

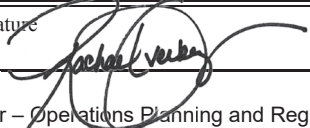
Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM101608
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☒ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator Franklin Mountain Energy, LLC		8. Lease Name and Well No. COUNTY FAIR FED COM 701H
3a. Address 44 Cook Street, Suite 1000, Denver CO 80206		9. API Well No.
3b. Phone No. (include area code) 720-414-7868		10. Field and Pool, or Exploratory UPR WOLFCAMP/WC025 G09 S253502L
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface LOT 4 / 215 FNL / 1285 FWL / LAT 32.166132 / LONG -103.342695 At proposed prod. zone SWSW / 150 FSL / 380 FWL / LAT 32.138028 / LONG -103.345635		11. Sec., T. R. M. or Blk. and Survey or Area SEC 2/T25S/R35E/NMP
14. Distance in miles and direction from nearest town or post office* 9.6 miles		12. County or Parish Lea
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 215 feet		13. State NM
16. No of acres in lease 1600		17. Spacing Unit dedicated to this well 320.91
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 885 feet		20. BLM/BIA Bond No. in file FED: NMB001761
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3246.2		22. Approximate date work will start* 10/1/2021
		23. Estimated duration 30 days
24. Attachments		

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

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature 	Name (Printed/Typed) Rachael Overbey	Date 9/13/2021
Title Director – Operations Planning and Regulatory		
Approved by (Signature) CHRISTOPHER WALLS	Digitally signed by CHRISTOPHER WALLS Date: 2021.09.17 12:36:20 -06'00'	Name (Printed/Typed) Date 9/17/2021
Title Sup. PE		Office CFO

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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

(Continued on page 2)

*(Instructions on page 2)

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
	98187	WC-025 G-09 S253502D; UPR WOLFCAMP
⁴ Property Code	⁵ Property Name	⁶ Well Number
	COUNTY FAIR FED COM	701H
⁷ OGRID No.	⁸ Operator Name	⁹ Elevation
373910	FRANKLIN MOUNTAIN ENERGY LLC	3246.2'

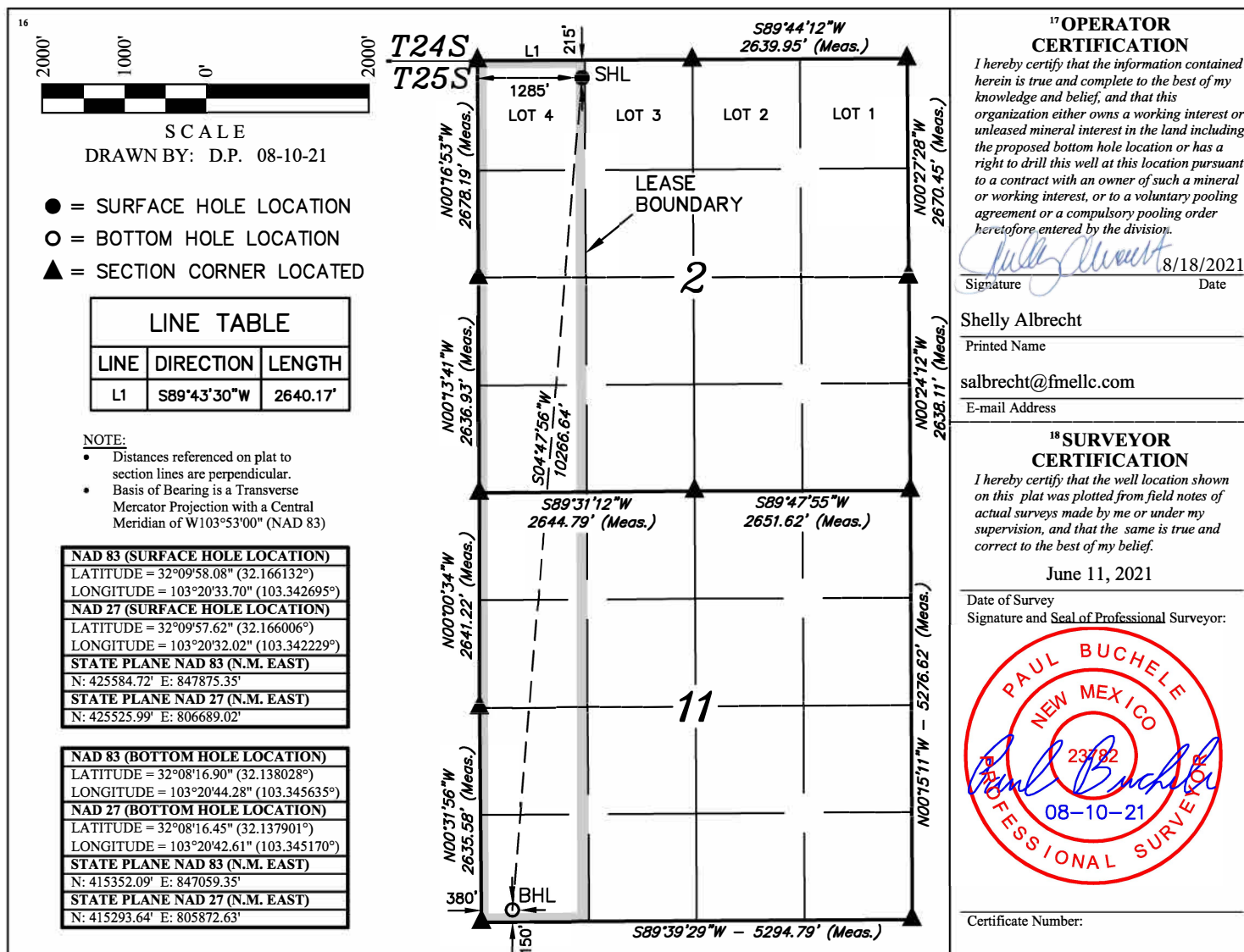
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 4	2	25S	35E		215	NORTH	1285	WEST	LEA

