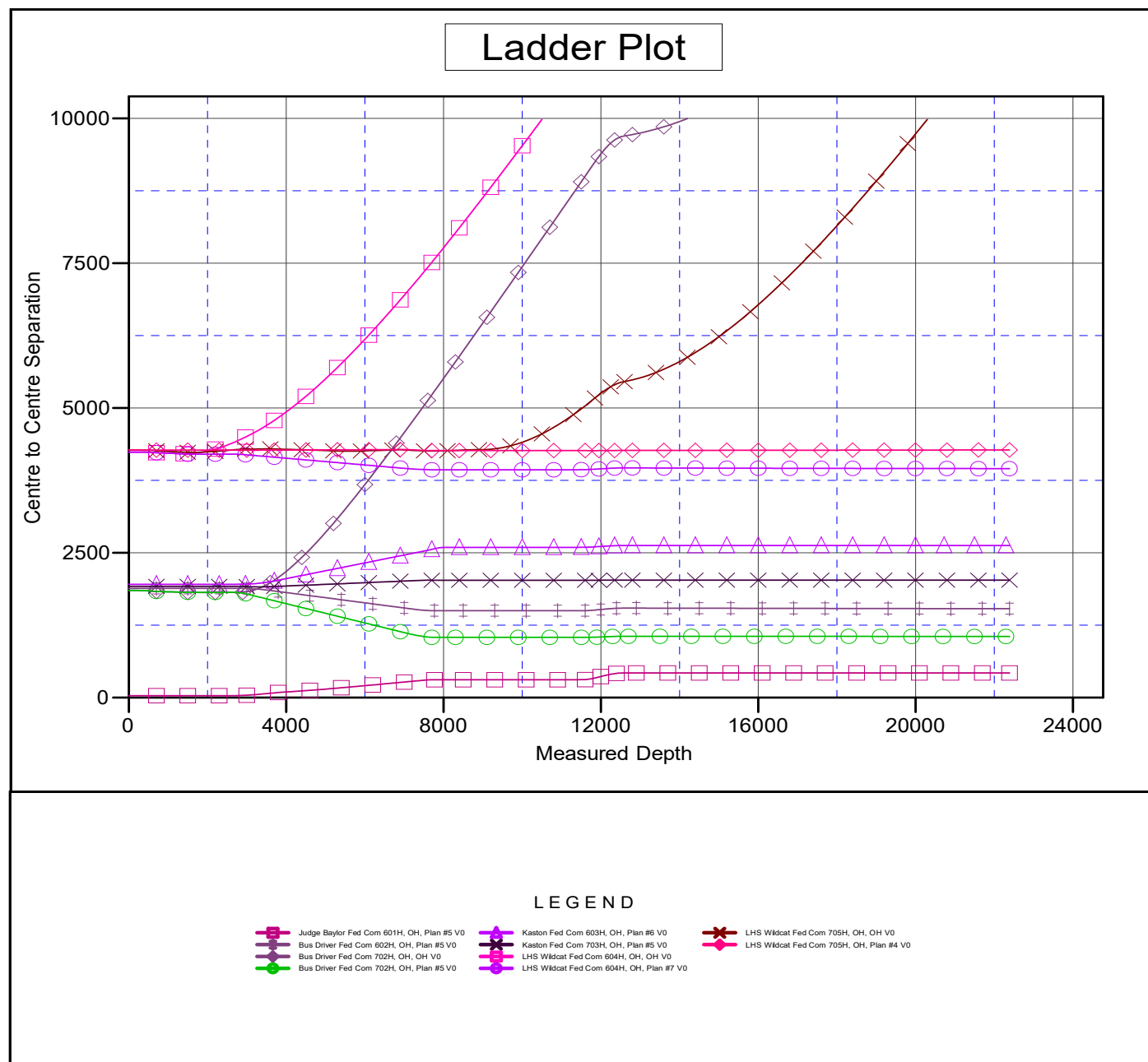
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

