

Well Name: JUDGE BAYLOR FED COM	Well Location: T25S / R35E / SEC 36 / SWSW / 32.08026 / -103.328211	County or Parish/State: LEA / NM
Well Number: 601H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM117126	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548102	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: 09:53

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_601H___Plan_5_20210712095249.pdf
- Judge_Baylor_601H_GEOPROG_Final_20210712095242.pdf
- Eagle_606_Spec_Sheet_20210712095236.pdf
- FME_Federal_14_Point_Plan_JB_601_20210712095228.pdf

Well Name: JUDGE BAYLOR FED COM

Well Location: T25S / R35E / SEC 36 / SWSW / 32.08026 / -103.328211

County or Parish/State: LEA / NM

Well Number: 601H

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Allottee or Tribe Name:

Lease Number: NMNM117126

Unit or CA Name:

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Well Status: Drilling Well

Operator: FRANKLIN MOUNTAIN ENERGY LLC

Conditions of Approval

Specialist Review

Judge_Baylor_Fed_Com_601H_Sundry_ID_2507170_20210712124909.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 09:53 AM

Name: FRANKLIN MOUNTAIN ENERGY LLC

Title: Director – Operations Planning and Regulatory

Street Address: 2401 E 2nd Avenue, Suite 300

City: Denver

State: 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 601H

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	1,812'	1,288'			Salt, Carbonate & Clastics
Base Salt	-513'	3,613'			Shaley Carbonate & Shale
Lamar	-1,990'	5,090'			Carbonate & Clastics
Bell Canyon	-2,022'	5,122'			Sandstone - oil/gas/water
Cherry Canyon	-2,902'	6,002'			Sandstone - oil/gas/water
Brushy Canyon	-4,300'	7,400'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,578'	8,678'			Shale/Carbonates - oil/gas
Avalon	-5,627'	8,727'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-6,827'	9,927'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-6,959'	10,059'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7,405'	10,505'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-8,097'	11,197'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-8,715'	11,815'			Sandstone - oil/gas/water
HZ Target at SHL	-8,844'	11,944'			Overpressure shale/sand- Oil/Gas
Wolfcamp	-8,957'	12,057'			Overpressure shale/sand- Oil/Gas
Wolfcamp A	-9,018'	12,118'			Overpressure Shale - Oil/Gas
Wolfcamp B	-9,238'	12,338'			Overpressure Shale - Oil/Gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	5,122'	Oil
Bone Spring	9,927'	Oil
Wolfcamp	12,057'	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	12297	1.08	1.24	1.78	1.21
Long string 5 1/2"	23	P-110	14520	14520	729	Eagle 606 TVD	22100 12068	1.32	1.40	1.20	1.00 1.61



7 5/8" casing will be set at 12,297' MD/11,962' TVD at 89° Inc. Stress calculations on 5 1/2" casing performed assuming 22,100' depth. Actual max vertical depth is 12,068'.

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		Sacks	Type of cmt	Lead			Sacks	Type of cmt	Tail			Excess
		Size	Setting Depth			Yield ft ³ /sk	Water gal/sk	TOC ft			Yield ft ³ /sk	Water gal/sk	TOC	
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%
					0.125pps Poly-E-Flake					1% CaCl ₂ , 0.125pps Celo-Flake				
Int1	12.25	9.625	5100	1488	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	12297	387	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	11297	50%
					Bridgemaker Gel, 5% Salt, 5pps LCM, 0.25pps Cello-Flake					0.25 pps Cello-Flake, 2% CaCl ₂				
Prod	6.75	5.5	22100	806	Tail, 14.5 ppg, Gas Migration Control	1.34	6.22	11297						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 ppg. In order to maintain hole stability, mud weights up to 12.3 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 12,068' TVD (deepest point of the well) is 195F with an estimated maximum bottom-hole pressure (BHP) at the same point of 7,844 psig (based on 12.5 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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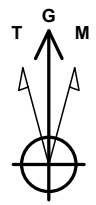
U. S. Steel Tubular Products
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

1-877-893-9461
connections@uss.com
www.usstubular.com

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Franklin Mountain Energy

Project: Lea County, NM (NAD83)
 Site: Judge Baylor Fed Com
 Well: Judge Baylor Fed Com 601H
 Wellbore: OH
 Design: Plan #5



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

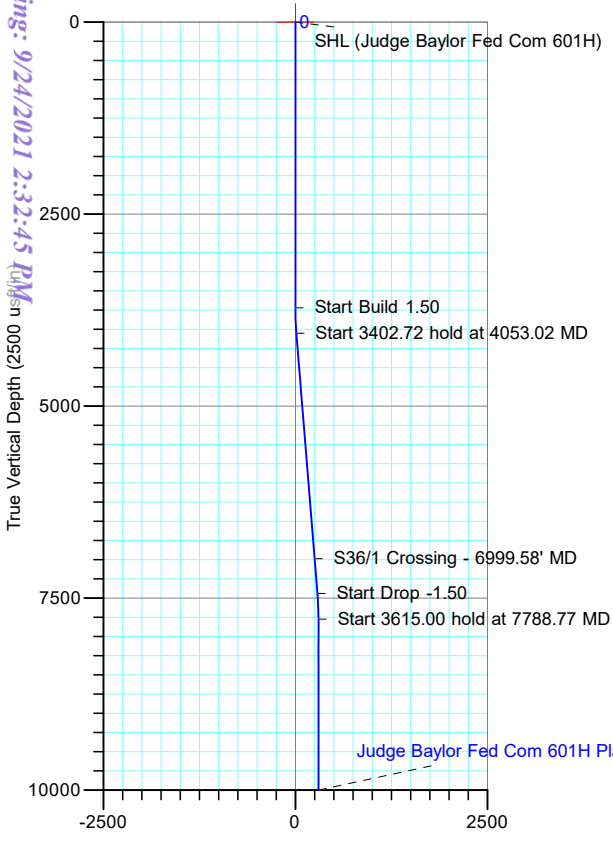
Magnetic Field
 Strength: 47603.8nT
 Dip Angle: 59.93°
 Date: 2/25/2020
 Model: IGRF2015

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



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3070° GE + 21' KB @ 3091.00usft

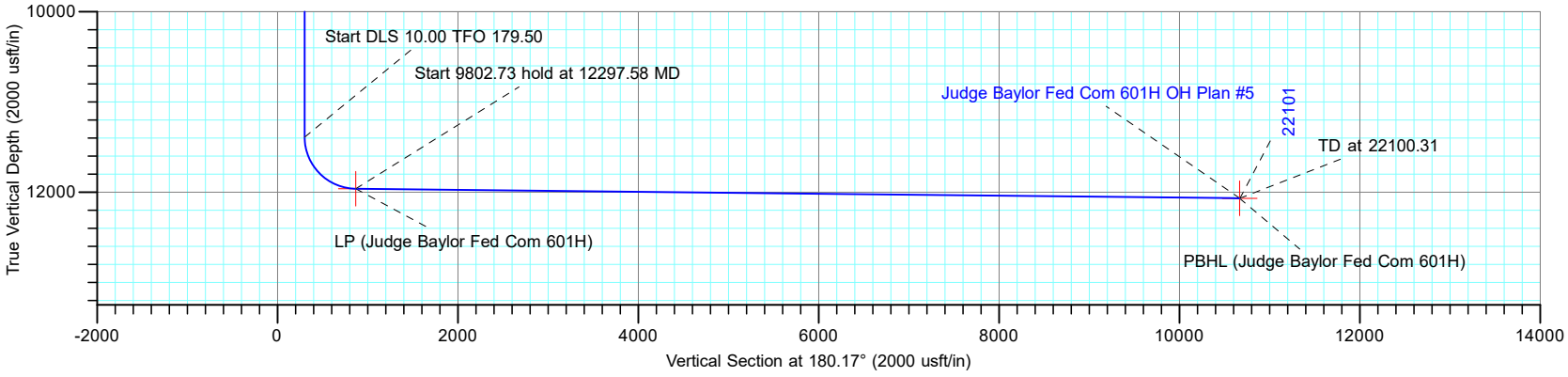
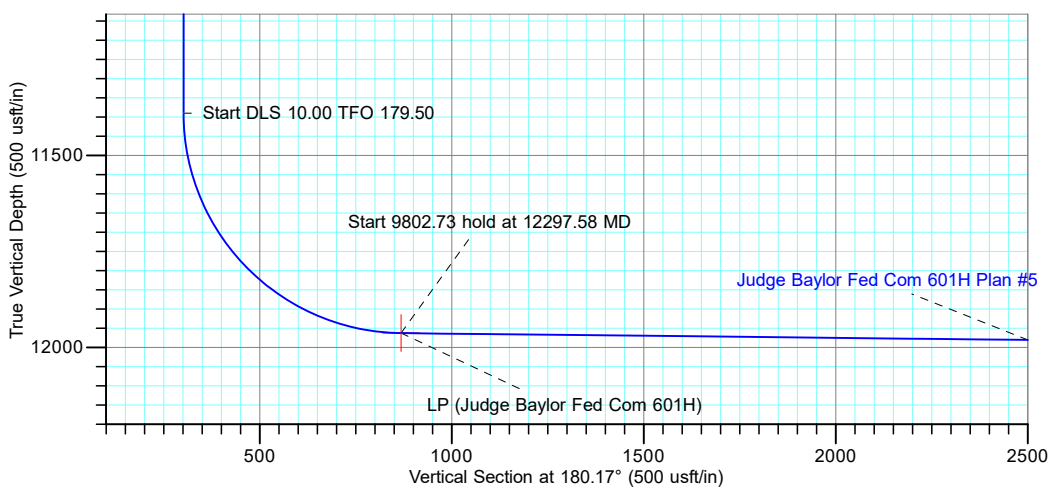


SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3720.00	0.00	0.00	3720.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
4053.02	5.00	202.22	4052.60	-13.43	-5.49	1.50	202.22	13.45	Start 3402.72 hold at 4053.02 MD
7455.75	5.00	202.22	7442.40	-287.71	-117.55	0.00	0.00	288.07	Start Drop -1.50
7788.77	0.00	0.00	7775.00	-301.14	-123.04	1.50	180.00	301.51	Start 3615.00 hold at 7788.77 MD
11403.77	0.00	0.00	11390.00	-301.14	-123.04	0.00	0.00	301.51	Start DLS 10.00 TFO 179.50
12297.58	89.38	179.50	11962.92	-867.88	-118.10	10.00	179.50	868.24	Start 9802.73 hold at 12297.58 MD
22100.31	89.38	179.50	12068.87	-10669.67	-32.58	0.00	0.00	10669.72	TD at 22100.31

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
LP (Judge Baylor Fed Com 601H)	11962.92	-867.88	-118.10	32.077878	-103.328619
PBHL (Judge Baylor Fed Com 601H)	12068.87	-10669.67	-32.58	32.050935	-103.328637
SHL (Judge Baylor Fed Com 601H)	0.00	0.00	0.00	32.080260	-103.328211



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

Plan: Plan #5 (Judge Baylor Fed Com 601H/OH)
 Judge Baylor Fed Com
 Created By: Dustin Ault
 Date: 17:59, May 24 2021
 Approved: _____ Date: _____

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Franklin Mountain Energy

Project: Lea County, NM (NAD83)
 Site: Judge Baylor Fed Com
 Well: Judge Baylor Fed Com 601H
 Wellbore: OH
 Design: Plan #5



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

Magnetic Field
 Strength: 47603.8nT
 Dip Angle: 59.93°
 Date: 2/25/2020
 Model: IGRF2015



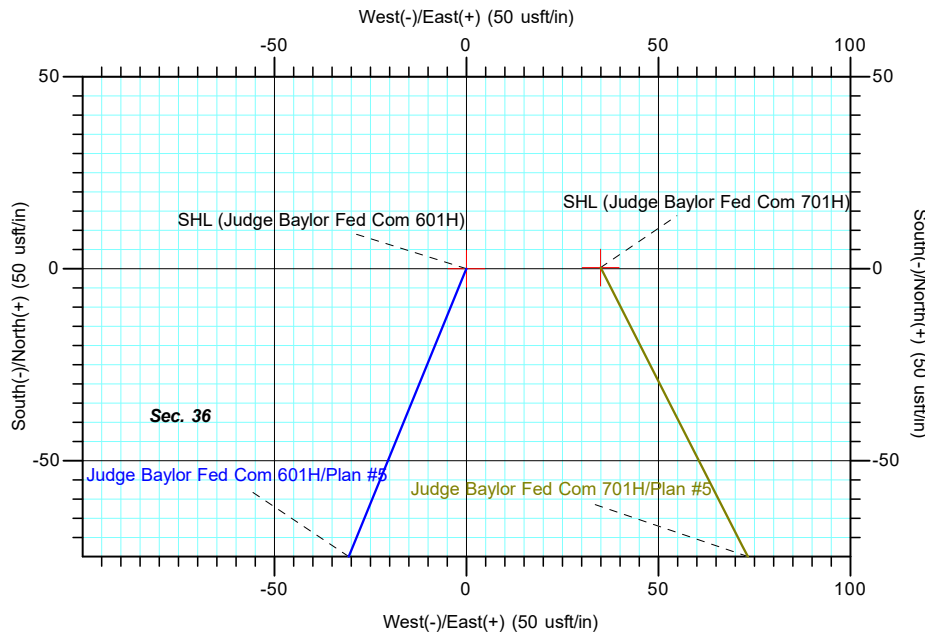
PROJECT DETAILS: Lea County, NM (NAD83)
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone

DESIGN TARGET DETAILS

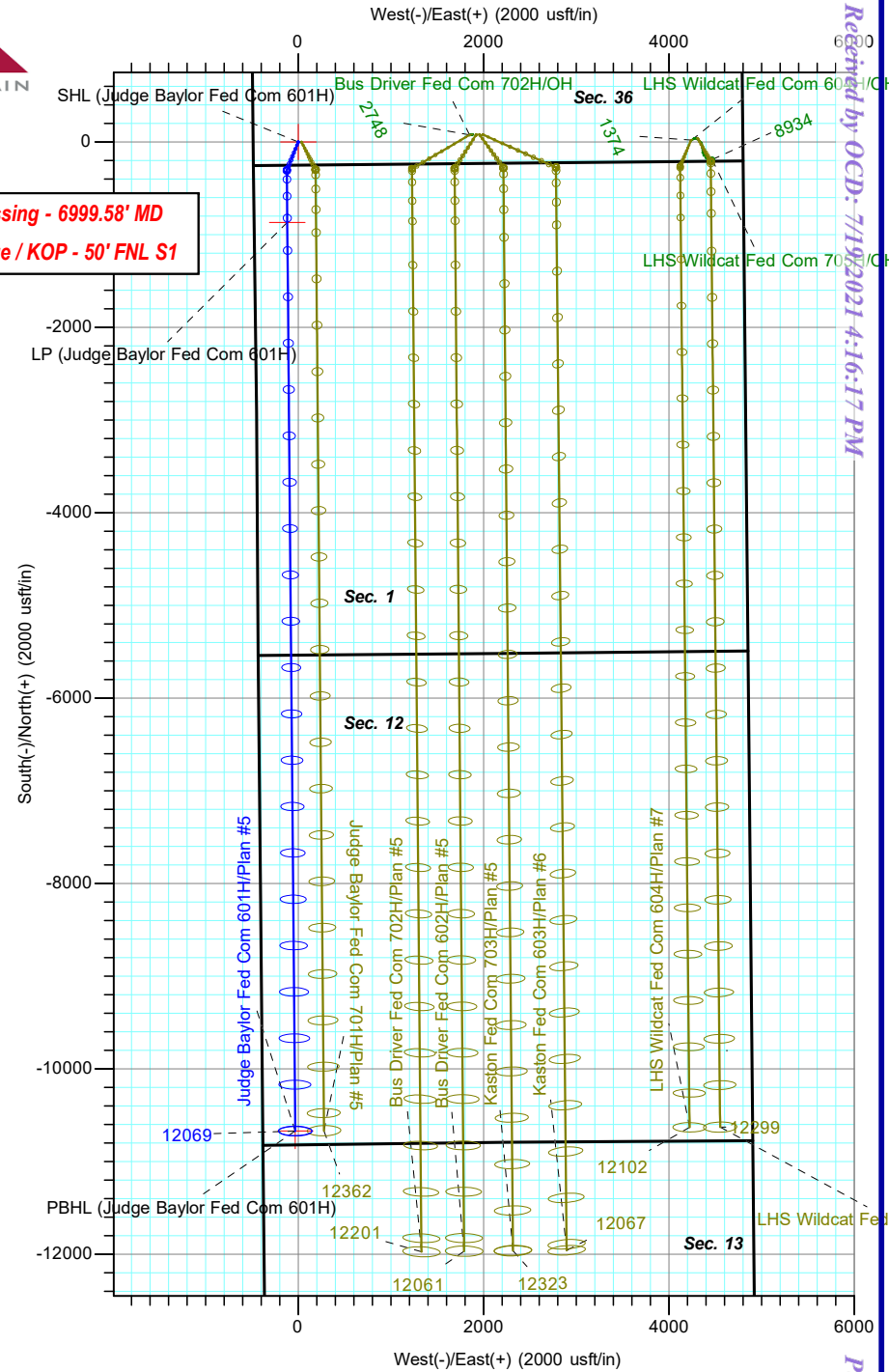
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP (Judge Baylor Fed Com 601H)	11962.92	-867.88	-118.10	393518.35	852530.51	32.077878	-103.328619
PBHL (Judge Baylor Fed Com 601H)	12068.87	-10669.67	-32.58	383716.56	852616.03	32.050935	-103.328637
SHL (Judge Baylor Fed Com 601H)	0.00	0.00	0.00	394386.23	852648.61	32.080260	-103.328211

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3720.00	0.00	0.00	3720.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
4053.02	5.00	202.22	4052.60	-13.43	-5.49	1.50	202.22	13.45	Start 3402.72 hold at 4053.02 MD
7455.75	5.00	202.22	7442.40	-287.71	-117.55	0.00	0.00	288.07	Start Drop -1.50
7788.77	0.00	0.00	7775.00	-301.14	-123.04	1.50	180.00	301.51	Start 3615.00 hold at 7788.77 MD
11403.77	0.00	0.00	11390.00	-301.14	-123.04	0.00	0.00	301.51	Start DLS 10.00 TFO 179.50
12297.58	89.38	179.50	11962.92	-867.88	-118.10	10.00	179.50	868.24	Start 9802.73 hold at 12297.58 MD
22100.31	89.38	179.50	12068.87	-10669.67	-32.58	0.00	0.00	10669.72	TD at 22100.31



S36/1 Crossing - 6999.58' MD
End of Nudge / KOP - 50' FNL S1



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Franklin Mountain Energy

Lea County, NM (NAD83)
Judge Baylor Fed Com
Judge Baylor Fed Com 601H

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 601H
Company:	Franklin Mountain Energy	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 601H	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 601H					
Well Position	+N/-S	0.00 usft	Northing:	394,386.23 usft	Latitude:	32.080260
	+E/-W	0.00 usft	Easting:	852,648.61 usft	Longitude:	-103.328212
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	3,070.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/25/2020	6.54	59.93	47,603.84823561

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	180.17

Plan Survey Tool Program	Date	5/24/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,100.21 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	0.00
3,720.00	0.00	0.00	3,720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,053.02	5.00	202.22	4,052.60	-13.43	-5.49	1.50	1.50	0.00	202.22	
7,455.75	5.00	202.22	7,442.40	-287.71	-117.55	0.00	0.00	0.00	0.00	
7,788.77	0.00	0.00	7,775.00	-301.14	-123.04	1.50	-1.50	0.00	180.00	
11,403.77	0.00	0.00	11,390.00	-301.14	-123.04	0.00	0.00	0.00	0.00	
12,297.58	89.38	179.50	11,962.92	-867.88	-118.10	10.00	10.00	20.08	179.50	
22,100.31	89.38	179.50	12,068.87	-10,669.67	-32.58	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 601H
Company:	Franklin Mountain Energy	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 601H	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	0.00
SHL (Judge Baylor Fed Com 601H)										
100.00	0.00	0.00	100.00	0.00	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	0.00
300.00	0.00	0.00	300.00	0.00	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	0.00
500.00	0.00	0.00	500.00	0.00	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	0.00
700.00	0.00	0.00	700.00	0.00	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	0.00
900.00	0.00	0.00	900.00	0.00	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	0.00
1,100.00	0.00	0.00	1,100.00	0.00	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	0.00
1,300.00	0.00	0.00	1,300.00	0.00	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	0.00
1,500.00	0.00	0.00	1,500.00	0.00	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	0.00
1,700.00	0.00	0.00	1,700.00	0.00	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	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	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	0.00
2,300.00	0.00	0.00	2,300.00	0.00	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	0.00
2,500.00	0.00	0.00	2,500.00	0.00	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	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,720.00	0.00	0.00	3,720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50										
3,800.00	1.20	202.22	3,799.99	-0.78	-0.32	0.78	1.50	1.50	1.50	0.00
3,900.00	2.70	202.22	3,899.93	-3.93	-1.60	3.93	1.50	1.50	1.50	0.00
4,000.00	4.20	202.22	3,999.75	-9.50	-3.88	9.51	1.50	1.50	1.50	0.00
4,053.02	5.00	202.22	4,052.60	-13.43	-5.49	13.45	1.50	1.50	1.50	0.00
Start 3402.72 hold at 4053.02 MD										
4,100.00	5.00	202.22	4,099.40	-17.22	-7.03	17.24	0.00	0.00	0.00	0.00
4,200.00	5.00	202.22	4,199.02	-25.28	-10.33	25.31	0.00	0.00	0.00	0.00
4,300.00	5.00	202.22	4,298.64	-33.34	-13.62	33.38	0.00	0.00	0.00	0.00
4,400.00	5.00	202.22	4,398.26	-41.40	-16.91	41.45	0.00	0.00	0.00	0.00
4,500.00	5.00	202.22	4,497.88	-49.46	-20.21	49.52	0.00	0.00	0.00	0.00
4,600.00	5.00	202.22	4,597.50	-57.52	-23.50	57.59	0.00	0.00	0.00	0.00
4,700.00	5.00	202.22	4,697.12	-65.58	-26.79	65.66	0.00	0.00	0.00	0.00



Total Directional Services Planning Report



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Company:	Franklin Mountain Energy	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 601H	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)
4,800.00	5.00	202.22	4,796.74	-73.64	-30.09	73.73	0.00	0.00	0.00
4,900.00	5.00	202.22	4,896.36	-81.70	-33.38	81.80	0.00	0.00	0.00
5,000.00	5.00	202.22	4,995.98	-89.76	-36.68	89.87	0.00	0.00	0.00
5,100.00	5.00	202.22	5,095.60	-97.82	-39.97	97.94	0.00	0.00	0.00
5,200.00	5.00	202.22	5,195.22	-105.88	-43.26	106.02	0.00	0.00	0.00
5,300.00	5.00	202.22	5,294.84	-113.94	-46.56	114.09	0.00	0.00	0.00
5,400.00	5.00	202.22	5,394.46	-122.00	-49.85	122.16	0.00	0.00	0.00
5,500.00	5.00	202.22	5,494.08	-130.07	-53.14	130.23	0.00	0.00	0.00
5,600.00	5.00	202.22	5,593.70	-138.13	-56.44	138.30	0.00	0.00	0.00
5,700.00	5.00	202.22	5,693.32	-146.19	-59.73	146.37	0.00	0.00	0.00
5,800.00	5.00	202.22	5,792.94	-154.25	-63.02	154.44	0.00	0.00	0.00
5,900.00	5.00	202.22	5,892.56	-162.31	-66.32	162.51	0.00	0.00	0.00
6,000.00	5.00	202.22	5,992.18	-170.37	-69.61	170.58	0.00	0.00	0.00
6,100.00	5.00	202.22	6,091.80	-178.43	-72.90	178.65	0.00	0.00	0.00
6,200.00	5.00	202.22	6,191.42	-186.49	-76.20	186.72	0.00	0.00	0.00
6,300.00	5.00	202.22	6,291.04	-194.55	-79.49	194.79	0.00	0.00	0.00
6,400.00	5.00	202.22	6,390.66	-202.61	-82.78	202.86	0.00	0.00	0.00
6,500.00	5.00	202.22	6,490.28	-210.67	-86.08	210.93	0.00	0.00	0.00
6,600.00	5.00	202.22	6,589.90	-218.73	-89.37	219.00	0.00	0.00	0.00
6,700.00	5.00	202.22	6,689.52	-226.79	-92.66	227.07	0.00	0.00	0.00
6,800.00	5.00	202.22	6,789.14	-234.85	-95.96	235.14	0.00	0.00	0.00
6,900.00	5.00	202.22	6,888.77	-242.91	-99.25	243.22	0.00	0.00	0.00
6,999.58	5.00	202.22	6,987.97	-250.94	-102.53	251.25	0.00	0.00	0.00
S36/1 Crossing - 6999.58' MD									
7,000.00	5.00	202.22	6,988.39	-250.97	-102.54	251.29	0.00	0.00	0.00
7,100.00	5.00	202.22	7,088.01	-259.03	-105.84	259.36	0.00	0.00	0.00
7,200.00	5.00	202.22	7,187.63	-267.10	-109.13	267.43	0.00	0.00	0.00
7,300.00	5.00	202.22	7,287.25	-275.16	-112.42	275.50	0.00	0.00	0.00
7,400.00	5.00	202.22	7,386.87	-283.22	-115.72	283.57	0.00	0.00	0.00
7,455.75	5.00	202.22	7,442.40	-287.71	-117.55	288.07	0.00	0.00	0.00
Start Drop -1.50									
7,500.00	4.33	202.22	7,486.51	-291.04	-118.91	291.40	1.50	-1.50	0.00
7,600.00	2.83	202.22	7,586.31	-296.82	-121.28	297.19	1.50	-1.50	0.00
7,700.00	1.33	202.22	7,686.24	-300.19	-122.65	300.56	1.50	-1.50	0.00
7,788.77	0.00	0.00	7,775.00	-301.14	-123.04	301.51	1.50	-1.50	0.00
Start 3615.00 hold at 7788.77 MD									
7,800.00	0.00	0.00	7,786.23	-301.14	-123.04	301.51	0.00	0.00	0.00
7,900.00	0.00	0.00	7,886.23	-301.14	-123.04	301.51	0.00	0.00	0.00
8,000.00	0.00	0.00	7,986.23	-301.14	-123.04	301.51	0.00	0.00	0.00
8,100.00	0.00	0.00	8,086.23	-301.14	-123.04	301.51	0.00	0.00	0.00
8,200.00	0.00	0.00	8,186.23	-301.14	-123.04	301.51	0.00	0.00	0.00
8,300.00	0.00	0.00	8,286.23	-301.14	-123.04	301.51	0.00	0.00	0.00
8,400.00	0.00	0.00	8,386.23	-301.14	-123.04	301.51	0.00	0.00	0.00
8,500.00	0.00	0.00	8,486.23	-301.14	-123.04	301.51	0.00	0.00	0.00
8,600.00	0.00	0.00	8,586.23	-301.14	-123.04	301.51	0.00	0.00	0.00
8,700.00	0.00	0.00	8,686.23	-301.14	-123.04	301.51	0.00	0.00	0.00
8,800.00	0.00	0.00	8,786.23	-301.14	-123.04	301.51	0.00	0.00	0.00
8,900.00	0.00	0.00	8,886.23	-301.14	-123.04	301.51	0.00	0.00	0.00
9,000.00	0.00	0.00	8,986.23	-301.14	-123.04	301.51	0.00	0.00	0.00
9,100.00	0.00	0.00	9,086.23	-301.14	-123.04	301.51	0.00	0.00	0.00
9,200.00	0.00	0.00	9,186.23	-301.14	-123.04	301.51	0.00	0.00	0.00
9,300.00	0.00	0.00	9,286.23	-301.14	-123.04	301.51	0.00	0.00	0.00
9,400.00	0.00	0.00	9,386.23	-301.14	-123.04	301.51	0.00	0.00	0.00



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Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 601H	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)
9,500.00	0.00	0.00	9,486.23	-301.14	-123.04	301.51	0.00	0.00	0.00
9,600.00	0.00	0.00	9,586.23	-301.14	-123.04	301.51	0.00	0.00	0.00
9,700.00	0.00	0.00	9,686.23	-301.14	-123.04	301.51	0.00	0.00	0.00
9,800.00	0.00	0.00	9,786.23	-301.14	-123.04	301.51	0.00	0.00	0.00
9,900.00	0.00	0.00	9,886.23	-301.14	-123.04	301.51	0.00	0.00	0.00
10,000.00	0.00	0.00	9,986.23	-301.14	-123.04	301.51	0.00	0.00	0.00
10,100.00	0.00	0.00	10,086.23	-301.14	-123.04	301.51	0.00	0.00	0.00
10,200.00	0.00	0.00	10,186.23	-301.14	-123.04	301.51	0.00	0.00	0.00
10,300.00	0.00	0.00	10,286.23	-301.14	-123.04	301.51	0.00	0.00	0.00
10,400.00	0.00	0.00	10,386.23	-301.14	-123.04	301.51	0.00	0.00	0.00
10,500.00	0.00	0.00	10,486.23	-301.14	-123.04	301.51	0.00	0.00	0.00
10,600.00	0.00	0.00	10,586.23	-301.14	-123.04	301.51	0.00	0.00	0.00
10,700.00	0.00	0.00	10,686.23	-301.14	-123.04	301.51	0.00	0.00	0.00
10,800.00	0.00	0.00	10,786.23	-301.14	-123.04	301.51	0.00	0.00	0.00
10,900.00	0.00	0.00	10,886.23	-301.14	-123.04	301.51	0.00	0.00	0.00
11,000.00	0.00	0.00	10,986.23	-301.14	-123.04	301.51	0.00	0.00	0.00
11,100.00	0.00	0.00	11,086.23	-301.14	-123.04	301.51	0.00	0.00	0.00
11,200.00	0.00	0.00	11,186.23	-301.14	-123.04	301.51	0.00	0.00	0.00
11,300.00	0.00	0.00	11,286.23	-301.14	-123.04	301.51	0.00	0.00	0.00
11,403.77	0.00	0.00	11,390.00	-301.14	-123.04	301.51	0.00	0.00	0.00
Start DLS 10.00 TFO 179.50									
11,450.00	4.62	179.50	11,436.18	-303.00	-123.02	303.38	10.00	10.00	0.00
11,500.00	9.62	179.50	11,485.78	-309.20	-122.97	309.58	10.00	10.00	0.00
11,550.00	14.62	179.50	11,534.65	-319.70	-122.88	320.07	10.00	10.00	0.00
11,600.00	19.62	179.50	11,582.42	-334.42	-122.75	334.79	10.00	10.00	0.00
11,650.00	24.62	179.50	11,628.72	-353.24	-122.59	353.61	10.00	10.00	0.00
11,700.00	29.62	179.50	11,673.21	-376.03	-122.39	376.40	10.00	10.00	0.00
11,750.00	34.62	179.50	11,715.54	-402.60	-122.15	402.97	10.00	10.00	0.00
11,800.00	39.62	179.50	11,755.40	-432.77	-121.89	433.14	10.00	10.00	0.00
11,850.00	44.62	179.50	11,792.47	-466.29	-121.60	466.66	10.00	10.00	0.00
11,900.00	49.62	179.50	11,826.48	-502.92	-121.28	503.29	10.00	10.00	0.00
11,950.00	54.62	179.50	11,857.17	-542.37	-120.94	542.74	10.00	10.00	0.00
12,000.00	59.62	179.50	11,884.30	-584.35	-120.57	584.72	10.00	10.00	0.00
12,050.00	64.62	179.50	11,907.67	-628.53	-120.18	628.90	10.00	10.00	0.00
12,100.00	69.62	179.50	11,927.10	-674.58	-119.78	674.95	10.00	10.00	0.00
12,150.00	74.62	179.50	11,942.45	-722.15	-119.37	722.51	10.00	10.00	0.00
12,200.00	79.62	179.50	11,953.59	-770.88	-118.94	771.24	10.00	10.00	0.00
12,250.00	84.62	179.50	11,960.44	-820.39	-118.51	820.75	10.00	10.00	0.00
12,297.57	89.38	179.50	11,962.92	-867.88	-118.10	868.24	10.00	10.00	0.00
LP (Judge Baylor Fed Com 601H)									
12,297.58	89.38	179.50	11,962.92	-867.89	-118.10	868.25	10.00	10.00	0.00
Start 9802.73 hold at 12297.58 MD									
12,300.00	89.38	179.50	11,962.95	-870.31	-118.07	870.66	0.00	0.00	0.00
12,400.00	89.38	179.50	11,964.03	-970.30	-117.20	970.65	0.00	0.00	0.00
12,500.00	89.38	179.50	11,965.11	-1,070.29	-116.33	1,070.64	0.00	0.00	0.00
12,600.00	89.38	179.50	11,966.19	-1,170.28	-115.46	1,170.63	0.00	0.00	0.00
12,700.00	89.38	179.50	11,967.27	-1,270.27	-114.58	1,270.61	0.00	0.00	0.00
12,800.00	89.38	179.50	11,968.35	-1,370.26	-113.71	1,370.60	0.00	0.00	0.00
12,900.00	89.38	179.50	11,969.44	-1,470.25	-112.84	1,470.59	0.00	0.00	0.00
13,000.00	89.38	179.50	11,970.52	-1,570.24	-111.97	1,570.58	0.00	0.00	0.00
13,100.00	89.38	179.50	11,971.60	-1,670.23	-111.10	1,670.56	0.00	0.00	0.00
13,200.00	89.38	179.50	11,972.68	-1,770.22	-110.22	1,770.55	0.00	0.00	0.00
13,300.00	89.38	179.50	11,973.76	-1,870.21	-109.35	1,870.54	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 601H
Company:	Franklin Mountain Energy	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 601H	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)
13,400.00	89.38	179.50	11,974.84	-1,970.20	-108.48	1,970.52	0.00	0.00	0.00
13,500.00	89.38	179.50	11,975.92	-2,070.19	-107.61	2,070.51	0.00	0.00	0.00
13,600.00	89.38	179.50	11,977.00	-2,170.18	-106.73	2,170.50	0.00	0.00	0.00
13,700.00	89.38	179.50	11,978.08	-2,270.17	-105.86	2,270.49	0.00	0.00	0.00
13,800.00	89.38	179.50	11,979.16	-2,370.16	-104.99	2,370.47	0.00	0.00	0.00
13,900.00	89.38	179.50	11,980.24	-2,470.15	-104.12	2,470.46	0.00	0.00	0.00
14,000.00	89.38	179.50	11,981.32	-2,570.14	-103.24	2,570.45	0.00	0.00	0.00
14,100.00	89.38	179.50	11,982.40	-2,670.13	-102.37	2,670.44	0.00	0.00	0.00
14,200.00	89.38	179.50	11,983.49	-2,770.13	-101.50	2,770.42	0.00	0.00	0.00
14,300.00	89.38	179.50	11,984.57	-2,870.12	-100.63	2,870.41	0.00	0.00	0.00
14,400.00	89.38	179.50	11,985.65	-2,970.11	-99.75	2,970.40	0.00	0.00	0.00
14,500.00	89.38	179.50	11,986.73	-3,070.10	-98.88	3,070.38	0.00	0.00	0.00
14,600.00	89.38	179.50	11,987.81	-3,170.09	-98.01	3,170.37	0.00	0.00	0.00
14,700.00	89.38	179.50	11,988.89	-3,270.08	-97.14	3,270.36	0.00	0.00	0.00
14,800.00	89.38	179.50	11,989.97	-3,370.07	-96.27	3,370.35	0.00	0.00	0.00
14,900.00	89.38	179.50	11,991.05	-3,470.06	-95.39	3,470.33	0.00	0.00	0.00
15,000.00	89.38	179.50	11,992.13	-3,570.05	-94.52	3,570.32	0.00	0.00	0.00
15,100.00	89.38	179.50	11,993.21	-3,670.04	-93.65	3,670.31	0.00	0.00	0.00
15,200.00	89.38	179.50	11,994.29	-3,770.03	-92.78	3,770.29	0.00	0.00	0.00
15,300.00	89.38	179.50	11,995.37	-3,870.02	-91.90	3,870.28	0.00	0.00	0.00
15,400.00	89.38	179.50	11,996.45	-3,970.01	-91.03	3,970.27	0.00	0.00	0.00
15,500.00	89.38	179.50	11,997.54	-4,070.00	-90.16	4,070.26	0.00	0.00	0.00
15,600.00	89.38	179.50	11,998.62	-4,169.99	-89.29	4,170.24	0.00	0.00	0.00
15,700.00	89.38	179.50	11,999.70	-4,269.98	-88.41	4,270.23	0.00	0.00	0.00
15,800.00	89.38	179.50	12,000.78	-4,369.97	-87.54	4,370.22	0.00	0.00	0.00
15,900.00	89.38	179.50	12,001.86	-4,469.96	-86.67	4,470.21	0.00	0.00	0.00
16,000.00	89.38	179.50	12,002.94	-4,569.95	-85.80	4,570.19	0.00	0.00	0.00
16,100.00	89.38	179.50	12,004.02	-4,669.94	-84.92	4,670.18	0.00	0.00	0.00
16,200.00	89.38	179.50	12,005.10	-4,769.93	-84.05	4,770.17	0.00	0.00	0.00
16,300.00	89.38	179.50	12,006.18	-4,869.92	-83.18	4,870.15	0.00	0.00	0.00
16,400.00	89.38	179.50	12,007.26	-4,969.91	-82.31	4,970.14	0.00	0.00	0.00
16,500.00	89.38	179.50	12,008.34	-5,069.90	-81.44	5,070.13	0.00	0.00	0.00
16,600.00	89.38	179.50	12,009.42	-5,169.89	-80.56	5,170.12	0.00	0.00	0.00
16,700.00	89.38	179.50	12,010.50	-5,269.88	-79.69	5,270.10	0.00	0.00	0.00
16,800.00	89.38	179.50	12,011.59	-5,369.87	-78.82	5,370.09	0.00	0.00	0.00
16,900.00	89.38	179.50	12,012.67	-5,469.86	-77.95	5,470.08	0.00	0.00	0.00
17,000.00	89.38	179.50	12,013.75	-5,569.86	-77.07	5,570.06	0.00	0.00	0.00
17,100.00	89.38	179.50	12,014.83	-5,669.85	-76.20	5,670.05	0.00	0.00	0.00
17,200.00	89.38	179.50	12,015.91	-5,769.84	-75.33	5,770.04	0.00	0.00	0.00
17,300.00	89.38	179.50	12,016.99	-5,869.83	-74.46	5,870.03	0.00	0.00	0.00
17,400.00	89.38	179.50	12,018.07	-5,969.82	-73.58	5,970.01	0.00	0.00	0.00
17,500.00	89.38	179.50	12,019.15	-6,069.81	-72.71	6,070.00	0.00	0.00	0.00
17,600.00	89.38	179.50	12,020.23	-6,169.80	-71.84	6,169.99	0.00	0.00	0.00
17,700.00	89.38	179.50	12,021.31	-6,269.79	-70.97	6,269.98	0.00	0.00	0.00
17,800.00	89.38	179.50	12,022.39	-6,369.78	-70.09	6,369.96	0.00	0.00	0.00
17,900.00	89.38	179.50	12,023.47	-6,469.77	-69.22	6,469.95	0.00	0.00	0.00
18,000.00	89.38	179.50	12,024.56	-6,569.76	-68.35	6,569.94	0.00	0.00	0.00
18,100.00	89.38	179.50	12,025.64	-6,669.75	-67.48	6,669.92	0.00	0.00	0.00
18,200.00	89.38	179.50	12,026.72	-6,769.74	-66.60	6,769.91	0.00	0.00	0.00
18,300.00	89.38	179.50	12,027.80	-6,869.73	-65.73	6,869.90	0.00	0.00	0.00
18,400.00	89.38	179.50	12,028.88	-6,969.72	-64.86	6,969.89	0.00	0.00	0.00
18,500.00	89.38	179.50	12,029.96	-7,069.71	-63.99	7,069.87	0.00	0.00	0.00
18,600.00	89.38	179.50	12,031.04	-7,169.70	-63.12	7,169.86	0.00	0.00	0.00
18,700.00	89.38	179.50	12,032.12	-7,269.69	-62.24	7,269.85	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 601H
Company:	Franklin Mountain Energy	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 601H	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)
18,800.00	89.38	179.50	12,033.20	-7,369.68	-61.37	7,369.83	0.00	0.00	0.00
18,900.00	89.38	179.50	12,034.28	-7,469.67	-60.50	7,469.82	0.00	0.00	0.00
19,000.00	89.38	179.50	12,035.36	-7,569.66	-59.63	7,569.81	0.00	0.00	0.00
19,100.00	89.38	179.50	12,036.44	-7,669.65	-58.75	7,669.80	0.00	0.00	0.00
19,200.00	89.38	179.50	12,037.52	-7,769.64	-57.88	7,769.78	0.00	0.00	0.00
19,300.00	89.38	179.50	12,038.61	-7,869.63	-57.01	7,869.77	0.00	0.00	0.00
19,400.00	89.38	179.50	12,039.69	-7,969.62	-56.14	7,969.76	0.00	0.00	0.00
19,500.00	89.38	179.50	12,040.77	-8,069.61	-55.26	8,069.75	0.00	0.00	0.00
19,600.00	89.38	179.50	12,041.85	-8,169.60	-54.39	8,169.73	0.00	0.00	0.00
19,700.00	89.38	179.50	12,042.93	-8,269.59	-53.52	8,269.72	0.00	0.00	0.00
19,800.00	89.38	179.50	12,044.01	-8,369.59	-52.65	8,369.71	0.00	0.00	0.00
19,900.00	89.38	179.50	12,045.09	-8,469.58	-51.77	8,469.69	0.00	0.00	0.00
20,000.00	89.38	179.50	12,046.17	-8,569.57	-50.90	8,569.68	0.00	0.00	0.00
20,100.00	89.38	179.50	12,047.25	-8,669.56	-50.03	8,669.67	0.00	0.00	0.00
20,200.00	89.38	179.50	12,048.33	-8,769.55	-49.16	8,769.66	0.00	0.00	0.00
20,300.00	89.38	179.50	12,049.41	-8,869.54	-48.29	8,869.64	0.00	0.00	0.00
20,400.00	89.38	179.50	12,050.49	-8,969.53	-47.41	8,969.63	0.00	0.00	0.00
20,500.00	89.38	179.50	12,051.57	-9,069.52	-46.54	9,069.62	0.00	0.00	0.00
20,600.00	89.38	179.50	12,052.66	-9,169.51	-45.67	9,169.60	0.00	0.00	0.00
20,700.00	89.38	179.50	12,053.74	-9,269.50	-44.80	9,269.59	0.00	0.00	0.00
20,800.00	89.38	179.50	12,054.82	-9,369.49	-43.92	9,369.58	0.00	0.00	0.00
20,900.00	89.38	179.50	12,055.90	-9,469.48	-43.05	9,469.57	0.00	0.00	0.00
21,000.00	89.38	179.50	12,056.98	-9,569.47	-42.18	9,569.55	0.00	0.00	0.00
21,100.00	89.38	179.50	12,058.06	-9,669.46	-41.31	9,669.54	0.00	0.00	0.00
21,200.00	89.38	179.50	12,059.14	-9,769.45	-40.43	9,769.53	0.00	0.00	0.00
21,300.00	89.38	179.50	12,060.22	-9,869.44	-39.56	9,869.52	0.00	0.00	0.00
21,400.00	89.38	179.50	12,061.30	-9,969.43	-38.69	9,969.50	0.00	0.00	0.00
21,500.00	89.38	179.50	12,062.38	-10,069.42	-37.82	10,069.49	0.00	0.00	0.00
21,600.00	89.38	179.50	12,063.46	-10,169.41	-36.94	10,169.48	0.00	0.00	0.00
21,700.00	89.38	179.50	12,064.54	-10,269.40	-36.07	10,269.46	0.00	0.00	0.00
21,800.00	89.38	179.50	12,065.62	-10,369.39	-35.20	10,369.45	0.00	0.00	0.00
21,900.00	89.38	179.50	12,066.71	-10,469.38	-34.33	10,469.44	0.00	0.00	0.00
22,000.00	89.38	179.50	12,067.79	-10,569.37	-33.46	10,569.43	0.00	0.00	0.00
22,100.31	89.38	179.50	12,068.87	-10,669.67	-32.58	10,669.72	0.00	0.00	0.00
TD at 22100.31 - PBHL (Judge Baylor Fed Com 601H)									