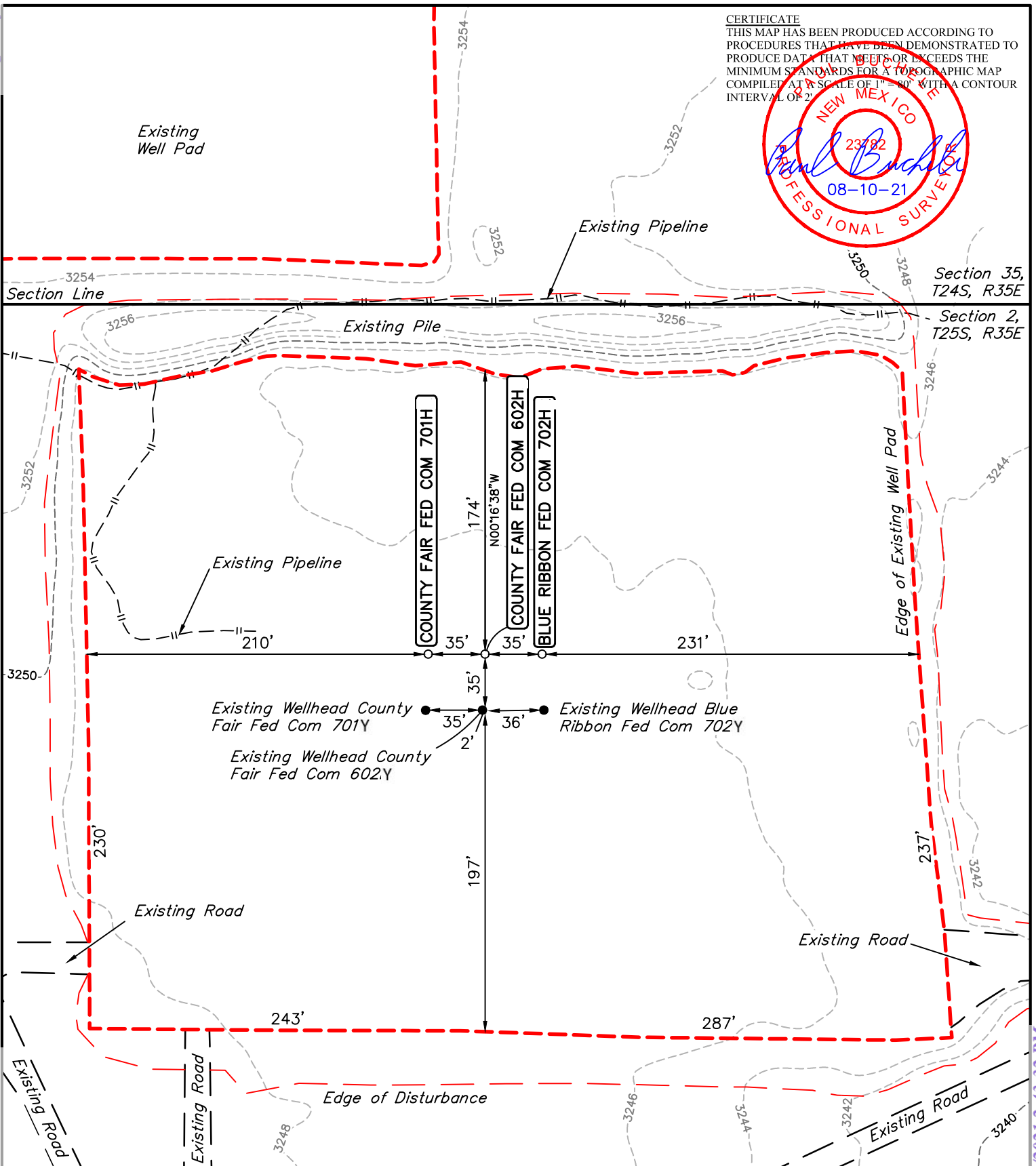
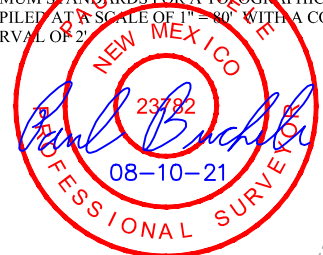
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	11	25S	35E		150	SOUTH	380	WEST	LEA
¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						
320.91									