Coordinates are relative to: Judge Baylor Fed Com 701H

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

Grid Convergence at Surface is: 0.53°



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



Total Directional Services

Anticollision Report

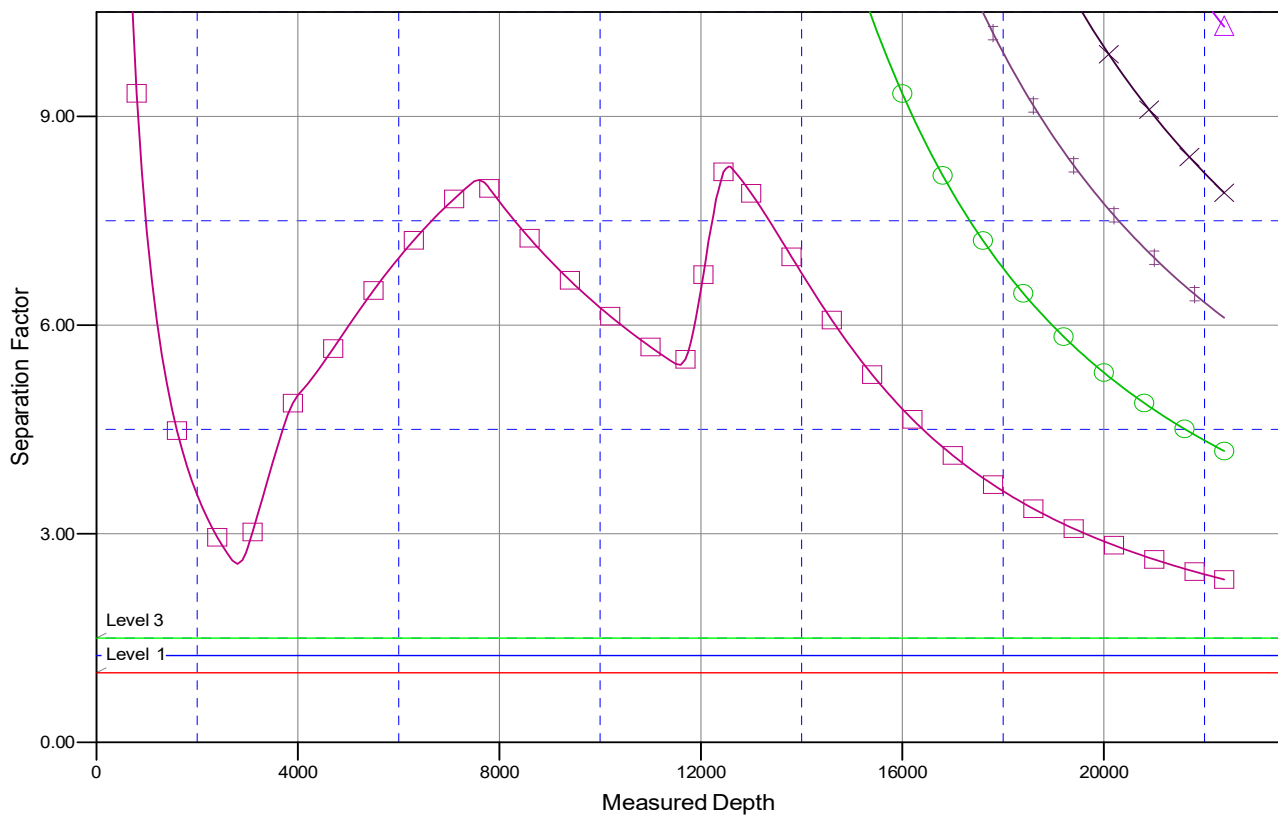


Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 701H
Project:	Lea County, NM (NAD83)	TVD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3069.7' GE + 21' KB @ 3090.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3069.7' GE + 21' KB @ 3090.70usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.333334

Coordinates are relative to: Judge Baylor Fed Com 701H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.53°