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 601H) - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	394,386.23	852,648.61	32.080260	-103.328212
LP (Judge Baylor Fed Com 601H) - plan misses target center by 0.01usft at 12297.57usft MD (11962.92 TVD, -867.88 N, -118.10 E) - Point	0.00	0.00	11,962.92	-867.88	-118.10	393,518.35	852,530.51	32.077878	-103.328619
PBHL (Judge Baylor Fed Com 601H) - plan hits target center - Point	0.00	0.01	12,068.87	-10,669.67	-32.58	383,716.56	852,616.03	32.050935	-103.328637



Total Directional Services
 Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Project:	Lea County, NM (NAD83)	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site:	Judge Baylor Fed Com	North Reference:	Grid
Well:	Judge Baylor Fed Com 601H	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)	
3,720.00	3,720.00	0.00	0.00	Start Build 1.50
4,053.02	4,052.60	-13.43	-5.49	Start 3402.72 hold at 4053.02 MD
6,999.58	6,987.97	-250.94	-102.53	S36/1 Crossing - 6999.58' MD
7,455.75	7,442.40	-287.71	-117.55	Start Drop -1.50
7,788.77	7,775.00	-301.14	-123.04	Start 3615.00 hold at 7788.77 MD
11,403.77	11,390.00	-301.14	-123.04	Start DLS 10.00 TFO 179.50
12,297.58	11,962.92	-867.89	-118.10	Start 9802.73 hold at 12297.58 MD
22,100.31	12,068.87	-10,669.67	-32.58	TD at 22100.31



Franklin Mountain Energy

Lea County, NM (NAD83)
Judge Baylor Fed Com
Judge Baylor Fed Com 601H

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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	Error Model:	ISCWSA
Depth Range:	0.00 to 28,197.00usft	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum ellipse separation of 1,000.00 usft	Error Surface:	Combined Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	5/24/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	22,100.21	Plan #5 (OH)	OWSG (Rev2) MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
			Between Centres (usft)	Between Ellipses (usft)		
Bus Driver/Kaston Fed Com						
Bus Driver Fed Com 602H - OH - Plan #5	7,434.56	7,500.00	1,809.13	1,771.78	48.444	CC
Bus Driver Fed Com 602H - OH - Plan #5	22,101.01	22,030.25	1,811.29	1,554.91	7.065	ES, SF
Bus Driver Fed Com 702H - OH - Plan #5	11,403.77	11,441.36	1,350.42	1,296.43	25.014	CC
Bus Driver Fed Com 702H - OH - Plan #5	22,101.01	22,230.58	1,356.04	1,101.05	5.318	ES, SF
Kaston Fed Com 603H - OH - Plan #6	2,613.96	2,610.46	1,992.40	1,979.47	154.155	CC
Kaston Fed Com 603H - OH - Plan #6	2,700.00	2,694.11	1,992.40	1,979.05	149.195	ES
Kaston Fed Com 603H - OH - Plan #6	22,101.01	22,050.92	2,916.18	2,659.96	11.382	SF
Kaston Fed Com 703H - OH - Plan #5	3,004.65	3,001.15	1,957.41	1,942.51	131.324	CC
Kaston Fed Com 703H - OH - Plan #5	3,100.00	3,090.68	1,957.45	1,942.08	127.344	ES
Kaston Fed Com 703H - OH - Plan #5	22,101.01	22,320.15	2,349.49	2,094.15	9.202	SF
Judge Baylor Fed Com						
Judge Baylor Fed Com 701H - OH - Plan #5	2,700.00	2,699.70	34.99	21.61	2.615	CC, ES
Judge Baylor Fed Com 701H - OH - Plan #5	22,101.01	22,388.73	426.86	244.63	2.342	SF
LHS Wildcat Fed Com						
LHS Wildcat Fed Com 604H - OH - Plan #7	3,991.57	4,075.34	4,209.69	4,192.13	239.677	CC
LHS Wildcat Fed Com 604H - OH - Plan #7	22,101.01	21,866.85	4,256.05	4,000.83	16.676	ES, SF
LHS Wildcat Fed Com 705H - OH - Plan #5	2,700.00	2,670.90	4,309.86	4,296.56	324.142	CC
LHS Wildcat Fed Com 705H - OH - Plan #5	2,800.00	2,745.78	4,310.06	4,296.33	313.818	ES
LHS Wildcat Fed Com 705H - OH - Plan #5	22,101.01	22,139.13	4,591.18	4,335.58	17.962	SF

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference: Bus Driver/Kaston Fed Com - Bus Driver Fed Com 602H - OH - Plan #5														
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	0.00	0.00	0.00	87.62	79.85	1,920.78	1,922.44					
100.00	100.00	96.50	96.50	0.14	0.12	87.62	79.85	1,920.78	1,922.44	1,922.25	0.19	N/A		
200.00	200.00	196.50	196.50	0.50	0.47	87.62	79.85	1,920.78	1,922.44	1,921.75	0.69	2,797.398		
300.00	300.00	296.50	296.50	0.86	0.83	87.62	79.85	1,920.78	1,922.44	1,921.25	1.19	1,610.013		
400.00	400.00	396.50	396.50	1.22	1.19	87.62	79.85	1,920.78	1,922.44	1,920.74	1.70	1,130.211		
500.00	500.00	496.50	496.50	1.58	1.55	87.62	79.85	1,920.78	1,922.44	1,920.23	2.21	870.716		
600.00	600.00	596.50	596.50	1.93	1.91	87.62	79.85	1,920.78	1,922.44	1,919.72	2.71	708.127		
700.00	700.00	696.50	696.50	2.29	2.26	87.62	79.85	1,920.78	1,922.44	1,919.22	3.22	596.704		

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



Total Directional Services Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
800.00	800.00	796.50	796.50	2.65	2.62	87.62	79.85	1,920.78	1,922.44	1,918.71	3.73	515.577		
900.00	900.00	896.50	896.50	3.01	2.98	87.62	79.85	1,920.78	1,922.44	1,918.20	4.24	453.870		
1,000.00	1,000.00	996.50	996.50	3.37	3.34	87.62	79.85	1,920.78	1,922.44	1,917.70	4.74	405.355		
1,100.00	1,100.00	1,096.50	1,096.50	3.73	3.70	87.62	79.85	1,920.78	1,922.44	1,917.19	5.25	366.209		
1,200.00	1,200.00	1,196.50	1,196.50	4.08	4.06	87.62	79.85	1,920.78	1,922.44	1,916.68	5.76	333.959		
1,300.00	1,300.00	1,296.50	1,296.50	4.44	4.41	87.62	79.85	1,920.78	1,922.44	1,916.18	6.26	306.929		
1,400.00	1,400.00	1,396.50	1,396.50	4.80	4.77	87.62	79.85	1,920.78	1,922.44	1,915.67	6.77	283.947		
1,500.00	1,500.00	1,496.50	1,496.50	5.16	5.13	87.62	79.85	1,920.78	1,922.44	1,915.16	7.28	264.167		
1,600.00	1,600.00	1,596.50	1,596.50	5.52	5.49	87.62	79.85	1,920.78	1,922.44	1,914.65	7.78	246.963		
1,700.00	1,700.00	1,696.50	1,696.50	5.88	5.85	87.62	79.85	1,920.78	1,922.44	1,914.15	8.29	231.863		
1,800.00	1,800.00	1,796.50	1,796.50	6.24	6.21	87.62	79.85	1,920.78	1,922.44	1,913.64	8.80	218.503		
1,900.00	1,900.00	1,896.50	1,896.50	6.59	6.57	87.62	79.85	1,920.78	1,922.44	1,913.13	9.31	206.599		
2,000.00	2,000.00	1,996.50	1,996.50	6.95	6.92	87.62	79.85	1,920.78	1,922.44	1,912.63	9.81	195.925		
2,100.00	2,100.00	2,096.50	2,096.50	7.31	7.28	87.62	79.85	1,920.78	1,922.44	1,912.12	10.32	186.299		
2,200.00	2,200.00	2,196.50	2,196.50	7.67	7.64	87.62	79.85	1,920.78	1,922.44	1,911.61	10.83	177.575		
2,300.00	2,300.00	2,296.50	2,296.50	8.03	8.00	87.62	79.85	1,920.78	1,922.44	1,911.11	11.33	169.632		
2,400.00	2,400.00	2,396.50	2,396.50	8.39	8.36	87.62	79.85	1,920.78	1,922.44	1,910.60	11.84	162.369		
2,500.00	2,500.00	2,496.50	2,496.50	8.74	8.72	87.62	79.85	1,920.78	1,922.44	1,910.09	12.35	155.702		
2,600.00	2,600.00	2,596.50	2,596.50	9.10	9.07	87.62	79.85	1,920.78	1,922.44	1,909.59	12.85	149.561		
2,700.00	2,700.00	2,696.50	2,696.50	9.46	9.43	87.62	79.85	1,920.78	1,922.44	1,909.08	13.36	143.886		
2,800.00	2,800.00	2,796.50	2,796.50	9.82	9.79	87.62	79.85	1,920.78	1,922.44	1,908.57	13.87	138.626		
2,900.00	2,900.00	2,896.50	2,896.50	10.18	10.15	87.62	79.85	1,920.78	1,922.44	1,908.06	14.37	133.737		
3,000.00	3,000.00	2,996.50	2,996.50	10.54	10.51	87.62	79.85	1,920.78	1,922.44	1,907.56	14.88	129.182		
3,100.00	3,100.00	3,096.50	3,096.50	10.90	10.87	87.62	79.85	1,920.78	1,922.44	1,907.05	15.39	124.926		
3,200.00	3,200.00	3,196.50	3,196.50	11.25	11.23	87.62	79.85	1,920.78	1,922.44	1,906.54	15.90	120.942		
3,300.00	3,300.00	3,335.68	3,335.65	11.61	11.70	87.68	77.82	1,919.48	1,921.46	1,904.98	16.48	116.603		
3,400.00	3,400.00	3,475.91	3,475.67	11.97	12.16	87.86	71.47	1,915.40	1,918.37	1,901.32	17.05	112.536		
3,500.00	3,500.00	3,615.40	3,614.59	12.33	12.62	88.17	60.85	1,908.60	1,913.22	1,895.61	17.61	108.647		
3,600.00	3,600.00	3,710.49	3,709.16	12.69	12.93	88.42	52.51	1,903.25	1,907.30	1,889.21	18.09	105.444		
3,700.00	3,700.00	3,809.94	3,808.06	13.05	13.27	88.68	43.76	1,897.64	1,901.42	1,882.84	18.58	102.350		
3,720.00	3,720.00	3,829.83	3,827.84	13.12	13.34	88.73	42.01	1,896.51	1,900.24	1,881.57	18.68	101.749		
3,800.00	3,799.99	3,909.48	3,907.05	13.39	13.61	-113.37	35.00	1,892.02	1,895.90	1,876.84	19.06	99.476		
3,900.00	3,899.93	4,009.22	4,006.24	13.72	13.95	-113.26	26.22	1,886.39	1,891.42	1,871.90	19.53	96.857		
4,000.00	3,999.75	4,109.11	4,105.58	14.04	14.30	-113.21	17.43	1,880.75	1,887.99	1,867.99	20.00	94.399		
4,053.02	4,052.60	4,162.10	4,158.29	14.21	14.48	-113.21	12.77	1,877.76	1,886.59	1,866.34	20.25	93.157		
4,100.00	4,099.40	4,209.07	4,205.00	14.37	14.65	-113.20	8.63	1,875.11	1,885.48	1,865.00	20.48	92.085		
4,200.00	4,199.02	4,309.04	4,304.42	14.70	15.00	-113.18	-0.17	1,869.47	1,883.11	1,862.16	20.95	89.869		
4,300.00	4,298.64	4,409.01	4,403.84	15.03	15.35	-113.16	-8.96	1,863.82	1,880.75	1,859.31	21.44	87.738		
4,400.00	4,398.26	4,508.98	4,503.26	15.36	15.71	-113.13	-17.76	1,858.18	1,878.38	1,856.46	21.92	85.689		
4,500.00	4,497.88	4,608.95	4,602.69	15.70	16.07	-113.11	-26.56	1,852.54	1,876.02	1,853.61	22.41	83.718		
4,600.00	4,597.50	4,708.91	4,702.11	16.04	16.43	-113.09	-35.36	1,846.90	1,873.65	1,850.75	22.90	81.822		
4,700.00	4,697.12	4,808.88	4,801.53	16.38	16.79	-113.07	-44.16	1,841.26	1,871.29	1,847.90	23.39	79.997		
4,800.00	4,796.74	4,908.85	4,900.95	16.73	17.15	-113.05	-52.95	1,835.61	1,868.92	1,845.04	23.89	78.239		
4,900.00	4,896.36	5,008.82	5,000.37	17.07	17.52	-113.02	-61.75	1,829.97	1,866.56	1,842.17	24.38	76.546		
5,000.00	4,995.98	5,108.79	5,099.79	17.42	17.88	-113.00	-70.55	1,824.33	1,864.20	1,839.31	24.88	74.915		
5,100.00	5,095.60	5,208.76	5,199.22	17.77	18.25	-112.98	-79.35	1,818.69	1,861.83	1,836.45	25.39	73.342		
5,200.00	5,195.22	5,308.73	5,298.64	18.12	18.62	-112.96	-88.15	1,813.05	1,859.47	1,833.58	25.89	71.825		
5,300.00	5,294.84	5,408.70	5,398.06	18.47	18.99	-112.94	-96.94	1,807.40	1,857.11	1,830.71	26.39	70.362		
5,400.00	5,394.46	5,508.67	5,497.48	18.82	19.36	-112.91	-105.74	1,801.76	1,854.74	1,827.84	26.90	68.949		
5,500.00	5,494.08	5,608.64	5,596.90	19.18	19.73	-112.89	-114.54	1,796.12	1,852.38	1,824.97	27.41	67.584		
5,600.00	5,593.70	5,708.61	5,696.32	19.53	20.11	-112.87	-123.34	1,790.48	1,850.02	1,822.10	27.92	66.266		
5,700.00	5,693.32	5,808.58	5,795.74	19.89	20.48	-112.85	-132.14	1,784.83	1,847.66	1,819.23	28.43	64.992		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
5,800.00	5,792.94	5,908.55	5,895.17	20.25	20.85	-112.82	-140.94	1,779.19	1,845.29	1,816.35	28.94	63.760		
5,900.00	5,892.56	6,008.52	5,994.59	20.61	21.23	-112.80	-149.73	1,773.55	1,842.93	1,813.48	29.45	62.568		
6,000.00	5,992.18	6,108.49	6,094.01	20.97	21.61	-112.78	-158.53	1,767.91	1,840.57	1,810.60	29.97	61.415		
6,100.00	6,091.80	6,208.46	6,193.43	21.33	21.98	-112.76	-167.33	1,762.27	1,838.21	1,807.73	30.49	60.298		
6,200.00	6,191.42	6,308.43	6,292.85	21.69	22.36	-112.73	-176.13	1,756.62	1,835.85	1,804.85	31.00	59.217		
6,300.00	6,291.04	6,408.40	6,392.27	22.05	22.74	-112.71	-184.93	1,750.98	1,833.49	1,801.97	31.52	58.169		
6,400.00	6,390.66	6,508.37	6,491.70	22.42	23.12	-112.69	-193.72	1,745.34	1,831.13	1,799.09	32.04	57.153		
6,500.00	6,490.28	6,608.34	6,591.12	22.78	23.50	-112.67	-202.52	1,739.70	1,828.77	1,796.21	32.56	56.168		
6,600.00	6,589.90	6,708.30	6,690.54	23.15	23.88	-112.64	-211.32	1,734.06	1,826.41	1,793.33	33.08	55.213		
6,700.00	6,689.52	6,808.27	6,789.96	23.51	24.26	-112.62	-220.12	1,728.41	1,824.05	1,790.45	33.60	54.286		
6,800.00	6,789.14	6,908.24	6,889.38	23.88	24.64	-112.60	-228.92	1,722.77	1,821.69	1,787.57	34.12	53.386		
6,900.00	6,888.77	7,008.21	6,988.80	24.24	25.02	-112.57	-237.72	1,717.13	1,819.33	1,784.69	34.65	52.512		
7,000.00	6,988.39	7,108.18	7,088.23	24.61	25.40	-112.55	-246.51	1,711.49	1,816.98	1,781.81	35.17	51.663		
7,100.00	7,088.01	7,208.15	7,187.65	24.98	25.79	-112.53	-255.31	1,705.84	1,814.62	1,778.92	35.69	50.837		
7,200.00	7,187.63	7,308.12	7,287.07	25.35	26.17	-112.50	-264.11	1,700.20	1,812.26	1,776.04	36.22	50.035		
7,300.00	7,287.25	7,393.51	7,372.03	25.72	26.50	-112.50	-271.27	1,695.61	1,810.19	1,773.48	36.71	49.308		
7,400.00	7,386.87	7,473.02	7,451.29	26.09	26.79	-112.53	-276.59	1,692.20	1,809.20	1,772.02	37.18	48.656		
7,434.56	7,421.30	7,500.00	7,478.21	26.22	26.89	-112.55	-278.08	1,691.25	1,809.13	1,771.78	37.34	48.444 CC		
7,455.75	7,442.40	7,517.33	7,495.51	26.29	26.96	-112.57	-278.95	1,690.69	1,809.15	1,771.70	37.44	48.316		
7,500.00	7,486.51	7,552.49	7,530.62	26.46	27.08	-112.60	-280.51	1,689.68	1,809.25	1,771.61	37.65	48.057		
7,600.00	7,586.31	7,631.92	7,609.99	26.82	27.37	-112.67	-283.04	1,688.06	1,809.59	1,771.49	38.10	47.493		
7,700.00	7,686.24	7,711.32	7,689.38	27.18	27.64	-112.73	-284.19	1,687.33	1,810.06	1,771.52	38.54	46.961		
7,788.77	7,775.00	7,793.44	7,771.50	27.48	27.92	89.47	-284.26	1,687.28	1,810.40	1,771.44	38.96	46.474		
7,800.00	7,786.23	7,804.67	7,782.73	27.52	27.96	89.47	-284.26	1,687.28	1,810.40	1,771.39	39.01	46.410		
7,900.00	7,886.23	7,904.67	7,882.73	27.86	28.29	89.47	-284.26	1,687.28	1,810.40	1,770.91	39.49	45.846		
8,000.00	7,986.23	8,004.67	7,982.73	28.20	28.63	89.47	-284.26	1,687.28	1,810.40	1,770.43	39.97	45.294		
8,100.00	8,086.23	8,104.67	8,082.73	28.55	28.96	89.47	-284.26	1,687.28	1,810.40	1,769.95	40.45	44.755		
8,200.00	8,186.23	8,204.67	8,182.73	28.89	29.30	89.47	-284.26	1,687.28	1,810.40	1,769.47	40.93	44.228		
8,300.00	8,286.23	8,304.67	8,282.73	29.23	29.64	89.47	-284.26	1,687.28	1,810.40	1,768.98	41.42	43.713		
8,400.00	8,386.23	8,404.67	8,382.73	29.58	29.97	89.47	-284.26	1,687.28	1,810.40	1,768.50	41.90	43.209		
8,500.00	8,486.23	8,504.67	8,482.73	29.92	30.31	89.47	-284.26	1,687.28	1,810.40	1,768.02	42.38	42.716		
8,600.00	8,586.23	8,604.67	8,582.73	30.26	30.65	89.47	-284.26	1,687.28	1,810.40	1,767.53	42.87	42.234		
8,700.00	8,686.23	8,704.67	8,682.73	30.61	30.99	89.47	-284.26	1,687.28	1,810.40	1,767.05	43.35	41.761		
8,800.00	8,786.23	8,804.67	8,782.73	30.95	31.33	89.47	-284.26	1,687.28	1,810.40	1,766.56	43.84	41.299		
8,900.00	8,886.23	8,904.67	8,882.73	31.30	31.67	89.47	-284.26	1,687.28	1,810.40	1,766.08	44.32	40.847		
9,000.00	8,986.23	9,004.67	8,982.73	31.64	32.01	89.47	-284.26	1,687.28	1,810.40	1,765.59	44.81	40.403		
9,100.00	9,086.23	9,104.67	9,082.73	31.99	32.35	89.47	-284.26	1,687.28	1,810.40	1,765.10	45.29	39.969		
9,200.00	9,186.23	9,204.67	9,182.73	32.33	32.69	89.47	-284.26	1,687.28	1,810.40	1,764.62	45.78	39.544		
9,300.00	9,286.23	9,304.67	9,282.73	32.68	33.03	89.47	-284.26	1,687.28	1,810.40	1,764.13	46.27	39.127		
9,400.00	9,386.23	9,404.67	9,382.73	33.03	33.37	89.47	-284.26	1,687.28	1,810.40	1,763.64	46.76	38.719		
9,500.00	9,486.23	9,504.67	9,482.73	33.37	33.71	89.47	-284.26	1,687.28	1,810.40	1,763.15	47.25	38.319		
9,600.00	9,586.23	9,604.67	9,582.73	33.72	34.06	89.47	-284.26	1,687.28	1,810.40	1,762.66	47.73	37.927		
9,700.00	9,686.23	9,704.67	9,682.73	34.07	34.40	89.47	-284.26	1,687.28	1,810.40	1,762.18	48.22	37.542		
9,800.00	9,786.23	9,804.67	9,782.73	34.42	34.74	89.47	-284.26	1,687.28	1,810.40	1,761.69	48.71	37.165		
9,900.00	9,886.23	9,904.67	9,882.73	34.76	35.08	89.47	-284.26	1,687.28	1,810.40	1,761.20	49.20	36.795		
10,000.00	9,986.23	10,004.67	9,982.73	35.11	35.43	89.47	-284.26	1,687.28	1,810.40	1,760.71	49.69	36.432		
10,100.00	10,086.23	10,104.67	10,082.73	35.46	35.77	89.47	-284.26	1,687.28	1,810.40	1,760.22	50.18	36.076		
10,200.00	10,186.23	10,204.67	10,182.73	35.81	36.12	89.47	-284.26	1,687.28	1,810.40	1,759.72	50.67	35.727		
10,300.00	10,286.23	10,304.67	10,282.73	36.16	36.46	89.47	-284.26	1,687.28	1,810.40	1,759.23	51.16	35.384		
10,400.00	10,386.23	10,404.67	10,382.73	36.50	36.81	89.47	-284.26	1,687.28	1,810.40	1,758.74	51.66	35.047		
10,500.00	10,486.23	10,504.67	10,482.73	36.85	37.15	89.47	-284.26	1,687.28	1,810.40	1,758.25	52.15	34.717		
10,600.00	10,586.23	10,604.67	10,582.73	37.20	37.50	89.47	-284.26	1,687.28	1,810.40	1,757.76	52.64	34.392		

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



Total Directional Services Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
10,700.00	10,686.23	10,704.67	10,682.73	37.55	37.84	89.47	-284.26	1,687.28	1,810.40	1,757.27	53.13	34.073		
10,800.00	10,786.23	10,804.67	10,782.73	37.90	38.19	89.47	-284.26	1,687.28	1,810.40	1,756.77	53.62	33.760		
10,900.00	10,886.23	10,904.67	10,882.73	38.25	38.53	89.47	-284.26	1,687.28	1,810.40	1,756.28	54.12	33.453		
11,000.00	10,986.23	11,004.67	10,982.73	38.60	38.88	89.47	-284.26	1,687.28	1,810.40	1,755.79	54.61	33.151		
11,100.00	11,086.23	11,104.67	11,082.73	38.95	39.22	89.47	-284.26	1,687.28	1,810.40	1,755.29	55.10	32.854		
11,200.00	11,186.23	11,204.67	11,182.73	39.30	39.57	89.47	-284.26	1,687.28	1,810.40	1,754.80	55.60	32.562		
11,300.00	11,286.23	11,304.67	11,282.73	39.65	39.92	89.47	-284.26	1,687.28	1,810.40	1,754.31	56.09	32.276		
11,359.22	11,345.45	11,363.92	11,341.96	39.86	40.12	89.50	-285.21	1,687.29	1,810.40	1,754.01	56.39	32.108		
11,403.77	11,390.00	11,408.10	11,385.93	40.01	40.28	89.63	-289.45	1,687.33	1,810.40	1,753.79	56.61	31.981		
11,450.00	11,436.18	11,453.34	11,430.47	40.18	40.45	-89.68	-297.28	1,687.39	1,810.43	1,753.58	56.84	31.849		
11,500.00	11,485.78	11,501.75	11,477.29	40.36	40.64	-89.47	-309.53	1,687.50	1,810.48	1,753.37	57.11	31.704		
11,550.00	11,534.65	11,550.00	11,522.76	40.54	40.83	-89.27	-325.63	1,687.64	1,810.55	1,753.18	57.37	31.557		
11,600.00	11,582.42	11,597.07	11,565.66	40.73	41.02	-89.07	-344.96	1,687.81	1,810.64	1,753.00	57.65	31.409		
11,650.00	11,628.72	11,644.04	11,606.75	40.93	41.21	-88.89	-367.70	1,688.01	1,810.75	1,752.82	57.93	31.260		
11,700.00	11,673.21	11,690.60	11,645.50	41.13	41.41	-88.71	-393.48	1,688.24	1,810.87	1,752.66	58.21	31.108		
11,750.00	11,715.54	11,736.77	11,681.74	41.33	41.62	-88.54	-422.07	1,688.49	1,811.00	1,752.50	58.50	30.956		
11,800.00	11,755.40	11,782.59	11,715.31	41.54	41.82	-88.38	-453.24	1,688.77	1,811.14	1,752.34	58.80	30.802		
11,850.00	11,792.47	11,828.09	11,746.07	41.76	42.03	-88.23	-486.74	1,689.06	1,811.28	1,752.18	59.10	30.647		
11,900.00	11,826.48	11,873.30	11,773.92	41.98	42.25	-88.10	-522.35	1,689.37	1,811.42	1,752.01	59.41	30.489		
11,950.00	11,857.17	11,918.26	11,798.74	42.21	42.47	-87.97	-559.82	1,689.70	1,811.55	1,751.83	59.73	30.330		
12,000.00	11,884.30	11,963.00	11,820.44	42.45	42.70	-87.87	-598.92	1,690.05	1,811.68	1,751.63	60.05	30.169		
12,050.00	11,907.67	12,007.54	11,838.95	42.69	42.93	-87.77	-639.42	1,690.40	1,811.79	1,751.41	60.38	30.006		
12,100.00	11,927.10	12,050.00	11,853.62	42.94	43.16	-87.70	-679.25	1,690.75	1,811.89	1,751.18	60.71	29.845		
12,150.00	11,942.45	12,096.18	11,866.18	43.19	43.41	-87.64	-723.68	1,691.14	1,811.97	1,750.91	61.06	29.674		
12,200.00	11,953.59	12,140.34	11,874.81	43.45	43.65	-87.59	-766.97	1,691.52	1,812.03	1,750.62	61.41	29.506		
12,250.00	11,960.44	12,184.43	11,880.07	43.71	43.90	-87.56	-810.73	1,691.91	1,812.07	1,750.31	61.76	29.339		
12,297.58	11,962.92	12,226.94	11,881.97	43.97	44.14	-87.55	-853.19	1,692.28	1,812.09	1,749.99	62.11	29.178		
12,300.00	11,962.95	12,229.37	11,882.00	43.98	44.15	-87.55	-855.62	1,692.30	1,812.09	1,749.97	62.12	29.169		
12,400.00	11,964.03	12,329.36	11,883.58	44.54	44.75	-87.57	-955.60	1,693.18	1,812.08	1,749.14	62.94	28.790		
12,500.00	11,965.11	12,429.36	11,885.16	45.15	45.40	-87.58	-1,055.58	1,694.06	1,812.06	1,748.23	63.83	28.389		
12,600.00	11,966.19	12,529.36	11,886.74	45.81	46.09	-87.60	-1,155.57	1,694.94	1,812.05	1,747.26	64.79	27.968		
12,700.00	11,967.27	12,629.36	11,888.31	46.52	46.84	-87.61	-1,255.55	1,695.82	1,812.03	1,746.21	65.82	27.531		
12,800.00	11,968.35	12,729.36	11,889.89	47.28	47.63	-87.63	-1,355.53	1,696.70	1,812.02	1,745.11	66.91	27.080		
12,900.00	11,969.44	12,829.36	11,891.47	48.09	48.46	-87.64	-1,455.51	1,697.57	1,812.00	1,743.93	68.07	26.619		
13,000.00	11,970.52	12,929.36	11,893.04	48.93	49.33	-87.66	-1,555.50	1,698.45	1,811.99	1,742.70	69.29	26.152		
13,100.00	11,971.60	13,029.36	11,894.62	49.82	50.25	-87.68	-1,655.48	1,699.33	1,811.98	1,741.42	70.56	25.680		
13,200.00	11,972.68	13,129.35	11,896.20	50.75	51.20	-87.69	-1,755.46	1,700.21	1,811.96	1,740.08	71.89	25.206		
13,300.00	11,973.76	13,229.35	11,897.77	51.71	52.18	-87.71	-1,855.44	1,701.09	1,811.95	1,738.69	73.26	24.732		
13,400.00	11,974.84	13,329.35	11,899.35	52.70	53.20	-87.72	-1,955.43	1,701.97	1,811.94	1,737.25	74.69	24.260		
13,500.00	11,975.92	13,429.35	11,900.93	53.73	54.25	-87.74	-2,055.41	1,702.85	1,811.92	1,735.77	76.16	23.792		
13,600.00	11,977.00	13,529.35	11,902.51	54.79	55.33	-87.75	-2,155.39	1,703.72	1,811.91	1,734.24	77.67	23.328		
13,700.00	11,978.08	13,629.35	11,904.08	55.88	56.43	-87.77	-2,255.37	1,704.60	1,811.90	1,732.68	79.22	22.871		
13,800.00	11,979.16	13,729.35	11,905.66	56.99	57.56	-87.79	-2,355.36	1,705.48	1,811.88	1,731.07	80.81	22.421		
13,900.00	11,980.24	13,829.35	11,907.24	58.13	58.72	-87.80	-2,455.34	1,706.36	1,811.87	1,729.43	82.44	21.979		
14,000.00	11,981.32	13,929.34	11,908.81	59.30	59.90	-87.82	-2,555.32	1,707.24	1,811.86	1,727.76	84.10	21.545		
14,100.00	11,982.40	14,029.34	11,910.39	60.48	61.10	-87.83	-2,655.30	1,708.12	1,811.85	1,726.06	85.79	21.120		
14,200.00	11,983.49	14,129.34	11,911.97	61.69	62.32	-87.85	-2,755.29	1,709.00	1,811.83	1,724.33	87.51	20.705		
14,300.00	11,984.57	14,229.34	11,913.54	62.92	63.56	-87.86	-2,855.27	1,709.88	1,811.82	1,722.57	89.26	20.299		
14,400.00	11,985.65	14,329.34	11,915.12	64.17	64.82	-87.88	-2,955.25	1,710.75	1,811.81	1,720.78	91.03	19.903		
14,500.00	11,986.73	14,429.34	11,916.70	65.44	66.10	-87.90	-3,055.23	1,711.63	1,811.80	1,718.97	92.83	19.517		
14,600.00	11,987.81	14,529.34	11,918.28	66.72	67.40	-87.91	-3,155.22	1,712.51	1,811.79	1,717.13	94.65	19.141		
14,700.00	11,988.89	14,629.34	11,919.85	68.02	68.70	-87.93	-3,255.20	1,713.39	1,811.78	1,715.28	96.50	18.775		

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



Total Directional Services
Anticollision Report



Company: Franklin Mountain Energy
Project: Lea County, NM (NAD83)
Reference Site: Judge Baylor Fed Com
Site Error: 0.00 usft
Reference Well: Judge Baylor Fed Com 601H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #5
Local Co-ordinate Reference: Well Judge Baylor Fed Com 601H
TVD Reference: 3070' GE + 21' KB @ 3091.00usft
MD Reference: 3070' GE + 21' KB @ 3091.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

Offset Design Bus Driver/Kaston Fed Com - Bus Driver Fed Com 602H - OH - Plan #5
Survey Program: 0-OWSG (Rev2) MWD
Reference Offset Semi Major Axis Distance
Measured Vertical Measured Vertical Reference Offset Highside Offset Wellbore Centre Between Between Minimum Separation Warning
Depth Depth Depth Depth (usft) (usft) Toolface (+N/-S) (+E/-W) Centres Ellipses Separation Factor
14,800.00 11,989.97 14,729.33 11,921.43 69.33 70.03 -87.94 -3,355.18 1,714.27 1,811.76 1,713.40 98.36 18.419
14,900.00 11,991.05 14,829.33 11,923.01 70.66 71.36 -87.96 -3,455.16 1,715.15 1,811.75 1,711.50 100.25 18.072
15,000.00 11,992.13 14,929.33 11,924.58 72.00 72.71 -87.97 -3,555.15 1,716.03 1,811.74 1,709.59 102.15 17.735
15,100.00 11,993.21 15,029.33 11,926.16 73.35 74.08 -87.99 -3,655.13 1,716.91 1,811.73 1,707.65 104.08 17.408
15,200.00 11,994.29 15,129.33 11,927.74 74.72 75.45 -88.01 -3,755.11 1,717.78 1,811.72 1,705.71 106.01 17.089
15,300.00 11,995.37 15,229.33 11,929.31 76.10 76.83 -88.02 -3,855.09 1,718.66 1,811.71 1,703.74 107.97 16.780
15,400.00 11,996.45 15,329.33 11,930.89 77.48 78.23 -88.04 -3,955.08 1,719.54 1,811.70 1,701.76 109.94 16.479
15,500.00 11,997.54 15,429.33 11,932.47 78.88 79.63 -88.05 -4,055.06 1,720.42 1,811.69 1,699.77 111.92 16.187
15,600.00 11,998.62 15,529.32 11,934.05 80.29 81.05 -88.07 -4,155.04 1,721.30 1,811.68 1,697.76 113.92 15.903
15,700.00 11,999.70 15,629.32 11,935.62 81.71 82.47 -88.08 -4,255.02 1,722.18 1,811.67 1,695.74 115.93 15.628
15,800.00 12,000.78 15,729.32 11,937.20 83.13 83.90 -88.10 -4,355.01 1,723.06 1,811.66 1,693.71 117.95 15.360
15,900.00 12,001.86 15,829.32 11,938.78 84.57 85.34 -88.12 -4,454.99 1,723.94 1,811.65 1,691.67 119.98 15.099
16,000.00 12,002.94 15,929.32 11,940.35 86.01 86.79 -88.13 -4,554.97 1,724.81 1,811.64 1,689.61 122.02 14.846
16,100.00 12,004.02 16,029.32 11,941.93 87.46 88.24 -88.15 -4,654.95 1,725.69 1,811.63 1,687.55 124.08 14.601
16,200.00 12,005.10 16,129.32 11,943.51 88.91 89.70 -88.16 -4,754.94 1,726.57 1,811.62 1,685.47 126.14 14.362
16,300.00 12,006.18 16,229.32 11,945.08 90.38 91.17 -88.18 -4,854.92 1,727.45 1,811.61 1,683.39 128.22 14.129
16,400.00 12,007.26 16,329.32 11,946.66 91.85 92.64 -88.19 -4,954.90 1,728.33 1,811.60 1,681.30 130.30 13.903
16,500.00 12,008.34 16,429.31 11,948.24 93.32 94.12 -88.21 -5,054.88 1,729.21 1,811.59 1,679.20 132.39 13.684
16,600.00 12,009.42 16,529.31 11,949.82 94.80 95.61 -88.22 -5,154.87 1,730.09 1,811.58 1,677.09 134.49 13.470
16,700.00 12,010.50 16,629.31 11,951.39 96.29 97.10 -88.24 -5,254.85 1,730.97 1,811.57 1,674.98 136.59 13.262
16,800.00 12,011.59 16,729.31 11,952.97 97.78 98.59 -88.26 -5,354.83 1,731.84 1,811.56 1,672.85 138.71 13.060
16,900.00 12,012.67 16,829.31 11,954.55 99.28 100.09 -88.27 -5,454.81 1,732.72 1,811.55 1,670.72 140.83 12.863
17,000.00 12,013.75 16,929.31 11,956.12 100.78 101.60 -88.29 -5,554.80 1,733.60 1,811.55 1,668.59 142.96 12.672
17,100.00 12,014.83 17,029.31 11,957.70 102.29 103.11 -88.30 -5,654.78 1,734.48 1,811.54 1,666.45 145.09 12.485
17,200.00 12,015.91 17,129.31 11,959.28 103.80 104.62 -88.32 -5,754.76 1,735.36 1,811.53 1,664.30 147.23 12.304
17,300.00 12,016.99 17,229.30 11,960.86 105.32 106.14 -88.33 -5,854.74 1,736.24 1,811.52 1,662.14 149.38 12.127
17,400.00 12,018.07 17,329.30 11,962.43 106.84 107.66 -88.35 -5,954.73 1,737.12 1,811.51 1,659.98 151.53 11.955
17,500.00 12,019.15 17,429.30 11,964.01 108.36 109.19 -88.37 -6,054.71 1,738.00 1,811.51 1,657.82 153.69 11.787
17,600.00 12,020.23 17,529.30 11,965.59 109.89 110.72 -88.38 -6,154.69 1,738.87 1,811.50 1,655.65 155.85 11.623
17,700.00 12,021.31 17,629.30 11,967.16 111.42 112.25 -88.40 -6,254.67 1,739.75 1,811.49 1,653.47 158.02 11.464
17,800.00 12,022.39 17,729.30 11,968.74 112.95 113.79 -88.41 -6,354.66 1,740.63 1,811.48 1,651.29 160.19 11.308
17,900.00 12,023.47 17,829.30 11,970.32 114.49 115.33 -88.43 -6,454.64 1,741.51 1,811.48 1,649.11 162.37 11.157
18,000.00 12,024.56 17,929.30 11,971.89 116.03 116.87 -88.44 -6,554.62 1,742.39 1,811.47 1,646.92 164.55 11.009
18,100.00 12,025.64 18,029.29 11,973.47 117.57 118.41 -88.46 -6,654.60 1,743.27 1,811.46 1,644.73 166.73 10.864
18,200.00 12,026.72 18,129.29 11,975.05 119.12 119.96 -88.48 -6,754.58 1,744.15 1,811.46 1,642.53 168.92 10.724
18,300.00 12,027.80 18,229.29 11,976.63 120.67 121.51 -88.49 -6,854.57 1,745.03 1,811.45 1,640.33 171.12 10.586
18,400.00 12,028.88 18,329.29 11,978.20 122.22 123.07 -88.51 -6,954.55 1,745.90 1,811.44 1,638.13 173.31 10.452
18,500.00 12,029.96 18,429.29 11,979.78 123.78 124.62 -88.52 -7,054.53 1,746.78 1,811.44 1,635.92 175.51 10.321
18,600.00 12,031.04 18,529.29 11,981.36 125.33 126.18 -88.54 -7,154.51 1,747.66 1,811.43 1,633.71 177.72 10.193
18,700.00 12,032.12 18,629.29 11,982.93 126.89 127.74 -88.55 -7,254.50 1,748.54 1,811.42 1,631.50 179.93 10.068
18,800.00 12,033.20 18,729.29 11,984.51 128.46 129.30 -88.57 -7,354.48 1,749.42 1,811.42 1,629.28 182.14 9.945
18,900.00 12,034.28 18,829.28 11,986.09 130.02 130.87 -88.59 -7,454.46 1,750.30 1,811.41 1,627.06 184.35 9.826
19,000.00 12,035.36 18,929.28 11,987.66 131.59 132.44 -88.60 -7,554.44 1,751.18 1,811.41 1,624.84 186.57 9.709
19,100.00 12,036.44 19,029.28 11,989.24 133.16 134.01 -88.62 -7,654.43 1,752.05 1,811.40 1,622.61 188.79 9.595
19,200.00 12,037.52 19,129.28 11,990.82 134.73 135.58 -88.63 -7,754.41 1,752.93 1,811.39 1,620.38 191.01 9.483
19,300.00 12,038.61 19,229.28 11,992.40 136.30 137.15 -88.65 -7,854.39 1,753.81 1,811.39 1,618.15 193.24 9.374
19,400.00 12,039.69 19,329.28 11,993.97 137.87 138.72 -88.66 -7,954.37 1,754.69 1,811.38 1,615.92 195.47 9.267
19,500.00 12,040.77 19,429.28 11,995.55 139.45 140.30 -88.68 -8,054.36 1,755.57 1,811.38 1,613.68 197.70 9.162
19,600.00 12,041.85 19,529.28 11,997.13 141.03 141.88 -88.70 -8,154.34 1,756.45 1,811.37 1,611.44 199.93 9.060
19,700.00 12,042.93 19,629.27 11,998.70 142.61 143.46 -88.71 -8,254.32 1,757.33 1,811.37 1,609.20 202.16 8.960
19,800.00 12,044.01 19,729.27 12,000.28 144.19 145.04 -88.73 -8,354.30 1,758.21 1,811.36 1,606.96 204.40 8.862
19,900.00 12,045.09 19,829.27 12,001.86 145.77 146.62 -88.74 -8,454.29 1,759.08 1,811.36 1,604.72 206.64 8.766