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



CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO
PROCEDURES THAT HAVE BEEN DEMONSTRATED TO
PRODUCE DATA THAT MEETS OR EXCEEDS THE
MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP
COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR
INTERVAL OF 2'



NOTES:

- Contours shown at 2' intervals.
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Total Well Pad Disturbance Contains ±6.147 Acres



FRANKLIN MOUNTAIN ENERGY LLC

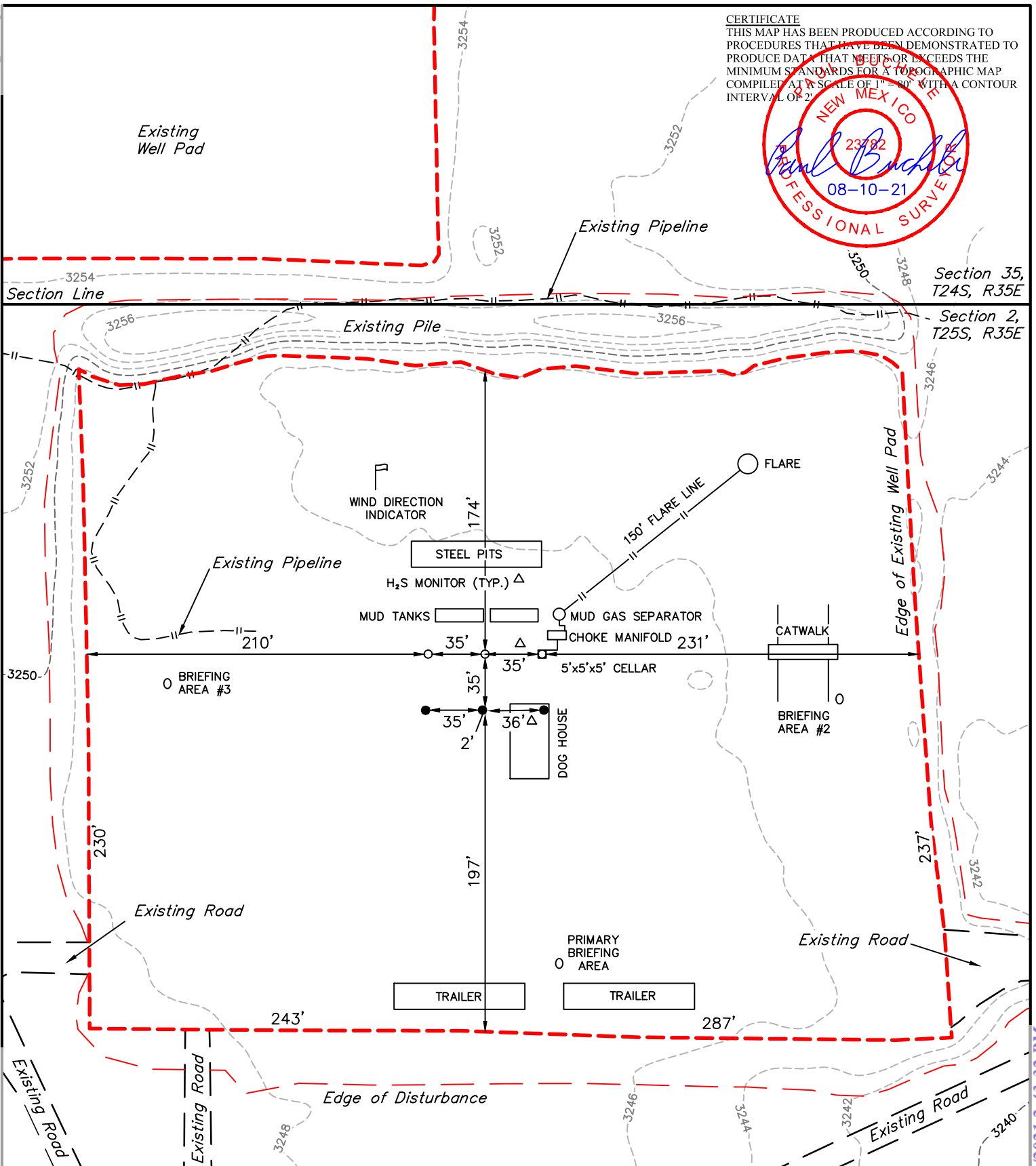
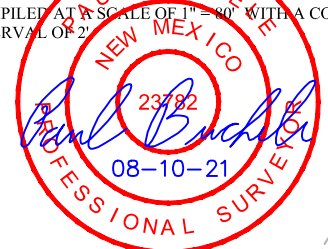
CARNIVAL WEST PAD
LOTS 3 & 4, SECTION 2, T25S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C., M.D.	06-11-21	SCALE
DRAWN BY	D.P.	08-10-21	1" = 80'
AS-BUILT LOCATION LAYOUT			



UELS, LLC
Regional Office * 111 NE 3rd Street
Seminole, TX 79360 * (432) 955-6100
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

CERTIFICATE
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MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP
COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR
INTERVAL OF 2'



NOTES:

- Contours shown at 2' intervals.
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.



FRANKLIN MOUNTAIN ENERGY LLC

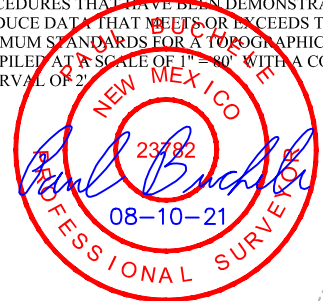
CARNIVAL WEST PAD
LOTS 3 & 4, SECTION 2, T25S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C., M.D.	06-11-21	SCALE
DRAWN BY	D.P.	08-10-21	1" = 80'
TYPICAL RIG LAYOUT			