Separation Factor Plot



LEGEND

Judge Baylor Fed Com 601H, OH, Plan #5 V0	Kastori Fed Com 603H, OH, Plan #6 V0	LHS Wildcat Fed Com 705H, OH, OH V0
Bus Driver Fed Com 602H, OH, Plan #5 V0	Kastori Fed Com 703H, OH, Plan #5 V0	LHS Wildcat Fed Com 705H, OH, Plan #4 V0
Bus Driver Fed Com 702H, OH, OH V0	LHS Wildcat Fed Com 604H, OH, OH V0	
Bus Driver Fed Com 702H, OH, Plan #5 V0	LHS Wildcat Fed Com 604H, OH, Plan #7 V0	

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

FRANKLIN MOUNTAIN ENERGY



Geologic Prognosis

Well Name	Judge Baylor Fed Com 701H
Operator	Franklin Mountain Energy, LLC
Project Area	PF Unit
Well Type	10,000' Upper Wolfcamp Lateral
API	
Rig	H&P 518

State	NM	County	Lea						
SHL	Township	25S/35E	Section	36	523'	FWL	250'	FSL	
BHL	Township	26S/35E	Section	12	660'	FWL	150'	FNL	
Surface Latitude	NAD 83		32.08026						
Surface Longitude	NAD 83		103.328098						
Bottom Hole Latitude	NAD 83		32.050938						
Bottom Hole Longitude	NAD 83		103.327637						
Ground Level	3,071'	Rig KB	30'	KB	3,101'				

Formations	PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
Cenozoic Alluvium (surface)	3,071'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2,360'	741'			Carbonates
Salado	1,858'	1,243'			Salt, Carbonate & Clastics
Base Salt	-383'	3,484'			Shaley Carbonate & Shale
Lamar	-1,906'	5,007'			Carbonate & Clastics
Bell Canyon	-1,995'	5,096'			Sandstone - oil/gas/water
Cherry Canyon	-2,872'	5,973'			Sandstone - oil/gas/water
Brushy Canyon	-4,313'	7,414'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,576'	8,677'			Shale/Carbonates - oil/gas
Avalon	-5,620'	8,721'			Shale/Carbonates - oil/gas
Chert Zone	-5,807'	8,908'			Carbonate, chert
First Bone Spring Sand	-6,897'	9,998'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-7,083'	10,184'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7,466'	10,567'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-7,987'	11,088'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-8,781'	11,882'			Sandstone - oil/gas/water
Wolfcamp	-8,967'	12,068'			Overpressure shale/sand- Oil/Gas
Wolfcamp A	-9,031'	12,132'			Overpressure Shale - Oil/Gas
HZ Target	-9,138'	12,239'			Overpressure Shale - Oil/Gas
Wolfcamp B	-9,230'	12,331'			Overpressure Shale - Oil/Gas

Target interval is expected to have an average apparent dip of 0.0 degrees down along the lateral based on the Wolfcamp A structure

Target window tolerance is set at +/- 10'

Target Line: 12239' KBTVD @ 0° VS w/90° inc.

Offset Log: Talco Unit 001 (300252674700)

Updated 7/6/21

FME Geologist	Ben Kessel		bkessel@fmellc.com	
	Office	720-414-7868	Cell	303.868.9946
FME Engineer				
Electric Logs				
			From	To
Open-Hole				
	n/a			
MWD/LWD				
	MWD GR		Int. 1 Csg. Point	TD
Mud Log:				
Start logging at drill out of surface casing				
Sampling:	10' samples in vertical and through curve, 30' samples in lateral			
Samples:	1 set dry samples at footage frequency noted above			
Mud Gas:	Continuous			
Daily Contact:	Email distribution of mud log/daily report at 7:30am and 4:30 pm CST			
Daily Mud Log Email Distribution List				
Final Mud Log Distribution				
	Ben Kessel (bkessel@fmellc.com)			email
Cuttings/Samples Shipment Information				

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 36995

CONDITIONS

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 36995
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	9/24/2021