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
20,000.00	12,046.17	19,929.27	12,003.43	147.35	148.21	-88.76	-8,554.27	1,759.96	1,811.36	1,602.47	208.88	8.672		
20,100.00	12,047.25	20,029.27	12,005.01	148.94	149.80	-88.77	-8,654.25	1,760.84	1,811.35	1,600.22	211.13	8.579		
20,200.00	12,048.33	20,129.27	12,006.59	150.53	151.38	-88.79	-8,754.23	1,761.72	1,811.35	1,597.97	213.37	8.489		
20,300.00	12,049.41	20,229.27	12,008.17	152.11	152.97	-88.81	-8,854.22	1,762.60	1,811.34	1,595.72	215.62	8.401		
20,400.00	12,050.49	20,329.27	12,009.74	153.70	154.56	-88.82	-8,954.20	1,763.48	1,811.34	1,593.47	217.87	8.314		
20,500.00	12,051.57	20,429.26	12,011.32	155.30	156.15	-88.84	-9,054.18	1,764.36	1,811.34	1,591.21	220.12	8.229		
20,600.00	12,052.66	20,529.26	12,012.90	156.89	157.75	-88.85	-9,154.16	1,765.24	1,811.33	1,588.95	222.38	8.145		
20,700.00	12,053.74	20,629.26	12,014.47	158.48	159.34	-88.87	-9,254.15	1,766.11	1,811.33	1,586.70	224.63	8.064		
20,800.00	12,054.82	20,729.26	12,016.05	160.08	160.93	-88.88	-9,354.13	1,766.99	1,811.33	1,584.44	226.89	7.983		
20,900.00	12,055.90	20,829.26	12,017.63	161.67	162.53	-88.90	-9,454.11	1,767.87	1,811.32	1,582.17	229.15	7.905		
21,000.00	12,056.98	20,929.26	12,019.20	163.27	164.13	-88.92	-9,554.09	1,768.75	1,811.32	1,579.91	231.41	7.827		
21,100.00	12,058.06	21,029.26	12,020.78	164.87	165.73	-88.93	-9,654.08	1,769.63	1,811.32	1,577.65	233.67	7.752		
21,200.00	12,059.14	21,129.26	12,022.36	166.47	167.33	-88.95	-9,754.06	1,770.51	1,811.31	1,575.38	235.93	7.677		
21,300.00	12,060.22	21,229.25	12,023.94	168.07	168.93	-88.96	-9,854.04	1,771.39	1,811.31	1,573.11	238.20	7.604		
21,400.00	12,061.30	21,329.25	12,025.51	169.67	170.53	-88.98	-9,954.02	1,772.27	1,811.31	1,570.84	240.46	7.533		
21,500.00	12,062.38	21,429.25	12,027.09	171.27	172.13	-88.99	-10,054.01	1,773.14	1,811.31	1,568.58	242.73	7.462		
21,600.00	12,063.46	21,529.25	12,028.67	172.87	173.73	-89.01	-10,153.99	1,774.02	1,811.30	1,566.30	245.00	7.393		
21,700.00	12,064.54	21,629.25	12,030.24	174.48	175.34	-89.03	-10,253.97	1,774.90	1,811.30	1,564.03	247.27	7.325		
21,800.00	12,065.62	21,729.25	12,031.82	176.08	176.94	-89.04	-10,353.95	1,775.78	1,811.30	1,561.76	249.54	7.259		
21,900.00	12,066.71	21,829.25	12,033.40	177.69	178.55	-89.06	-10,453.94	1,776.66	1,811.30	1,559.49	251.81	7.193		
22,000.00	12,067.79	21,929.25	12,034.97	179.30	180.15	-89.07	-10,553.92	1,777.54	1,811.30	1,557.21	254.09	7.129		
22,100.31	12,068.87	22,029.55	12,036.56	180.91	181.77	-89.09	-10,654.21	1,778.42	1,811.29	1,554.93	256.37	7.065		
22,101.01	12,068.88	22,030.25	12,036.57	180.92	181.78	-89.09	-10,654.91	1,778.43	1,811.29	1,554.91	256.38	7.065 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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
0.00	0.00	0.00	0.00	0.00	0.00	87.59	79.52	1,885.79	1,887.47					
100.00	100.00	129.03	128.99	0.14	0.24	87.54	80.87	1,884.31	1,886.32	1,886.05	0.28	6,767.513		
200.00	200.00	213.00	212.96	0.50	0.53	87.52	81.69	1,883.60	1,885.44	1,884.71	0.73	2,583.083		
300.00	300.00	333.35	333.30	0.86	0.96	87.50	82.03	1,881.82	1,883.96	1,882.68	1.29	1,463.184		
400.00	400.00	445.04	444.95	1.22	1.36	87.50	81.90	1,879.21	1,881.62	1,879.79	1.82	1,032.009		
500.00	500.00	578.05	577.87	1.58	1.84	87.51	81.43	1,874.36	1,877.89	1,875.47	2.42	776.722		
600.00	600.00	677.00	676.73	1.93	2.20	87.52	81.05	1,870.17	1,873.64	1,870.72	2.92	641.616		
700.00	700.00	750.82	750.49	2.29	2.47	87.52	80.80	1,867.35	1,869.88	1,866.52	3.36	556.982		
800.00	800.00	849.67	849.31	2.65	2.82	87.54	80.24	1,864.68	1,867.15	1,863.29	3.86	483.686		
900.00	900.00	939.25	938.85	3.01	3.15	87.57	79.17	1,862.42	1,864.58	1,860.24	4.34	429.728		
1,000.00	1,000.00	1,035.64	1,035.21	3.37	3.49	87.60	78.00	1,860.43	1,862.47	1,857.63	4.84	385.191		
1,100.00	1,100.00	1,148.05	1,147.58	3.73	3.89	87.66	76.07	1,857.80	1,860.06	1,854.69	5.37	346.226		
1,200.00	1,200.00	1,235.90	1,235.40	4.08	4.21	87.69	75.01	1,855.88	1,857.80	1,851.95	5.85	317.693		
1,300.00	1,300.00	1,326.99	1,326.47	4.44	4.50	87.71	74.28	1,854.34	1,856.07	1,849.76	6.31	294.300		
1,400.00	1,400.00	1,416.25	1,415.72	4.80	4.67	87.71	73.98	1,853.17	1,854.74	1,848.07	6.68	277.797		
1,500.00	1,500.00	1,511.52	1,510.99	5.16	4.71	87.71	73.99	1,852.31	1,853.85	1,846.88	6.97	266.150		
1,600.00	1,600.00	1,608.31	1,607.77	5.52	4.76	87.72	73.87	1,851.65	1,853.16	1,845.89	7.27	254.973		
1,700.00	1,700.00	1,702.97	1,702.44	5.88	4.83	87.72	73.77	1,851.21	1,852.69	1,845.10	7.59	244.087		
1,800.00	1,800.00	1,801.09	1,800.56	6.24	4.93	87.72	73.76	1,850.95	1,852.42	1,844.49	7.93	233.526		
1,900.00	1,900.00	1,901.91	1,901.38	6.59	5.06	87.71	73.86	1,850.70	1,852.18	1,843.88	8.29	223.334		
2,000.00	2,000.00	1,999.79	1,999.26	6.95	5.20	87.71	73.92	1,850.49	1,851.97	1,843.31	8.67	213.705		
2,100.00	2,100.00	2,098.29	2,097.75	7.31	5.36	87.70	74.19	1,850.38	1,851.86	1,842.81	9.05	204.625		
2,187.82	2,187.82	2,184.85	2,184.32	7.63	5.51	87.69	74.62	1,850.33	1,851.83	1,842.44	9.39	197.117		
2,200.00	2,200.00	2,196.77	2,196.23	7.67	5.54	87.69	74.69	1,850.33	1,851.83	1,842.39	9.44	196.101		
2,300.00	2,300.00	2,294.28	2,293.74	8.03	5.72	87.67	75.22	1,850.38	1,851.91	1,842.07	9.84	188.118		
2,400.00	2,400.00	2,391.50	2,390.96	8.39	5.92	87.65	75.98	1,850.58	1,852.15	1,841.89	10.25	180.640		
2,500.00	2,500.00	2,489.94	2,489.39	8.74	6.14	87.62	76.86	1,850.87	1,852.48	1,841.81	10.67	173.598		
2,600.00	2,600.00	2,606.30	2,605.75	9.10	6.41	87.59	77.80	1,851.12	1,852.78	1,841.66	11.12	166.608		
2,700.00	2,700.00	2,759.26	2,758.66	9.46	6.79	87.64	76.18	1,848.05	1,850.67	1,839.04	11.63	159.163		
2,800.00	2,800.00	2,891.76	2,891.04	9.82	7.14	87.72	73.39	1,843.04	1,846.92	1,834.81	12.11	152.461		
2,900.00	2,900.00	3,064.61	3,063.31	10.18	7.63	87.92	66.47	1,831.04	1,839.82	1,827.16	12.66	145.353		
3,000.00	3,000.00	3,235.86	3,233.21	10.54	8.16	88.24	55.66	1,812.57	1,828.81	1,815.61	13.20	138.567		
3,100.00	3,100.00	3,349.77	3,345.74	10.90	8.53	88.51	46.71	1,797.35	1,815.15	1,801.47	13.68	132.706		
3,200.00	3,200.00	3,448.54	3,443.29	11.25	8.86	88.75	38.88	1,784.03	1,801.43	1,787.29	14.15	127.345		
3,300.00	3,300.00	3,547.30	3,540.84	11.61	9.21	89.00	31.04	1,770.70	1,787.75	1,773.13	14.62	122.295		
3,400.00	3,400.00	3,646.07	3,638.39	11.97	9.56	89.24	23.20	1,757.38	1,774.10	1,759.01	15.09	117.532		
3,500.00	3,500.00	3,744.84	3,735.94	12.33	9.91	89.50	15.37	1,744.06	1,760.48	1,744.91	15.57	113.038		
3,600.00	3,600.00	3,843.61	3,833.49	12.69	10.27	89.75	7.53	1,730.73	1,746.90	1,730.84	16.06	108.791		
3,700.00	3,700.00	3,942.38	3,931.04	13.05	10.64	90.01	-0.30	1,717.41	1,733.35	1,716.81	16.54	104.776		
3,720.00	3,720.00	3,962.13	3,950.55	13.12	10.72	90.06	-1.87	1,714.74	1,730.64	1,714.00	16.64	103.999		
3,800.00	3,799.99	4,041.24	4,028.69	13.39	11.01	-112.12	-8.15	1,704.07	1,720.15	1,703.13	17.02	101.059		
3,900.00	3,899.93	4,140.37	4,126.60	13.72	11.39	-112.13	-16.01	1,690.70	1,707.93	1,690.44	17.49	97.674		
4,000.00	3,999.75	4,239.71	4,224.71	14.04	11.78	-112.21	-23.89	1,677.30	1,696.69	1,678.74	17.95	94.501		
4,053.02	4,052.60	4,292.44	4,276.79	14.21	11.98	-112.28	-28.08	1,670.18	1,691.13	1,672.93	18.20	92.900		
4,100.00	4,099.40	4,339.17	4,322.95	14.37	12.16	-112.28	-31.79	1,663.88	1,686.33	1,667.91	18.43	91.519		
4,200.00	4,199.02	4,438.65	4,421.20	14.70	12.55	-112.28	-39.68	1,650.46	1,676.11	1,657.21	18.90	88.672		
4,300.00	4,298.64	4,538.12	4,519.45	15.03	12.95	-112.28	-47.57	1,637.04	1,665.89	1,646.51	19.38	85.949		
4,400.00	4,398.26	4,637.60	4,617.70	15.36	13.34	-112.29	-55.46	1,623.62	1,655.68	1,635.81	19.87	83.343		
4,500.00	4,497.88	4,737.07	4,715.95	15.70	13.74	-112.29	-63.36	1,610.20	1,645.46	1,625.10	20.35	80.847		
4,600.00	4,597.50	4,836.55	4,814.20	16.04	14.14	-112.29	-71.25	1,596.78	1,635.24	1,614.39	20.84	78.457		
4,700.00	4,697.12	4,936.03	4,912.45	16.38	14.55	-112.29	-79.14	1,583.36	1,625.02	1,603.68	21.34	76.167		
4,800.00	4,796.74	5,035.50	5,010.70	16.73	14.95	-112.30	-87.03	1,569.94	1,614.80	1,592.97	21.83	73.970		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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
Bus Driver/Kaston Fed Com - Bus Driver Fed Com 702H - OH - Plan #5													Offset Well Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 2745-OWSG (Rev2) MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.00	4,896.36	5,134.98	5,108.95	17.07	15.36	-112.30	-94.92	1,556.53	1,604.58	1,582.25	22.33	71.864		
5,000.00	4,995.98	5,234.46	5,207.20	17.42	15.77	-112.30	-102.82	1,543.11	1,594.36	1,571.53	22.83	69.842		
5,100.00	5,095.60	5,333.93	5,305.45	17.77	16.18	-112.31	-110.71	1,529.69	1,584.14	1,560.81	23.33	67.901		
5,200.00	5,195.22	5,433.41	5,403.71	18.12	16.59	-112.31	-118.60	1,516.27	1,573.92	1,550.09	23.83	66.035		
5,300.00	5,294.84	5,532.89	5,501.96	18.47	17.00	-112.31	-126.49	1,502.85	1,563.70	1,539.36	24.34	64.242		
5,400.00	5,394.46	5,632.36	5,600.21	18.82	17.42	-112.32	-134.39	1,489.43	1,553.48	1,528.64	24.85	62.518		
5,500.00	5,494.08	5,731.84	5,698.46	19.18	17.83	-112.32	-142.28	1,476.01	1,543.26	1,517.91	25.36	60.859		
5,600.00	5,593.70	5,831.32	5,796.71	19.53	18.25	-112.32	-150.17	1,462.59	1,533.05	1,507.18	25.87	59.261		
5,700.00	5,693.32	5,930.79	5,894.96	19.89	18.67	-112.33	-158.06	1,449.17	1,522.83	1,496.44	26.38	57.723		
5,800.00	5,792.94	6,030.27	5,993.21	20.25	19.08	-112.33	-165.96	1,435.75	1,512.61	1,485.71	26.90	56.240		
5,900.00	5,892.56	6,129.74	6,091.46	20.61	19.50	-112.33	-173.85	1,422.33	1,502.39	1,474.98	27.41	54.809		
6,000.00	5,992.18	6,229.22	6,189.71	20.97	19.92	-112.34	-181.74	1,408.91	1,492.17	1,464.24	27.93	53.430		
6,100.00	6,091.80	6,328.70	6,287.96	21.33	20.34	-112.34	-189.63	1,395.49	1,481.95	1,453.50	28.45	52.098		
6,200.00	6,191.42	6,428.17	6,386.21	21.69	20.76	-112.34	-197.52	1,382.07	1,471.73	1,442.77	28.96	50.812		
6,300.00	6,291.04	6,527.65	6,484.46	22.05	21.19	-112.35	-205.42	1,368.65	1,461.51	1,432.03	29.48	49.569		
6,400.00	6,390.66	6,627.13	6,582.71	22.42	21.61	-112.35	-213.31	1,355.24	1,451.29	1,421.29	30.01	48.368		
6,500.00	6,490.28	6,726.60	6,680.96	22.78	22.03	-112.35	-221.20	1,341.82	1,441.07	1,410.55	30.53	47.207		
6,600.00	6,589.90	6,826.08	6,779.21	23.15	22.46	-112.36	-229.09	1,328.40	1,430.85	1,399.80	31.05	46.083		
6,700.00	6,689.52	6,925.56	6,877.47	23.51	22.88	-112.36	-236.99	1,314.98	1,420.64	1,389.06	31.57	44.995		
6,800.00	6,789.14	7,025.03	6,975.72	23.88	23.30	-112.37	-244.88	1,301.56	1,410.42	1,378.32	32.10	43.941		
6,900.00	6,888.77	7,124.51	7,073.97	24.24	23.73	-112.37	-252.77	1,288.14	1,400.20	1,367.57	32.62	42.921		
7,000.00	6,988.39	7,223.99	7,172.22	24.61	24.16	-112.37	-260.66	1,274.72	1,389.98	1,356.83	33.15	41.932		
7,100.00	7,088.01	7,311.87	7,259.04	24.98	24.53	-112.38	-267.54	1,263.02	1,379.96	1,346.30	33.66	40.995		
7,200.00	7,187.63	7,387.91	7,334.37	25.35	24.84	-112.42	-272.83	1,254.04	1,371.44	1,337.28	34.15	40.156		
7,300.00	7,287.25	7,464.12	7,410.05	25.72	25.15	-112.48	-277.36	1,246.34	1,364.62	1,329.99	34.63	39.402		
7,400.00	7,386.87	7,540.45	7,486.02	26.09	25.44	-112.58	-281.12	1,239.93	1,359.53	1,324.43	35.10	38.730		
7,455.75	7,442.40	7,583.04	7,528.46	26.29	25.60	-112.66	-282.89	1,236.92	1,357.44	1,322.08	35.36	38.389		
7,500.00	7,486.51	7,616.85	7,562.18	26.46	25.72	-112.69	-284.12	1,234.83	1,356.07	1,320.51	35.56	38.133		
7,600.00	7,586.31	7,700.00	7,645.20	26.82	26.02	-112.76	-286.51	1,230.77	1,353.52	1,317.50	36.02	37.574		
7,700.00	7,686.24	7,769.80	7,714.96	27.18	26.25	-112.77	-287.81	1,228.57	1,351.66	1,315.22	36.44	37.096		
7,788.77	7,775.00	7,837.74	7,782.88	27.48	26.47	89.46	-288.45	1,227.48	1,350.62	1,313.82	36.80	36.699		
7,800.00	7,786.23	7,846.33	7,791.47	27.52	26.49	89.46	-288.49	1,227.41	1,350.54	1,313.69	36.85	36.652		
7,853.14	7,839.37	7,890.73	7,835.87	27.70	26.63	89.47	-288.54	1,227.32	1,350.42	1,313.35	37.07	36.429		
7,900.00	7,886.23	7,937.59	7,882.73	27.86	26.77	89.47	-288.54	1,227.32	1,350.42	1,313.13	37.29	36.218		
8,000.00	7,986.23	8,037.59	7,982.73	28.20	27.06	89.47	-288.54	1,227.32	1,350.42	1,312.67	37.75	35.773		
8,100.00	8,086.23	8,137.59	8,082.73	28.55	27.36	89.47	-288.54	1,227.32	1,350.42	1,312.21	38.21	35.339		
8,200.00	8,186.23	8,237.59	8,182.73	28.89	27.65	89.47	-288.54	1,227.32	1,350.42	1,311.74	38.68	34.913		
8,300.00	8,286.23	8,337.59	8,282.73	29.23	27.95	89.47	-288.54	1,227.32	1,350.42	1,311.27	39.15	34.497		
8,400.00	8,386.23	8,437.59	8,382.73	29.58	28.25	89.47	-288.54	1,227.32	1,350.42	1,310.81	39.61	34.090		
8,500.00	8,486.23	8,537.59	8,482.73	29.92	28.55	89.47	-288.54	1,227.32	1,350.42	1,310.34	40.08	33.692		
8,600.00	8,586.23	8,637.59	8,582.73	30.26	28.85	89.47	-288.54	1,227.32	1,350.42	1,309.87	40.55	33.302		
8,700.00	8,686.23	8,737.59	8,682.73	30.61	29.16	89.47	-288.54	1,227.32	1,350.42	1,309.40	41.02	32.920		
8,800.00	8,786.23	8,837.59	8,782.73	30.95	29.46	89.47	-288.54	1,227.32	1,350.42	1,308.93	41.49	32.547		
8,900.00	8,886.23	8,937.59	8,882.73	31.30	29.77	89.47	-288.54	1,227.32	1,350.42	1,308.46	41.96	32.181		
9,000.00	8,986.23	9,037.59	8,982.73	31.64	30.08	89.47	-288.54	1,227.32	1,350.42	1,307.98	42.44	31.822		
9,100.00	9,086.23	9,137.59	9,082.73	31.99	30.38	89.47	-288.54	1,227.32	1,350.42	1,307.51	42.91	31.471		
9,200.00	9,186.23	9,237.59	9,182.73	32.33	30.69	89.47	-288.54	1,227.32	1,350.42	1,307.03	43.38	31.127		
9,300.00	9,286.23	9,337.59	9,282.73	32.68	31.00	89.47	-288.54	1,227.32	1,350.42	1,306.56	43.86	30.790		
9,400.00	9,386.23	9,437.59	9,382.73	33.03	31.32	89.47	-288.54	1,227.32	1,350.42	1,306.08	44.33	30.460		
9,500.00	9,486.23	9,537.59	9,482.73	33.37	31.63	89.47	-288.54	1,227.32	1,350.42	1,305.61	44.81	30.136		
9,600.00	9,586.23	9,637.59	9,582.73	33.72	31.94	89.47	-288.54	1,227.32	1,350.42	1,305.13	45.29	29.818		
9,700.00	9,686.23	9,737.59	9,682.73	34.07	32.26	89.47	-288.54	1,227.32	1,350.42	1,304.65	45.77	29.507		