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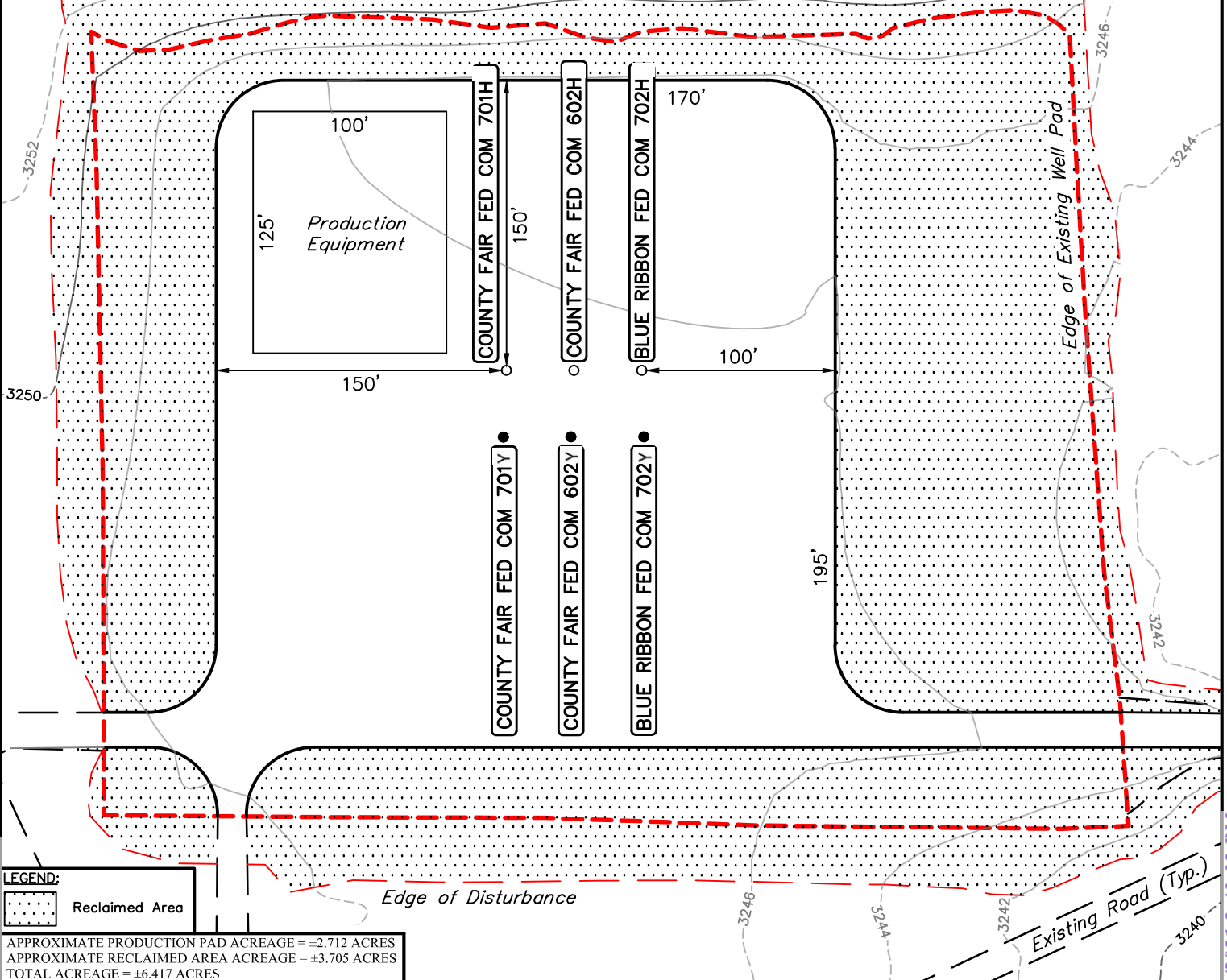


Existing Well Pad

Section Line

Section 35, T24S, R35E

Section 2, T25S, R35E



LEGEND:
 Reclaimed Area

APPROXIMATE PRODUCTION PAD ACREAGE = ±2.712 ACRES
 APPROXIMATE RECLAIMED AREA ACREAGE = ±3.705 ACRES
 TOTAL ACREAGE = ±6.417 ACRES

NOTES:
 • Contours shown at 2' intervals.



FRANKLIN MOUNTAIN ENERGY LLC

CARNIVAL WEST PAD
 LOTS 3 & 4, SECTION 2, T25S, R35E, N.M.P.M.
 LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C., M.D.	06-11-21	SCALE
DRAWN BY	D.P.	08-10-21	1" = 80'
RECLAMATION DIAGRAM			



UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017

BEGINNING AT THE INTERSECTION OF HIGHWAY 18 & HIGHWAY 128 FROM JAL, NEW MEXICO PROCEED IN A NORTHWESTERLY DIRECTION ALONG HIGHWAY 128 APPROXIMATELY 9.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN RIGHT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE EXISTING LOCATION.