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



Total Directional Services Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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
Bus Driver/Kaston Fed Com - Bus Driver Fed Com 702H - OH - Plan #5													Offset Well Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 2745-OWSG (Rev2) MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	9,786.23	9,837.59	9,782.73	34.42	32.57	89.47	-288.54	1,227.32	1,350.42	1,304.17	46.24	29.202		
9,900.00	9,886.23	9,937.59	9,882.73	34.76	32.89	89.47	-288.54	1,227.32	1,350.42	1,303.70	46.72	28.903		
10,000.00	9,986.23	10,037.59	9,982.73	35.11	33.20	89.47	-288.54	1,227.32	1,350.42	1,303.22	47.20	28.609		
10,100.00	10,086.23	10,137.59	10,082.73	35.46	33.52	89.47	-288.54	1,227.32	1,350.42	1,302.74	47.68	28.321		
10,200.00	10,186.23	10,237.59	10,182.73	35.81	33.84	89.47	-288.54	1,227.32	1,350.42	1,302.26	48.16	28.039		
10,300.00	10,286.23	10,337.59	10,282.73	36.16	34.16	89.47	-288.54	1,227.32	1,350.42	1,301.77	48.64	27.761		
10,400.00	10,386.23	10,437.59	10,382.73	36.50	34.48	89.47	-288.54	1,227.32	1,350.42	1,301.29	49.13	27.489		
10,500.00	10,486.23	10,537.59	10,482.73	36.85	34.80	89.47	-288.54	1,227.32	1,350.42	1,300.81	49.61	27.222		
10,600.00	10,586.23	10,637.59	10,582.73	37.20	35.12	89.47	-288.54	1,227.32	1,350.42	1,300.33	50.09	26.960		
10,700.00	10,686.23	10,737.59	10,682.73	37.55	35.45	89.47	-288.54	1,227.32	1,350.42	1,299.85	50.57	26.702		
10,800.00	10,786.23	10,837.59	10,782.73	37.90	35.77	89.47	-288.54	1,227.32	1,350.42	1,299.36	51.06	26.449		
10,900.00	10,886.23	10,937.59	10,882.73	38.25	36.09	89.47	-288.54	1,227.32	1,350.42	1,298.88	51.54	26.201		
11,000.00	10,986.23	11,037.59	10,982.73	38.60	36.42	89.47	-288.54	1,227.32	1,350.42	1,298.39	52.03	25.957		
11,100.00	11,086.23	11,137.59	11,082.73	38.95	36.74	89.47	-288.54	1,227.32	1,350.42	1,297.91	52.51	25.717		
11,200.00	11,186.23	11,237.59	11,182.73	39.30	37.07	89.47	-288.54	1,227.32	1,350.42	1,297.42	53.00	25.482		
11,300.00	11,286.23	11,337.59	11,282.73	39.65	37.39	89.47	-288.54	1,227.32	1,350.42	1,296.94	53.48	25.250		
11,403.77	11,390.00	11,441.36	11,386.50	40.01	37.73	89.47	-288.54	1,227.32	1,350.42	1,296.43	53.99	25.014	CC	
11,403.98	11,390.21	11,441.57	11,386.71	40.02	37.73	89.47	-288.54	1,227.32	1,350.42	1,296.43	53.99	25.014		
11,450.00	11,436.18	11,487.54	11,432.68	40.18	37.89	-90.11	-288.54	1,227.32	1,350.42	1,296.21	54.21	24.911		
11,500.00	11,485.78	11,537.19	11,482.33	40.36	38.05	-90.37	-288.55	1,227.32	1,350.45	1,296.00	54.45	24.802		
11,550.00	11,534.65	11,587.67	11,532.73	40.54	38.22	-90.71	-291.06	1,227.34	1,350.52	1,295.83	54.70	24.690		
11,600.00	11,582.42	11,638.89	11,583.44	40.73	38.40	-91.04	-298.14	1,227.40	1,350.65	1,295.69	54.96	24.575		
11,650.00	11,628.72	11,690.88	11,634.06	40.93	38.58	-91.37	-309.92	1,227.51	1,350.82	1,295.58	55.23	24.456		
11,700.00	11,673.21	11,743.66	11,684.14	41.13	38.78	-91.69	-326.52	1,227.65	1,351.03	1,295.50	55.52	24.334		
11,750.00	11,715.54	11,797.23	11,733.19	41.33	38.99	-92.00	-348.01	1,227.84	1,351.27	1,295.45	55.82	24.208		
11,800.00	11,755.40	11,851.59	11,780.70	41.54	39.20	-92.30	-374.40	1,228.08	1,351.53	1,295.41	56.13	24.079		
11,850.00	11,792.47	11,906.74	11,826.11	41.76	39.43	-92.58	-405.65	1,228.35	1,351.82	1,295.37	56.45	23.947		
11,900.00	11,826.48	11,962.65	11,868.87	41.98	39.66	-92.84	-441.63	1,228.67	1,352.12	1,295.33	56.79	23.810		
11,950.00	11,857.17	12,019.28	11,908.40	42.21	39.90	-93.08	-482.15	1,229.02	1,352.41	1,295.27	57.14	23.669		
12,000.00	11,884.30	12,076.59	11,944.13	42.45	40.15	-93.29	-526.93	1,229.42	1,352.69	1,295.19	57.50	23.524		
12,050.00	11,907.67	12,134.51	11,975.52	42.69	40.42	-93.48	-575.57	1,229.84	1,352.95	1,295.06	57.88	23.373		
12,100.00	11,927.10	12,192.97	12,002.06	42.94	40.70	-93.64	-627.63	1,230.30	1,353.18	1,294.89	58.28	23.218		
12,150.00	11,942.45	12,251.88	12,023.30	43.19	41.00	-93.76	-682.55	1,230.78	1,353.36	1,294.67	58.70	23.057		
12,200.00	11,953.59	12,311.14	12,038.86	43.45	41.32	-93.85	-739.69	1,231.29	1,353.50	1,294.38	59.13	22.892		
12,250.00	11,960.44	12,370.62	12,048.47	43.71	41.65	-93.90	-798.37	1,231.80	1,353.59	1,294.02	59.57	22.724		
12,297.58	11,962.92	12,427.34	12,051.92	43.97	41.97	-93.92	-854.96	1,232.30	1,353.62	1,293.63	59.99	22.562		
12,300.00	11,962.95	12,429.60	12,051.95	43.98	41.98	-93.92	-857.22	1,232.32	1,353.62	1,293.61	60.01	22.555		
12,400.00	11,964.03	12,529.60	12,053.26	44.54	42.60	-93.93	-957.21	1,233.20	1,353.65	1,292.79	60.85	22.245		
12,500.00	11,965.11	12,629.60	12,054.58	45.15	43.26	-93.94	-1,057.19	1,234.08	1,353.67	1,291.91	61.76	21.918		
12,600.00	11,966.19	12,729.60	12,055.89	45.81	43.98	-93.95	-1,157.18	1,234.96	1,353.69	1,290.95	62.75	21.574		
12,700.00	11,967.27	12,829.60	12,057.20	46.52	44.74	-93.96	-1,257.17	1,235.84	1,353.71	1,289.91	63.80	21.218		
12,800.00	11,968.35	12,929.60	12,058.52	47.28	45.55	-93.97	-1,357.16	1,236.72	1,353.74	1,288.82	64.92	20.852		
12,900.00	11,969.44	13,029.60	12,059.83	48.09	46.41	-93.98	-1,457.14	1,237.60	1,353.76	1,287.66	66.10	20.479		
13,000.00	11,970.52	13,129.60	12,061.14	48.93	47.31	-93.99	-1,557.13	1,238.48	1,353.78	1,286.43	67.35	20.101		
13,100.00	11,971.60	13,229.60	12,062.46	49.82	48.25	-94.00	-1,657.12	1,239.35	1,353.81	1,285.16	68.65	19.721		
13,200.00	11,972.68	13,329.60	12,063.77	50.75	49.23	-94.01	-1,757.10	1,240.23	1,353.83	1,283.83	70.00	19.339		
13,300.00	11,973.76	13,429.60	12,065.08	51.71	50.24	-94.02	-1,857.09	1,241.11	1,353.85	1,282.44	71.41	18.959		
13,400.00	11,974.84	13,529.60	12,066.40	52.70	51.28	-94.03	-1,957.08	1,241.99	1,353.88	1,281.02	72.86	18.582		
13,500.00	11,975.92	13,629.60	12,067.71	53.73	52.36	-94.04	-2,057.07	1,242.87	1,353.90	1,279.54	74.36	18.208		
13,600.00	11,977.00	13,729.60	12,069.02	54.79	53.46	-94.05	-2,157.05	1,243.75	1,353.92	1,278.03	75.90	17.839		
13,700.00	11,978.08	13,829.60	12,070.34	55.88	54.60	-94.06	-2,257.04	1,244.63	1,353.95	1,276.47	77.47	17.476		
13,800.00	11,979.16	13,929.60	12,071.65	56.99	55.75	-94.07	-2,357.03	1,245.51	1,353.97	1,274.88	79.09	17.119		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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
Bus Driver/Kaston Fed Com - Bus Driver Fed Com 702H - OH - Plan #5													Offset Well Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 2745-OWSG (Rev2) MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	11,980.24	14,029.60	12,072.96	58.13	56.94	-94.08	-2,457.01	1,246.39	1,353.99	1,273.25	80.74	16.770		
14,000.00	11,981.32	14,129.60	12,074.28	59.30	58.14	-94.09	-2,557.00	1,247.27	1,354.02	1,271.59	82.42	16.427		
14,100.00	11,982.40	14,229.60	12,075.59	60.48	59.37	-94.10	-2,656.99	1,248.15	1,354.04	1,269.90	84.14	16.093		
14,200.00	11,983.49	14,329.60	12,076.90	61.69	60.62	-94.10	-2,756.98	1,249.03	1,354.06	1,268.18	85.88	15.767		
14,300.00	11,984.57	14,429.60	12,078.22	62.92	61.88	-94.11	-2,856.96	1,249.91	1,354.09	1,266.43	87.65	15.448		
14,400.00	11,985.65	14,529.60	12,079.53	64.17	63.17	-94.12	-2,956.95	1,250.78	1,354.11	1,264.66	89.45	15.138		
14,500.00	11,986.73	14,629.60	12,080.84	65.44	64.47	-94.13	-3,056.94	1,251.66	1,354.13	1,262.86	91.27	14.837		
14,600.00	11,987.81	14,729.60	12,082.16	66.72	65.78	-94.14	-3,156.93	1,252.54	1,354.16	1,261.05	93.11	14.543		
14,700.00	11,988.89	14,829.60	12,083.47	68.02	67.12	-94.15	-3,256.91	1,253.42	1,354.18	1,259.20	94.98	14.258		
14,800.00	11,989.97	14,929.60	12,084.78	69.33	68.46	-94.16	-3,356.90	1,254.30	1,354.20	1,257.34	96.86	13.981		
14,900.00	11,991.05	15,029.60	12,086.09	70.66	69.82	-94.17	-3,456.89	1,255.18	1,354.23	1,255.46	98.76	13.712		
15,000.00	11,992.13	15,129.60	12,087.41	72.00	71.19	-94.18	-3,556.87	1,256.06	1,354.25	1,253.57	100.69	13.450		
15,100.00	11,993.21	15,229.60	12,088.72	73.35	72.57	-94.19	-3,656.86	1,256.94	1,354.28	1,251.65	102.62	13.196		
15,200.00	11,994.29	15,329.59	12,090.03	74.72	73.96	-94.20	-3,756.85	1,257.82	1,354.30	1,249.72	104.58	12.950		
15,300.00	11,995.37	15,429.59	12,091.35	76.10	75.37	-94.21	-3,856.84	1,258.70	1,354.32	1,247.78	106.55	12.711		
15,400.00	11,996.45	15,529.59	12,092.66	77.48	76.78	-94.22	-3,956.82	1,259.58	1,354.35	1,245.82	108.53	12.479		
15,500.00	11,997.54	15,629.59	12,093.97	78.88	78.21	-94.23	-4,056.81	1,260.46	1,354.37	1,243.84	110.53	12.253		
15,600.00	11,998.62	15,729.59	12,095.29	80.29	79.64	-94.24	-4,156.80	1,261.34	1,354.40	1,241.86	112.54	12.035		
15,700.00	11,999.70	15,829.59	12,096.60	81.71	81.08	-94.25	-4,256.79	1,262.21	1,354.42	1,239.86	114.56	11.823		
15,800.00	12,000.78	15,929.59	12,097.91	83.13	82.53	-94.26	-4,356.77	1,263.09	1,354.44	1,237.85	116.59	11.617		
15,900.00	12,001.86	16,029.59	12,099.23	84.57	83.98	-94.27	-4,456.76	1,263.97	1,354.47	1,235.83	118.64	11.417		
16,000.00	12,002.94	16,129.59	12,100.54	86.01	85.44	-94.28	-4,556.75	1,264.85	1,354.49	1,233.80	120.69	11.223		
16,100.00	12,004.02	16,229.59	12,101.85	87.46	86.91	-94.29	-4,656.73	1,265.73	1,354.52	1,231.76	122.76	11.034		
16,200.00	12,005.10	16,329.59	12,103.17	88.91	88.39	-94.30	-4,756.72	1,266.61	1,354.54	1,229.71	124.83	10.851		
16,300.00	12,006.18	16,429.59	12,104.48	90.38	89.87	-94.31	-4,856.71	1,267.49	1,354.57	1,227.65	126.91	10.673		
16,400.00	12,007.26	16,529.59	12,105.79	91.85	91.36	-94.32	-4,956.70	1,268.37	1,354.59	1,225.59	129.00	10.501		
16,500.00	12,008.34	16,629.59	12,107.11	93.32	92.85	-94.33	-5,056.68	1,269.25	1,354.61	1,223.51	131.10	10.333		
16,600.00	12,009.42	16,729.59	12,108.42	94.80	94.35	-94.34	-5,156.67	1,270.13	1,354.64	1,221.43	133.21	10.169		
16,700.00	12,010.50	16,829.59	12,109.73	96.29	95.85	-94.35	-5,256.66	1,271.01	1,354.66	1,219.34	135.32	10.011		
16,800.00	12,011.59	16,929.59	12,111.05	97.78	97.36	-94.36	-5,356.64	1,271.89	1,354.69	1,217.25	137.44	9.857		
16,900.00	12,012.67	17,029.59	12,112.36	99.28	98.88	-94.37	-5,456.63	1,272.77	1,354.71	1,215.14	139.57	9.706		
17,000.00	12,013.75	17,129.59	12,113.67	100.78	100.39	-94.38	-5,556.62	1,273.65	1,354.74	1,213.04	141.70	9.561		
17,100.00	12,014.83	17,229.59	12,114.98	102.29	101.91	-94.39	-5,656.61	1,274.52	1,354.76	1,210.92	143.84	9.418		
17,200.00	12,015.91	17,329.59	12,116.30	103.80	103.44	-94.40	-5,756.59	1,275.40	1,354.79	1,208.80	145.99	9.280		
17,300.00	12,016.99	17,429.59	12,117.61	105.32	104.97	-94.41	-5,856.58	1,276.28	1,354.81	1,206.68	148.14	9.146		
17,400.00	12,018.07	17,529.59	12,118.92	106.84	106.50	-94.42	-5,956.57	1,277.16	1,354.84	1,204.54	150.29	9.015		
17,500.00	12,019.15	17,629.59	12,120.24	108.36	108.04	-94.43	-6,056.56	1,278.04	1,354.86	1,202.41	152.45	8.887		
17,600.00	12,020.23	17,729.59	12,121.55	109.89	109.58	-94.44	-6,156.54	1,278.92	1,354.89	1,200.27	154.62	8.763		
17,700.00	12,021.31	17,829.59	12,122.86	111.42	111.12	-94.45	-6,256.53	1,279.80	1,354.91	1,198.12	156.79	8.642		
17,800.00	12,022.39	17,929.59	12,124.18	112.95	112.67	-94.46	-6,356.52	1,280.68	1,354.94	1,195.97	158.96	8.524		
17,900.00	12,023.47	18,029.59	12,125.49	114.49	114.22	-94.47	-6,456.50	1,281.56	1,354.96	1,193.82	161.14	8.409		
18,000.00	12,024.56	18,129.59	12,126.80	116.03	115.77	-94.48	-6,556.49	1,282.44	1,354.99	1,191.66	163.32	8.296		
18,100.00	12,025.64	18,229.59	12,128.12	117.57	117.32	-94.49	-6,656.48	1,283.32	1,355.01	1,189.50	165.51	8.187		
18,200.00	12,026.72	18,329.59	12,129.43	119.12	118.88	-94.50	-6,756.47	1,284.20	1,355.04	1,187.33	167.70	8.080		
18,300.00	12,027.80	18,429.59	12,130.74	120.67	120.44	-94.51	-6,856.45	1,285.08	1,355.06	1,185.17	169.90	7.976		
18,400.00	12,028.88	18,529.59	12,132.06	122.22	122.00	-94.52	-6,956.44	1,285.95	1,355.09	1,182.99	172.09	7.874		
18,500.00	12,029.96	18,629.59	12,133.37	123.78	123.57	-94.53	-7,056.43	1,286.83	1,355.11	1,180.82	174.29	7.775		
18,600.00	12,031.04	18,729.59	12,134.68	125.33	125.13	-94.54	-7,156.42	1,287.71	1,355.14	1,178.64	176.50	7.678		
18,700.00	12,032.12	18,829.59	12,136.00	126.89	126.70	-94.54	-7,256.40	1,288.59	1,355.16	1,176.46	178.70	7.583		
18,800.00	12,033.20	18,929.59	12,137.31	128.46	128.27	-94.55	-7,356.39	1,289.47	1,355.19	1,174.27	180.91	7.491		
18,900.00	12,034.28	19,029.59	12,138.62	130.02	129.85	-94.56	-7,456.38	1,290.35	1,355.21	1,172.09	183.13	7.400		
19,000.00	12,035.36	19,129.58	12,139.94	131.59	131.42	-94.57	-7,556.36	1,291.23	1,355.24	1,169.90	185.34	7.312		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
19,100.00	12,036.44	19,229.58	12,141.25	133.16	133.00	-94.58	-7,656.35	1,292.11	1,355.26	1,167.70	187.56	7.226		
19,200.00	12,037.52	19,329.58	12,142.56	134.73	134.58	-94.59	-7,756.34	1,292.99	1,355.29	1,165.51	189.78	7.141		
19,300.00	12,038.61	19,429.58	12,143.88	136.30	136.16	-94.60	-7,856.33	1,293.87	1,355.31	1,163.31	192.00	7.059		
19,400.00	12,039.69	19,529.58	12,145.19	137.87	137.74	-94.61	-7,956.31	1,294.75	1,355.34	1,161.11	194.23	6.978		
19,500.00	12,040.77	19,629.58	12,146.50	139.45	139.32	-94.62	-8,056.30	1,295.63	1,355.37	1,158.91	196.46	6.899		
19,600.00	12,041.85	19,729.58	12,147.81	141.03	140.91	-94.63	-8,156.29	1,296.51	1,355.39	1,156.70	198.69	6.822		
19,700.00	12,042.93	19,829.58	12,149.13	142.61	142.49	-94.64	-8,256.27	1,297.38	1,355.42	1,154.50	200.92	6.746		
19,800.00	12,044.01	19,929.58	12,150.44	144.19	144.08	-94.65	-8,356.26	1,298.26	1,355.44	1,152.29	203.15	6.672		
19,900.00	12,045.09	20,029.58	12,151.75	145.77	145.67	-94.66	-8,456.25	1,299.14	1,355.47	1,150.08	205.39	6.600		
20,000.00	12,046.17	20,129.58	12,153.07	147.35	147.26	-94.67	-8,556.24	1,300.02	1,355.49	1,147.87	207.63	6.529		
20,100.00	12,047.25	20,229.58	12,154.38	148.94	148.85	-94.68	-8,656.22	1,300.90	1,355.52	1,145.65	209.87	6.459		
20,200.00	12,048.33	20,329.58	12,155.69	150.53	150.45	-94.69	-8,756.21	1,301.78	1,355.55	1,143.44	212.11	6.391		
20,300.00	12,049.41	20,429.58	12,157.01	152.11	152.04	-94.70	-8,856.20	1,302.66	1,355.57	1,141.22	214.35	6.324		
20,400.00	12,050.49	20,529.58	12,158.32	153.70	153.64	-94.71	-8,956.19	1,303.54	1,355.60	1,139.00	216.60	6.259		
20,500.00	12,051.57	20,629.58	12,159.63	155.30	155.23	-94.72	-9,056.17	1,304.42	1,355.62	1,136.78	218.84	6.195		
20,600.00	12,052.66	20,729.58	12,160.95	156.89	156.83	-94.73	-9,156.16	1,305.30	1,355.65	1,134.56	221.09	6.132		
20,700.00	12,053.74	20,829.58	12,162.26	158.48	158.43	-94.74	-9,256.15	1,306.18	1,355.68	1,132.33	223.34	6.070		
20,800.00	12,054.82	20,929.58	12,163.57	160.08	160.03	-94.75	-9,356.13	1,307.06	1,355.70	1,130.11	225.59	6.010		
20,900.00	12,055.90	21,029.58	12,164.89	161.67	161.63	-94.76	-9,456.12	1,307.94	1,355.73	1,127.88	227.85	5.950		
21,000.00	12,056.98	21,129.58	12,166.20	163.27	163.24	-94.77	-9,556.11	1,308.81	1,355.75	1,125.65	230.10	5.892		
21,100.00	12,058.06	21,229.58	12,167.51	164.87	164.84	-94.78	-9,656.10	1,309.69	1,355.78	1,123.43	232.35	5.835		
21,200.00	12,059.14	21,329.58	12,168.83	166.47	166.44	-94.79	-9,756.08	1,310.57	1,355.81	1,121.20	234.61	5.779		
21,300.00	12,060.22	21,429.58	12,170.14	168.07	168.05	-94.80	-9,856.07	1,311.45	1,355.83	1,118.96	236.87	5.724		
21,400.00	12,061.30	21,529.58	12,171.45	169.67	169.65	-94.81	-9,956.06	1,312.33	1,355.86	1,116.73	239.13	5.670		
21,500.00	12,062.38	21,629.58	12,172.77	171.27	171.26	-94.82	-10,056.05	1,313.21	1,355.89	1,114.50	241.39	5.617		
21,600.00	12,063.46	21,729.58	12,174.08	172.87	172.87	-94.83	-10,156.03	1,314.09	1,355.91	1,112.26	243.65	5.565		
21,700.00	12,064.54	21,829.58	12,175.39	174.48	174.48	-94.84	-10,256.02	1,314.97	1,355.94	1,110.03	245.91	5.514		
21,800.00	12,065.62	21,929.58	12,176.71	176.08	176.09	-94.85	-10,356.01	1,315.85	1,355.96	1,107.79	248.17	5.464		
21,900.00	12,066.71	22,029.58	12,178.02	177.69	177.70	-94.86	-10,455.99	1,316.73	1,355.99	1,105.55	250.44	5.414		
22,000.00	12,067.79	22,129.58	12,179.33	179.30	179.31	-94.87	-10,555.98	1,317.61	1,356.02	1,103.31	252.70	5.366		
22,100.31	12,068.87	22,229.88	12,180.65	180.91	180.92	-94.88	-10,656.28	1,318.49	1,356.04	1,101.07	254.98	5.318		
22,210.01	12,068.88	22,230.58	12,180.66	180.92	180.94	-94.88	-10,656.98	1,318.50	1,356.04	1,101.05	254.99	5.318	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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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	87.68	80.51	1,990.77	1,992.40					
100.00	100.00	96.50	96.50	0.14	0.12	87.68	80.51	1,990.77	1,992.40	1,992.21	0.19	N/A		
200.00	200.00	196.50	196.50	0.50	0.47	87.68	80.51	1,990.77	1,992.40	1,991.71	0.69	2,899.197		
300.00	300.00	296.50	296.50	0.86	0.83	87.68	80.51	1,990.77	1,992.40	1,991.20	1.19	1,668.602		
400.00	400.00	396.50	396.50	1.22	1.19	87.68	80.51	1,990.77	1,992.40	1,990.70	1.70	1,171.340		
500.00	500.00	496.50	496.50	1.58	1.55	87.68	80.51	1,990.77	1,992.40	1,990.19	2.21	902.401		
600.00	600.00	596.50	596.50	1.93	1.91	87.68	80.51	1,990.77	1,992.40	1,989.68	2.71	733.896		
700.00	700.00	696.50	696.50	2.29	2.26	87.68	80.51	1,990.77	1,992.40	1,989.18	3.22	618.418		
800.00	800.00	796.50	796.50	2.65	2.62	87.68	80.51	1,990.77	1,992.40	1,988.67	3.73	534.339		
900.00	900.00	896.50	896.50	3.01	2.98	87.68	80.51	1,990.77	1,992.40	1,988.16	4.24	470.386		
1,000.00	1,000.00	996.50	996.50	3.37	3.34	87.68	80.51	1,990.77	1,992.40	1,987.65	4.74	420.106		
1,100.00	1,100.00	1,096.50	1,096.50	3.73	3.70	87.68	80.51	1,990.77	1,992.40	1,987.15	5.25	379.536		
1,200.00	1,200.00	1,196.50	1,196.50	4.08	4.06	87.68	80.51	1,990.77	1,992.40	1,986.64	5.76	346.112		
1,300.00	1,300.00	1,296.50	1,296.50	4.44	4.41	87.68	80.51	1,990.77	1,992.40	1,986.13	6.26	318.098		
1,400.00	1,400.00	1,396.50	1,396.50	4.80	4.77	87.68	80.51	1,990.77	1,992.40	1,985.63	6.77	294.280		
1,500.00	1,500.00	1,496.50	1,496.50	5.16	5.13	87.68	80.51	1,990.77	1,992.40	1,985.12	7.28	273.780		
1,600.00	1,600.00	1,596.50	1,596.50	5.52	5.49	87.68	80.51	1,990.77	1,992.40	1,984.61	7.78	255.950		
1,700.00	1,700.00	1,696.50	1,696.50	5.88	5.85	87.68	80.51	1,990.77	1,992.40	1,984.11	8.29	240.300		
1,800.00	1,800.00	1,796.50	1,796.50	6.24	6.21	87.68	80.51	1,990.77	1,992.40	1,983.60	8.80	226.454		
1,900.00	1,900.00	1,896.50	1,896.50	6.59	6.57	87.68	80.51	1,990.77	1,992.40	1,983.09	9.31	214.117		
2,000.00	2,000.00	1,996.50	1,996.50	6.95	6.92	87.68	80.51	1,990.77	1,992.40	1,982.59	9.81	203.054		
2,100.00	2,100.00	2,096.50	2,096.50	7.31	7.28	87.68	80.51	1,990.77	1,992.40	1,982.08	10.32	193.079		
2,200.00	2,200.00	2,196.50	2,196.50	7.67	7.64	87.68	80.51	1,990.77	1,992.40	1,981.57	10.83	184.037		
2,300.00	2,300.00	2,296.50	2,296.50	8.03	8.00	87.68	80.51	1,990.77	1,992.40	1,981.06	11.33	175.805		
2,400.00	2,400.00	2,396.50	2,396.50	8.39	8.36	87.68	80.51	1,990.77	1,992.40	1,980.56	11.84	168.277		
2,500.00	2,500.00	2,496.50	2,496.50	8.74	8.72	87.68	80.51	1,990.77	1,992.40	1,980.05	12.35	161.368		
2,600.00	2,600.00	2,596.50	2,596.50	9.10	9.07	87.68	80.51	1,990.77	1,992.40	1,979.54	12.85	155.004		
2,613.96	2,613.96	2,610.46	2,610.46	9.15	9.12	87.68	80.51	1,990.77	1,992.40	1,979.47	12.92	154.155 CC		
2,700.00	2,700.00	2,694.11	2,694.11	9.46	9.42	87.68	80.51	1,990.77	1,992.40	1,979.05	13.35	149.195 ES		
2,800.00	2,800.00	2,762.27	2,762.27	9.82	9.65	87.69	80.22	1,991.41	1,993.32	1,979.55	13.77	144.782		
2,900.00	2,900.00	2,830.38	2,830.35	10.18	9.88	87.72	79.44	1,993.16	1,995.84	1,981.66	14.18	140.767		
3,000.00	3,000.00	2,900.00	2,899.89	10.54	10.11	87.76	78.13	1,996.09	1,999.95	1,985.36	14.59	137.073		
3,100.00	3,100.00	2,966.30	2,966.05	10.90	10.34	87.81	76.39	1,999.95	2,005.66	1,990.66	14.99	133.786		
3,200.00	3,200.00	3,034.01	3,033.54	11.25	10.57	87.88	74.14	2,004.98	2,012.96	1,997.56	15.39	130.767		
3,300.00	3,300.00	3,100.00	3,099.21	11.61	10.80	87.96	71.47	2,010.93	2,021.85	2,006.06	15.79	128.068		
3,400.00	3,400.00	3,168.75	3,167.49	11.97	11.03	88.06	68.20	2,018.23	2,032.32	2,016.14	16.19	125.556		
3,500.00	3,500.00	3,235.69	3,233.83	12.33	11.27	88.18	64.53	2,026.41	2,044.38	2,027.80	16.58	123.325		
3,600.00	3,600.00	3,300.00	3,297.40	12.69	11.50	88.30	60.56	2,035.27	2,058.02	2,041.06	16.96	121.374		
3,700.00	3,700.00	3,368.53	3,364.96	13.05	11.74	88.44	55.85	2,045.78	2,073.22	2,055.88	17.35	119.524		
3,720.00	3,720.00	3,395.17	3,391.15	13.12	11.84	88.49	53.88	2,050.17	2,076.52	2,059.05	17.47	118.881		
3,800.00	3,799.99	3,453.77	3,448.75	13.39	12.06	-113.43	49.48	2,059.99	2,090.06	2,072.28	17.78	117.547		
3,900.00	3,899.93	3,552.02	3,545.33	13.72	12.42	-113.05	42.09	2,076.48	2,108.03	2,089.79	18.25	115.525		
4,000.00	3,999.75	3,650.17	3,641.81	14.04	12.80	-112.72	34.71	2,092.94	2,127.02	2,108.31	18.72	113.642		
4,053.02	4,052.60	3,702.15	3,692.90	14.21	13.00	-112.57	30.80	2,101.66	2,137.50	2,118.53	18.97	112.697		
4,100.00	4,099.40	3,748.18	3,738.15	14.37	13.17	-112.57	27.34	2,109.38	2,146.90	2,127.71	19.19	111.882		
4,200.00	4,199.02	3,846.15	3,834.45	14.70	13.56	-112.58	19.97	2,125.81	2,166.91	2,147.25	19.66	110.196		
4,300.00	4,298.64	3,944.13	3,930.76	15.03	13.94	-112.59	12.60	2,142.25	2,186.93	2,166.79	20.14	108.571		
4,400.00	4,398.26	4,042.11	4,027.07	15.36	14.33	-112.59	5.24	2,158.68	2,206.94	2,186.32	20.62	107.004		
4,500.00	4,497.88	4,140.08	4,123.37	15.70	14.73	-112.60	-2.13	2,175.12	2,226.96	2,205.85	21.11	105.493		
4,600.00	4,597.50	4,238.06	4,219.68	16.04	15.13	-112.61	-9.50	2,191.55	2,246.97	2,225.37	21.60	104.037		
4,700.00	4,697.12	4,336.04	4,315.99	16.38	15.53	-112.61	-16.87	2,207.99	2,266.99	2,244.90	22.09	102.633		
4,800.00	4,796.74	4,434.01	4,412.29	16.73	15.93	-112.62	-24.23	2,224.42	2,287.00	2,264.42	22.58	101.278		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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				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	4,896.36	4,531.99	4,508.60	17.07	16.34	-112.63	-31.60	2,240.86	2,307.02	2,283.94	23.08	99.972		
5,000.00	4,995.98	4,629.97	4,604.91	17.42	16.75	-112.63	-38.97	2,257.29	2,327.03	2,303.46	23.57	98.711		
5,100.00	5,095.60	4,727.94	4,701.21	17.77	17.16	-112.64	-46.34	2,273.72	2,347.04	2,322.97	24.07	97.493		
5,200.00	5,195.22	4,825.92	4,797.52	18.12	17.58	-112.65	-53.70	2,290.16	2,367.06	2,342.48	24.58	96.318		
5,300.00	5,294.84	4,923.89	4,893.83	18.47	18.00	-112.65	-61.07	2,306.59	2,387.07	2,362.00	25.08	95.183		
5,400.00	5,394.46	5,021.87	4,990.13	18.82	18.41	-112.66	-68.44	2,323.03	2,407.09	2,381.50	25.58	94.086		
5,500.00	5,494.08	5,119.85	5,086.44	19.18	18.83	-112.67	-75.80	2,339.46	2,427.10	2,401.01	26.09	93.026		
5,600.00	5,593.70	5,217.82	5,182.75	19.53	19.26	-112.67	-83.17	2,355.90	2,447.12	2,420.52	26.60	92.001		
5,700.00	5,693.32	5,315.80	5,279.05	19.89	19.68	-112.68	-90.54	2,372.33	2,467.13	2,440.02	27.11	91.009		
5,800.00	5,792.94	5,413.78	5,375.36	20.25	20.11	-112.68	-97.91	2,388.77	2,487.15	2,459.53	27.62	90.050		
5,900.00	5,892.56	5,511.75	5,471.67	20.61	20.53	-112.69	-105.27	2,405.20	2,507.16	2,479.03	28.13	89.122		
6,000.00	5,992.18	5,609.73	5,567.97	20.97	20.96	-112.69	-112.64	2,421.64	2,527.18	2,498.53	28.65	88.222		
6,100.00	6,091.80	5,707.70	5,664.28	21.33	21.39	-112.70	-120.01	2,438.07	2,547.19	2,518.03	29.16	87.352		
6,200.00	6,191.42	5,805.68	5,760.59	21.69	21.82	-112.70	-127.38	2,454.50	2,567.21	2,537.53	29.68	86.508		
6,300.00	6,291.04	5,903.66	5,856.89	22.05	22.25	-112.71	-134.74	2,470.94	2,587.22	2,557.03	30.19	85.689		
6,400.00	6,390.66	6,001.63	5,953.20	22.42	22.69	-112.72	-142.11	2,487.37	2,607.24	2,576.53	30.71	84.896		
6,500.00	6,490.28	6,099.61	6,049.51	22.78	23.12	-112.72	-149.48	2,503.81	2,627.25	2,596.02	31.23	84.126		
6,600.00	6,589.90	6,197.59	6,145.81	23.15	23.55	-112.73	-156.85	2,520.24	2,647.27	2,615.52	31.75	83.380		
6,700.00	6,689.52	6,295.56	6,242.12	23.51	23.99	-112.73	-164.21	2,536.68	2,667.28	2,635.01	32.27	82.655		
6,800.00	6,789.14	6,393.54	6,338.43	23.88	24.43	-112.74	-171.58	2,553.11	2,687.30	2,654.51	32.79	81.950		
6,900.00	6,888.77	6,491.51	6,434.73	24.24	24.86	-112.74	-178.95	2,569.55	2,707.31	2,674.00	33.31	81.267		
7,000.00	6,988.39	6,589.49	6,531.04	24.61	25.30	-112.74	-186.32	2,585.98	2,727.33	2,693.49	33.84	80.602		
7,100.00	7,088.01	6,687.47	6,627.35	24.98	25.74	-112.75	-193.68	2,602.41	2,747.34	2,712.98	34.36	79.956		
7,200.00	7,187.63	6,785.44	6,723.65	25.35	26.18	-112.75	-201.05	2,618.85	2,767.36	2,732.47	34.89	79.327		
7,300.00	7,287.25	6,883.42	6,819.96	25.72	26.62	-112.76	-208.42	2,635.28	2,787.37	2,751.96	35.41	78.716		
7,400.00	7,386.87	6,981.40	6,916.27	26.09	27.06	-112.76	-215.79	2,651.72	2,807.39	2,771.45	35.94	78.121		
7,455.75	7,442.40	7,036.01	6,969.96	26.29	27.30	-112.77	-219.89	2,660.88	2,818.55	2,782.32	36.23	77.797		
7,500.00	7,486.51	7,079.39	7,012.59	26.46	27.50	-112.89	-223.15	2,668.16	2,827.31	2,790.84	36.46	77.541		
7,600.00	7,586.31	7,177.53	7,109.06	26.82	27.94	-113.11	-230.53	2,684.62	2,846.38	2,809.39	36.98	76.962		
7,700.00	7,686.24	7,275.78	7,205.64	27.18	28.39	-113.27	-237.92	2,701.10	2,864.45	2,826.95	37.50	76.383		
7,788.77	7,775.00	7,363.04	7,291.40	27.48	28.78	88.86	-244.48	2,715.73	2,879.64	2,841.69	37.95	75.871		
7,800.00	7,786.23	7,374.08	7,302.26	27.52	28.83	88.87	-245.31	2,717.59	2,881.52	2,843.50	38.01	75.807		
7,900.00	7,886.23	7,574.22	7,499.68	27.86	29.70	89.15	-258.70	2,747.45	2,896.24	2,857.34	38.91	74.442		
8,000.00	7,986.23	7,948.95	7,872.69	28.20	31.14	89.44	-272.69	2,778.66	2,903.92	2,863.68	40.24	72.167		
8,100.00	8,086.23	8,159.05	8,082.73	28.55	31.82	89.47	-274.05	2,781.69	2,904.86	2,863.90	40.96	70.918		
8,200.00	8,186.23	8,259.05	8,182.73	28.89	32.13	89.47	-274.05	2,781.69	2,904.86	2,863.42	41.44	70.103		
8,300.00	8,286.23	8,359.05	8,282.73	29.23	32.44	89.47	-274.05	2,781.69	2,904.86	2,862.94	41.91	69.305		
8,400.00	8,386.23	8,459.05	8,382.73	29.58	32.76	89.47	-274.05	2,781.69	2,904.86	2,862.47	42.39	68.525		
8,500.00	8,486.23	8,559.05	8,482.73	29.92	33.07	89.47	-274.05	2,781.69	2,904.86	2,861.99	42.87	67.760		
8,600.00	8,586.23	8,659.05	8,582.73	30.26	33.39	89.47	-274.05	2,781.69	2,904.86	2,861.51	43.35	67.012		
8,700.00	8,686.23	8,759.05	8,682.73	30.61	33.70	89.47	-274.05	2,781.69	2,904.86	2,861.03	43.83	66.279		
8,800.00	8,786.23	8,859.05	8,782.73	30.95	34.02	89.47	-274.05	2,781.69	2,904.86	2,860.55	44.31	65.560		
8,900.00	8,886.23	8,959.05	8,882.73	31.30	34.33	89.47	-274.05	2,781.69	2,904.86	2,860.07	44.79	64.857		
9,000.00	8,986.23	9,059.05	8,982.73	31.64	34.65	89.47	-274.05	2,781.69	2,904.86	2,859.59	45.27	64.167		
9,100.00	9,086.23	9,159.05	9,082.73	31.99	34.97	89.47	-274.05	2,781.69	2,904.86	2,859.10	45.75	63.491		
9,200.00	9,186.23	9,259.05	9,182.73	32.33	35.29	89.47	-274.05	2,781.69	2,904.86	2,858.62	46.23	62.829		
9,300.00	9,286.23	9,359.05	9,282.73	32.68	35.61	89.47	-274.05	2,781.69	2,904.86	2,858.14	46.72	62.179		
9,400.00	9,386.23	9,459.05	9,382.73	33.03	35.93	89.47	-274.05	2,781.69	2,904.86	2,857.66	47.20	61.543		
9,500.00	9,486.23	9,559.05	9,482.73	33.37	36.25	89.47	-274.05	2,781.69	2,904.86	2,857.17	47.68	60.918		
9,600.00	9,586.23	9,659.05	9,582.73	33.72	36.58	89.47	-274.05	2,781.69	2,904.86	2,856.69	48.17	60.306		
9,700.00	9,686.23	9,759.05	9,682.73	34.07	36.90	89.47	-274.05	2,781.69	2,904.86	2,856.20	48.65	59.705		
9,800.00	9,786.23	9,859.05	9,782.73	34.42	37.22	89.47	-274.05	2,781.69	2,904.86	2,855.72	49.14	59.115		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
9,900.00	9,886.23	9,959.05	9,882.73	34.76	37.55	89.47	-274.05	2,781.69	2,904.86	2,855.23	49.62	58.536		
10,000.00	9,986.23	10,059.05	9,982.73	35.11	37.87	89.47	-274.05	2,781.69	2,904.86	2,854.75	50.11	57.969		
10,100.00	10,086.23	10,159.05	10,082.73	35.46	38.20	89.47	-274.05	2,781.69	2,904.86	2,854.26	50.60	57.411		
10,200.00	10,186.23	10,259.05	10,182.73	35.81	38.52	89.47	-274.05	2,781.69	2,904.86	2,853.77	51.08	56.864		
10,300.00	10,286.23	10,359.05	10,282.73	36.16	38.85	89.47	-274.05	2,781.69	2,904.86	2,853.28	51.57	56.327		
10,400.00	10,386.23	10,459.05	10,382.73	36.50	39.18	89.47	-274.05	2,781.69	2,904.86	2,852.80	52.06	55.799		
10,500.00	10,486.23	10,559.05	10,482.73	36.85	39.51	89.47	-274.05	2,781.69	2,904.86	2,852.31	52.55	55.281		
10,600.00	10,586.23	10,659.05	10,582.73	37.20	39.84	89.47	-274.05	2,781.69	2,904.86	2,851.82	53.04	54.772		
10,700.00	10,686.23	10,759.05	10,682.73	37.55	40.16	89.47	-274.05	2,781.69	2,904.86	2,851.33	53.52	54.271		
10,800.00	10,786.23	10,859.05	10,782.73	37.90	40.49	89.47	-274.05	2,781.69	2,904.86	2,850.84	54.01	53.780		
10,900.00	10,886.23	10,959.05	10,882.73	38.25	40.82	89.47	-274.05	2,781.69	2,904.86	2,850.35	54.50	53.297		
11,000.00	10,986.23	11,059.05	10,982.73	38.60	41.15	89.47	-274.05	2,781.69	2,904.86	2,849.86	54.99	52.822		
11,100.00	11,086.23	11,159.05	11,082.73	38.95	41.48	89.47	-274.05	2,781.69	2,904.86	2,849.37	55.48	52.356		
11,200.00	11,186.23	11,259.05	11,182.73	39.30	41.82	89.47	-274.05	2,781.69	2,904.86	2,848.88	55.97	51.897		
11,214.66	11,200.89	11,273.71	11,197.39	39.35	41.86	89.47	-274.05	2,781.69	2,904.86	2,848.81	56.05	51.831		
11,300.00	11,286.23	11,359.03	11,282.72	39.65	42.15	89.47	-274.08	2,781.69	2,904.86	2,848.39	56.46	51.446		
11,300.78	11,287.02	11,359.81	11,283.50	39.65	42.15	89.47	-274.09	2,781.69	2,904.86	2,848.39	56.47	51.443		
11,403.77	11,390.00	11,461.25	11,384.30	40.01	42.49	89.67	-284.19	2,781.79	2,904.88	2,847.91	56.97	50.987		
11,450.00	11,436.18	11,505.45	11,427.35	40.18	42.65	-89.67	-294.13	2,781.89	2,904.93	2,847.73	57.20	50.784		
11,500.00	11,485.78	11,552.57	11,472.27	40.36	42.82	-89.49	-308.35	2,782.03	2,905.01	2,847.56	57.46	50.561		
11,550.00	11,534.65	11,600.00	11,516.14	40.54	43.00	-89.31	-326.34	2,782.20	2,905.13	2,847.41	57.72	50.333		
11,600.00	11,582.42	11,644.93	11,556.19	40.73	43.16	-89.15	-346.67	2,782.40	2,905.27	2,847.28	57.98	50.106		
11,650.00	11,628.72	11,690.26	11,594.86	40.93	43.33	-88.99	-370.30	2,782.63	2,905.43	2,847.17	58.26	49.874		
11,700.00	11,673.21	11,735.08	11,631.14	41.13	43.51	-88.84	-396.60	2,782.89	2,905.61	2,847.07	58.53	49.640		
11,750.00	11,715.54	11,779.45	11,664.92	41.33	43.68	-88.69	-425.34	2,783.17	2,905.80	2,846.98	58.82	49.403		
11,800.00	11,755.40	11,823.40	11,696.09	41.54	43.85	-88.56	-456.31	2,783.48	2,906.00	2,846.89	59.11	49.163		
11,850.00	11,792.47	11,866.98	11,724.57	41.76	44.02	-88.43	-489.28	2,783.80	2,906.20	2,846.80	59.41	48.920		
11,900.00	11,826.48	11,910.23	11,750.27	41.98	44.20	-88.31	-524.05	2,784.14	2,906.41	2,846.70	59.71	48.674		
11,950.00	11,857.17	11,950.00	11,771.53	42.21	44.37	-88.22	-557.65	2,784.47	2,906.61	2,846.59	60.01	48.432		
12,000.00	11,884.30	11,995.90	11,793.10	42.45	44.57	-88.12	-598.15	2,784.87	2,906.79	2,846.45	60.34	48.170		
12,050.00	11,907.67	12,038.40	11,810.12	42.69	44.76	-88.04	-637.08	2,785.25	2,906.97	2,846.30	60.67	47.912		
12,100.00	11,927.10	12,080.72	11,824.16	42.94	44.95	-87.97	-677.00	2,785.64	2,907.12	2,846.12	61.01	47.652		
12,150.00	11,942.45	12,122.91	11,835.18	43.19	45.16	-87.92	-717.70	2,786.04	2,907.26	2,845.91	61.35	47.389		
12,200.00	11,953.59	12,164.99	11,843.16	43.45	45.36	-87.88	-759.01	2,786.44	2,907.38	2,845.68	61.70	47.125		
12,250.00	11,960.44	12,207.00	11,848.09	43.71	45.58	-87.85	-800.72	2,786.85	2,907.47	2,845.42	62.05	46.860		
12,297.58	11,962.92	12,247.84	11,849.96	43.97	45.79	-87.84	-841.50	2,787.25	2,907.53	2,845.15	62.39	46.606		
12,300.00	11,962.95	12,250.26	11,850.01	43.98	45.80	-87.84	-843.93	2,787.28	2,907.53	2,845.13	62.40	46.592		
12,400.00	11,964.03	12,350.26	11,851.93	44.54	46.36	-87.86	-943.90	2,788.26	2,907.61	2,844.40	63.21	46.000		
12,500.00	11,965.11	12,450.26	11,853.85	45.15	46.96	-87.88	-1,043.87	2,789.24	2,907.68	2,843.60	64.09	45.372		
12,600.00	11,966.19	12,550.25	11,855.77	45.81	47.62	-87.89	-1,143.85	2,790.22	2,907.76	2,842.73	65.03	44.711		
12,700.00	11,967.27	12,650.25	11,857.70	46.52	48.32	-87.91	-1,243.82	2,791.20	2,907.84	2,841.79	66.05	44.023		
12,800.00	11,968.35	12,750.24	11,859.62	47.28	49.07	-87.93	-1,343.79	2,792.18	2,907.92	2,840.78	67.14	43.314		
12,900.00	11,969.44	12,850.24	11,861.54	48.09	49.86	-87.94	-1,443.77	2,793.16	2,907.99	2,839.71	68.28	42.588		
13,000.00	11,970.52	12,950.24	11,863.47	48.93	50.69	-87.96	-1,543.74	2,794.14	2,908.07	2,838.58	69.49	41.850		
13,100.00	11,971.60	13,050.23	11,865.39	49.82	51.56	-87.98	-1,643.71	2,795.12	2,908.15	2,837.40	70.75	41.104		
13,200.00	11,972.68	13,150.23	11,867.31	50.75	52.48	-87.99	-1,743.69	2,796.10	2,908.23	2,836.16	72.07	40.355		
13,300.00	11,973.76	13,250.23	11,869.24	51.71	53.42	-88.01	-1,843.66	2,797.08	2,908.31	2,834.87	73.43	39.605		
13,400.00	11,974.84	13,350.22	11,871.16	52.70	54.40	-88.03	-1,943.63	2,798.06	2,908.38	2,833.54	74.85	38.857		
13,500.00	11,975.92	13,450.22	11,873.08	53.73	55.41	-88.04	-2,043.61	2,799.04	2,908.46	2,832.16	76.31	38.115		
13,600.00	11,977.00	13,550.22	11,875.01	54.79	56.46	-88.06	-2,143.58	2,800.02	2,908.54	2,830.73	77.81	37.380		
13,700.00	11,978.08	13,650.21	11,876.93	55.88	57.53	-88.08	-2,243.55	2,801.00	2,908.62	2,829.27	79.35	36.654		
13,800.00	11,979.16	13,750.21	11,878.85	56.99	58.63	-88.09	-2,343.52	2,801.98	2,908.70	2,827.77	80.94	35.939		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
13,900.00	11,980.24	13,850.20	11,880.78	58.13	59.75	-88.11	-2,443.50	2,802.96	2,908.78	2,826.23	82.55	35.236		
14,000.00	11,981.32	13,950.20	11,882.70	59.30	60.90	-88.13	-2,543.47	2,803.94	2,908.86	2,824.66	84.20	34.546		
14,100.00	11,982.40	14,050.20	11,884.62	60.48	62.07	-88.14	-2,643.44	2,804.92	2,908.94	2,823.06	85.88	33.870		
14,200.00	11,983.49	14,150.19	11,886.55	61.69	63.26	-88.16	-2,743.42	2,805.90	2,909.02	2,821.43	87.60	33.209		
14,300.00	11,984.57	14,250.19	11,888.47	62.92	64.47	-88.18	-2,843.39	2,806.88	2,909.10	2,819.77	89.34	32.563		
14,400.00	11,985.65	14,350.19	11,890.39	64.17	65.70	-88.19	-2,943.36	2,807.86	2,909.19	2,818.08	91.11	31.932		
14,500.00	11,986.73	14,450.18	11,892.32	65.44	66.95	-88.21	-3,043.34	2,808.84	2,909.27	2,816.37	92.90	31.317		
14,600.00	11,987.81	14,550.18	11,894.24	66.72	68.22	-88.23	-3,143.31	2,809.82	2,909.35	2,814.64	94.71	30.717		
14,700.00	11,988.89	14,650.18	11,896.16	68.02	69.50	-88.24	-3,243.28	2,810.80	2,909.43	2,812.88	96.55	30.133		
14,800.00	11,989.97	14,750.17	11,898.09	69.33	70.80	-88.26	-3,343.26	2,811.78	2,909.51	2,811.10	98.41	29.565		
14,900.00	11,991.05	14,850.17	11,900.01	70.66	72.11	-88.28	-3,443.23	2,812.76	2,909.60	2,809.30	100.29	29.012		
15,000.00	11,992.13	14,950.17	11,901.93	72.00	73.44	-88.29	-3,543.20	2,813.74	2,909.68	2,807.49	102.19	28.473		
15,100.00	11,993.21	15,050.16	11,903.85	73.35	74.78	-88.31	-3,643.18	2,814.72	2,909.76	2,805.66	104.11	27.950		
15,200.00	11,994.29	15,150.16	11,905.78	74.72	76.13	-88.33	-3,743.15	2,815.70	2,909.84	2,803.81	106.04	27.442		
15,300.00	11,995.37	15,250.15	11,907.70	76.10	77.49	-88.34	-3,843.12	2,816.68	2,909.93	2,801.94	107.99	26.947		
15,400.00	11,996.45	15,350.15	11,909.62	77.48	78.87	-88.36	-3,943.09	2,817.66	2,910.01	2,800.06	109.95	26.467		
15,500.00	11,997.54	15,450.15	11,911.55	78.88	80.25	-88.38	-4,043.07	2,818.64	2,910.10	2,798.17	111.93	26.000		
15,600.00	11,998.62	15,550.14	11,913.47	80.29	81.65	-88.39	-4,143.04	2,819.62	2,910.18	2,796.26	113.92	25.546		
15,700.00	11,999.70	15,650.14	11,915.39	81.71	83.05	-88.41	-4,243.01	2,820.60	2,910.26	2,794.34	115.93	25.105		
15,800.00	12,000.78	15,750.14	11,917.32	83.13	84.46	-88.43	-4,342.99	2,821.58	2,910.35	2,792.41	117.94	24.676		
15,900.00	12,001.86	15,850.13	11,919.24	84.57	85.89	-88.44	-4,442.96	2,822.56	2,910.43	2,790.46	119.97	24.260		
16,000.00	12,002.94	15,950.13	11,921.16	86.01	87.32	-88.46	-4,542.93	2,823.54	2,910.52	2,788.51	122.01	23.855		
16,100.00	12,004.02	16,050.13	11,923.09	87.46	88.75	-88.48	-4,642.91	2,824.52	2,910.60	2,786.54	124.06	23.461		
16,200.00	12,005.10	16,150.12	11,925.01	88.91	90.20	-88.49	-4,742.88	2,825.50	2,910.69	2,784.57	126.12	23.079		
16,300.00	12,006.18	16,250.12	11,926.93	90.38	91.65	-88.51	-4,842.85	2,826.48	2,910.78	2,782.59	128.19	22.707		
16,400.00	12,007.26	16,350.11	11,928.86	91.85	93.11	-88.53	-4,942.83	2,827.46	2,910.86	2,780.59	130.27	22.345		
16,500.00	12,008.34	16,450.11	11,930.78	93.32	94.57	-88.54	-5,042.80	2,828.44	2,910.95	2,778.59	132.35	21.994		
16,600.00	12,009.42	16,550.11	11,932.70	94.80	96.04	-88.56	-5,142.77	2,829.43	2,911.04	2,776.59	134.45	21.651		
16,700.00	12,010.50	16,650.10	11,934.63	96.29	97.52	-88.58	-5,242.74	2,830.41	2,911.12	2,774.57	136.55	21.319		
16,800.00	12,011.59	16,750.10	11,936.55	97.78	99.00	-88.59	-5,342.72	2,831.39	2,911.21	2,772.55	138.66	20.995		
16,900.00	12,012.67	16,850.10	11,938.47	99.28	100.49	-88.61	-5,442.69	2,832.37	2,911.30	2,770.52	140.78	20.680		
17,000.00	12,013.75	16,950.09	11,940.40	100.78	101.98	-88.63	-5,542.66	2,833.35	2,911.38	2,768.48	142.91	20.373		
17,100.00	12,014.83	17,050.09	11,942.32	102.29	103.48	-88.64	-5,642.64	2,834.33	2,911.47	2,766.44	145.04	20.074		
17,200.00	12,015.91	17,150.09	11,944.24	103.80	104.98	-88.66	-5,742.61	2,835.31	2,911.56	2,764.39	147.17	19.783		
17,300.00	12,016.99	17,250.08	11,946.17	105.32	106.49	-88.68	-5,842.58	2,836.29	2,911.65	2,762.33	149.32	19.500		
17,400.00	12,018.07	17,350.08	11,948.09	106.84	108.00	-88.69	-5,942.56	2,837.27	2,911.74	2,760.27	151.47	19.224		
17,500.00	12,019.15	17,450.07	11,950.01	108.36	109.51	-88.71	-6,042.53	2,838.25	2,911.83	2,758.21	153.62	18.955		
17,600.00	12,020.23	17,550.07	11,951.93	109.89	111.03	-88.73	-6,142.50	2,839.23	2,911.91	2,756.14	155.78	18.693		
17,700.00	12,021.31	17,650.07	11,953.86	111.42	112.56	-88.74	-6,242.48	2,840.21	2,912.00	2,754.06	157.94	18.437		
17,800.00	12,022.39	17,750.06	11,955.78	112.95	114.08	-88.76	-6,342.45	2,841.19	2,912.09	2,751.98	160.11	18.188		
17,900.00	12,023.47	17,850.06	11,957.70	114.49	115.61	-88.78	-6,442.42	2,842.17	2,912.18	2,749.90	162.29	17.945		
18,000.00	12,024.56	17,950.06	11,959.63	116.03	117.14	-88.79	-6,542.39	2,843.15	2,912.27	2,747.81	164.47	17.707		
18,100.00	12,025.64	18,050.05	11,961.55	117.57	118.68	-88.81	-6,642.37	2,844.13	2,912.36	2,745.71	166.65	17.476		
18,200.00	12,026.72	18,150.05	11,963.47	119.12	120.22	-88.83	-6,742.34	2,845.11	2,912.45	2,743.62	168.84	17.250		
18,300.00	12,027.80	18,250.05	11,965.40	120.67	121.76	-88.84	-6,842.31	2,846.09	2,912.55	2,741.52	171.03	17.030		
18,400.00	12,028.88	18,350.04	11,967.32	122.22	123.31	-88.86	-6,942.29	2,847.07	2,912.64	2,739.41	173.22	16.814		
18,500.00	12,029.96	18,450.04	11,969.24	123.78	124.85	-88.87	-7,042.26	2,848.05	2,912.73	2,737.31	175.42	16.604		
18,600.00	12,031.04	18,550.04	11,971.17	125.33	126.40	-88.89	-7,142.23	2,849.03	2,912.82	2,735.20	177.62	16.399		
18,700.00	12,032.12	18,650.03	11,973.09	126.89	127.96	-88.91	-7,242.21	2,850.01	2,912.91	2,733.08	179.83	16.198		
18,800.00	12,033.20	18,750.03	11,975.01	128.46	129.51	-88.92	-7,342.18	2,850.99	2,913.00	2,730.97	182.04	16.002		
18,900.00	12,034.28	18,850.02	11,976.94	130.02	131.07	-88.94	-7,442.15	2,851.97	2,913.10	2,728.85	184.25	15.811		
19,000.00	12,035.36	18,950.02	11,978.86	131.59	132.63	-88.96	-7,542.13	2,852.95	2,913.19	2,726.72	186.46	15.623		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
19,100.00	12,036.44	19,050.02	11,980.78	133.16	134.19	-88.97	-7,642.10	2,853.93	2,913.28	2,724.60	188.68	15.440		
19,200.00	12,037.52	19,150.01	11,982.71	134.73	135.76	-88.99	-7,742.07	2,854.91	2,913.37	2,722.47	190.90	15.261		
19,300.00	12,038.61	19,250.01	11,984.63	136.30	137.32	-89.01	-7,842.05	2,855.89	2,913.47	2,720.34	193.13	15.086		
19,400.00	12,039.69	19,350.01	11,986.55	137.87	138.89	-89.02	-7,942.02	2,856.87	2,913.56	2,718.21	195.35	14.914		
19,500.00	12,040.77	19,450.00	11,988.48	139.45	140.46	-89.04	-8,041.99	2,857.85	2,913.65	2,716.07	197.58	14.747		
19,600.00	12,041.85	19,550.00	11,990.40	141.03	142.03	-89.06	-8,141.96	2,858.83	2,913.75	2,713.94	199.81	14.583		
19,700.00	12,042.93	19,650.00	11,992.32	142.61	143.61	-89.07	-8,241.94	2,859.81	2,913.84	2,711.80	202.04	14.422		
19,800.00	12,044.01	19,749.99	11,994.25	144.19	145.18	-89.09	-8,341.91	2,860.79	2,913.94	2,709.66	204.28	14.264		
19,900.00	12,045.09	19,849.99	11,996.17	145.77	146.76	-89.11	-8,441.88	2,861.77	2,914.03	2,707.51	206.52	14.110		
20,000.00	12,046.17	19,949.98	11,998.09	147.35	148.34	-89.12	-8,541.86	2,862.75	2,914.13	2,705.37	208.76	13.959		
20,100.00	12,047.25	20,049.98	12,000.01	148.94	149.92	-89.14	-8,641.83	2,863.73	2,914.22	2,703.22	211.00	13.811		
20,200.00	12,048.33	20,149.98	12,001.94	150.53	151.50	-89.16	-8,741.80	2,864.71	2,914.32	2,701.07	213.24	13.667		
20,300.00	12,049.41	20,249.97	12,003.86	152.11	153.08	-89.17	-8,841.78	2,865.69	2,914.41	2,698.92	215.49	13.525		
20,400.00	12,050.49	20,349.97	12,005.78	153.70	154.67	-89.19	-8,941.75	2,866.67	2,914.51	2,696.77	217.74	13.385		
20,500.00	12,051.57	20,449.97	12,007.71	155.30	156.25	-89.21	-9,041.72	2,867.65	2,914.60	2,694.62	219.99	13.249		
20,600.00	12,052.66	20,549.96	12,009.63	156.89	157.84	-89.22	-9,141.70	2,868.63	2,914.70	2,692.46	222.24	13.115		
20,700.00	12,053.74	20,649.96	12,011.55	158.48	159.43	-89.24	-9,241.67	2,869.61	2,914.80	2,690.30	224.49	12.984		
20,800.00	12,054.82	20,749.96	12,013.48	160.08	161.02	-89.26	-9,341.64	2,870.59	2,914.89	2,688.15	226.75	12.855		
20,900.00	12,055.90	20,849.95	12,015.40	161.67	162.61	-89.27	-9,441.61	2,871.57	2,914.99	2,685.99	229.01	12.729		
21,000.00	12,056.98	20,949.95	12,017.32	163.27	164.20	-89.29	-9,541.59	2,872.55	2,915.09	2,683.83	231.26	12.605		
21,100.00	12,058.06	21,049.95	12,019.25	164.87	165.80	-89.31	-9,641.56	2,873.53	2,915.19	2,681.66	233.52	12.483		
21,200.00	12,059.14	21,149.94	12,021.17	166.47	167.39	-89.32	-9,741.53	2,874.51	2,915.28	2,679.50	235.78	12.364		
21,300.00	12,060.22	21,249.94	12,023.09	168.07	168.99	-89.34	-9,841.51	2,875.49	2,915.38	2,677.34	238.05	12.247		
21,400.00	12,061.30	21,349.93	12,025.02	169.67	170.58	-89.36	-9,941.48	2,876.47	2,915.48	2,675.17	240.31	12.132		
21,500.00	12,062.38	21,449.93	12,026.94	171.27	172.18	-89.37	-10,041.45	2,877.45	2,915.58	2,673.00	242.58	12.019		
21,600.00	12,063.46	21,549.93	12,028.86	172.87	173.78	-89.39	-10,141.43	2,878.43	2,915.68	2,670.83	244.84	11.908		
21,700.00	12,064.54	21,649.92	12,030.79	174.48	175.38	-89.41	-10,241.40	2,879.41	2,915.78	2,668.67	247.11	11.799		
21,800.00	12,065.62	21,749.92	12,032.71	176.08	176.98	-89.42	-10,341.37	2,880.39	2,915.88	2,666.50	249.38	11.692		
21,900.00	12,066.71	21,849.92	12,034.63	177.69	178.58	-89.44	-10,441.35	2,881.37	2,915.98	2,664.32	251.65	11.587		
22,000.00	12,067.79	21,949.91	12,036.56	179.30	180.19	-89.46	-10,541.32	2,882.35	2,916.08	2,662.15	253.92	11.484		
22,100.31	12,068.87	22,050.22	12,038.48	180.91	181.80	-89.47	-10,641.30	2,883.34	2,916.18	2,659.97	256.20	11.382		
22,101.01	12,068.88	22,050.92	12,038.50	180.92	181.81	-89.47	-10,642.30	2,883.34	2,916.18	2,659.96	256.22	11.382 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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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	87.65	80.18	1,955.77	1,957.42					
100.00	100.00	96.50	96.50	0.14	0.12	87.65	80.18	1,955.77	1,957.41	1,957.23	0.19	N/A		
200.00	200.00	196.50	196.50	0.50	0.47	87.65	80.18	1,955.77	1,957.41	1,956.73	0.69	2,848.290		
300.00	300.00	296.50	296.50	0.86	0.83	87.65	80.18	1,955.77	1,957.41	1,956.22	1.19	1,639.303		
400.00	400.00	396.50	396.50	1.22	1.19	87.65	80.18	1,955.77	1,957.41	1,955.71	1.70	1,150.772		
500.00	500.00	496.50	496.50	1.58	1.55	87.65	80.18	1,955.77	1,957.41	1,955.21	2.21	886.556		
600.00	600.00	596.50	596.50	1.93	1.91	87.65	80.18	1,955.77	1,957.41	1,954.70	2.71	721.010		
700.00	700.00	696.50	696.50	2.29	2.26	87.65	80.18	1,955.77	1,957.41	1,954.19	3.22	607.559		
800.00	800.00	796.50	796.50	2.65	2.62	87.65	80.18	1,955.77	1,957.41	1,953.68	3.73	524.957		
900.00	900.00	896.50	896.50	3.01	2.98	87.65	80.18	1,955.77	1,957.41	1,953.18	4.24	462.127		
1,000.00	1,000.00	996.50	996.50	3.37	3.34	87.65	80.18	1,955.77	1,957.41	1,952.67	4.74	412.729		
1,100.00	1,100.00	1,096.50	1,096.50	3.73	3.70	87.65	80.18	1,955.77	1,957.41	1,952.16	5.25	372.872		
1,200.00	1,200.00	1,196.50	1,196.50	4.08	4.06	87.65	80.18	1,955.77	1,957.41	1,951.66	5.76	340.034		
1,300.00	1,300.00	1,296.50	1,296.50	4.44	4.41	87.65	80.18	1,955.77	1,957.41	1,951.15	6.26	312.513		
1,400.00	1,400.00	1,396.50	1,396.50	4.80	4.77	87.65	80.18	1,955.77	1,957.41	1,950.64	6.77	289.113		
1,500.00	1,500.00	1,496.50	1,496.50	5.16	5.13	87.65	80.18	1,955.77	1,957.41	1,950.14	7.28	268.972		
1,600.00	1,600.00	1,596.50	1,596.50	5.52	5.49	87.65	80.18	1,955.77	1,957.41	1,949.63	7.78	251.456		
1,700.00	1,700.00	1,696.50	1,696.50	5.88	5.85	87.65	80.18	1,955.77	1,957.41	1,949.12	8.29	236.081		
1,800.00	1,800.00	1,796.50	1,796.50	6.24	6.21	87.65	80.18	1,955.77	1,957.41	1,948.61	8.80	222.478		
1,900.00	1,900.00	1,896.50	1,896.50	6.59	6.57	87.65	80.18	1,955.77	1,957.41	1,948.11	9.31	210.357		
2,000.00	2,000.00	1,996.50	1,996.50	6.95	6.92	87.65	80.18	1,955.77	1,957.41	1,947.60	9.81	199.489		
2,100.00	2,100.00	2,096.50	2,096.50	7.31	7.28	87.65	80.18	1,955.77	1,957.41	1,947.09	10.32	189.688		
2,200.00	2,200.00	2,196.50	2,196.50	7.67	7.64	87.65	80.18	1,955.77	1,957.41	1,946.59	10.83	180.806		
2,300.00	2,300.00	2,296.50	2,296.50	8.03	8.00	87.65	80.18	1,955.77	1,957.41	1,946.08	11.33	172.718		
2,400.00	2,400.00	2,396.50	2,396.50	8.39	8.36	87.65	80.18	1,955.77	1,957.41	1,945.57	11.84	165.323		
2,500.00	2,500.00	2,496.50	2,496.50	8.74	8.72	87.65	80.18	1,955.77	1,957.41	1,945.07	12.35	158.535		
2,600.00	2,600.00	2,596.50	2,596.50	9.10	9.07	87.65	80.18	1,955.77	1,957.41	1,944.56	12.85	152.282		
2,700.00	2,700.00	2,696.50	2,696.50	9.46	9.43	87.65	80.18	1,955.77	1,957.41	1,944.05	13.36	146.504		
2,800.00	2,800.00	2,796.50	2,796.50	9.82	9.79	87.65	80.18	1,955.77	1,957.41	1,943.55	13.87	141.148		
2,900.00	2,900.00	2,896.50	2,896.50	10.18	10.15	87.65	80.18	1,955.77	1,957.41	1,943.04	14.37	136.170		
3,000.00	3,000.00	2,996.50	2,996.50	10.54	10.51	87.65	80.18	1,955.77	1,957.41	1,942.53	14.88	131.532		
3,004.65	3,004.65	3,001.15	3,001.15	10.55	10.53	87.65	80.18	1,955.77	1,957.41	1,942.51	14.91	131.324 CC		
3,100.00	3,100.00	3,090.68	3,090.68	10.90	10.84	87.65	80.13	1,955.80	1,957.45	1,942.08	15.37	127.344 ES		
3,200.00	3,200.00	3,168.69	3,168.68	11.25	11.10	87.68	79.14	1,956.51	1,958.31	1,942.51	15.80	123.907		
3,300.00	3,300.00	3,246.63	3,246.56	11.61	11.35	87.75	76.86	1,958.15	1,960.29	1,944.06	16.24	120.739		
3,400.00	3,400.00	3,324.41	3,324.22	11.97	11.61	87.86	73.30	1,960.71	1,963.41	1,946.74	16.67	117.813		
3,500.00	3,500.00	3,400.00	3,399.59	12.33	11.86	88.00	68.61	1,964.08	1,967.66	1,950.57	17.09	115.145		
3,600.00	3,600.00	3,481.95	3,481.15	12.69	12.13	88.19	62.16	1,968.70	1,973.05	1,955.53	17.53	112.568		
3,700.00	3,700.00	3,581.40	3,580.06	13.05	12.47	88.44	53.72	1,974.76	1,978.92	1,960.90	18.02	109.842		
3,720.00	3,720.00	3,601.29	3,599.84	13.12	12.54	88.49	52.03	1,975.97	1,980.10	1,961.98	18.11	109.315		
3,800.00	3,799.99	3,680.89	3,679.00	13.39	12.81	-113.49	45.27	1,980.82	1,985.16	1,966.66	18.50	107.329		
3,900.00	3,899.93	3,780.47	3,778.04	13.72	13.15	-113.23	36.81	1,986.89	1,992.44	1,973.47	18.96	105.069		
4,000.00	3,999.75	3,880.07	3,877.10	14.04	13.49	-113.02	28.35	1,992.97	2,000.75	1,981.32	19.43	102.956		
4,053.02	4,052.60	3,932.87	3,929.60	14.21	13.68	-112.94	23.86	1,996.18	2,005.58	1,985.90	19.68	101.891		
4,100.00	4,099.40	3,979.64	3,976.12	14.37	13.84	-112.93	19.89	1,999.03	2,009.98	1,990.08	19.91	100.974		
4,200.00	4,199.02	4,079.20	4,075.13	14.70	14.19	-112.91	11.43	2,005.10	2,019.36	1,998.97	20.38	99.075		
4,300.00	4,298.64	4,178.76	4,174.14	15.03	14.54	-112.90	2.98	2,011.17	2,028.73	2,007.87	20.86	97.248		
4,400.00	4,398.26	4,278.32	4,273.16	15.36	14.90	-112.88	-5.48	2,017.24	2,038.10	2,016.76	21.34	95.489		
4,500.00	4,497.88	4,377.88	4,372.17	15.70	15.25	-112.87	-13.94	2,023.31	2,047.47	2,025.65	21.83	93.796		
4,600.00	4,597.50	4,477.43	4,471.18	16.04	15.61	-112.85	-22.39	2,029.38	2,056.85	2,034.53	22.32	92.165		
4,700.00	4,697.12	4,576.99	4,570.19	16.38	15.97	-112.83	-30.85	2,035.44	2,066.22	2,043.41	22.81	90.594		
4,800.00	4,796.74	4,676.55	4,669.21	16.73	16.34	-112.82	-39.30	2,041.51	2,075.59	2,052.29	23.30	89.080		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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				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	4,896.36	4,776.11	4,768.22	17.07	16.70	-112.80	-47.76	2,047.58	2,084.97	2,061.17	23.80	87.620		
5,000.00	4,995.98	4,875.67	4,867.23	17.42	17.06	-112.79	-56.22	2,053.65	2,094.34	2,070.05	24.29	86.213		
5,100.00	5,095.60	4,975.22	4,966.25	17.77	17.43	-112.77	-64.67	2,059.72	2,103.72	2,078.92	24.79	84.856		
5,200.00	5,195.22	5,074.78	5,065.26	18.12	17.80	-112.76	-73.13	2,065.79	2,113.09	2,087.80	25.29	83.546		
5,300.00	5,294.84	5,174.34	5,164.27	18.47	18.17	-112.74	-81.59	2,071.85	2,122.46	2,096.67	25.80	82.281		
5,400.00	5,394.46	5,273.90	5,263.28	18.82	18.54	-112.73	-90.04	2,077.92	2,131.84	2,105.54	26.30	81.060		
5,500.00	5,494.08	5,373.46	5,362.30	19.18	18.91	-112.72	-98.50	2,083.99	2,141.21	2,114.41	26.81	79.880		
5,600.00	5,593.70	5,473.02	5,461.31	19.53	19.28	-112.70	-106.96	2,090.06	2,150.59	2,123.27	27.31	78.739		
5,700.00	5,693.32	5,572.57	5,560.32	19.89	19.65	-112.69	-115.41	2,096.13	2,159.96	2,132.14	27.82	77.636		
5,800.00	5,792.94	5,672.13	5,659.33	20.25	20.02	-112.67	-123.87	2,102.20	2,169.34	2,141.01	28.33	76.570		
5,900.00	5,892.56	5,771.69	5,758.35	20.61	20.40	-112.66	-132.33	2,108.26	2,178.71	2,149.87	28.84	75.538		
6,000.00	5,992.18	5,871.25	5,857.36	20.97	20.77	-112.64	-140.78	2,114.33	2,188.09	2,158.73	29.36	74.539		
6,100.00	6,091.80	5,970.81	5,956.37	21.33	21.15	-112.63	-149.24	2,120.40	2,197.46	2,167.59	29.87	73.571		
6,200.00	6,191.42	6,070.36	6,055.38	21.69	21.53	-112.62	-157.70	2,126.47	2,206.84	2,176.45	30.38	72.634		
6,300.00	6,291.04	6,169.92	6,154.40	22.05	21.90	-112.60	-166.15	2,132.54	2,216.21	2,185.31	30.90	71.725		
6,400.00	6,390.66	6,269.48	6,253.41	22.42	22.28	-112.59	-174.61	2,138.61	2,225.59	2,194.17	31.42	70.844		
6,500.00	6,490.28	6,369.04	6,352.42	22.78	22.66	-112.58	-183.06	2,144.68	2,234.96	2,203.03	31.93	69.990		
6,600.00	6,589.90	6,468.60	6,451.43	23.15	23.04	-112.56	-191.52	2,150.74	2,244.34	2,211.89	32.45	69.161		
6,700.00	6,689.52	6,568.16	6,550.45	23.51	23.42	-112.55	-199.98	2,156.81	2,253.72	2,220.75	32.97	68.357		
6,800.00	6,789.14	6,667.71	6,649.46	23.88	23.80	-112.54	-208.43	2,162.88	2,263.09	2,229.60	33.49	67.576		
6,900.00	6,888.77	6,767.27	6,748.47	24.24	24.18	-112.53	-216.89	2,168.95	2,272.47	2,238.46	34.01	66.817		
7,000.00	6,988.39	6,866.83	6,847.48	24.61	24.56	-112.51	-225.35	2,175.02	2,281.85	2,247.31	34.53	66.080		
7,100.00	7,088.01	6,966.39	6,946.50	24.98	24.94	-112.50	-233.80	2,181.09	2,291.22	2,256.17	35.05	65.363		
7,200.00	7,187.63	7,065.95	7,045.51	25.35	25.32	-112.49	-242.26	2,187.15	2,300.60	2,265.02	35.58	64.666		
7,300.00	7,287.25	7,165.50	7,144.52	25.72	25.71	-112.47	-250.72	2,193.22	2,309.97	2,273.87	36.10	63.989		
7,400.00	7,386.87	7,265.06	7,243.53	26.09	26.09	-112.46	-259.17	2,199.29	2,319.35	2,282.73	36.62	63.329		
7,455.75	7,442.40	7,330.39	7,308.51	26.29	26.34	-112.46	-264.64	2,203.21	2,324.54	2,287.59	36.95	62.915		
7,500.00	7,486.51	7,398.37	7,376.23	26.46	26.60	-112.51	-269.52	2,206.72	2,328.18	2,290.93	37.25	62.495		
7,600.00	7,586.31	7,552.39	7,529.97	26.82	27.16	-112.63	-276.96	2,212.05	2,334.01	2,296.09	37.92	61.548		
7,700.00	7,686.24	7,706.69	7,684.23	27.18	27.70	-112.73	-279.35	2,213.77	2,336.51	2,297.96	38.56	60.602		
7,788.77	7,775.00	7,793.96	7,771.50	27.48	27.99	89.47	-279.35	2,213.77	2,336.91	2,297.93	38.98	59.951		
7,800.00	7,786.23	7,805.20	7,782.73	27.52	28.03	89.47	-279.35	2,213.77	2,336.91	2,297.88	39.03	59.869		
7,900.00	7,886.23	7,905.20	7,882.73	27.86	28.36	89.47	-279.35	2,213.77	2,336.91	2,297.40	39.51	59.142		
8,000.00	7,986.23	8,005.20	7,982.73	28.20	28.69	89.47	-279.35	2,213.77	2,336.91	2,296.92	39.99	58.431		
8,100.00	8,086.23	8,105.20	8,082.73	28.55	29.03	89.47	-279.35	2,213.77	2,336.91	2,296.44	40.48	57.737		
8,200.00	8,186.23	8,205.20	8,182.73	28.89	29.37	89.47	-279.35	2,213.77	2,336.91	2,295.95	40.96	57.058		
8,300.00	8,286.23	8,305.20	8,282.73	29.23	29.70	89.47	-279.35	2,213.77	2,336.91	2,295.47	41.44	56.394		
8,400.00	8,386.23	8,405.20	8,382.73	29.58	30.04	89.47	-279.35	2,213.77	2,336.91	2,294.99	41.92	55.744		
8,500.00	8,486.23	8,505.20	8,482.73	29.92	30.38	89.47	-279.35	2,213.77	2,336.91	2,294.51	42.41	55.109		
8,600.00	8,586.23	8,605.20	8,582.73	30.26	30.71	89.47	-279.35	2,213.77	2,336.91	2,294.02	42.89	54.487		
8,700.00	8,686.23	8,705.20	8,682.73	30.61	31.05	89.47	-279.35	2,213.77	2,336.91	2,293.54	43.37	53.878		
8,800.00	8,786.23	8,805.20	8,782.73	30.95	31.39	89.47	-279.35	2,213.77	2,336.91	2,293.05	43.86	53.282		
8,900.00	8,886.23	8,905.20	8,882.73	31.30	31.73	89.47	-279.35	2,213.77	2,336.91	2,292.57	44.34	52.699		
9,000.00	8,986.23	9,005.20	8,982.73	31.64	32.07	89.47	-279.35	2,213.77	2,336.91	2,292.08	44.83	52.128		
9,100.00	9,086.23	9,105.20	9,082.73	31.99	32.41	89.47	-279.35	2,213.77	2,336.91	2,291.59	45.32	51.568		
9,200.00	9,186.23	9,205.20	9,182.73	32.33	32.75	89.47	-279.35	2,213.77	2,336.91	2,291.11	45.80	51.020		
9,300.00	9,286.23	9,305.20	9,282.73	32.68	33.09	89.47	-279.35	2,213.77	2,336.91	2,290.62	46.29	50.483		
9,400.00	9,386.23	9,405.20	9,382.73	33.03	33.43	89.47	-279.35	2,213.77	2,336.91	2,290.13	46.78	49.957		
9,500.00	9,486.23	9,505.20	9,482.73	33.37	33.78	89.47	-279.35	2,213.77	2,336.91	2,289.64	47.27	49.441		
9,600.00	9,586.23	9,605.20	9,582.73	33.72	34.12	89.47	-279.35	2,213.77	2,336.91	2,289.16	47.76	48.935		
9,700.00	9,686.23	9,705.20	9,682.73	34.07	34.46	89.47	-279.35	2,213.77	2,336.91	2,288.67	48.24	48.439		
9,800.00	9,786.23	9,805.20	9,782.73	34.42	34.80	89.47	-279.35	2,213.77	2,336.91	2,288.18	48.73	47.953		

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



Total Directional Services Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
9,900.00	9,886.23	9,905.20	9,882.73	34.76	35.14	89.47	-279.35	2,213.77	2,336.91	2,287.69	49.22	47.476		
10,000.00	9,986.23	10,005.20	9,982.73	35.11	35.49	89.47	-279.35	2,213.77	2,336.91	2,287.20	49.71	47.008		
10,100.00	10,086.23	10,105.20	10,082.73	35.46	35.83	89.47	-279.35	2,213.77	2,336.91	2,286.71	50.20	46.549		
10,200.00	10,186.23	10,205.20	10,182.73	35.81	36.18	89.47	-279.35	2,213.77	2,336.91	2,286.22	50.69	46.098		
10,300.00	10,286.23	10,305.20	10,282.73	36.16	36.52	89.47	-279.35	2,213.77	2,336.91	2,285.73	51.19	45.656		
10,400.00	10,386.23	10,405.20	10,382.73	36.50	36.86	89.47	-279.35	2,213.77	2,336.91	2,285.24	51.68	45.222		
10,500.00	10,486.23	10,505.20	10,482.73	36.85	37.21	89.47	-279.35	2,213.77	2,336.91	2,284.74	52.17	44.796		
10,600.00	10,586.23	10,605.20	10,582.73	37.20	37.55	89.47	-279.35	2,213.77	2,336.91	2,284.25	52.66	44.378		
10,700.00	10,686.23	10,705.20	10,682.73	37.55	37.90	89.47	-279.35	2,213.77	2,336.91	2,283.76	53.15	43.967		
10,800.00	10,786.23	10,805.20	10,782.73	37.90	38.24	89.47	-279.35	2,213.77	2,336.91	2,283.27	53.64	43.563		
10,900.00	10,886.23	10,905.20	10,882.73	38.25	38.59	89.47	-279.35	2,213.77	2,336.91	2,282.77	54.14	43.167		
11,000.00	10,986.23	11,005.20	10,982.73	38.60	38.94	89.47	-279.35	2,213.77	2,336.91	2,282.28	54.63	42.777		
11,100.00	11,086.23	11,105.20	11,082.73	38.95	39.28	89.47	-279.35	2,213.77	2,336.91	2,281.79	55.12	42.394		
11,200.00	11,186.23	11,205.20	11,182.73	39.30	39.63	89.47	-279.35	2,213.77	2,336.91	2,281.29	55.62	42.018		
11,300.00	11,286.23	11,305.20	11,282.73	39.65	39.97	89.47	-279.35	2,213.77	2,336.91	2,280.80	56.11	41.648		
11,403.77	11,390.00	11,408.96	11,386.50	40.01	40.33	89.47	-279.35	2,213.77	2,336.91	2,280.29	56.62	41.271		
11,450.00	11,436.18	11,455.15	11,432.68	40.18	40.49	-90.08	-279.35	2,213.77	2,336.91	2,280.06	56.85	41.105		
11,500.00	11,485.78	11,504.74	11,482.28	40.36	40.67	-90.23	-279.35	2,213.77	2,336.93	2,279.83	57.10	40.926		
11,550.00	11,534.65	11,553.61	11,531.15	40.54	40.84	-90.47	-279.35	2,213.77	2,337.00	2,279.64	57.36	40.746		
11,600.00	11,582.42	11,601.38	11,578.92	40.73	41.00	-90.80	-279.35	2,213.77	2,337.17	2,279.56	57.61	40.569		
11,650.00	11,628.72	11,650.05	11,627.58	40.93	41.17	-91.20	-279.92	2,213.78	2,337.51	2,279.64	57.87	40.393		
11,700.00	11,673.21	11,702.08	11,679.38	41.13	41.36	-91.63	-284.60	2,213.82	2,338.01	2,279.87	58.14	40.210		
11,750.00	11,715.54	11,756.18	11,732.56	41.33	41.56	-92.06	-294.42	2,213.90	2,338.65	2,280.22	58.43	40.023		
11,800.00	11,755.40	11,812.57	11,786.75	41.54	41.77	-92.48	-309.95	2,214.04	2,339.42	2,280.68	58.74	39.829		
11,850.00	11,792.47	11,871.45	11,841.41	41.76	42.01	-92.89	-331.76	2,214.23	2,340.29	2,281.23	59.05	39.625		
11,900.00	11,826.48	11,933.01	11,895.85	41.98	42.26	-93.30	-360.44	2,214.48	2,341.24	2,281.85	59.38	39.430		
11,950.00	11,857.17	11,997.40	11,949.15	42.21	42.53	-93.69	-396.49	2,214.80	2,342.23	2,282.50	59.73	39.213		
12,000.00	11,884.30	12,064.71	12,000.19	42.45	42.83	-94.05	-440.32	2,215.18	2,343.23	2,283.14	60.09	38.992		
12,050.00	11,907.67	12,134.94	12,047.57	42.69	43.15	-94.39	-492.10	2,215.64	2,344.19	2,283.72	60.48	38.762		
12,100.00	11,927.10	12,207.98	12,089.75	42.94	43.50	-94.68	-551.66	2,216.16	2,345.07	2,284.19	60.88	38.522		
12,150.00	11,942.45	12,283.56	12,125.06	43.19	43.88	-94.93	-618.43	2,216.75	2,345.81	2,284.51	61.30	38.268		
12,200.00	11,953.59	12,361.25	12,151.87	43.45	44.29	-95.11	-691.28	2,217.39	2,346.38	2,284.63	61.74	38.002		
12,250.00	11,960.44	12,440.46	12,168.81	43.71	44.71	-95.23	-768.59	2,218.07	2,346.73	2,284.53	62.21	37.724		
12,297.58	11,962.92	12,516.58	12,174.90	43.97	45.13	-95.27	-844.40	2,218.73	2,346.86	2,284.19	62.66	37.451		
12,300.00	11,962.95	12,520.47	12,174.94	43.98	45.15	-95.27	-848.29	2,218.77	2,346.86	2,284.17	62.69	37.437		
12,300.25	11,962.95	12,519.41	12,174.94	43.98	45.14	-95.27	-847.24	2,218.76	2,346.86	2,284.17	62.69	37.438		
12,400.00	11,964.03	12,619.16	12,176.24	44.54	45.72	-95.27	-946.97	2,219.63	2,346.88	2,283.40	63.48	36.969		
12,500.00	11,965.11	12,719.16	12,177.54	45.15	46.35	-95.28	-1,046.96	2,220.51	2,346.91	2,282.56	64.35	36.468		
12,600.00	11,966.19	12,819.16	12,178.84	45.81	47.03	-95.28	-1,146.95	2,221.39	2,346.94	2,281.64	65.30	35.942		
12,700.00	11,967.27	12,919.16	12,180.15	46.52	47.75	-95.29	-1,246.93	2,222.27	2,346.96	2,280.65	66.31	35.395		
12,800.00	11,968.35	13,019.16	12,181.45	47.28	48.52	-95.30	-1,346.92	2,223.14	2,346.99	2,279.60	67.38	34.830		
12,900.00	11,969.44	13,119.16	12,182.75	48.09	49.33	-95.30	-1,446.91	2,224.02	2,347.01	2,278.49	68.52	34.251		
13,000.00	11,970.52	13,219.16	12,184.05	48.93	50.19	-95.31	-1,546.90	2,224.90	2,347.04	2,277.32	69.72	33.663		
13,100.00	11,971.60	13,319.16	12,185.36	49.82	51.08	-95.31	-1,646.88	2,225.78	2,347.07	2,276.09	70.97	33.069		
13,200.00	11,972.68	13,419.16	12,186.66	50.75	52.01	-95.32	-1,746.87	2,226.65	2,347.09	2,274.81	72.28	32.472		
13,300.00	11,973.76	13,519.16	12,187.96	51.71	52.97	-95.32	-1,846.86	2,227.53	2,347.12	2,273.48	73.64	31.874		
13,400.00	11,974.84	13,619.16	12,189.26	52.70	53.97	-95.33	-1,946.85	2,228.41	2,347.14	2,272.10	75.04	31.277		
13,500.00	11,975.92	13,719.16	12,190.57	53.73	55.00	-95.33	-2,046.83	2,229.29	2,347.17	2,270.68	76.49	30.685		
13,600.00	11,977.00	13,819.16	12,191.87	54.79	56.06	-95.34	-2,146.82	2,230.17	2,347.20	2,269.21	77.99	30.098		
13,700.00	11,978.08	13,919.16	12,193.17	55.88	57.15	-95.34	-2,246.81	2,231.04	2,347.22	2,267.70	79.52	29.518		
13,800.00	11,979.16	14,019.16	12,194.47	56.99	58.26	-95.35	-2,346.80	2,231.92	2,347.25	2,266.16	81.09	28.947		
13,900.00	11,980.24	14,119.16	12,195.77	58.13	59.40	-95.35	-2,446.78	2,232.80	2,347.27	2,264.58	82.69	28.385		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
14,000.00	11,981.32	14,219.16	12,197.08	59.30	60.56	-95.36	-2,546.77	2,233.68	2,347.30	2,262.97	84.33	27.834		
14,100.00	11,982.40	14,319.16	12,198.38	60.48	61.75	-95.37	-2,646.76	2,234.56	2,347.33	2,261.32	86.00	27.293		
14,200.00	11,983.49	14,419.16	12,199.68	61.69	62.95	-95.37	-2,746.75	2,235.43	2,347.35	2,259.65	87.70	26.764		
14,300.00	11,984.57	14,519.16	12,200.98	62.92	64.18	-95.38	-2,846.73	2,236.31	2,347.38	2,257.95	89.43	26.247		
14,400.00	11,985.65	14,619.16	12,202.29	64.17	65.42	-95.38	-2,946.72	2,237.19	2,347.41	2,256.22	91.19	25.742		
14,500.00	11,986.73	14,719.16	12,203.59	65.44	66.69	-95.39	-3,046.71	2,238.07	2,347.43	2,254.46	92.97	25.249		
14,600.00	11,987.81	14,819.16	12,204.89	66.72	67.97	-95.39	-3,146.70	2,238.94	2,347.46	2,252.68	94.77	24.769		
14,700.00	11,988.89	14,919.16	12,206.19	68.02	69.26	-95.40	-3,246.68	2,239.82	2,347.48	2,250.88	96.60	24.301		
14,800.00	11,989.97	15,019.16	12,207.50	69.33	70.57	-95.40	-3,346.67	2,240.70	2,347.51	2,249.06	98.45	23.845		
14,900.00	11,991.05	15,119.16	12,208.80	70.66	71.89	-95.41	-3,446.66	2,241.58	2,347.54	2,247.22	100.32	23.401		
15,000.00	11,992.13	15,219.16	12,210.10	72.00	73.23	-95.41	-3,546.65	2,242.46	2,347.56	2,245.36	102.20	22.969		
15,100.00	11,993.21	15,319.16	12,211.40	73.35	74.58	-95.42	-3,646.63	2,243.33	2,347.59	2,243.48	104.11	22.550		
15,200.00	11,994.29	15,419.16	12,212.71	74.72	75.94	-95.42	-3,746.62	2,244.21	2,347.62	2,241.59	106.03	22.141		
15,300.00	11,995.37	15,519.16	12,214.01	76.10	77.31	-95.43	-3,846.61	2,245.09	2,347.64	2,239.68	107.97	21.744		
15,400.00	11,996.45	15,619.16	12,215.31	77.48	78.70	-95.44	-3,946.60	2,245.97	2,347.67	2,237.75	109.92	21.358		
15,500.00	11,997.54	15,719.16	12,216.61	78.88	80.09	-95.44	-4,046.58	2,246.85	2,347.70	2,235.81	111.88	20.983		
15,600.00	11,998.62	15,819.15	12,217.91	80.29	81.49	-95.45	-4,146.57	2,247.72	2,347.72	2,233.86	113.86	20.619		
15,700.00	11,999.70	15,919.15	12,219.22	81.71	82.90	-95.45	-4,246.56	2,248.60	2,347.75	2,231.89	115.86	20.264		
15,800.00	12,000.78	16,019.15	12,220.52	83.13	84.33	-95.46	-4,346.55	2,249.48	2,347.78	2,229.91	117.86	19.920		
15,900.00	12,001.86	16,119.15	12,221.82	84.57	85.75	-95.46	-4,446.53	2,250.36	2,347.80	2,227.92	119.88	19.585		
16,000.00	12,002.94	16,219.15	12,223.12	86.01	87.19	-95.47	-4,546.52	2,251.23	2,347.83	2,225.92	121.91	19.259		
16,100.00	12,004.02	16,319.15	12,224.43	87.46	88.64	-95.47	-4,646.51	2,252.11	2,347.86	2,223.91	123.94	18.943		
16,200.00	12,005.10	16,419.15	12,225.73	88.91	90.09	-95.48	-4,746.49	2,252.99	2,347.88	2,221.89	125.99	18.635		
16,300.00	12,006.18	16,519.15	12,227.03	90.38	91.55	-95.48	-4,846.48	2,253.87	2,347.91	2,219.86	128.05	18.336		
16,400.00	12,007.26	16,619.15	12,228.33	91.85	93.01	-95.49	-4,946.47	2,254.75	2,347.94	2,217.82	130.12	18.045		
16,500.00	12,008.34	16,719.15	12,229.64	93.32	94.48	-95.49	-5,046.46	2,255.62	2,347.96	2,215.77	132.19	17.762		
16,600.00	12,009.42	16,819.15	12,230.94	94.80	95.96	-95.50	-5,146.44	2,256.50	2,347.99	2,213.71	134.28	17.486		
16,700.00	12,010.50	16,919.15	12,232.24	96.29	97.44	-95.51	-5,246.43	2,257.38	2,348.02	2,211.65	136.37	17.218		
16,800.00	12,011.59	17,019.15	12,233.54	97.78	98.93	-95.51	-5,346.42	2,258.26	2,348.04	2,209.58	138.47	16.958		
16,900.00	12,012.67	17,119.15	12,234.84	99.28	100.42	-95.52	-5,446.41	2,259.14	2,348.07	2,207.50	140.57	16.704		
17,000.00	12,013.75	17,219.15	12,236.15	100.78	101.92	-95.52	-5,546.39	2,260.01	2,348.10	2,205.41	142.68	16.457		
17,100.00	12,014.83	17,319.15	12,237.45	102.29	103.42	-95.53	-5,646.38	2,260.89	2,348.12	2,203.32	144.80	16.216		
17,200.00	12,015.91	17,419.15	12,238.75	103.80	104.93	-95.53	-5,746.37	2,261.77	2,348.15	2,201.22	146.93	15.982		
17,300.00	12,016.99	17,519.15	12,240.05	105.32	106.44	-95.54	-5,846.36	2,262.65	2,348.18	2,199.12	149.06	15.753		
17,400.00	12,018.07	17,619.15	12,241.36	106.84	107.96	-95.54	-5,946.34	2,263.52	2,348.20	2,197.01	151.20	15.531		
17,500.00	12,019.15	17,719.15	12,242.66	108.36	109.48	-95.55	-6,046.33	2,264.40	2,348.23	2,194.89	153.34	15.314		
17,600.00	12,020.23	17,819.15	12,243.96	109.89	111.00	-95.55	-6,146.32	2,265.28	2,348.26	2,192.77	155.49	15.103		
17,700.00	12,021.31	17,919.15	12,245.26	111.42	112.53	-95.56	-6,246.31	2,266.16	2,348.28	2,190.65	157.64	14.897		
17,800.00	12,022.39	18,019.15	12,246.57	112.95	114.06	-95.56	-6,346.29	2,267.04	2,348.31	2,188.51	159.80	14.696		
17,900.00	12,023.47	18,119.15	12,247.87	114.49	115.59	-95.57	-6,446.28	2,267.91	2,348.34	2,186.38	161.96	14.500		
18,000.00	12,024.56	18,219.15	12,249.17	116.03	117.13	-95.57	-6,546.27	2,268.79	2,348.36	2,184.24	164.12	14.308		
18,100.00	12,025.64	18,319.15	12,250.47	117.57	118.67	-95.58	-6,646.26	2,269.67	2,348.39	2,182.10	166.30	14.122		
18,200.00	12,026.72	18,419.15	12,251.77	119.12	120.21	-95.59	-6,746.24	2,270.55	2,348.42	2,179.95	168.47	13.940		
18,300.00	12,027.80	18,519.15	12,253.08	120.67	121.75	-95.59	-6,846.23	2,271.43	2,348.45	2,177.80	170.65	13.762		
18,400.00	12,028.88	18,619.15	12,254.38	122.22	123.30	-95.60	-6,946.22	2,272.30	2,348.47	2,175.64	172.83	13.588		
18,500.00	12,029.96	18,719.15	12,255.68	123.78	124.85	-95.60	-7,046.21	2,273.18	2,348.50	2,173.48	175.02	13.419		
18,600.00	12,031.04	18,819.15	12,256.98	125.33	126.41	-95.61	-7,146.19	2,274.06	2,348.53	2,171.32	177.21	13.253		
18,700.00	12,032.12	18,919.15	12,258.29	126.89	127.96	-95.61	-7,246.18	2,274.94	2,348.55	2,169.15	179.40	13.091		
18,800.00	12,033.20	19,019.15	12,259.59	128.46	129.52	-95.62	-7,346.17	2,275.81	2,348.58	2,166.99	181.60	12.933		
18,900.00	12,034.28	19,119.15	12,260.89	130.02	131.08	-95.62	-7,446.16	2,276.69	2,348.61	2,164.81	183.79	12.778		
19,000.00	12,035.36	19,219.15	12,262.19	131.59	132.64	-95.63	-7,546.14	2,277.57	2,348.64	2,162.64	186.00	12.627		
19,100.00	12,036.44	19,319.15	12,263.50	133.16	134.21	-95.63	-7,646.13	2,278.45	2,348.66	2,160.46	188.20	12.480		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
19,200.00	12,037.52	19,419.15	12,264.80	134.73	135.78	-95.64	-7,746.12	2,279.33	2,348.69	2,158.28	190.41	12.335		
19,300.00	12,038.61	19,519.15	12,266.10	136.30	137.35	-95.64	-7,846.10	2,280.20	2,348.72	2,156.10	192.62	12.194		
19,400.00	12,039.69	19,619.15	12,267.40	137.87	138.92	-95.65	-7,946.09	2,281.08	2,348.74	2,153.91	194.83	12.055		
19,500.00	12,040.77	19,719.15	12,268.71	139.45	140.49	-95.66	-8,046.08	2,281.96	2,348.77	2,151.72	197.05	11.920		
19,600.00	12,041.85	19,819.15	12,270.01	141.03	142.06	-95.66	-8,146.07	2,282.84	2,348.80	2,149.53	199.27	11.787		
19,700.00	12,042.93	19,919.15	12,271.31	142.61	143.64	-95.67	-8,246.05	2,283.71	2,348.83	2,147.34	201.49	11.658		
19,800.00	12,044.01	20,019.14	12,272.61	144.19	145.22	-95.67	-8,346.04	2,284.59	2,348.85	2,145.15	203.71	11.530		
19,900.00	12,045.09	20,119.14	12,273.91	145.77	146.80	-95.68	-8,446.03	2,285.47	2,348.88	2,142.95	205.93	11.406		
20,000.00	12,046.17	20,219.14	12,275.22	147.35	148.38	-95.68	-8,546.02	2,286.35	2,348.91	2,140.75	208.16	11.284		
20,100.00	12,047.25	20,319.14	12,276.52	148.94	149.96	-95.69	-8,646.00	2,287.23	2,348.94	2,138.55	210.39	11.165		
20,200.00	12,048.33	20,419.14	12,277.82	150.53	151.55	-95.69	-8,745.99	2,288.10	2,348.96	2,136.34	212.62	11.048		
20,300.00	12,049.41	20,519.14	12,279.12	152.11	153.13	-95.70	-8,845.98	2,288.98	2,348.99	2,134.14	214.85	10.933		
20,400.00	12,050.49	20,619.14	12,280.43	153.70	154.72	-95.70	-8,945.97	2,289.86	2,349.02	2,131.93	217.09	10.821		
20,500.00	12,051.57	20,719.14	12,281.73	155.30	156.31	-95.71	-9,045.95	2,290.74	2,349.05	2,129.72	219.33	10.710		
20,600.00	12,052.66	20,819.14	12,283.03	156.89	157.90	-95.71	-9,145.94	2,291.62	2,349.07	2,127.51	221.56	10.602		
20,700.00	12,053.74	20,919.14	12,284.33	158.48	159.49	-95.72	-9,245.93	2,292.49	2,349.10	2,125.30	223.80	10.496		
20,800.00	12,054.82	21,019.14	12,285.64	160.08	161.08	-95.73	-9,345.92	2,293.37	2,349.13	2,123.08	226.05	10.392		
20,900.00	12,055.90	21,119.14	12,286.94	161.67	162.67	-95.73	-9,445.90	2,294.25	2,349.16	2,120.87	228.29	10.290		
21,000.00	12,056.98	21,219.14	12,288.24	163.27	164.27	-95.74	-9,545.89	2,295.13	2,349.18	2,118.65	230.53	10.190		
21,100.00	12,058.06	21,319.14	12,289.54	164.87	165.86	-95.74	-9,645.88	2,296.00	2,349.21	2,116.43	232.78	10.092		
21,200.00	12,059.14	21,419.14	12,290.84	166.47	167.46	-95.75	-9,745.87	2,296.88	2,349.24	2,114.21	235.03	9.996		
21,300.00	12,060.22	21,519.14	12,292.15	168.07	169.06	-95.75	-9,845.85	2,297.76	2,349.27	2,111.99	237.28	9.901		
21,400.00	12,061.30	21,619.14	12,293.45	169.67	170.66	-95.76	-9,945.84	2,298.64	2,349.30	2,109.77	239.53	9.808		
21,500.00	12,062.38	21,719.14	12,294.75	171.27	172.25	-95.76	-10,045.83	2,299.52	2,349.32	2,107.54	241.78	9.717		
21,600.00	12,063.46	21,819.14	12,296.05	172.87	173.86	-95.77	-10,145.82	2,300.39	2,349.35	2,105.32	244.03	9.627		
21,700.00	12,064.54	21,919.14	12,297.36	174.48	175.46	-95.77	-10,245.80	2,301.27	2,349.38	2,103.09	246.29	9.539		
21,800.00	12,065.62	22,019.14	12,298.66	176.08	177.06	-95.78	-10,345.79	2,302.15	2,349.41	2,100.86	248.54	9.453		
21,900.00	12,066.71	22,119.14	12,299.96	177.69	178.66	-95.78	-10,445.78	2,303.03	2,349.43	2,098.64	250.80	9.368		
22,000.00	12,067.79	22,219.14	12,301.26	179.30	180.27	-95.79	-10,545.77	2,303.91	2,349.46	2,096.41	253.06	9.284		
22,100.31	12,068.87	22,319.45	12,302.57	180.91	181.88	-95.79	-10,646.06	2,304.79	2,349.49	2,094.17	255.32	9.202		
22,101.01	12,068.88	22,320.15	12,302.58	180.92	181.89	-95.79	-10,646.76	2,304.79	2,349.49	2,094.15	255.34	9.202 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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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	89.48	0.32	34.99	34.99					
100.00	100.00	99.70	99.70	0.14	0.14	89.48	0.32	34.99	34.99	34.79	0.20	175.003		
200.00	200.00	199.70	199.70	0.50	0.50	89.48	0.32	34.99	34.99	34.29	0.71	49.532		
300.00	300.00	299.70	299.70	0.86	0.86	89.48	0.32	34.99	34.99	33.78	1.21	28.838		
400.00	400.00	399.70	399.70	1.22	1.22	89.48	0.32	34.99	34.99	33.27	1.72	20.340		
500.00	500.00	499.70	499.70	1.58	1.57	89.48	0.32	34.99	34.99	32.76	2.23	15.710		
600.00	600.00	599.70	599.70	1.93	1.93	89.48	0.32	34.99	34.99	32.26	2.73	12.797		
700.00	700.00	699.70	699.70	2.29	2.29	89.48	0.32	34.99	34.99	31.75	3.24	10.796		
800.00	800.00	799.70	799.70	2.65	2.65	89.48	0.32	34.99	34.99	31.24	3.75	9.336		
900.00	900.00	899.70	899.70	3.01	3.01	89.48	0.32	34.99	34.99	30.74	4.26	8.223		
1,000.00	1,000.00	999.70	999.70	3.37	3.37	89.48	0.32	34.99	34.99	30.23	4.76	7.348		
1,100.00	1,100.00	1,099.70	1,099.70	3.73	3.73	89.48	0.32	34.99	34.99	29.72	5.27	6.641		
1,200.00	1,200.00	1,199.70	1,199.70	4.08	4.08	89.48	0.32	34.99	34.99	29.22	5.78	6.058		
1,300.00	1,300.00	1,299.70	1,299.70	4.44	4.44	89.48	0.32	34.99	34.99	28.71	6.28	5.569		
1,400.00	1,400.00	1,399.70	1,399.70	4.80	4.80	89.48	0.32	34.99	34.99	28.20	6.79	5.153		
1,500.00	1,500.00	1,499.70	1,499.70	5.16	5.16	89.48	0.32	34.99	34.99	27.69	7.30	4.795		
1,600.00	1,600.00	1,599.70	1,599.70	5.52	5.52	89.48	0.32	34.99	34.99	27.19	7.80	4.484		
1,700.00	1,700.00	1,699.70	1,699.70	5.88	5.88	89.48	0.32	34.99	34.99	26.68	8.31	4.210		
1,800.00	1,800.00	1,799.70	1,799.70	6.24	6.23	89.48	0.32	34.99	34.99	26.17	8.82	3.968		
1,900.00	1,900.00	1,899.70	1,899.70	6.59	6.59	89.48	0.32	34.99	34.99	25.67	9.32	3.753		
2,000.00	2,000.00	1,999.70	1,999.70	6.95	6.95	89.48	0.32	34.99	34.99	25.16	9.83	3.559		
2,100.00	2,100.00	2,099.70	2,099.70	7.31	7.31	89.48	0.32	34.99	34.99	24.65	10.34	3.385		
2,200.00	2,200.00	2,199.70	2,199.70	7.67	7.67	89.48	0.32	34.99	34.99	24.15	10.85	3.226		
2,300.00	2,300.00	2,299.70	2,299.70	8.03	8.03	89.48	0.32	34.99	34.99	23.64	11.35	3.082		
2,400.00	2,400.00	2,399.70	2,399.70	8.39	8.39	89.48	0.32	34.99	34.99	23.13	11.86	2.951		
2,500.00	2,500.00	2,499.70	2,499.70	8.74	8.74	89.48	0.32	34.99	34.99	22.63	12.37	2.830		
2,600.00	2,600.00	2,599.70	2,599.70	9.10	9.10	89.48	0.32	34.99	34.99	22.12	12.87	2.718		
2,700.00	2,700.00	2,699.70	2,699.70	9.46	9.46	89.48	0.32	34.99	34.99	21.61	13.38	2.615 CC, ES		
2,800.00	2,800.00	2,799.27	2,799.26	9.82	9.80	91.34	-0.83	35.57	35.59	21.71	13.87	2.565		
2,900.00	2,900.00	2,898.71	2,898.62	10.18	10.13	96.55	-4.29	37.33	37.59	23.25	14.35	2.620		
3,000.00	3,000.00	2,998.10	2,997.81	10.54	10.45	103.87	-9.93	40.20	41.45	26.63	14.82	2.797		
3,100.00	3,100.00	3,097.86	3,097.32	10.90	10.78	110.40	-16.12	43.36	46.32	31.02	15.30	3.027		
3,200.00	3,200.00	3,197.61	3,196.84	11.25	11.11	115.64	-22.32	46.51	51.67	35.88	15.79	3.273		
3,300.00	3,300.00	3,297.37	3,296.35	11.61	11.45	119.87	-28.52	49.66	57.37	41.10	16.27	3.525		
3,400.00	3,400.00	3,397.13	3,395.86	11.97	11.79	123.32	-34.72	52.82	63.32	46.56	16.76	3.778		
3,500.00	3,500.00	3,496.88	3,495.38	12.33	12.13	126.17	-40.92	55.97	69.47	52.22	17.25	4.027		
3,600.00	3,600.00	3,596.64	3,594.89	12.69	12.47	128.55	-47.12	59.12	75.75	58.01	17.74	4.270		
3,700.00	3,700.00	3,696.40	3,694.41	13.05	12.81	130.57	-53.31	62.28	82.15	63.92	18.23	4.505		
3,720.00	3,720.00	3,716.35	3,714.31	13.12	12.88	130.93	-54.55	62.91	83.44	65.11	18.33	4.552		
3,800.00	3,799.99	3,796.19	3,793.95	13.39	13.16	-70.38	-59.51	65.43	88.35	69.64	18.72	4.720		
3,900.00	3,899.93	3,896.04	3,893.56	13.72	13.51	-70.72	-65.72	68.59	93.71	74.53	19.19	4.884		
4,000.00	3,999.75	3,995.89	3,993.16	14.04	13.86	-72.47	-71.92	71.75	98.26	78.60	19.66	4.998		
4,053.02	4,052.60	4,048.80	4,045.95	14.21	14.04	-73.92	-75.21	73.42	100.42	80.50	19.91	5.042		
4,100.00	4,099.40	4,095.67	4,092.71	14.37	14.21	-75.35	-78.12	74.90	102.29	82.15	20.14	5.079		
4,200.00	4,199.02	4,195.45	4,192.24	14.70	14.56	-78.22	-84.32	78.05	106.49	85.87	20.62	5.164		
4,300.00	4,298.64	4,295.22	4,291.77	15.03	14.91	-80.87	-90.52	81.21	110.93	89.83	21.10	5.257		
4,400.00	4,398.26	4,395.00	4,391.31	15.36	15.27	-83.32	-96.72	84.36	115.59	94.00	21.59	5.354		
4,500.00	4,497.88	4,494.77	4,490.84	15.70	15.62	-85.57	-102.92	87.52	120.45	98.37	22.08	5.456		
4,600.00	4,597.50	4,594.55	4,590.37	16.04	15.98	-87.64	-109.12	90.67	125.48	102.91	22.57	5.560		
4,700.00	4,697.12	4,694.32	4,689.90	16.38	16.33	-89.55	-115.32	93.82	130.66	107.59	23.06	5.666		
4,800.00	4,796.74	4,794.10	4,789.43	16.73	16.69	-91.31	-121.52	96.98	135.97	112.41	23.56	5.772		
4,900.00	4,896.36	4,893.87	4,888.96	17.07	17.05	-92.94	-127.72	100.13	141.40	117.35	24.05	5.878		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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	4,995.98	4,993.64	4,988.50	17.42	17.41	-94.45	-133.92	103.29	146.94	122.39	24.55	5.985		
5,100.00	5,095.60	5,093.42	5,088.03	17.77	17.77	-95.85	-140.12	106.44	152.57	127.52	25.05	6.090		
5,200.00	5,195.22	5,193.19	5,187.56	18.12	18.13	-97.15	-146.32	109.60	158.29	132.73	25.55	6.194		
5,300.00	5,294.84	5,292.97	5,287.09	18.47	18.49	-98.36	-152.52	112.75	164.08	138.02	26.06	6.297		
5,400.00	5,394.46	5,392.74	5,386.62	18.82	18.85	-99.48	-158.72	115.90	169.94	143.37	26.56	6.398		
5,500.00	5,494.08	5,492.52	5,486.15	19.18	19.22	-100.53	-164.91	119.06	175.86	148.79	27.07	6.497		
5,600.00	5,593.70	5,592.29	5,585.69	19.53	19.58	-101.51	-171.11	122.21	181.83	154.26	27.57	6.594		
5,700.00	5,693.32	5,692.07	5,685.22	19.89	19.94	-102.43	-177.31	125.37	187.86	159.77	28.08	6.689		
5,800.00	5,792.94	5,791.84	5,784.75	20.25	20.31	-103.29	-183.51	128.52	193.93	165.33	28.59	6.783		
5,900.00	5,892.56	5,891.61	5,884.28	20.61	20.67	-104.10	-189.71	131.67	200.04	170.94	29.10	6.874		
6,000.00	5,992.18	5,991.39	5,983.81	20.97	21.04	-104.86	-195.91	134.83	206.18	176.57	29.61	6.963		
6,100.00	6,091.80	6,091.16	6,083.35	21.33	21.40	-105.57	-202.11	137.98	212.37	182.24	30.12	7.050		
6,200.00	6,191.42	6,190.94	6,182.88	21.69	21.77	-106.25	-208.31	141.14	218.58	187.94	30.64	7.135		
6,300.00	6,291.04	6,290.71	6,282.41	22.05	22.13	-106.89	-214.51	144.29	224.82	193.67	31.15	7.218		
6,400.00	6,390.66	6,390.49	6,381.94	22.42	22.50	-107.49	-220.71	147.44	231.09	199.43	31.66	7.299		
6,500.00	6,490.28	6,490.26	6,481.47	22.78	22.86	-108.06	-226.91	150.60	237.38	205.21	32.18	7.377		
6,600.00	6,589.90	6,590.04	6,581.00	23.15	23.23	-108.61	-233.11	153.75	243.70	211.01	32.69	7.454		
6,700.00	6,689.52	6,689.81	6,680.54	23.51	23.60	-109.12	-239.31	156.91	250.03	216.83	33.21	7.529		
6,800.00	6,789.14	6,789.59	6,780.07	23.88	23.97	-109.61	-245.51	160.06	256.39	222.67	33.72	7.603		
6,900.00	6,888.77	6,889.36	6,879.60	24.24	24.33	-110.08	-251.71	163.21	262.76	228.52	34.24	7.674		
7,000.00	6,988.39	6,989.13	6,979.13	24.61	24.70	-110.52	-257.91	166.37	269.15	234.39	34.76	7.744		
7,100.00	7,088.01	7,088.91	7,078.66	24.98	25.07	-110.94	-264.11	169.52	275.55	240.28	35.28	7.812		
7,200.00	7,187.63	7,188.68	7,178.20	25.35	25.44	-111.35	-270.30	172.68	281.97	246.18	35.79	7.878		
7,300.00	7,287.25	7,288.46	7,277.73	25.72	25.81	-111.73	-276.50	175.83	288.41	252.09	36.31	7.942		
7,400.00	7,386.87	7,388.23	7,377.26	26.09	26.18	-112.10	-282.70	178.99	294.85	258.02	36.83	8.006		
7,455.75	7,442.40	7,443.85	7,432.74	26.29	26.38	-112.30	-286.16	180.74	298.45	261.33	37.12	8.040		
7,500.00	7,486.51	7,488.02	7,476.80	26.46	26.54	-112.45	-288.90	182.14	301.21	263.86	37.35	8.065		
7,600.00	7,586.31	7,590.95	7,579.54	26.82	26.92	-112.59	-294.44	184.96	306.31	268.43	37.88	8.086		
7,700.00	7,686.24	7,694.64	7,683.17	27.18	27.29	-112.70	-297.55	186.54	309.21	270.82	38.40	8.053		
7,788.77	7,775.00	7,786.17	7,774.70	27.48	27.61	89.46	-298.24	186.89	309.94	271.10	38.84	7.980		
7,800.00	7,786.23	7,797.41	7,785.93	27.52	27.65	89.46	-298.24	186.89	309.94	271.05	38.89	7.969		
7,900.00	7,886.23	7,897.41	7,885.93	27.86	27.98	89.46	-298.24	186.89	309.94	270.57	39.37	7.872		
8,000.00	7,986.23	7,997.41	7,985.93	28.20	28.32	89.46	-298.24	186.89	309.94	270.09	39.85	7.777		
8,100.00	8,086.23	8,097.41	8,085.93	28.55	28.66	89.46	-298.24	186.89	309.94	269.61	40.33	7.684		
8,200.00	8,186.23	8,197.41	8,185.93	28.89	28.99	89.46	-298.24	186.89	309.94	269.13	40.82	7.594		
8,300.00	8,286.23	8,297.41	8,285.93	29.23	29.33	89.46	-298.24	186.89	309.94	268.64	41.30	7.505		
8,400.00	8,386.23	8,397.41	8,385.93	29.58	29.67	89.46	-298.24	186.89	309.94	268.16	41.78	7.418		
8,500.00	8,486.23	8,497.41	8,485.93	29.92	30.01	89.46	-298.24	186.89	309.94	267.68	42.27	7.333		
8,600.00	8,586.23	8,597.41	8,585.93	30.26	30.35	89.46	-298.24	186.89	309.94	267.19	42.75	7.250		
8,700.00	8,686.23	8,697.41	8,685.93	30.61	30.69	89.46	-298.24	186.89	309.94	266.71	43.23	7.169		
8,800.00	8,786.23	8,797.41	8,785.93	30.95	31.03	89.46	-298.24	186.89	309.94	266.22	43.72	7.089		
8,900.00	8,886.23	8,897.41	8,885.93	31.30	31.37	89.46	-298.24	186.89	309.94	265.74	44.21	7.011		
9,000.00	8,986.23	8,997.41	8,985.93	31.64	31.71	89.46	-298.24	186.89	309.94	265.25	44.69	6.935		
9,100.00	9,086.23	9,097.41	9,085.93	31.99	32.05	89.46	-298.24	186.89	309.94	264.77	45.18	6.860		
9,200.00	9,186.23	9,197.41	9,185.93	32.33	32.39	89.46	-298.24	186.89	309.94	264.28	45.67	6.787		
9,300.00	9,286.23	9,297.41	9,285.93	32.68	32.74	89.46	-298.24	186.89	309.94	263.79	46.15	6.716		
9,400.00	9,386.23	9,397.41	9,385.93	33.03	33.08	89.46	-298.24	186.89	309.94	263.30	46.64	6.645		
9,500.00	9,486.23	9,497.41	9,485.93	33.37	33.42	89.46	-298.24	186.89	309.94	262.81	47.13	6.577		
9,600.00	9,586.23	9,597.41	9,585.93	33.72	33.77	89.46	-298.24	186.89	309.94	262.33	47.62	6.509		
9,700.00	9,686.23	9,697.41	9,685.93	34.07	34.11	89.46	-298.24	186.89	309.94	261.84	48.11	6.443		
9,800.00	9,786.23	9,797.41	9,785.93	34.42	34.45	89.46	-298.24	186.89	309.94	261.35	48.60	6.378		
9,900.00	9,886.23	9,897.41	9,885.93	34.76	34.80	89.46	-298.24	186.89	309.94	260.86	49.09	6.314		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
10,000.00	9,986.23	9,997.41	9,985.93	35.11	35.14	89.46	-298.24	186.89	309.94	260.37	49.58	6.252		
10,100.00	10,086.23	10,097.41	10,085.93	35.46	35.49	89.46	-298.24	186.89	309.94	259.88	50.07	6.191		
10,200.00	10,186.23	10,197.41	10,185.93	35.81	35.83	89.46	-298.24	186.89	309.94	259.39	50.56	6.131		
10,300.00	10,286.23	10,297.41	10,285.93	36.16	36.18	89.46	-298.24	186.89	309.94	258.90	51.05	6.072		
10,400.00	10,386.23	10,397.41	10,385.93	36.50	36.52	89.46	-298.24	186.89	309.94	258.40	51.54	6.014		
10,500.00	10,486.23	10,497.41	10,485.93	36.85	36.87	89.46	-298.24	186.89	309.94	257.91	52.03	5.957		
10,600.00	10,586.23	10,597.41	10,585.93	37.20	37.21	89.46	-298.24	186.89	309.94	257.42	52.52	5.901		
10,700.00	10,686.23	10,697.41	10,685.93	37.55	37.56	89.46	-298.24	186.89	309.94	256.93	53.02	5.846		
10,800.00	10,786.23	10,797.41	10,785.93	37.90	37.91	89.46	-298.24	186.89	309.94	256.44	53.51	5.792		
10,900.00	10,886.23	10,897.41	10,885.93	38.25	38.25	89.46	-298.24	186.89	309.94	255.94	54.00	5.740		
11,000.00	10,986.23	10,997.41	10,985.93	38.60	38.60	89.46	-298.24	186.89	309.94	255.45	54.49	5.688		
11,100.00	11,086.23	11,097.41	11,085.93	38.95	38.95	89.46	-298.24	186.89	309.94	254.96	54.99	5.637		
11,200.00	11,186.23	11,197.41	11,185.93	39.30	39.29	89.46	-298.24	186.89	309.94	254.46	55.48	5.586		
11,300.00	11,286.23	11,297.41	11,285.93	39.65	39.64	89.46	-298.24	186.89	309.94	253.97	55.97	5.537		
11,403.77	11,390.00	11,401.17	11,389.70	40.01	40.00	89.46	-298.24	186.89	309.94	253.46	56.49	5.487		
11,404.13	11,390.36	11,401.53	11,390.06	40.02	40.00	-90.04	-298.24	186.89	309.94	253.45	56.49	5.487		
11,450.00	11,436.18	11,447.36	11,435.88	40.18	40.16	-90.38	-298.24	186.89	309.95	253.23	56.72	5.465		
11,500.00	11,485.78	11,496.96	11,485.48	40.36	40.34	-91.50	-298.24	186.89	310.05	253.09	56.97	5.443		
11,550.00	11,534.65	11,545.82	11,534.35	40.54	40.51	-93.35	-298.24	186.89	310.51	252.29	57.22	5.427		
11,600.00	11,582.42	11,593.59	11,582.12	40.73	40.67	-95.81	-298.24	186.89	311.75	252.28	57.47	5.424		
11,650.00	11,628.72	11,639.90	11,628.42	40.93	40.83	-98.72	-298.24	186.89	314.32	256.61	57.72	5.446		
11,700.00	11,673.21	11,684.38	11,672.91	41.13	40.99	-101.89	-298.24	186.89	318.91	260.95	57.96	5.502		
11,750.00	11,715.54	11,726.71	11,722.11	41.33	41.16	-105.59	-299.58	186.90	325.85	267.65	58.20	5.599		
11,800.00	11,755.40	11,766.57	11,751.51	41.54	41.35	-109.33	-305.74	186.96	334.57	276.16	58.41	5.728		
11,850.00	11,792.47	11,803.64	11,831.23	41.76	41.57	-112.95	-317.75	187.06	344.76	286.25	58.51	5.892		
11,900.00	11,826.48	11,837.65	11,865.31	41.98	41.80	-116.43	-336.67	187.23	356.09	297.65	58.44	6.093		
11,950.00	11,857.17	11,868.34	11,896.12	42.21	42.06	-119.74	-363.79	187.46	368.12	309.99	58.13	6.333		
12,000.00	11,884.30	11,895.47	11,923.12	42.45	42.35	-122.84	-400.53	187.78	380.37	322.85	57.52	6.613		
12,050.00	11,907.67	11,918.84	11,946.66	42.69	42.68	-125.70	-448.37	188.20	392.29	335.71	56.58	6.933		
12,100.00	11,927.10	11,938.27	11,966.60	42.94	43.05	-128.23	-508.56	188.73	403.31	347.94	55.37	7.284		
12,150.00	11,942.45	11,953.62	11,981.44	43.19	43.46	-130.36	-581.69	189.36	412.80	358.80	54.01	7.644		
12,200.00	11,953.59	11,964.76	12,000.00	43.45	43.92	-131.99	-667.15	190.11	420.19	367.47	52.72	7.971		
12,250.00	11,960.44	11,971.61	12,045.57	43.71	44.42	-133.03	-762.59	190.94	424.94	373.14	51.80	8.203		
12,297.58	11,962.92	11,974.19	12,090.83	43.97	44.93	-133.41	-858.89	191.78	426.70	375.15	51.55	8.277		
12,300.00	11,962.95	11,974.16	12,135.91	43.98	44.95	-133.42	-863.86	191.83	426.71	375.15	51.56	8.276		
12,400.00	11,964.03	11,975.20	12,181.00	44.54	45.50	-133.42	-964.42	192.70	426.71	374.63	52.08	8.193		
12,500.00	11,965.11	11,976.27	12,226.08	45.15	46.10	-133.42	-1,064.41	193.58	426.71	374.06	52.65	8.104		
12,600.00	11,966.19	11,977.34	12,271.17	45.81	46.75	-133.42	-1,164.40	194.45	426.71	373.43	53.28	8.009		
12,700.00	11,967.27	11,978.41	12,316.25	46.52	47.45	-133.42	-1,264.39	195.32	426.72	372.75	53.96	7.908		
12,800.00	11,968.35	11,979.48	12,361.33	47.28	48.20	-133.42	-1,364.38	196.19	426.72	372.03	54.69	7.802		
12,900.00	11,969.44	11,980.55	12,406.42	48.09	48.98	-133.42	-1,464.37	197.06	426.72	371.25	55.47	7.693		
13,000.00	11,970.52	11,981.62	12,451.50	48.93	49.82	-133.42	-1,564.36	197.94	426.72	370.43	56.29	7.581		
13,100.00	11,971.60	11,982.71	12,496.58	49.82	50.69	-133.42	-1,664.35	198.81	426.72	369.57	57.15	7.467		
13,200.00	11,972.68	11,983.80	12,541.67	50.75	51.60	-133.42	-1,764.34	199.68	426.72	368.67	58.06	7.350		
13,300.00	11,973.76	11,984.89	12,586.75	51.71	52.54	-133.42	-1,864.33	200.55	426.73	367.73	59.00	7.233		
13,400.00	11,974.84	11,985.98	12,631.83	52.70	53.52	-133.42	-1,964.32	201.43	426.73	366.75	59.98	7.115		
13,500.00	11,975.92	11,987.07	12,676.91	53.73	54.54	-133.42	-2,064.31	202.30	426.73	365.74	60.99	6.996		
13,600.00	11,977.00	11,988.16	12,722.00	54.79	55.58	-133.42	-2,164.30	203.17	426.73	364.69	62.04	6.879		
13,700.00	11,978.08	11,989.25	12,767.08	55.88	56.65	-133.42	-2,264.29	204.04	426.73	363.62	63.12	6.761		
13,800.00	11,979.16	11,990.34	12,812.16	56.99	57.75	-133.42	-2,364.28	204.92	426.73	362.51	64.22	6.645		
13,900.00	11,980.24	11,991.43	12,857.25	58.13	58.88	-133.42	-2,464.27	205.79	426.73	361.38	65.35	6.530		
14,000.00	11,981.32	11,992.52	12,902.33	59.30	60.03	-133.42	-2,564.26	206.66	426.74	360.23	66.51	6.416		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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	11,982.40	14,387.73	12,275.41	60.48	61.20	-133.42	-2,664.25	207.53	426.74	359.04	67.69	6.304		
14,200.00	11,983.49	14,487.73	12,276.49	61.69	62.39	-133.42	-2,764.24	208.41	426.74	357.84	68.90	6.194		
14,300.00	11,984.57	14,587.73	12,277.58	62.92	63.61	-133.42	-2,864.23	209.28	426.74	356.62	70.12	6.086		
14,400.00	11,985.65	14,687.73	12,278.66	64.17	64.84	-133.42	-2,964.23	210.15	426.74	355.38	71.37	5.980		
14,500.00	11,986.73	14,787.73	12,279.74	65.44	66.10	-133.42	-3,064.22	211.02	426.74	354.12	72.63	5.876		
14,600.00	11,987.81	14,887.73	12,280.83	66.72	67.37	-133.42	-3,164.21	211.90	426.75	352.84	73.91	5.774		
14,700.00	11,988.89	14,987.73	12,281.91	68.02	68.65	-133.42	-3,264.20	212.77	426.75	351.54	75.20	5.675		
14,800.00	11,989.97	15,087.73	12,282.99	69.33	69.95	-133.42	-3,364.19	213.64	426.75	350.23	76.52	5.577		
14,900.00	11,991.05	15,187.73	12,284.07	70.66	71.27	-133.42	-3,464.18	214.51	426.75	348.91	77.84	5.482		
15,000.00	11,992.13	15,287.73	12,285.16	72.00	72.60	-133.42	-3,564.17	215.39	426.75	347.57	79.18	5.390		
15,100.00	11,993.21	15,387.73	12,286.24	73.35	73.94	-133.42	-3,664.16	216.26	426.75	346.23	80.53	5.299		
15,200.00	11,994.29	15,487.73	12,287.32	74.72	75.30	-133.42	-3,764.15	217.13	426.75	344.87	81.89	5.211		
15,300.00	11,995.37	15,587.73	12,288.41	76.10	76.66	-133.42	-3,864.14	218.00	426.76	343.50	83.26	5.126		
15,400.00	11,996.45	15,687.73	12,289.49	77.48	78.04	-133.42	-3,964.13	218.88	426.76	342.12	84.64	5.042		
15,500.00	11,997.54	15,787.73	12,290.57	78.88	79.43	-133.42	-4,064.12	219.75	426.76	340.73	86.03	4.960		
15,600.00	11,998.62	15,887.73	12,291.66	80.29	80.83	-133.42	-4,164.11	220.62	426.76	339.33	87.43	4.881		
15,700.00	11,999.70	15,987.73	12,292.74	81.71	82.24	-133.42	-4,264.10	221.49	426.76	337.92	88.84	4.804		
15,800.00	12,000.78	16,087.73	12,293.82	83.13	83.65	-133.43	-4,364.09	222.37	426.76	336.51	90.25	4.729		
15,900.00	12,001.86	16,187.73	12,294.90	84.57	85.08	-133.43	-4,464.08	223.24	426.77	335.09	91.67	4.655		
16,000.00	12,002.94	16,287.73	12,295.99	86.01	86.51	-133.43	-4,564.07	224.11	426.77	333.67	93.10	4.584		
16,100.00	12,004.02	16,387.73	12,297.07	87.46	87.95	-133.43	-4,664.06	224.98	426.77	332.23	94.53	4.514		
16,200.00	12,005.10	16,487.73	12,298.15	88.91	89.40	-133.43	-4,764.05	225.86	426.77	330.80	95.97	4.447		
16,300.00	12,006.18	16,587.73	12,299.24	90.38	90.86	-133.43	-4,864.04	226.73	426.77	329.36	97.41	4.381		
16,400.00	12,007.26	16,687.73	12,300.32	91.85	92.32	-133.43	-4,964.03	227.60	426.77	327.91	98.86	4.317		
16,500.00	12,008.34	16,787.73	12,301.40	93.32	93.79	-133.43	-5,064.02	228.47	426.78	326.46	100.31	4.254		
16,600.00	12,009.42	16,887.73	12,302.48	94.80	95.26	-133.43	-5,164.01	229.35	426.78	325.01	101.77	4.194		
16,700.00	12,010.50	16,987.73	12,303.57	96.29	96.74	-133.43	-5,264.00	230.22	426.78	323.55	103.23	4.134		
16,800.00	12,011.59	17,087.73	12,304.65	97.78	98.22	-133.43	-5,363.99	231.09	426.78	322.09	104.69	4.077		
16,900.00	12,012.67	17,187.73	12,305.73	99.28	99.72	-133.43	-5,463.98	231.96	426.78	320.63	106.15	4.020		
17,000.00	12,013.75	17,287.73	12,306.82	100.78	101.21	-133.43	-5,563.97	232.84	426.78	319.16	107.62	3.966		
17,100.00	12,014.83	17,387.73	12,307.90	102.29	102.71	-133.43	-5,663.96	233.71	426.78	317.69	109.09	3.912		
17,200.00	12,015.91	17,487.73	12,308.98	103.80	104.22	-133.43	-5,763.95	234.58	426.79	316.22	110.56	3.860		
17,300.00	12,016.99	17,587.73	12,310.07	105.32	105.73	-133.43	-5,863.94	235.45	426.79	314.75	112.04	3.809		
17,400.00	12,018.07	17,687.73	12,311.15	106.84	107.24	-133.43	-5,963.94	236.33	426.79	313.28	113.51	3.760		
17,500.00	12,019.15	17,787.73	12,312.23	108.36	108.76	-133.43	-6,063.93	237.20	426.79	311.80	114.99	3.712		
17,600.00	12,020.23	17,887.73	12,313.31	109.89	110.28	-133.43	-6,163.92	238.07	426.79	310.33	116.46	3.665		
17,700.00	12,021.31	17,987.73	12,314.40	111.42	111.80	-133.43	-6,263.91	238.94	426.79	308.85	117.94	3.619		
17,800.00	12,022.39	18,087.73	12,315.48	112.95	113.33	-133.43	-6,363.90	239.82	426.80	307.38	119.42	3.574		
17,900.00	12,023.47	18,187.73	12,316.56	114.49	114.87	-133.43	-6,463.89	240.69	426.80	305.90	120.90	3.530		
18,000.00	12,024.56	18,287.73	12,317.65	116.03	116.40	-133.43	-6,563.88	241.56	426.80	304.42	122.38	3.488		
18,100.00	12,025.64	18,387.73	12,318.73	117.57	117.94	-133.43	-6,663.87	242.43	426.80	302.94	123.86	3.446		
18,200.00	12,026.72	18,487.73	12,319.81	119.12	119.48	-133.43	-6,763.86	243.31	426.80	301.46	125.34	3.405		
18,300.00	12,027.80	18,587.73	12,320.89	120.67	121.03	-133.43	-6,863.85	244.18	426.80	299.98	126.82	3.365		
18,400.00	12,028.88	18,687.73	12,321.98	122.22	122.57	-133.43	-6,963.84	245.05	426.80	298.51	128.30	3.327		
18,500.00	12,029.96	18,787.73	12,323.06	123.78	124.12	-133.43	-7,063.83	245.92	426.81	297.03	129.78	3.289		
18,600.00	12,031.04	18,887.73	12,324.14	125.33	125.68	-133.43	-7,163.82	246.79	426.81	295.55	131.26	3.252		
18,700.00	12,032.12	18,987.73	12,325.23	126.89	127.23	-133.43	-7,263.81	247.67	426.81	294.07	132.74	3.215		
18,800.00	12,033.20	19,087.73	12,326.31	128.46	128.79	-133.43	-7,363.80	248.54	426.81	292.60	134.21	3.180		
18,900.00	12,034.28	19,187.73	12,327.39	130.02	130.35	-133.43	-7,463.79	249.41	426.81	291.12	135.69	3.145		
19,000.00	12,035.36	19,287.73	12,328.48	131.59	131.91	-133.43	-7,563.78	250.28	426.81	289.65	137.17	3.112		
19,100.00	12,036.44	19,387.73	12,329.56	133.16	133.48	-133.43	-7,663.77	251.16	426.82	288.17	138.64	3.079		
19,200.00	12,037.52	19,487.73	12,330.64	134.73	135.04	-133.43	-7,763.76	252.03	426.82	286.70	140.12	3.046		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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				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	12,038.61	19,587.73	12,331.72	136.30	136.61	-133.43	-7,863.75	252.90	426.82	285.23	141.59	3.014		
19,400.00	12,039.69	19,687.73	12,332.81	137.87	138.18	-133.43	-7,963.74	253.77	426.82	283.76	143.06	2.983		
19,500.00	12,040.77	19,787.73	12,333.89	139.45	139.76	-133.43	-8,063.73	254.65	426.82	282.29	144.53	2.953		
19,600.00	12,041.85	19,887.73	12,334.97	141.03	141.33	-133.43	-8,163.72	255.52	426.82	280.82	146.01	2.923		
19,700.00	12,042.93	19,987.73	12,336.06	142.61	142.91	-133.43	-8,263.71	256.39	426.82	279.35	147.47	2.894		
19,800.00	12,044.01	20,087.73	12,337.14	144.19	144.48	-133.43	-8,363.70	257.26	426.83	277.89	148.94	2.866		
19,900.00	12,045.09	20,187.73	12,338.22	145.77	146.06	-133.43	-8,463.69	258.14	426.83	276.42	150.41	2.838		
20,000.00	12,046.17	20,287.73	12,339.30	147.35	147.64	-133.43	-8,563.68	259.01	426.83	274.96	151.87	2.810		
20,100.00	12,047.25	20,387.73	12,340.39	148.94	149.23	-133.43	-8,663.67	259.88	426.83	273.50	153.33	2.784		
20,200.00	12,048.33	20,487.73	12,341.47	150.53	150.81	-133.43	-8,763.66	260.75	426.83	272.04	154.80	2.757		
20,300.00	12,049.41	20,587.73	12,342.55	152.11	152.40	-133.43	-8,863.65	261.63	426.83	270.58	156.25	2.732		
20,400.00	12,050.49	20,687.73	12,343.64	153.70	153.98	-133.43	-8,963.65	262.50	426.84	269.12	157.71	2.706		
20,500.00	12,051.57	20,787.73	12,344.72	155.30	155.57	-133.43	-9,063.64	263.37	426.84	267.67	159.17	2.682		
20,600.00	12,052.66	20,887.73	12,345.80	156.89	157.16	-133.43	-9,163.63	264.24	426.84	266.22	160.62	2.657		
20,700.00	12,053.74	20,987.73	12,346.89	158.48	158.75	-133.44	-9,263.62	265.12	426.84	264.76	162.08	2.634		
20,800.00	12,054.82	21,087.73	12,347.97	160.08	160.34	-133.44	-9,363.61	265.99	426.84	263.32	163.53	2.610		
20,900.00	12,055.90	21,187.73	12,349.05	161.67	161.94	-133.44	-9,463.60	266.86	426.84	261.87	164.98	2.587		
21,000.00	12,056.98	21,287.73	12,350.13	163.27	163.53	-133.44	-9,563.59	267.73	426.84	260.42	166.42	2.565		
21,100.00	12,058.06	21,387.73	12,351.22	164.87	165.13	-133.44	-9,663.58	268.61	426.85	258.98	167.87	2.543		
21,200.00	12,059.14	21,487.73	12,352.30	166.47	166.72	-133.44	-9,763.57	269.48	426.85	257.54	169.31	2.521		
21,300.00	12,060.22	21,587.73	12,353.38	168.07	168.32	-133.44	-9,863.56	270.35	426.85	256.10	170.75	2.500		
21,400.00	12,061.30	21,687.73	12,354.47	169.67	169.92	-133.44	-9,963.55	271.22	426.85	254.66	172.19	2.479		
21,500.00	12,062.38	21,787.73	12,355.55	171.27	171.52	-133.44	-10,063.54	272.10	426.85	253.22	173.63	2.458		
21,600.00	12,063.46	21,887.73	12,356.63	172.87	173.12	-133.44	-10,163.53	272.97	426.85	251.79	175.07	2.438		
21,700.00	12,064.54	21,987.73	12,357.71	174.48	174.72	-133.44	-10,263.52	273.84	426.86	250.36	176.50	2.418		
21,800.00	12,065.62	22,087.73	12,358.80	176.08	176.33	-133.44	-10,363.51	274.71	426.86	248.93	177.93	2.399		
21,900.00	12,066.71	22,187.73	12,359.88	177.69	177.93	-133.44	-10,463.50	275.59	426.86	247.50	179.36	2.380		
22,000.00	12,067.79	22,287.73	12,360.96	179.30	179.54	-133.44	-10,563.49	276.46	426.86	246.07	180.79	2.361		
22,100.31	12,068.87	22,388.03	12,362.05	180.91	181.15	-133.44	-10,663.49	277.33	426.86	244.64	182.22	2.343		
22,101.01	12,068.88	22,388.73	12,362.06	180.92	181.16	-133.44	-10,664.49	277.34	426.86	244.63	182.23	2.342 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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
0.00	0.00	0.00	0.00	0.00	0.00	89.47	39.87	4,274.67	4,274.96					
100.00	100.00	70.50	70.50	0.14	0.11	89.47	39.87	4,274.67	4,274.86	4,274.68	0.18	N/A		
200.00	200.00	170.50	170.50	0.50	0.26	89.47	39.87	4,274.67	4,274.86	4,274.29	0.56	7,601.086		
300.00	300.00	304.26	304.26	0.86	0.68	89.47	39.44	4,274.21	4,274.53	4,273.43	1.10	3,894.801		
400.00	400.00	441.92	441.91	1.22	1.17	89.48	38.48	4,272.54	4,273.31	4,271.62	1.69	2,533.410		
500.00	500.00	582.16	582.11	1.58	1.67	89.50	37.19	4,269.58	4,271.20	4,268.91	2.29	1,861.384		
600.00	600.00	710.61	710.47	1.93	2.13	89.54	34.53	4,265.64	4,268.08	4,265.20	2.88	1,484.134		
700.00	700.00	800.82	800.61	2.29	2.46	89.56	32.53	4,262.76	4,264.87	4,261.51	3.36	1,270.455		
800.00	800.00	884.80	884.53	2.65	2.76	89.59	30.37	4,260.37	4,262.00	4,258.18	3.82	1,114.961		
900.00	900.00	954.80	954.48	3.01	3.02	89.62	28.54	4,258.72	4,259.64	4,255.39	4.25	1,001.522		
1,000.00	1,000.00	1,121.83	1,121.39	3.37	3.62	89.66	25.00	4,253.46	4,256.21	4,251.27	4.93	862.545		
1,100.00	1,100.00	1,214.41	1,213.91	3.73	3.96	89.69	23.33	4,250.39	4,252.88	4,247.45	5.42	784.217		
1,200.00	1,200.00	1,329.29	1,328.69	4.08	4.38	89.71	21.41	4,246.24	4,249.24	4,243.27	5.97	711.796		
1,300.00	1,300.00	1,429.21	1,428.53	4.44	4.54	89.73	19.76	4,242.53	4,245.52	4,239.19	6.33	670.209		
1,400.00	1,400.00	1,500.00	1,499.27	4.80	4.57	89.75	18.69	4,240.15	4,242.14	4,235.54	6.60	642.309		
1,500.00	1,500.00	1,554.73	1,553.98	5.16	4.59	89.76	18.11	4,238.83	4,239.69	4,232.80	6.89	615.455		
1,600.00	1,600.00	1,600.00	1,599.25	5.52	4.62	89.76	17.78	4,238.10	4,238.24	4,231.06	7.18	590.599		
1,700.00	1,700.00	1,678.00	1,677.24	5.88	4.68	89.76	17.57	4,237.62	4,237.66	4,230.17	7.49	565.789		
1,735.74	1,735.74	1,707.00	1,706.24	6.01	4.70	89.76	17.57	4,237.62	4,237.66	4,230.05	7.61	557.150		
1,800.00	1,800.00	1,771.26	1,770.50	6.24	4.76	89.76	17.57	4,237.62	4,237.66	4,229.83	7.83	541.426		
1,900.00	1,900.00	1,871.26	1,870.50	6.59	4.88	89.76	17.57	4,237.62	4,237.66	4,229.47	8.18	517.867		
2,000.00	2,000.00	1,971.26	1,970.50	6.95	5.01	89.76	17.57	4,237.62	4,237.66	4,229.10	8.55	495.389		
2,100.00	2,100.00	2,071.26	2,070.50	7.31	5.17	89.76	17.57	4,237.62	4,237.66	4,228.72	8.94	474.073		
2,200.00	2,200.00	2,171.26	2,170.50	7.67	5.35	89.76	17.57	4,237.62	4,237.66	4,228.32	9.34	453.947		
2,300.00	2,300.00	2,271.26	2,270.50	8.03	5.55	89.76	17.57	4,237.62	4,237.66	4,227.91	9.74	435.001		
2,400.00	2,400.00	2,371.26	2,370.50	8.39	5.76	89.76	17.57	4,237.62	4,237.66	4,227.50	10.16	417.202		
2,500.00	2,500.00	2,471.26	2,470.50	8.74	5.98	89.76	17.57	4,237.62	4,237.66	4,227.08	10.58	400.500		
2,600.00	2,600.00	2,571.26	2,570.50	9.10	6.22	89.76	17.57	4,237.62	4,237.66	4,226.64	11.01	384.837		
2,700.00	2,700.00	2,671.26	2,670.50	9.46	6.47	89.76	17.57	4,237.62	4,237.66	4,226.21	11.45	370.151		
2,800.00	2,800.00	2,825.17	2,824.39	9.82	6.86	89.79	15.67	4,236.83	4,237.20	4,225.24	11.97	354.124		
2,900.00	2,900.00	2,985.99	2,984.97	10.18	7.29	89.90	7.73	4,233.52	4,235.08	4,222.58	12.50	338.844		
3,000.00	3,000.00	3,085.74	3,084.48	10.54	7.56	89.98	1.30	4,230.84	4,232.38	4,219.43	12.95	326.818		
3,100.00	3,100.00	3,185.50	3,183.99	10.90	7.85	90.07	-5.13	4,228.16	4,229.69	4,216.28	13.41	315.494		
3,200.00	3,200.00	3,285.26	3,283.50	11.25	8.14	90.16	-11.56	4,225.49	4,227.01	4,213.15	13.87	304.821		
3,300.00	3,300.00	3,385.01	3,383.02	11.61	8.44	90.24	-17.99	4,222.81	4,224.34	4,210.01	14.33	294.754		
3,400.00	3,400.00	3,484.77	3,482.53	11.97	8.75	90.33	-24.42	4,220.13	4,221.69	4,206.89	14.80	285.250		
3,500.00	3,500.00	3,584.52	3,582.04	12.33	9.06	90.42	-30.85	4,217.45	4,219.04	4,203.77	15.27	276.270		
3,600.00	3,600.00	3,684.28	3,681.55	12.69	9.37	90.51	-37.28	4,214.77	4,216.40	4,200.65	15.75	267.779		
3,700.00	3,700.00	3,784.03	3,781.07	13.05	9.69	90.59	-43.71	4,212.09	4,213.77	4,197.55	16.22	259.742		
3,720.00	3,720.00	3,803.99	3,800.97	13.12	9.76	90.61	-44.99	4,211.56	4,213.24	4,196.93	16.32	258.188		
3,800.00	3,799.99	3,883.84	3,880.63	13.39	10.02	-111.58	-50.14	4,209.41	4,211.46	4,194.77	16.69	252.319		
3,900.00	3,899.93	3,983.78	3,980.32	13.72	10.34	-111.55	-56.58	4,206.73	4,210.09	4,192.95	17.15	245.556		
3,991.57	3,991.35	4,075.34	4,071.66	14.01	10.65	-111.54	-62.48	4,204.27	4,209.69	4,192.13	17.56	239.677 CC		
4,000.00	3,999.75	4,083.77	4,080.07	14.04	10.68	-111.54	-63.03	4,204.04	4,209.70	4,192.09	17.60	239.152		
4,053.02	4,052.60	4,136.79	4,132.96	14.21	10.85	-111.55	-66.44	4,202.62	4,209.87	4,192.03	17.85	235.892		
4,100.00	4,099.40	4,183.76	4,179.81	14.37	11.01	-111.56	-69.47	4,201.36	4,210.15	4,192.09	18.06	233.075		
4,200.00	4,199.02	4,283.74	4,279.56	14.70	11.35	-111.58	-75.92	4,198.67	4,210.74	4,192.21	18.53	227.258		
4,300.00	4,298.64	4,383.73	4,379.30	15.03	11.69	-111.60	-82.36	4,195.99	4,211.33	4,192.34	19.00	221.683		
4,400.00	4,398.26	4,483.71	4,479.04	15.36	12.03	-111.63	-88.81	4,193.30	4,211.93	4,192.46	19.47	216.337		
4,500.00	4,497.88	4,583.70	4,578.78	15.70	12.37	-111.65	-95.25	4,190.62	4,212.52	4,192.58	19.94	211.209		
4,600.00	4,497.50	4,683.68	4,678.52	16.04	12.72	-111.67	-101.69	4,187.93	4,213.11	4,192.69	20.42	206.290		
4,700.00	4,497.12	4,783.67	4,778.26	16.38	13.06	-111.69	-108.14	4,185.25	4,213.71	4,192.80	20.90	201.569		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
4,800.00	4,796.74	4,883.65	4,878.00	16.73	13.41	-111.71	-114.58	4,182.56	4,214.30	4,192.92	21.39	197.036		
4,900.00	4,896.36	4,983.64	4,977.74	17.07	13.76	-111.74	-121.03	4,179.88	4,214.90	4,193.03	21.87	192.682		
5,000.00	4,995.98	5,083.62	5,077.48	17.42	14.12	-111.76	-127.47	4,177.19	4,215.50	4,193.13	22.36	188.498		
5,100.00	5,095.60	5,183.61	5,177.22	17.77	14.47	-111.78	-133.92	4,174.51	4,216.09	4,193.24	22.85	184.476		
5,200.00	5,195.22	5,283.59	5,276.96	18.12	14.82	-111.80	-140.36	4,171.82	4,216.69	4,193.34	23.35	180.608		
5,300.00	5,294.84	5,383.58	5,376.71	18.47	15.18	-111.82	-146.81	4,169.14	4,217.29	4,193.45	23.84	176.886		
5,400.00	5,394.46	5,483.56	5,476.45	18.82	15.53	-111.85	-153.25	4,166.45	4,217.89	4,193.55	24.34	173.302		
5,500.00	5,494.08	5,583.55	5,576.19	19.18	15.89	-111.87	-159.70	4,163.77	4,218.49	4,193.65	24.84	169.850		
5,600.00	5,593.70	5,683.53	5,675.93	19.53	16.25	-111.89	-166.14	4,161.08	4,219.09	4,193.75	25.34	166.524		
5,700.00	5,693.32	5,783.52	5,775.67	19.89	16.61	-111.91	-172.59	4,158.40	4,219.69	4,193.85	25.84	163.317		
5,800.00	5,792.94	5,883.50	5,875.41	20.25	16.97	-111.93	-179.03	4,155.71	4,220.29	4,193.95	26.34	160.224		
5,900.00	5,892.56	5,983.49	5,975.15	20.61	17.33	-111.96	-185.48	4,153.03	4,220.89	4,194.05	26.84	157.239		
6,000.00	5,992.18	6,083.47	6,074.89	20.97	17.69	-111.98	-191.92	4,150.34	4,221.50	4,194.15	27.35	154.357		
6,100.00	6,091.80	6,183.46	6,174.63	21.33	18.05	-112.00	-198.37	4,147.66	4,222.10	4,194.25	27.86	151.574		
6,200.00	6,191.42	6,283.44	6,274.37	21.69	18.42	-112.02	-204.81	4,144.97	4,222.70	4,194.34	28.36	148.884		
6,300.00	6,291.04	6,383.43	6,374.12	22.05	18.78	-112.05	-211.25	4,142.29	4,223.31	4,194.44	28.87	146.283		
6,400.00	6,390.66	6,483.41	6,473.86	22.42	19.14	-112.07	-217.70	4,139.60	4,223.91	4,194.53	29.38	143.767		
6,500.00	6,490.28	6,583.40	6,573.60	22.78	19.51	-112.09	-224.14	4,136.92	4,224.52	4,194.63	29.89	141.333		
6,600.00	6,589.90	6,683.38	6,673.34	23.15	19.87	-112.11	-230.59	4,134.23	4,225.13	4,194.72	30.40	138.976		
6,700.00	6,689.52	6,783.37	6,773.08	23.51	20.24	-112.13	-237.03	4,131.55	4,225.73	4,194.82	30.91	136.694		
6,800.00	6,789.14	6,883.35	6,872.82	23.88	20.60	-112.15	-243.48	4,128.86	4,226.34	4,194.91	31.43	134.483		
6,900.00	6,888.77	6,983.34	6,972.56	24.24	20.97	-112.18	-249.92	4,126.18	4,226.95	4,195.01	31.94	132.339		
7,000.00	6,988.39	7,070.16	7,059.18	24.61	21.28	-112.20	-256.40	4,123.89	4,227.63	4,195.20	32.42	130.389		
7,100.00	7,088.01	7,140.26	7,129.18	24.98	21.54	-112.23	-262.81	4,122.48	4,228.90	4,196.04	32.86	128.678		
7,200.00	7,187.63	7,200.00	7,188.88	25.35	21.75	-112.27	-269.77	4,121.66	4,230.90	4,197.63	33.28	127.137		
7,300.00	7,287.25	7,280.00	7,268.94	25.72	22.01	-112.34	-276.05	4,121.12	4,233.58	4,199.85	33.73	125.519		
7,400.00	7,386.87	7,368.50	7,357.37	26.09	22.30	-112.43	-282.13	4,121.09	4,236.86	4,202.67	34.19	123.918		
7,455.75	7,442.40	7,424.03	7,412.90	26.29	22.48	-112.49	-282.13	4,121.09	4,238.72	4,204.26	34.46	123.000		
7,500.00	7,486.51	7,468.14	7,457.01	26.46	22.62	-112.56	-282.13	4,121.09	4,240.10	4,205.43	34.68	122.280		
7,600.00	7,586.31	7,567.94	7,556.81	26.82	22.93	-112.67	-282.13	4,121.09	4,242.51	4,207.35	35.16	120.673		
7,700.00	7,686.24	7,667.87	7,656.74	27.18	23.25	-112.73	-282.13	4,121.09	4,243.91	4,208.28	35.63	119.094		
7,788.77	7,775.00	7,756.63	7,745.50	27.48	23.54	89.47	-282.13	4,121.09	4,244.31	4,208.25	36.05	117.719		
7,800.00	7,786.23	7,767.86	7,756.73	27.52	23.57	89.47	-282.13	4,121.09	4,244.31	4,208.20	36.11	117.547		
7,900.00	7,886.23	7,867.86	7,856.73	27.86	23.90	89.47	-282.13	4,121.09	4,244.31	4,207.73	36.58	116.036		
8,000.00	7,986.23	7,967.86	7,956.73	28.20	24.22	89.47	-282.13	4,121.09	4,244.31	4,207.26	37.05	114.561		
8,100.00	8,086.23	8,067.86	8,056.73	28.55	24.54	89.47	-282.13	4,121.09	4,244.31	4,206.79	37.52	113.120		
8,200.00	8,186.23	8,167.86	8,156.73	28.89	24.87	89.47	-282.13	4,121.09	4,244.31	4,206.32	37.99	111.712		
8,300.00	8,286.23	8,267.86	8,256.73	29.23	25.19	89.47	-282.13	4,121.09	4,244.31	4,205.84	38.47	110.336		
8,400.00	8,386.23	8,367.86	8,356.73	29.58	25.52	89.47	-282.13	4,121.09	4,244.31	4,205.37	38.94	108.992		
8,500.00	8,486.23	8,467.86	8,456.73	29.92	25.85	89.47	-282.13	4,121.09	4,244.31	4,204.89	39.42	107.677		
8,600.00	8,586.23	8,567.86	8,556.73	30.26	26.18	89.47	-282.13	4,121.09	4,244.31	4,204.42	39.89	106.392		
8,700.00	8,686.23	8,667.86	8,656.73	30.61	26.51	89.47	-282.13	4,121.09	4,244.31	4,203.94	40.37	105.135		
8,800.00	8,786.23	8,767.86	8,756.73	30.95	26.84	89.47	-282.13	4,121.09	4,244.31	4,203.46	40.85	103.906		
8,900.00	8,886.23	8,867.86	8,856.73	31.30	27.17	89.47	-282.13	4,121.09	4,244.31	4,202.98	41.33	102.703		
9,000.00	8,986.23	8,967.86	8,956.73	31.64	27.50	89.47	-282.13	4,121.09	4,244.31	4,202.50	41.81	101.526		
9,100.00	9,086.23	9,067.86	9,056.73	31.99	27.83	89.47	-282.13	4,121.09	4,244.31	4,202.02	42.28	100.374		
9,200.00	9,186.23	9,167.86	9,156.73	32.33	28.16	89.47	-282.13	4,121.09	4,244.31	4,201.54	42.77	99.247		
9,300.00	9,286.23	9,267.86	9,256.73	32.68	28.50	89.47	-282.13	4,121.09	4,244.31	4,201.06	43.25	98.144		
9,400.00	9,386.23	9,367.86	9,356.73	33.03	28.83	89.47	-282.13	4,121.09	4,244.31	4,200.58	43.73	97.063		
9,500.00	9,486.23	9,467.86	9,456.73	33.37	29.16	89.47	-282.13	4,121.09	4,244.31	4,200.10	44.21	96.004		
9,600.00	9,586.23	9,567.86	9,556.73	33.72	29.50	89.47	-282.13	4,121.09	4,244.31	4,199.62	44.69	94.968		
9,700.00	9,686.23	9,667.86	9,656.73	34.07	29.84	89.47	-282.13	4,121.09	4,244.31	4,199.13	45.18	93.952		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
9,800.00	9,786.23	9,767.86	9,756.73	34.42	30.17	89.47	-262.13	4,121.09	4,244.31	4,198.65	45.66	92.957		
9,900.00	9,886.23	9,867.86	9,856.73	34.76	30.51	89.47	-262.13	4,121.09	4,244.31	4,198.17	46.14	91.981		
10,000.00	9,986.23	9,967.86	9,956.73	35.11	30.85	89.47	-262.13	4,121.09	4,244.31	4,197.68	46.63	91.025		
10,100.00	10,086.23	10,067.86	10,056.73	35.46	31.18	89.47	-262.13	4,121.09	4,244.31	4,197.20	47.11	90.088		
10,200.00	10,186.23	10,167.86	10,156.73	35.81	31.52	89.47	-262.13	4,121.09	4,244.31	4,196.71	47.60	89.169		
10,300.00	10,286.23	10,267.86	10,256.73	36.16	31.86	89.47	-262.13	4,121.09	4,244.31	4,196.22	48.08	88.268		
10,400.00	10,386.23	10,367.86	10,356.73	36.50	32.20	89.47	-262.13	4,121.09	4,244.31	4,195.74	48.57	87.384		
10,500.00	10,486.23	10,467.86	10,456.73	36.85	32.54	89.47	-262.13	4,121.09	4,244.31	4,195.25	49.06	86.517		
10,600.00	10,586.23	10,567.86	10,556.73	37.20	32.88	89.47	-262.13	4,121.09	4,244.31	4,194.76	49.54	85.666		
10,700.00	10,686.23	10,667.86	10,656.73	37.55	33.22	89.47	-262.13	4,121.09	4,244.31	4,194.28	50.03	84.831		
10,800.00	10,786.23	10,767.86	10,756.73	37.90	33.56	89.47	-262.13	4,121.09	4,244.31	4,193.79	50.52	84.011		
10,900.00	10,886.23	10,867.86	10,856.73	38.25	33.90	89.47	-262.13	4,121.09	4,244.31	4,193.30	51.01	83.207		
11,000.00	10,986.23	10,967.86	10,956.73	38.60	34.24	89.47	-262.13	4,121.09	4,244.31	4,192.81	51.50	82.417		
11,100.00	11,086.23	11,067.86	11,056.73	38.95	34.58	89.47	-262.13	4,121.09	4,244.31	4,192.32	51.99	81.642		
11,200.00	11,186.23	11,167.86	11,156.73	39.30	34.92	89.47	-262.13	4,121.09	4,244.31	4,191.83	52.48	80.880		
11,200.10	11,186.33	11,167.96	11,156.83	39.30	34.92	89.47	-262.13	4,121.09	4,244.31	4,191.83	52.48	80.880		
11,300.00	11,286.23	11,266.41	11,254.80	39.65	35.28	89.59	-270.54	4,121.17	4,244.32	4,191.35	52.97	80.120		
11,403.77	11,390.00	11,362.80	11,347.94	40.01	35.65	89.92	-294.88	4,121.41	4,244.48	4,190.98	53.50	79.342		
11,450.00	11,436.18	11,403.26	11,385.59	40.18	35.81	-89.39	-309.70	4,121.56	4,244.64	4,190.91	53.73	79.004		
11,500.00	11,485.78	11,446.12	11,424.21	40.36	35.99	-89.18	-328.25	4,121.74	4,244.87	4,190.89	53.98	78.637		
11,550.00	11,534.65	11,488.13	11,460.62	40.54	36.17	-88.98	-349.18	4,121.95	4,245.16	4,190.92	54.24	78.267		
11,600.00	11,582.42	11,529.38	11,494.78	40.73	36.35	-88.78	-372.28	4,122.17	4,245.49	4,190.99	54.50	77.895		
11,650.00	11,628.72	11,569.95	11,526.68	40.93	36.53	-88.60	-397.34	4,122.42	4,245.86	4,191.09	54.77	77.521		
11,700.00	11,673.21	11,609.93	11,556.30	41.13	36.72	-88.42	-424.18	4,122.69	4,246.24	4,191.20	55.04	77.145		
11,750.00	11,715.54	11,650.00	11,584.04	41.33	36.91	-88.25	-453.09	4,122.97	4,246.65	4,191.33	55.32	76.763		
11,800.00	11,755.40	11,688.37	11,608.64	41.54	37.10	-88.09	-482.51	4,123.26	4,247.06	4,191.46	55.60	76.383		
11,850.00	11,792.47	11,726.94	11,631.34	41.76	37.29	-87.94	-513.69	4,123.57	4,247.47	4,191.58	55.89	75.996		
11,900.00	11,826.48	11,765.15	11,651.70	41.98	37.49	-87.81	-546.02	4,123.88	4,247.87	4,191.68	56.19	75.605		
11,950.00	11,857.17	11,800.00	11,668.36	42.21	37.67	-87.69	-576.62	4,124.19	4,248.25	4,191.77	56.47	75.226		
12,000.00	11,884.30	11,840.71	11,685.41	42.45	37.89	-87.58	-613.57	4,124.55	4,248.60	4,191.80	56.79	74.808		
12,050.00	11,907.67	11,878.13	11,698.74	42.69	38.10	-87.48	-648.53	4,124.89	4,248.92	4,191.81	57.11	74.401		
12,100.00	11,927.10	11,915.37	11,709.71	42.94	38.31	-87.41	-684.11	4,125.24	4,249.19	4,191.76	57.43	73.990		
12,150.00	11,942.45	11,950.00	11,717.82	43.19	38.51	-87.35	-717.77	4,125.58	4,249.43	4,191.68	57.75	73.589		
12,200.00	11,953.59	11,989.48	11,724.57	43.45	38.75	-87.30	-756.65	4,125.96	4,249.61	4,191.52	58.09	73.159		
12,250.00	11,960.44	12,026.41	11,728.44	43.71	38.96	-87.27	-793.37	4,126.32	4,249.74	4,191.32	58.42	72.740		
12,297.58	11,962.92	12,066.27	11,730.24	43.97	39.20	-87.26	-833.20	4,126.71	4,249.81	4,191.04	58.77	72.316		
12,300.00	11,962.95	12,068.70	11,730.33	43.98	39.22	-87.26	-835.62	4,126.74	4,249.81	4,191.02	58.79	72.292		
12,400.00	11,964.03	12,168.67	11,733.82	44.54	39.86	-87.29	-935.52	4,127.72	4,249.81	4,190.17	59.63	71.267		
12,500.00	11,965.11	12,268.64	11,737.31	45.15	40.56	-87.33	-1,035.43	4,128.70	4,249.80	4,189.25	60.55	70.184		
12,554.47	11,965.70	12,323.09	11,739.21	45.51	40.96	-87.34	-1,089.85	4,129.24	4,249.80	4,188.71	61.09	69.567		
12,600.00	11,966.19	12,368.61	11,740.80	45.81	41.31	-87.36	-1,135.33	4,129.69	4,249.80	4,188.26	61.55	69.049		
12,700.00	11,967.27	12,468.58	11,744.29	46.52	42.12	-87.39	-1,235.24	4,130.67	4,249.81	4,187.19	62.61	67.872		
12,800.00	11,968.35	12,568.55	11,747.78	47.28	42.97	-87.42	-1,335.14	4,131.65	4,249.81	4,186.06	63.75	66.665		
12,900.00	11,969.44	12,668.52	11,751.28	48.09	43.86	-87.46	-1,435.05	4,132.64	4,249.81	4,184.86	64.95	65.434		
13,000.00	11,970.52	12,768.49	11,754.77	48.93	44.80	-87.49	-1,534.95	4,133.62	4,249.82	4,183.61	66.21	64.189		
13,100.00	11,971.60	12,868.47	11,758.26	49.82	45.78	-87.52	-1,634.86	4,134.60	4,249.82	4,182.30	67.52	62.938		
13,200.00	11,972.68	12,968.44	11,761.75	50.75	46.80	-87.55	-1,734.76	4,135.59	4,249.83	4,180.94	68.90	61.686		
13,300.00	11,973.76	13,068.41	11,765.24	51.71	47.85	-87.59	-1,834.67	4,136.57	4,249.84	4,179.53	70.32	60.438		
13,400.00	11,974.84	13,168.38	11,768.73	52.70	48.94	-87.62	-1,934.57	4,137.55	4,249.85	4,178.07	71.79	59.201		
13,500.00	11,975.92	13,268.35	11,772.22	53.73	50.06	-87.65	-2,034.48	4,138.54	4,249.87	4,176.56	73.30	57.978		
13,600.00	11,977.00	13,368.32	11,775.71	54.79	51.20	-87.68	-2,134.38	4,139.52	4,249.88	4,175.02	74.86	56.772		
13,700.00	11,978.08	13,468.29	11,779.21	55.88	52.37	-87.72	-2,234.29	4,140.51	4,249.89	4,173.44	76.45	55.587		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
13,800.00	11,979.16	13,568.26	11,782.70	56.99	53.57	-87.75	-2,334.19	4,141.49	4,249.91	4,171.82	78.09	54.424		
13,900.00	11,980.24	13,668.23	11,786.19	58.13	54.79	-87.78	-2,434.10	4,142.47	4,249.93	4,170.17	79.76	53.286		
14,000.00	11,981.32	13,768.20	11,789.68	59.30	56.04	-87.81	-2,534.00	4,143.46	4,249.95	4,168.49	81.46	52.173		
14,100.00	11,982.40	13,868.17	11,793.17	60.48	57.30	-87.85	-2,633.91	4,144.44	4,249.97	4,166.78	83.19	51.086		
14,200.00	11,983.49	13,968.14	11,796.66	61.69	58.58	-87.88	-2,733.81	4,145.42	4,249.99	4,165.04	84.95	50.027		
14,300.00	11,984.57	14,068.12	11,800.15	62.92	59.89	-87.91	-2,833.72	4,146.41	4,250.01	4,163.27	86.74	48.996		
14,400.00	11,985.65	14,168.09	11,803.64	64.17	61.20	-87.94	-2,933.62	4,147.39	4,250.04	4,161.48	88.56	47.992		
14,500.00	11,986.73	14,268.06	11,807.14	65.44	62.54	-87.98	-3,033.53	4,148.37	4,250.06	4,159.67	90.39	47.017		
14,600.00	11,987.81	14,368.03	11,810.63	66.72	63.89	-88.01	-3,133.43	4,149.36	4,250.09	4,157.84	92.26	46.069		
14,700.00	11,988.89	14,468.00	11,814.12	68.02	65.25	-88.04	-3,233.34	4,150.34	4,250.12	4,155.98	94.14	45.148		
14,800.00	11,989.97	14,567.97	11,817.61	69.33	66.63	-88.07	-3,333.24	4,151.32	4,250.15	4,154.11	96.04	44.254		
14,900.00	11,991.05	14,667.94	11,821.10	70.66	68.01	-88.11	-3,433.15	4,152.31	4,250.18	4,152.22	97.96	43.387		
15,000.00	11,992.13	14,767.91	11,824.59	72.00	69.41	-88.14	-3,533.05	4,153.29	4,250.21	4,150.32	99.90	42.545		
15,100.00	11,993.21	14,867.88	11,828.08	73.35	70.82	-88.17	-3,632.96	4,154.27	4,250.25	4,148.39	101.85	41.728		
15,200.00	11,994.29	14,967.85	11,831.58	74.72	72.24	-88.20	-3,732.86	4,155.26	4,250.28	4,146.46	103.83	40.937		
15,300.00	11,995.37	15,067.82	11,835.07	76.10	73.67	-88.24	-3,832.77	4,156.24	4,250.32	4,144.51	105.81	40.169		
15,400.00	11,996.45	15,167.79	11,838.56	77.48	75.11	-88.27	-3,932.67	4,157.22	4,250.36	4,142.55	107.81	39.424		
15,500.00	11,997.54	15,267.77	11,842.05	78.88	76.56	-88.30	-4,032.58	4,158.21	4,250.40	4,140.57	109.83	38.701		
15,600.00	11,998.62	15,367.74	11,845.54	80.29	78.02	-88.33	-4,132.48	4,159.19	4,250.44	4,138.59	111.85	38.001		
15,700.00	11,999.70	15,467.71	11,849.03	81.71	79.48	-88.37	-4,232.39	4,160.18	4,250.48	4,136.59	113.89	37.321		
15,800.00	12,000.78	15,567.68	11,852.52	83.13	80.95	-88.40	-4,332.29	4,161.16	4,250.53	4,134.59	115.94	36.662		
15,900.00	12,001.86	15,667.65	11,856.01	84.57	82.43	-88.43	-4,432.20	4,162.14	4,250.57	4,132.57	118.00	36.022		
16,000.00	12,002.94	15,767.62	11,859.51	86.01	83.91	-88.46	-4,532.10	4,163.13	4,250.62	4,130.55	120.07	35.401		
16,100.00	12,004.02	15,867.59	11,863.00	87.46	85.40	-88.50	-4,632.01	4,164.11	4,250.67	4,128.52	122.15	34.799		
16,200.00	12,005.10	15,967.56	11,866.49	88.91	86.90	-88.53	-4,731.91	4,165.09	4,250.72	4,126.48	124.24	34.214		
16,300.00	12,006.18	16,067.53	11,869.98	90.38	88.40	-88.56	-4,831.82	4,166.08	4,250.77	4,124.43	126.34	33.646		
16,400.00	12,007.26	16,167.50	11,873.47	91.85	89.91	-88.59	-4,931.72	4,167.06	4,250.82	4,122.38	128.44	33.095		
16,500.00	12,008.34	16,267.47	11,876.96	93.32	91.42	-88.63	-5,031.63	4,168.04	4,250.87	4,120.32	130.56	32.560		
16,600.00	12,009.42	16,367.45	11,880.45	94.80	92.94	-88.66	-5,131.53	4,169.03	4,250.93	4,118.25	132.68	32.040		
16,700.00	12,010.50	16,467.42	11,883.95	96.29	94.46	-88.69	-5,231.44	4,170.01	4,250.98	4,116.18	134.81	31.534		
16,800.00	12,011.59	16,567.39	11,887.44	97.78	95.98	-88.72	-5,331.34	4,170.99	4,251.04	4,114.10	136.94	31.043		
16,900.00	12,012.67	16,667.36	11,890.93	99.28	97.51	-88.76	-5,431.25	4,171.98	4,251.10	4,112.02	139.08	30.565		
17,000.00	12,013.75	16,767.33	11,894.42	100.78	99.05	-88.79	-5,531.15	4,172.96	4,251.16	4,109.93	141.23	30.101		
17,100.00	12,014.83	16,867.30	11,897.91	102.29	100.58	-88.82	-5,631.06	4,173.94	4,251.22	4,107.84	143.39	29.649		
17,200.00	12,015.91	16,967.27	11,901.40	103.80	102.12	-88.85	-5,730.96	4,174.93	4,251.28	4,105.74	145.54	29.209		
17,300.00	12,016.99	17,067.24	11,904.89	105.32	103.67	-88.89	-5,830.87	4,175.91	4,251.35	4,103.64	147.71	28.782		
17,400.00	12,018.07	17,167.21	11,908.38	106.84	105.21	-88.92	-5,930.77	4,176.90	4,251.41	4,101.53	149.88	28.365		
17,500.00	12,019.15	17,267.18	11,911.88	108.36	106.76	-88.95	-6,030.68	4,177.88	4,251.48	4,099.43	152.05	27.960		
17,600.00	12,020.23	17,367.15	11,915.37	109.89	108.32	-88.98	-6,130.58	4,178.86	4,251.55	4,097.32	154.23	27.565		
17,700.00	12,021.31	17,467.12	11,918.86	111.42	109.87	-89.02	-6,230.49	4,179.85	4,251.62	4,095.20	156.42	27.181		
17,800.00	12,022.39	17,567.10	11,922.35	112.95	111.43	-89.05	-6,330.39	4,180.83	4,251.69	4,093.08	158.61	26.806		
17,900.00	12,023.47	17,667.07	11,925.84	114.49	112.99	-89.08	-6,430.30	4,181.81	4,251.76	4,090.96	160.80	26.441		
18,000.00	12,024.56	17,767.04	11,929.33	116.03	114.56	-89.11	-6,530.20	4,182.80	4,251.84	4,088.84	163.00	26.085		
18,100.00	12,025.64	17,867.01	11,932.82	117.57	116.12	-89.15	-6,630.11	4,183.78	4,251.91	4,086.72	165.20	25.738		
18,200.00	12,026.72	17,966.98	11,936.32	119.12	117.69	-89.18	-6,730.01	4,184.76	4,251.99	4,084.59	167.40	25.400		
18,300.00	12,027.80	18,066.95	11,939.81	120.67	119.26	-89.21	-6,829.92	4,185.75	4,252.07	4,082.46	169.61	25.070		
18,400.00	12,028.88	18,166.92	11,943.30	122.22	120.84	-89.24	-6,929.82	4,186.73	4,252.15	4,080.33	171.82	24.747		
18,500.00	12,029.96	18,266.89	11,946.79	123.78	122.41	-89.28	-7,029.73	4,187.71	4,252.23	4,078.19	174.04	24.433		
18,600.00	12,031.04	18,366.86	11,950.28	125.33	123.99	-89.31	-7,129.64	4,188.70	4,252.31	4,076.06	176.25	24.126		
18,700.00	12,032.12	18,466.83	11,953.77	126.89	125.57	-89.34	-7,229.54	4,189.68	4,252.39	4,073.92	178.48	23.826		
18,800.00	12,033.20	18,566.80	11,957.26	128.46	127.15	-89.37	-7,329.45	4,190.66	4,252.48	4,071.78	180.70	23.534		
18,900.00	12,034.28	18,666.77	11,960.75	130.02	128.73	-89.41	-7,429.35	4,191.65	4,252.57	4,069.64	182.93	23.248		

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



Total Directional Services Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Judge Baylor Fed Com 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
19,000.00	12,035.36	18,766.75	11,964.25	131.59	130.32	-89.44	-7,529.26	4,192.63	4,252.65	4,067.50	185.15	22.968		
19,100.00	12,036.44	18,866.72	11,967.74	133.16	131.90	-89.47	-7,629.16	4,193.62	4,252.74	4,065.36	187.39	22.695		
19,200.00	12,037.52	18,966.69	11,971.23	134.73	133.49	-89.50	-7,729.07	4,194.60	4,252.83	4,063.21	189.62	22.428		
19,300.00	12,038.61	19,066.66	11,974.72	136.30	135.08	-89.54	-7,828.97	4,195.58	4,252.92	4,061.07	191.86	22.167		
19,400.00	12,039.69	19,166.63	11,978.21	137.87	136.67	-89.57	-7,928.88	4,196.57	4,253.02	4,058.92	194.10	21.912		
19,500.00	12,040.77	19,266.60	11,981.70	139.45	138.26	-89.60	-8,028.78	4,197.55	4,253.11	4,056.77	196.34	21.662		
19,600.00	12,041.85	19,366.57	11,985.19	141.03	139.86	-89.63	-8,128.69	4,198.53	4,253.21	4,054.63	198.58	21.418		
19,700.00	12,042.93	19,466.54	11,988.68	142.61	141.45	-89.67	-8,228.59	4,199.52	4,253.31	4,052.48	200.83	21.179		
19,800.00	12,044.01	19,566.51	11,992.18	144.19	143.05	-89.70	-8,328.50	4,200.50	4,253.40	4,050.33	203.07	20.945		
19,900.00	12,045.09	19,666.48	11,995.67	145.77	144.64	-89.73	-8,428.40	4,201.48	4,253.50	4,048.18	205.32	20.716		
20,000.00	12,046.17	19,766.45	11,999.16	147.35	146.24	-89.76	-8,528.31	4,202.47	4,253.61	4,046.03	207.57	20.492		
20,100.00	12,047.25	19,866.42	12,002.65	148.94	147.84	-89.80	-8,628.21	4,203.45	4,253.71	4,043.88	209.83	20.272		
20,200.00	12,048.33	19,966.40	12,006.14	150.53	149.44	-89.83	-8,728.12	4,204.43	4,253.81	4,041.73	212.08	20.057		
20,300.00	12,049.41	20,066.37	12,009.63	152.11	151.04	-89.86	-8,828.02	4,205.42	4,253.92	4,039.58	214.34	19.847		
20,400.00	12,050.49	20,166.34	12,013.12	153.70	152.65	-89.89	-8,927.93	4,206.40	4,254.02	4,037.43	216.60	19.640		
20,500.00	12,051.57	20,266.31	12,016.62	155.30	154.25	-89.93	-9,027.83	4,207.38	4,254.13	4,035.28	218.86	19.438		
20,600.00	12,052.66	20,366.28	12,020.11	156.89	155.86	-89.96	-9,127.74	4,208.37	4,254.24	4,033.12	221.12	19.240		
20,700.00	12,053.74	20,466.25	12,023.60	158.48	157.46	-89.99	-9,227.64	4,209.35	4,254.35	4,030.97	223.38	19.045		
20,800.00	12,054.82	20,566.22	12,027.09	160.08	159.07	-90.02	-9,327.55	4,210.34	4,254.47	4,028.82	225.65	18.855		
20,900.00	12,055.90	20,666.19	12,030.58	161.67	160.68	-90.06	-9,427.45	4,211.32	4,254.58	4,026.67	227.91	18.668		
21,000.00	12,056.98	20,766.16	12,034.07	163.27	162.28	-90.09	-9,527.36	4,212.30	4,254.69	4,024.52	230.18	18.484		
21,100.00	12,058.06	20,866.13	12,037.56	164.87	163.89	-90.12	-9,627.26	4,213.29	4,254.81	4,022.36	232.45	18.304		
21,200.00	12,059.14	20,966.10	12,041.05	166.47	165.50	-90.15	-9,727.17	4,214.27	4,254.93	4,020.21	234.72	18.128		
21,300.00	12,060.22	21,066.07	12,044.55	168.07	167.11	-90.19	-9,827.07	4,215.25	4,255.05	4,018.06	236.99	17.955		
21,400.00	12,061.30	21,166.05	12,048.04	169.67	168.73	-90.22	-9,926.98	4,216.24	4,255.17	4,015.91	239.26	17.785		
21,500.00	12,062.38	21,266.02	12,051.53	171.27	170.34	-90.25	-10,026.88	4,217.22	4,255.29	4,013.76	241.53	17.618		
21,600.00	12,063.46	21,365.99	12,055.02	172.87	171.95	-90.28	-10,126.79	4,218.20	4,255.41	4,011.61	243.81	17.454		
21,700.00	12,064.54	21,465.96	12,058.51	174.48	173.57	-90.32	-10,226.69	4,219.19	4,255.54	4,009.46	246.08	17.293		
21,800.00	12,065.62	21,565.93	12,062.00	176.08	175.18	-90.35	-10,326.60	4,220.17	4,255.66	4,007.30	248.36	17.135		
21,900.00	12,066.71	21,665.90	12,065.49	177.69	176.80	-90.38	-10,426.50	4,221.15	4,255.79	4,005.15	250.64	16.980		
22,000.00	12,067.79	21,765.87	12,068.99	179.30	178.41	-90.41	-10,526.41	4,222.14	4,255.92	4,003.00	252.92	16.827		
22,100.31	12,068.87	21,866.15	12,072.49	180.91	180.03	-90.45	-10,626.62	4,223.12	4,256.05	4,000.85	255.20	16.677		
22,101.01	12,068.88	21,866.85	12,072.51	180.92	180.04	-90.45	-10,627.32	4,223.13	4,256.05	4,000.83	255.22	16.676 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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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	40.18	4,309.67	4,309.96					
100.00	100.00	70.90	70.90	0.14	0.09	89.47	40.18	4,309.67	4,309.86	4,309.69	0.17	N/A		
200.00	200.00	170.90	170.90	0.50	0.38	89.47	40.18	4,309.67	4,309.86	4,309.23	0.63	6,864.601		
300.00	300.00	270.90	270.90	0.86	0.74	89.47	40.18	4,309.67	4,309.86	4,308.73	1.13	3,806.630		
400.00	400.00	370.90	370.90	1.22	1.10	89.47	40.18	4,309.67	4,309.86	4,308.22	1.64	2,630.913		
500.00	500.00	470.90	470.90	1.58	1.46	89.47	40.18	4,309.67	4,309.86	4,307.71	2.14	2,009.640		
600.00	600.00	570.90	570.90	1.93	1.81	89.47	40.18	4,309.67	4,309.86	4,307.21	2.65	1,625.610		
700.00	700.00	670.90	670.90	2.29	2.17	89.47	40.18	4,309.67	4,309.86	4,306.70	3.16	1,364.760		
800.00	800.00	770.90	770.90	2.65	2.53	89.47	40.18	4,309.67	4,309.86	4,306.19	3.66	1,176.028		
900.00	900.00	870.90	870.90	3.01	2.89	89.47	40.18	4,309.67	4,309.86	4,305.69	4.17	1,033.145		
1,000.00	1,000.00	970.90	970.90	3.37	3.25	89.47	40.18	4,309.67	4,309.86	4,305.18	4.68	921.214		
1,100.00	1,100.00	1,070.90	1,070.90	3.73	3.61	89.47	40.18	4,309.67	4,309.86	4,304.67	5.19	831.163		
1,200.00	1,200.00	1,170.90	1,170.90	4.08	3.96	89.47	40.18	4,309.67	4,309.86	4,304.17	5.69	757.148		
1,300.00	1,300.00	1,270.90	1,270.90	4.44	4.32	89.47	40.18	4,309.67	4,309.86	4,303.66	6.20	695.236		
1,400.00	1,400.00	1,370.90	1,370.90	4.80	4.68	89.47	40.18	4,309.67	4,309.86	4,303.15	6.71	642.683		
1,500.00	1,500.00	1,470.90	1,470.90	5.16	5.04	89.47	40.18	4,309.67	4,309.86	4,302.64	7.21	597.516		
1,600.00	1,600.00	1,570.90	1,570.90	5.52	5.40	89.47	40.18	4,309.67	4,309.86	4,302.14	7.72	558.280		
1,700.00	1,700.00	1,670.90	1,670.90	5.88	5.76	89.47	40.18	4,309.67	4,309.86	4,301.63	8.23	523.880		
1,800.00	1,800.00	1,770.90	1,770.90	6.24	6.12	89.47	40.18	4,309.67	4,309.86	4,301.12	8.73	493.472		
1,900.00	1,900.00	1,870.90	1,870.90	6.59	6.47	89.47	40.18	4,309.67	4,309.86	4,300.62	9.24	466.401		
2,000.00	2,000.00	1,970.90	1,970.90	6.95	6.83	89.47	40.18	4,309.67	4,309.86	4,300.11	9.75	442.145		
2,100.00	2,100.00	2,070.90	2,070.90	7.31	7.19	89.47	40.18	4,309.67	4,309.86	4,299.60	10.25	420.288		
2,200.00	2,200.00	2,170.90	2,170.90	7.67	7.55	89.47	40.18	4,309.67	4,309.86	4,299.10	10.76	400.489		
2,300.00	2,300.00	2,270.90	2,270.90	8.03	7.91	89.47	40.18	4,309.67	4,309.86	4,298.59	11.27	382.472		
2,400.00	2,400.00	2,370.90	2,370.90	8.39	8.27	89.47	40.18	4,309.67	4,309.86	4,298.08	11.78	366.006		
2,500.00	2,500.00	2,470.90	2,470.90	8.74	8.62	89.47	40.18	4,309.67	4,309.86	4,297.58	12.28	350.900		
2,600.00	2,600.00	2,570.90	2,570.90	9.10	8.98	89.47	40.18	4,309.67	4,309.86	4,297.07	12.79	336.991		
2,700.00	2,700.00	2,670.90	2,670.90	9.46	9.34	89.47	40.18	4,309.67	4,309.86	4,296.56	13.30	324.142	CC	
2,800.00	2,800.00	2,745.78	2,745.78	9.82	9.60	89.47	39.94	4,309.81	4,310.06	4,296.33	13.73	313.818	ES	
2,900.00	2,900.00	2,800.00	2,799.99	10.18	9.79	89.48	39.04	4,310.32	4,311.08	4,296.96	14.12	305.340		
3,000.00	3,000.00	2,874.82	2,874.76	10.54	10.03	89.51	36.70	4,311.65	4,312.88	4,298.33	14.54	296.523		
3,100.00	3,100.00	2,939.20	2,939.05	10.90	10.24	89.55	33.67	4,313.37	4,315.52	4,300.57	14.95	288.723		
3,200.00	3,200.00	3,023.91	3,023.55	11.25	10.52	89.62	28.62	4,316.24	4,318.85	4,303.45	15.40	280.497		
3,300.00	3,300.00	3,123.66	3,123.07	11.61	10.85	89.70	22.58	4,319.68	4,322.27	4,306.38	15.88	272.107		
3,400.00	3,400.00	3,223.42	3,222.58	11.97	11.19	89.78	16.53	4,323.12	4,325.69	4,309.32	16.37	264.188		
3,500.00	3,500.00	3,323.18	3,322.09	12.33	11.52	89.86	10.49	4,326.55	4,329.12	4,312.26	16.86	256.704		
3,600.00	3,600.00	3,422.93	3,421.61	12.69	11.86	89.94	4.44	4,329.99	4,332.57	4,315.21	17.36	249.622		
3,700.00	3,700.00	3,522.69	3,521.12	13.05	12.20	90.02	-1.60	4,333.43	4,336.02	4,318.17	17.85	242.912		
3,720.00	3,720.00	3,542.64	3,541.02	13.12	12.27	90.04	-2.81	4,334.12	4,336.71	4,318.76	17.95	241.611		
3,800.00	3,799.99	3,622.48	3,620.67	13.39	12.55	-112.09	-7.65	4,336.87	4,339.79	4,321.45	18.33	236.698		
3,900.00	3,899.93	3,722.32	3,720.27	13.72	12.89	-111.99	-13.70	4,340.31	4,344.53	4,325.73	18.81	231.025		
4,000.00	3,999.75	3,822.15	3,819.85	14.04	13.24	-111.90	-19.75	4,343.75	4,350.25	4,330.97	19.28	225.656		
4,053.02	4,052.60	3,875.06	3,872.63	14.21	13.42	-111.86	-22.96	4,345.57	4,353.68	4,334.15	19.53	222.925		
4,100.00	4,099.40	3,921.92	3,919.38	14.37	13.59	-111.87	-25.80	4,347.18	4,356.84	4,337.09	19.75	220.564		
4,200.00	4,199.02	4,021.67	4,018.89	14.70	13.94	-111.90	-31.84	4,350.62	4,363.57	4,343.34	20.23	215.689		
4,300.00	4,298.64	4,121.43	4,118.40	15.03	14.29	-111.93	-37.89	4,354.06	4,370.30	4,349.59	20.71	211.010		
4,400.00	4,398.26	4,221.18	4,217.91	15.36	14.64	-111.95	-43.93	4,357.50	4,377.03	4,355.83	21.19	206.519		
4,500.00	4,497.88	4,320.93	4,317.42	15.70	14.99	-111.98	-49.98	4,360.93	4,383.76	4,362.08	21.68	202.205		
4,600.00	4,597.50	4,420.68	4,416.93	16.04	15.35	-112.01	-56.02	4,364.37	4,390.49	4,368.32	22.17	198.060		
4,700.00	4,697.12	4,520.44	4,516.44	16.38	15.70	-112.03	-62.07	4,367.81	4,397.22	4,374.56	22.66	194.075		
4,800.00	4,796.74	4,620.19	4,615.95	16.73	16.06	-112.06	-68.11	4,371.24	4,403.95	4,380.80	23.15	190.243		
4,900.00	4,896.36	4,719.94	4,715.46	17.07	16.42	-112.09	-74.16	4,374.68	4,410.68	4,387.04	23.64	186.555		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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	4,995.98	4,819.70	4,814.97	17.42	16.78	-112.11	-80.20	4,378.12	4,417.42	4,393.28	24.14	183.005		
5,100.00	5,095.60	4,919.45	4,914.48	17.77	17.13	-112.14	-86.25	4,381.56	4,424.15	4,399.52	24.64	179.586		
5,200.00	5,195.22	5,019.20	5,013.99	18.12	17.49	-112.16	-92.29	4,384.99	4,430.89	4,405.75	25.13	176.291		
5,300.00	5,294.84	5,118.95	5,113.50	18.47	17.85	-112.19	-98.34	4,388.43	4,437.63	4,411.99	25.63	173.115		
5,400.00	5,394.46	5,218.71	5,213.01	18.82	18.21	-112.22	-104.39	4,391.87	4,444.36	4,418.23	26.14	170.052		
5,500.00	5,494.08	5,318.46	5,312.52	19.18	18.58	-112.24	-110.43	4,395.30	4,451.10	4,424.46	26.64	167.095		
5,600.00	5,593.70	5,418.21	5,412.03	19.53	18.94	-112.27	-116.48	4,398.74	4,457.84	4,430.70	27.14	164.241		
5,700.00	5,693.32	5,517.97	5,511.54	19.89	19.30	-112.29	-122.52	4,402.18	4,464.58	4,436.94	27.65	161.485		
5,800.00	5,792.94	5,617.72	5,611.05	20.25	19.66	-112.32	-128.57	4,405.62	4,471.32	4,443.17	28.15	158.821		
5,900.00	5,892.56	5,717.47	5,710.56	20.61	20.03	-112.34	-134.61	4,409.05	4,478.07	4,449.41	28.66	156.245		
6,000.00	5,992.18	5,817.22	5,810.07	20.97	20.39	-112.37	-140.66	4,412.49	4,484.81	4,455.64	29.17	153.754		
6,100.00	6,091.80	5,916.98	5,909.58	21.33	20.76	-112.39	-146.70	4,415.93	4,491.55	4,461.88	29.68	151.344		
6,200.00	6,191.42	6,016.73	6,009.09	21.69	21.12	-112.42	-152.75	4,419.37	4,498.30	4,468.11	30.19	149.010		
6,300.00	6,291.04	6,116.48	6,108.60	22.05	21.49	-112.44	-158.79	4,422.80	4,505.04	4,474.35	30.70	146.750		
6,400.00	6,390.66	6,216.23	6,208.11	22.42	21.85	-112.47	-164.84	4,426.24	4,511.79	4,480.58	31.21	144.561		
6,500.00	6,490.28	6,315.99	6,307.62	22.78	22.22	-112.49	-170.88	4,429.68	4,518.54	4,486.82	31.72	142.438		
6,600.00	6,589.90	6,415.74	6,407.13	23.15	22.58	-112.52	-176.93	4,433.11	4,525.29	4,493.05	32.24	140.380		
6,700.00	6,689.52	6,515.49	6,506.64	23.51	22.95	-112.54	-182.97	4,436.55	4,532.04	4,499.29	32.75	138.384		
6,800.00	6,789.14	6,615.25	6,606.15	23.88	23.32	-112.57	-189.02	4,439.99	4,538.79	4,505.52	33.26	136.447		
6,900.00	6,888.77	6,715.00	6,705.66	24.24	23.68	-112.59	-195.06	4,443.43	4,545.54	4,511.76	33.78	134.564		
7,000.00	6,988.39	6,830.53	6,820.92	24.61	24.11	-112.62	-201.98	4,447.36	4,552.27	4,517.93	34.34	132.576		
7,100.00	7,088.01	7,067.17	7,057.41	24.98	24.95	-112.78	-208.49	4,451.06	4,557.18	4,521.98	35.20	129.466		
7,200.00	7,187.63	7,168.29	7,158.53	25.35	25.29	-112.88	-208.49	4,451.06	4,560.57	4,524.87	35.70	127.742		
7,300.00	7,287.25	7,267.91	7,258.15	25.72	25.63	-112.98	-208.49	4,451.06	4,563.97	4,527.77	36.20	126.077		
7,400.00	7,386.87	7,367.53	7,357.77	26.09	25.97	-113.08	-208.49	4,451.06	4,567.39	4,530.69	36.70	124.455		
7,455.75	7,442.40	7,423.07	7,413.30	26.29	26.16	-113.14	-208.49	4,451.06	4,569.30	4,532.32	36.98	123.569		
7,500.00	7,486.51	7,467.17	7,457.41	26.46	26.31	-113.20	-208.49	4,451.06	4,570.72	4,533.52	37.20	122.873		
7,600.00	7,586.31	7,566.98	7,557.21	26.82	26.65	-113.31	-208.49	4,451.06	4,573.19	4,535.49	37.70	121.320		
7,700.00	7,686.24	7,666.91	7,657.14	27.18	26.99	-113.37	-208.49	4,451.06	4,574.63	4,536.44	38.19	119.793		
7,788.77	7,775.00	7,755.67	7,745.90	27.48	27.29	88.84	-208.49	4,451.06	4,575.04	4,536.42	38.62	118.463		
7,800.00	7,786.23	7,766.90	7,757.13	27.52	27.33	88.84	-208.49	4,451.06	4,575.04	4,536.36	38.67	118.297		
7,900.00	7,886.23	7,866.90	7,857.13	27.86	27.67	88.84	-208.49	4,451.06	4,575.04	4,535.88	39.16	116.834		
8,000.00	7,986.23	7,966.90	7,957.13	28.20	28.02	88.84	-208.49	4,451.06	4,575.04	4,535.40	39.64	115.406		
8,100.00	8,086.23	8,066.90	8,057.13	28.55	28.36	88.84	-208.49	4,451.06	4,575.04	4,534.91	40.13	114.010		
8,200.00	8,186.23	8,166.90	8,157.13	28.89	28.70	88.84	-208.49	4,451.06	4,575.04	4,534.42	40.61	112.647		
8,300.00	8,286.23	8,266.90	8,257.13	29.23	29.04	88.84	-208.49	4,451.06	4,575.04	4,533.94	41.10	111.314		
8,400.00	8,386.23	8,366.90	8,357.13	29.58	29.39	88.84	-208.49	4,451.06	4,575.04	4,533.45	41.59	110.011		
8,500.00	8,486.23	8,466.90	8,457.13	29.92	29.73	88.84	-208.49	4,451.06	4,575.04	4,532.96	42.07	108.737		
8,600.00	8,586.23	8,566.90	8,557.13	30.26	30.08	88.84	-208.49	4,451.06	4,575.04	4,532.48	42.56	107.492		
8,700.00	8,686.23	8,666.90	8,657.13	30.61	30.42	88.84	-208.49	4,451.06	4,575.04	4,531.99	43.05	106.273		
8,800.00	8,786.23	8,766.90	8,757.13	30.95	30.77	88.84	-208.49	4,451.06	4,575.04	4,531.50	43.54	105.080		
8,900.00	8,886.23	8,866.90	8,857.13	31.30	31.11	88.84	-208.49	4,451.06	4,575.04	4,531.01	44.03	103.913		
9,000.00	8,986.23	8,966.90	8,957.13	31.64	31.46	88.84	-208.49	4,451.06	4,575.04	4,530.52	44.52	102.771		
9,100.00	9,086.23	9,066.90	9,057.13	31.99	31.80	88.84	-208.49	4,451.06	4,575.04	4,530.03	45.01	101.653		
9,200.00	9,186.23	9,166.90	9,157.13	32.33	32.15	88.84	-208.49	4,451.06	4,575.04	4,529.54	45.50	100.557		
9,300.00	9,286.23	9,266.90	9,257.13	32.68	32.50	88.84	-208.49	4,451.06	4,575.04	4,529.05	45.99	99.485		
9,400.00	9,386.23	9,366.90	9,357.13	33.03	32.84	88.84	-208.49	4,451.06	4,575.04	4,528.56	46.48	98.434		
9,500.00	9,486.23	9,466.90	9,457.13	33.37	33.19	88.84	-208.49	4,451.06	4,575.04	4,528.07	46.97	97.405		
9,600.00	9,586.23	9,566.90	9,557.13	33.72	33.54	88.84	-208.49	4,451.06	4,575.04	4,527.58	47.46	96.396		
9,700.00	9,686.23	9,666.90	9,657.13	34.07	33.89	88.84	-208.49	4,451.06	4,575.04	4,527.09	47.95	95.407		
9,800.00	9,786.23	9,766.90	9,757.13	34.42	34.23	88.84	-208.49	4,451.06	4,575.04	4,526.59	48.44	94.438		
9,900.00	9,886.23	9,866.90	9,857.13	34.76	34.58	88.84	-208.49	4,451.06	4,575.04	4,526.10	48.94	93.488		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
10,000.00	9,986.23	9,966.90	9,957.13	35.11	34.93	88.84	-208.49	4,451.06	4,575.04	4,525.61	49.43	92.556		
10,100.00	10,086.23	10,066.90	10,057.13	35.46	35.28	88.84	-208.49	4,451.06	4,575.04	4,525.12	49.92	91.642		
10,200.00	10,186.23	10,166.90	10,157.13	35.81	35.63	88.84	-208.49	4,451.06	4,575.04	4,524.62	50.42	90.745		
10,300.00	10,286.23	10,266.90	10,257.13	36.16	35.98	88.84	-208.49	4,451.06	4,575.04	4,524.13	50.91	89.865		
10,400.00	10,386.23	10,366.90	10,357.13	36.50	36.33	88.84	-208.49	4,451.06	4,575.04	4,523.63	51.40	89.002		
10,500.00	10,486.23	10,466.90	10,457.13	36.85	36.67	88.84	-208.49	4,451.06	4,575.04	4,523.14	51.90	88.155		
10,600.00	10,586.23	10,566.90	10,557.13	37.20	37.02	88.84	-208.49	4,451.06	4,575.04	4,522.65	52.39	87.323		
10,700.00	10,686.23	10,666.90	10,657.13	37.55	37.37	88.84	-208.49	4,451.06	4,575.04	4,522.15	52.89	86.506		
10,800.00	10,786.23	10,766.90	10,757.13	37.90	37.72	88.84	-208.49	4,451.06	4,575.04	4,521.66	53.38	85.704		
10,900.00	10,886.23	10,866.90	10,857.13	38.25	38.07	88.84	-208.49	4,451.06	4,575.04	4,521.16	53.88	84.917		
11,000.00	10,986.23	10,966.90	10,957.13	38.60	38.42	88.84	-208.49	4,451.06	4,575.04	4,520.67	54.37	84.143		
11,100.00	11,086.23	11,066.90	11,057.13	38.95	38.77	88.84	-208.49	4,451.06	4,575.04	4,520.17	54.87	83.383		
11,200.00	11,186.23	11,166.90	11,157.13	39.30	39.12	88.84	-208.49	4,451.06	4,575.04	4,519.68	55.36	82.637		
11,300.00	11,286.23	11,266.90	11,257.13	39.65	39.47	88.84	-208.49	4,451.06	4,575.04	4,519.18	55.86	81.903		
11,403.77	11,390.00	11,370.67	11,360.90	40.01	39.84	88.84	-208.49	4,451.06	4,575.04	4,518.66	56.37	81.155		
11,450.00	11,436.18	11,418.75	11,408.97	40.18	40.01	-90.68	-208.91	4,451.06	4,575.06	4,518.45	56.61	80.820		
11,500.00	11,485.78	11,473.52	11,463.52	40.36	40.20	-90.70	-213.62	4,451.11	4,575.08	4,518.21	56.87	80.446		
11,550.00	11,534.65	11,528.49	11,517.56	40.54	40.40	-90.72	-223.56	4,451.21	4,575.11	4,517.97	57.14	80.062		
11,600.00	11,582.42	11,583.60	11,570.54	40.73	40.60	-90.73	-238.68	4,451.36	4,575.14	4,517.71	57.43	79.671		
11,650.00	11,628.72	11,638.81	11,621.91	40.93	40.81	-90.74	-258.86	4,451.55	4,575.17	4,517.45	57.71	79.273		
11,700.00	11,673.21	11,694.06	11,671.14	41.13	41.02	-90.74	-283.90	4,451.80	4,575.19	4,517.18	58.01	78.870		
11,750.00	11,715.54	11,749.31	11,717.71	41.33	41.24	-90.73	-313.56	4,452.09	4,575.22	4,516.91	58.31	78.462		
11,800.00	11,755.40	11,804.48	11,761.17	41.54	41.46	-90.72	-347.53	4,452.42	4,575.24	4,516.62	58.62	78.047		
11,850.00	11,792.47	11,859.54	11,801.08	41.76	41.69	-90.70	-385.43	4,452.79	4,575.26	4,516.32	58.94	77.627		
11,900.00	11,826.48	11,914.44	11,837.06	41.98	41.93	-90.67	-426.86	4,453.20	4,575.28	4,516.02	59.27	77.200		
11,950.00	11,857.17	11,969.12	11,868.80	42.21	42.17	-90.64	-471.36	4,453.63	4,575.30	4,515.70	59.60	76.767		
12,000.00	11,884.30	12,023.55	11,896.04	42.45	42.42	-90.61	-518.45	4,454.10	4,575.32	4,515.38	59.94	76.328		
12,050.00	11,907.67	12,077.68	11,918.58	42.69	42.67	-90.57	-567.64	4,454.58	4,575.34	4,515.05	60.29	75.884		
12,100.00	11,927.10	12,131.48	11,936.28	42.94	42.93	-90.52	-618.42	4,455.07	4,575.36	4,514.71	60.65	75.436		
12,150.00	11,942.45	12,184.91	11,949.07	43.19	43.19	-90.47	-670.28	4,455.58	4,575.38	4,514.37	61.02	74.986		
12,200.00	11,953.59	12,237.97	11,956.94	43.45	43.45	-90.42	-722.73	4,456.10	4,575.41	4,514.02	61.39	74.536		
12,250.00	11,960.44	12,290.06	11,960.02	43.71	43.71	-90.36	-774.71	4,456.61	4,575.43	4,513.68	61.75	74.091		
12,297.58	11,962.92	12,337.61	11,961.47	43.97	43.96	-90.35	-822.23	4,457.07	4,575.48	4,513.37	62.11	73.666		
12,300.00	11,962.95	12,340.03	11,961.54	43.98	43.98	-90.35	-824.66	4,457.09	4,575.48	4,513.35	62.13	73.645		
12,400.00	11,964.03	12,440.01	11,964.59	44.54	44.54	-90.37	-924.59	4,458.07	4,575.60	4,512.68	62.92	72.720		
12,500.00	11,965.11	12,539.99	11,967.64	45.15	45.15	-90.40	-1,024.51	4,459.05	4,575.72	4,511.93	63.79	71.733		
12,600.00	11,966.19	12,639.97	11,970.69	45.81	45.82	-90.42	-1,124.44	4,460.03	4,575.84	4,511.11	64.73	70.693		
12,700.00	11,967.27	12,739.95	11,973.73	46.52	46.54	-90.45	-1,224.37	4,461.01	4,575.96	4,510.22	65.74	69.609		
12,800.00	11,968.35	12,839.93	11,976.78	47.28	47.30	-90.47	-1,324.30	4,461.99	4,576.09	4,509.27	66.81	68.490		
12,900.00	11,969.44	12,939.91	11,979.83	48.09	48.11	-90.50	-1,424.23	4,462.97	4,576.21	4,508.26	67.95	67.344		
13,000.00	11,970.52	13,039.89	11,982.88	48.93	48.95	-90.52	-1,524.16	4,463.95	4,576.33	4,507.18	69.15	66.177		
13,100.00	11,971.60	13,139.87	11,985.92	49.82	49.84	-90.54	-1,624.09	4,464.92	4,576.46	4,506.05	70.41	64.998		
13,200.00	11,972.68	13,239.86	11,988.97	50.75	50.77	-90.57	-1,724.02	4,465.90	4,576.58	4,504.86	71.72	63.812		
13,300.00	11,973.76	13,339.84	11,992.02	51.71	51.74	-90.59	-1,823.95	4,466.88	4,576.71	4,503.63	73.08	62.625		
13,400.00	11,974.84	13,439.82	11,995.07	52.70	52.73	-90.62	-1,923.88	4,467.86	4,576.84	4,502.35	74.49	61.441		
13,500.00	11,975.92	13,539.80	11,998.12	53.73	53.76	-90.64	-2,023.81	4,468.84	4,576.97	4,501.02	75.95	60.265		
13,600.00	11,977.00	13,639.78	12,001.16	54.79	54.82	-90.67	-2,123.74	4,469.82	4,577.10	4,499.65	77.45	59.100		
13,700.00	11,978.08	13,739.76	12,004.21	55.88	55.91	-90.69	-2,223.67	4,470.80	4,577.23	4,498.24	78.99	57.950		
13,800.00	11,979.16	13,839.74	12,007.26	56.99	57.03	-90.72	-2,323.60	4,471.77	4,577.36	4,496.79	80.56	56.817		
13,900.00	11,980.24	13,939.72	12,010.31	58.13	58.17	-90.74	-2,423.53	4,472.75	4,577.49	4,495.31	82.18	55.703		
14,000.00	11,981.32	14,039.70	12,013.35	59.30	59.34	-90.77	-2,523.45	4,473.73	4,577.62	4,493.80	83.83	54.609		
14,100.00	11,982.40	14,139.68	12,016.40	60.48	60.52	-90.79	-2,623.38	4,474.71	4,577.76	4,492.25	85.50	53.538		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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		
14,200.00	11,983.49	14,239.66	12,019.45	61.69	61.73	-90.82	-2,723.31	4,475.69	4,577.89	4,490.68	87.22	52.490		
14,300.00	11,984.57	14,339.64	12,022.50	62.92	62.96	-90.84	-2,823.24	4,476.67	4,578.03	4,489.07	88.95	51.465		
14,400.00	11,985.65	14,439.62	12,025.54	64.17	64.21	-90.86	-2,923.17	4,477.65	4,578.16	4,487.44	90.72	50.465		
14,500.00	11,986.73	14,539.60	12,028.59	65.44	65.48	-90.89	-3,023.10	4,478.63	4,578.30	4,485.79	92.51	49.490		
14,600.00	11,987.81	14,639.58	12,031.64	66.72	66.76	-90.91	-3,123.03	4,479.60	4,578.44	4,484.11	94.32	48.540		
14,700.00	11,988.89	14,739.56	12,034.69	68.02	68.06	-90.94	-3,222.96	4,480.58	4,578.58	4,482.42	96.16	47.614		
14,800.00	11,989.97	14,839.54	12,037.73	69.33	69.37	-90.96	-3,322.89	4,481.56	4,578.72	4,480.70	98.02	46.713		
14,900.00	11,991.05	14,939.53	12,040.78	70.66	70.70	-90.99	-3,422.82	4,482.54	4,578.86	4,478.96	99.90	45.836		
15,000.00	11,992.13	15,039.51	12,043.83	72.00	72.04	-91.01	-3,522.75	4,483.52	4,579.00	4,477.20	101.79	44.983		
15,100.00	11,993.21	15,139.49	12,046.88	73.35	73.40	-91.04	-3,622.68	4,484.50	4,579.14	4,475.43	103.71	44.154		
15,200.00	11,994.29	15,239.47	12,049.93	74.72	74.76	-91.06	-3,722.61	4,485.48	4,579.28	4,473.64	105.64	43.348		
15,300.00	11,995.37	15,339.45	12,052.97	76.10	76.14	-91.09	-3,822.54	4,486.45	4,579.43	4,471.84	107.59	42.565		
15,400.00	11,996.45	15,439.43	12,056.02	77.48	77.53	-91.11	-3,922.47	4,487.43	4,579.57	4,470.02	109.55	41.804		
15,500.00	11,997.54	15,539.41	12,059.07	78.88	78.93	-91.13	-4,022.39	4,488.41	4,579.72	4,468.19	111.53	41.064		
15,600.00	11,998.62	15,639.39	12,062.12	80.29	80.33	-91.16	-4,122.32	4,489.39	4,579.86	4,466.34	113.52	40.345		
15,700.00	11,999.70	15,739.37	12,065.16	81.71	81.75	-91.18	-4,222.25	4,490.37	4,580.01	4,464.49	115.52	39.647		
15,800.00	12,000.78	15,839.35	12,068.21	83.13	83.18	-91.21	-4,322.18	4,491.35	4,580.16	4,462.62	117.54	38.968		
15,900.00	12,001.86	15,939.33	12,071.26	84.57	84.61	-91.23	-4,422.11	4,492.33	4,580.31	4,460.74	119.56	38.309		
16,000.00	12,002.94	16,039.31	12,074.31	86.01	86.05	-91.26	-4,522.04	4,493.31	4,580.46	4,458.85	121.60	37.668		
16,100.00	12,004.02	16,139.29	12,077.35	87.46	87.50	-91.28	-4,621.97	4,494.28	4,580.61	4,456.96	123.65	37.045		
16,200.00	12,005.10	16,239.27	12,080.40	88.91	88.96	-91.31	-4,721.90	4,495.26	4,580.76	4,455.05	125.71	36.439		
16,300.00	12,006.18	16,339.25	12,083.45	90.38	90.42	-91.33	-4,821.83	4,496.24	4,580.91	4,453.13	127.78	35.851		
16,400.00	12,007.26	16,439.23	12,086.50	91.85	91.89	-91.36	-4,921.76	4,497.22	4,581.06	4,451.21	129.85	35.279		
16,500.00	12,008.34	16,539.21	12,089.55	93.32	93.36	-91.38	-5,021.69	4,498.20	4,581.22	4,449.28	131.94	34.722		
16,600.00	12,009.42	16,639.20	12,092.59	94.80	94.84	-91.41	-5,121.62	4,499.18	4,581.37	4,447.34	134.03	34.181		
16,700.00	12,010.50	16,739.18	12,095.64	96.29	96.33	-91.43	-5,221.55	4,500.16	4,581.53	4,445.39	136.13	33.654		
16,800.00	12,011.59	16,839.16	12,098.69	97.78	97.82	-91.45	-5,321.48	4,501.14	4,581.68	4,443.44	138.24	33.142		
16,900.00	12,012.67	16,939.14	12,101.74	99.28	99.32	-91.48	-5,421.41	4,502.11	4,581.84	4,441.48	140.36	32.644		
17,000.00	12,013.75	17,039.12	12,104.78	100.78	100.82	-91.50	-5,521.33	4,503.09	4,582.00	4,439.52	142.48	32.158		
17,100.00	12,014.83	17,139.10	12,107.83	102.29	102.33	-91.53	-5,621.26	4,504.07	4,582.16	4,437.55	144.61	31.686		
17,200.00	12,015.91	17,239.08	12,110.88	103.80	103.84	-91.55	-5,721.19	4,505.05	4,582.32	4,435.57	146.75	31.226		
17,300.00	12,016.99	17,339.06	12,113.93	105.32	105.35	-91.58	-5,821.12	4,506.03	4,582.48	4,433.59	148.89	30.778		
17,400.00	12,018.07	17,439.04	12,116.97	106.84	106.87	-91.60	-5,921.05	4,507.01	4,582.64	4,431.60	151.04	30.342		
17,500.00	12,019.15	17,539.02	12,120.02	108.36	108.40	-91.63	-6,020.98	4,507.99	4,582.80	4,429.61	153.19	29.916		
17,600.00	12,020.23	17,639.00	12,123.07	109.89	109.92	-91.65	-6,120.91	4,508.96	4,582.96	4,427.62	155.34	29.502		
17,700.00	12,021.31	17,738.98	12,126.12	111.42	111.45	-91.68	-6,220.84	4,509.94	4,583.13	4,425.62	157.51	29.098		
17,800.00	12,022.39	17,838.96	12,129.16	112.95	112.99	-91.70	-6,320.77	4,510.92	4,583.29	4,423.62	159.67	28.704		
17,900.00	12,023.47	17,938.94	12,132.21	114.49	114.52	-91.72	-6,420.70	4,511.90	4,583.46	4,421.61	161.85	28.320		
18,000.00	12,024.56	18,038.92	12,135.26	116.03	116.06	-91.75	-6,520.63	4,512.88	4,583.62	4,419.60	164.02	27.945		
18,100.00	12,025.64	18,138.90	12,138.31	117.57	117.61	-91.77	-6,620.56	4,513.86	4,583.79	4,417.59	166.20	27.579		
18,200.00	12,026.72	18,238.88	12,141.36	119.12	119.15	-91.80	-6,720.49	4,514.84	4,583.96	4,415.57	168.39	27.223		
18,300.00	12,027.80	18,338.87	12,144.40	120.67	120.70	-91.82	-6,820.42	4,515.82	4,584.13	4,413.55	170.58	26.874		
18,400.00	12,028.88	18,438.85	12,147.45	122.22	122.25	-91.85	-6,920.35	4,516.79	4,584.30	4,411.53	172.77	26.534		
18,500.00	12,029.96	18,538.83	12,150.50	123.78	123.81	-91.87	-7,020.27	4,517.77	4,584.47	4,409.51	174.96	26.202		
18,600.00	12,031.04	18,638.81	12,153.55	125.33	125.36	-91.90	-7,120.20	4,518.75	4,584.64	4,407.48	177.16	25.878		
18,700.00	12,032.12	18,738.79	12,156.59	126.89	126.92	-91.92	-7,220.13	4,519.73	4,584.81	4,405.45	179.37	25.561		
18,800.00	12,033.20	18,838.77	12,159.64	128.46	128.48	-91.95	-7,320.06	4,520.71	4,584.99	4,403.42	181.57	25.252		
18,900.00	12,034.28	18,938.75	12,162.69	130.02	130.05	-91.97	-7,419.99	4,521.69	4,585.16	4,401.38	183.78	24.949		
19,000.00	12,035.36	19,038.73	12,165.74	131.59	131.61	-91.99	-7,519.92	4,522.67	4,585.34	4,399.34	185.99	24.654		
19,100.00	12,036.44	19,138.71	12,168.78	133.16	133.18	-92.02	-7,619.85	4,523.64	4,585.51	4,397.31	188.21	24.364		
19,200.00	12,037.52	19,238.69	12,171.83	134.73	134.75	-92.04	-7,719.78	4,524.62	4,585.69	4,395.27	190.42	24.082		
19,300.00	12,038.61	19,338.67	12,174.88	136.30	136.32	-92.07	-7,819.71	4,525.60	4,585.87	4,393.22	192.64	23.805		

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 601H
Project:	Lea County, NM (NAD83)	TVD Reference:	3070' GE + 21' KB @ 3091.00usft
Reference Site:	Judge Baylor Fed Com	MD Reference:	3070' GE + 21' KB @ 3091.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Judge Baylor Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well 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
LHS Wildcat Fed Com - LHS Wildcat Fed Com 705H - OH - Plan #5													Offset Well Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD														
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,400.00	12,039.69	19,438.65	12,177.93	137.87	137.89	-92.09	-7,919.64	4,526.58	4,586.04	4,391.18	194.86	23.534		
19,500.00	12,040.77	19,538.63	12,180.98	139.45	139.47	-92.12	-8,019.57	4,527.56	4,586.22	4,389.13	197.09	23.270		
19,600.00	12,041.85	19,638.61	12,184.02	141.03	141.05	-92.14	-8,119.50	4,528.54	4,586.40	4,387.09	199.32	23.011		
19,700.00	12,042.93	19,738.59	12,187.07	142.61	142.62	-92.17	-8,219.43	4,529.52	4,586.58	4,385.04	201.55	22.757		
19,800.00	12,044.01	19,838.57	12,190.12	144.19	144.21	-92.19	-8,319.36	4,530.50	4,586.77	4,382.99	203.78	22.509		
19,900.00	12,045.09	19,938.55	12,193.17	145.77	145.79	-92.21	-8,419.29	4,531.47	4,586.95	4,380.94	206.01	22.265		
20,000.00	12,046.17	20,038.54	12,196.21	147.35	147.37	-92.24	-8,519.21	4,532.45	4,587.13	4,378.88	208.25	22.027		
20,100.00	12,047.25	20,138.52	12,199.26	148.94	148.96	-92.26	-8,619.14	4,533.43	4,587.32	4,376.83	210.49	21.794		
20,200.00	12,048.33	20,238.50	12,202.31	150.53	150.54	-92.29	-8,719.07	4,534.41	4,587.50	4,374.77	212.73	21.565		
20,300.00	12,049.41	20,338.48	12,205.36	152.11	152.13	-92.31	-8,819.00	4,535.39	4,587.69	4,372.72	214.97	21.341		
20,400.00	12,050.49	20,438.46	12,208.40	153.70	153.72	-92.34	-8,918.93	4,536.37	4,587.87	4,370.66	217.21	21.122		
20,500.00	12,051.57	20,538.44	12,211.45	155.30	155.31	-92.36	-9,018.86	4,537.35	4,588.06	4,368.60	219.46	20.906		
20,600.00	12,052.66	20,638.42	12,214.50	156.89	156.90	-92.39	-9,118.79	4,538.32	4,588.25	4,366.54	221.70	20.695		
20,700.00	12,053.74	20,738.40	12,217.55	158.48	158.49	-92.41	-9,218.72	4,539.30	4,588.44	4,364.49	223.95	20.488		
20,800.00	12,054.82	20,838.38	12,220.59	160.08	160.09	-92.44	-9,318.65	4,540.28	4,588.63	4,362.43	226.20	20.285		
20,900.00	12,055.90	20,938.36	12,223.64	161.67	161.68	-92.46	-9,418.58	4,541.26	4,588.82	4,360.36	228.45	20.086		
21,000.00	12,056.98	21,038.34	12,226.69	163.27	163.28	-92.48	-9,518.51	4,542.24	4,589.01	4,358.30	230.71	19.891		
21,100.00	12,058.06	21,138.32	12,229.74	164.87	164.88	-92.51	-9,618.44	4,543.22	4,589.20	4,356.24	232.96	19.699		
21,200.00	12,059.14	21,238.30	12,232.79	166.47	166.47	-92.53	-9,718.37	4,544.20	4,589.40	4,354.18	235.22	19.511		
21,300.00	12,060.22	21,338.28	12,235.83	168.07	168.07	-92.56	-9,818.30	4,545.18	4,589.59	4,352.11	237.48	19.327		
21,400.00	12,061.30	21,438.26	12,238.88	169.67	169.67	-92.58	-9,918.22	4,546.15	4,589.79	4,350.05	239.73	19.145		
21,500.00	12,062.38	21,538.24	12,241.93	171.27	171.28	-92.61	-10,018.15	4,547.13	4,589.98	4,347.99	241.99	18.967		
21,600.00	12,063.46	21,638.22	12,244.98	172.87	172.88	-92.63	-10,118.08	4,548.11	4,590.18	4,345.92	244.26	18.793		
21,700.00	12,064.54	21,738.20	12,248.02	174.48	174.48	-92.66	-10,218.01	4,549.09	4,590.38	4,343.86	246.52	18.621		
21,800.00	12,065.62	21,838.19	12,251.07	176.08	176.08	-92.68	-10,317.94	4,550.07	4,590.57	4,341.79	248.78	18.452		
21,900.00	12,066.71	21,938.17	12,254.12	177.69	177.69	-92.70	-10,417.87	4,551.05	4,590.77	4,339.73	251.05	18.287		
22,000.00	12,067.79	22,038.15	12,257.17	179.30	179.30	-92.73	-10,517.80	4,552.03	4,590.97	4,337.66	253.31	18.124		
22,100.31	12,068.87	22,138.43	12,260.22	180.91	180.91	-92.75	-10,618.04	4,553.01	4,591.17	4,335.59	255.58	17.963		
22,101.01	12,068.88	22,139.13	12,260.25	180.92	180.92	-92.75	-10,618.74	4,553.01	4,591.18	4,335.58	255.60	17.962 SF		

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



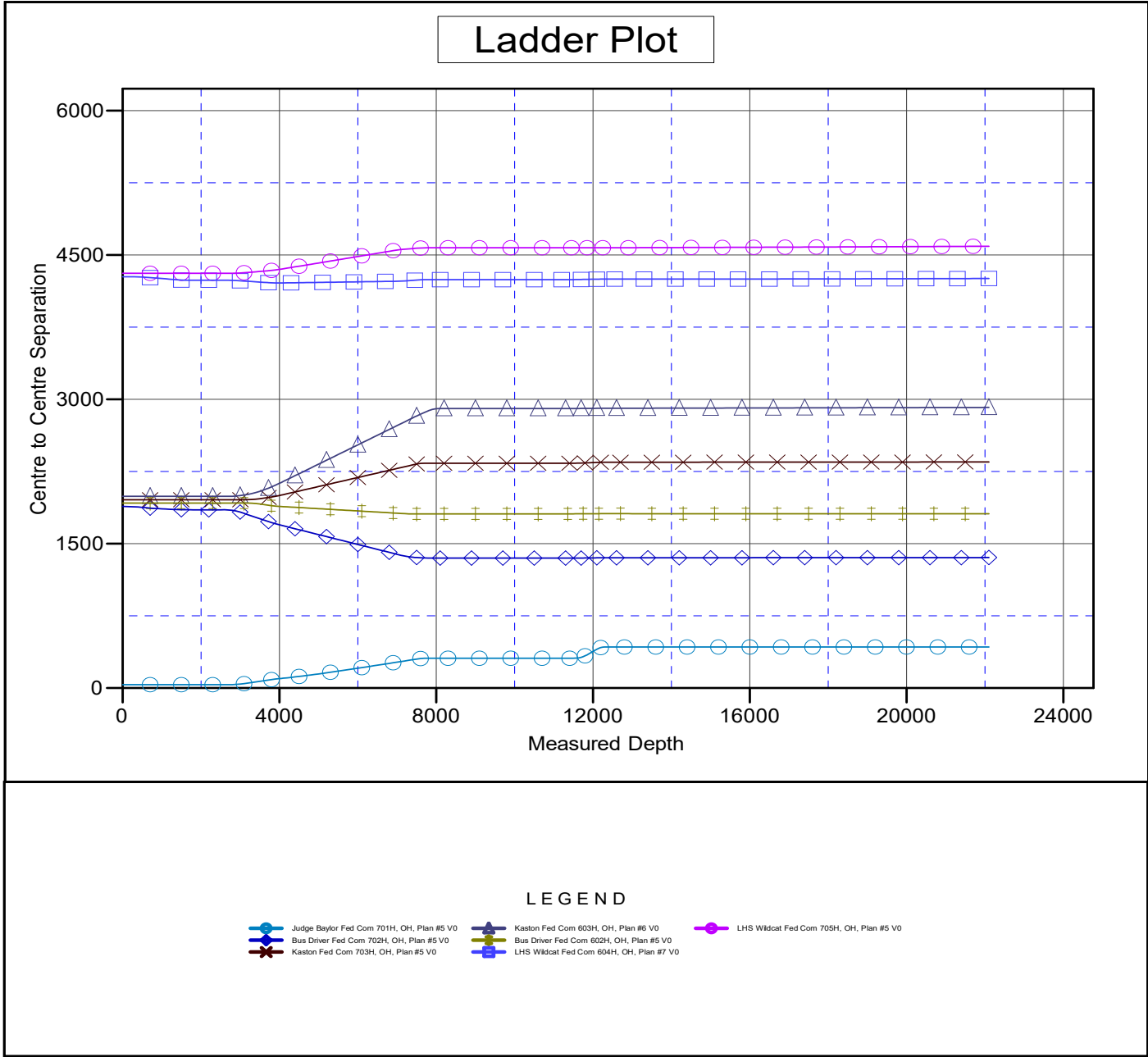
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Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3070' GE + 21' KB @ 3091.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.333334

Coordinates are relative to: Judge Baylor Fed Com 601H
 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



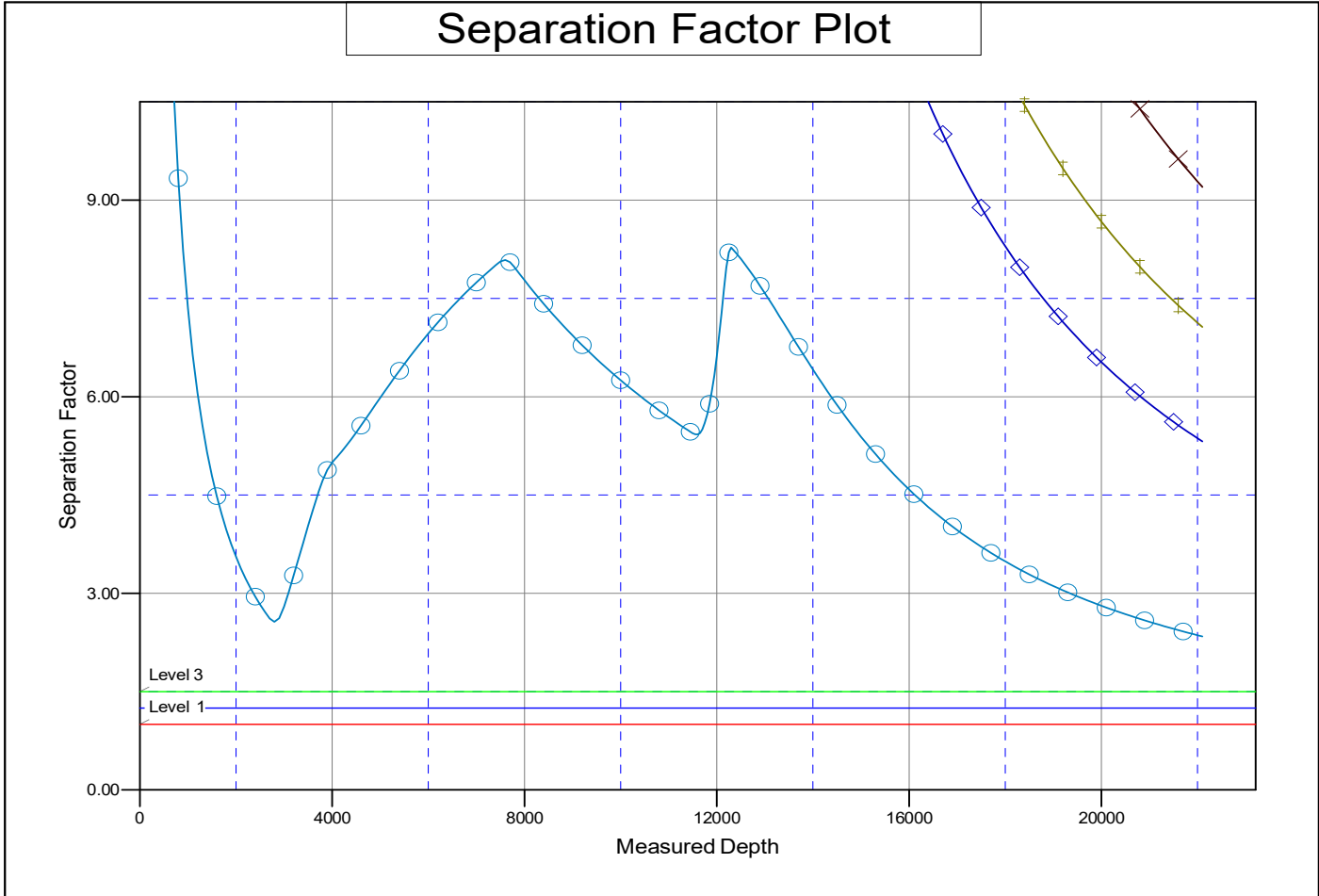
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LEGEND

Judge Baylor Fed Com 701H, OH, Plan #5 V0	Kaston Fed Com 603H, OH, Plan #6 V0	LHS Wildcat Fed Com 705H, OH, Plan #5 V0
Bus Driver Fed Com 702H, OH, Plan #5 V0	Bus Driver Fed Com 602H, OH, Plan #5 V0	LHS Wildcat Fed Com 604H, OH, Plan #7 V0
Kaston Fed Com 703H, OH, Plan #5 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 601H
Operator	Franklin Mountain Energy, LLC
Project Area	PF Unit
Well Type	10,000' Third Bone Spring Lateral
API	
Rig	H&P 518

State	NM	County	Lea						
SHL	Township	25S/35E	Section	36	488'	FWL	250'	FSL	
BHL	Township	26S/35E	Section	12	350'	FWL	150'	FSL	
Surface Latitude	NAD 83		32.08026						
Surface Longitude	NAD 83		103.328211						
Bottom Hole Latitude	NAD 83		32.050935						
Bottom Hole Longitude	NAD 83		103.328637						
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	2,385'	716'			Carbonates
Salado	1,937'	1,164'			Salt, Carbonate & Clastics
Base Salt	-387'	3,488'			Shaley Carbonate & Shale
Lamar	-1,904'	5,005'			Carbonate & Clastics
Bell Canyon	-1,993'	5,094'			Sandstone - oil/gas/water
Cherry Canyon	-2,859'	5,960'			Sandstone - oil/gas/water
Brushy Canyon	-4,306'	7,407'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,580'	8,681'			Shale/Carbonates - oil/gas
Avalon	-5,623'	8,724'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-6,908'	10,009'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-7,088'	10,189'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7,468'	10,569'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-7,979'	11,080'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-8,775'	11,876'			Sandstone - oil/gas/water
HZ Target at SHL	-8,869'	11,970'			Overpressure shale/sand- Oil/Gas
Wolfcamp	-8,967'	12,068'			Overpressure shale/sand- Oil/Gas
Wolfcamp A	-9,032'	12,133'			Overpressure Shale - Oil/Gas
Wolfcamp B	-9,275'	12,376'			Overpressure Shale - Oil/Gas

Target interval is expected to have an average apparent dip of ~0.6 degrees down along the lateral based on the Wolfcamp A structure

Target window tolerance is set at +/- 10'

Target Line: 11970' KBTVD @ 0° VS w/90° inc.
Offset Log: Talco Unit 001 (30025267470000)
Updated 7/6/21

FME Geologist		Ben Kessel		bkessel@fmelc.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:					
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@fmelc.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 36996

CONDITIONS

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 36996
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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