TOTAL DISTANCE FROM JAL, NEW MEXICO TO THE EXISTING WELL LOCATION IS APPROXIMATELY 10.5 MILES.

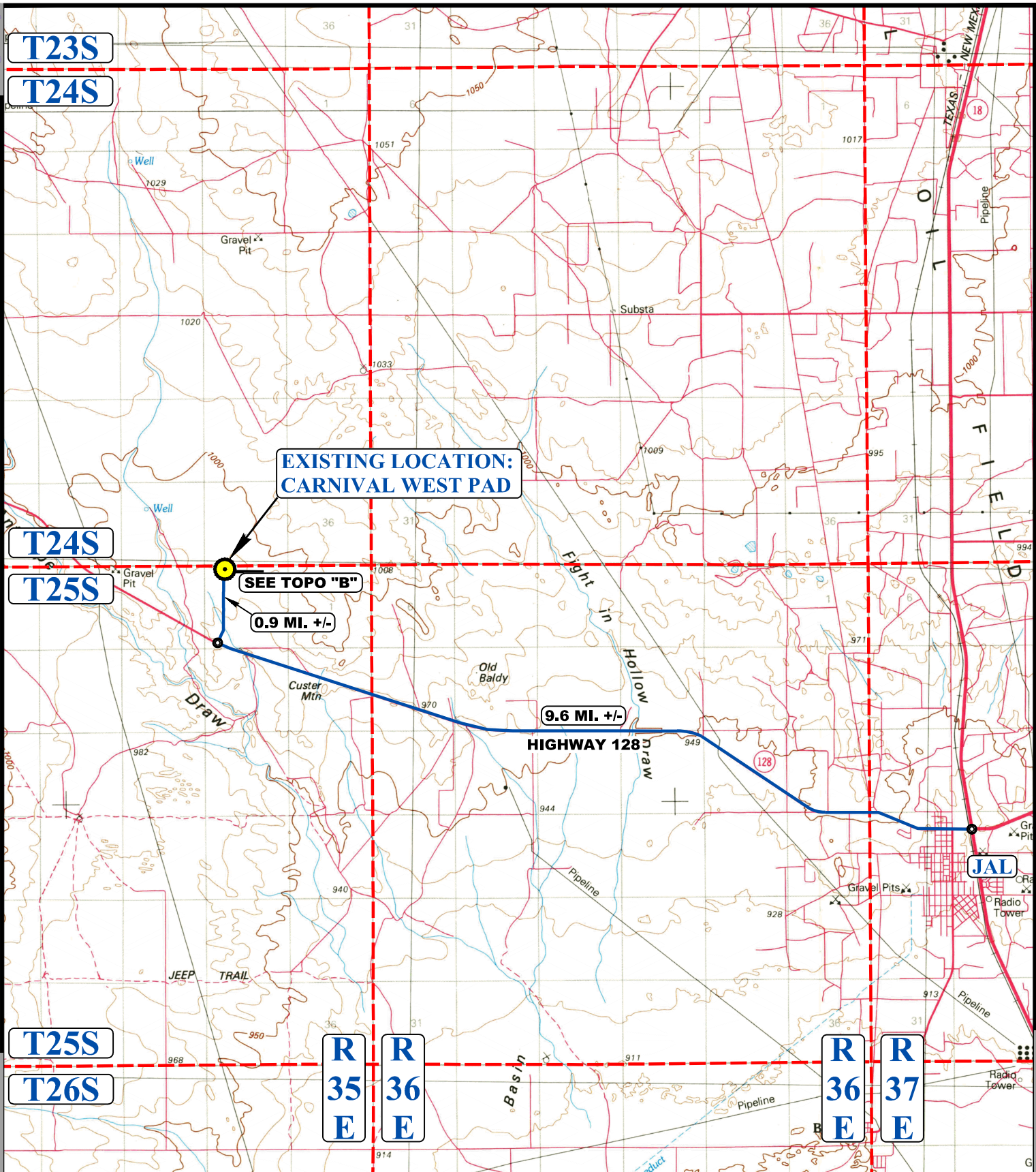
FRANKLIN MOUNTAIN ENERGY LLC

**CARNIVAL WEST PAD
LOTS 3 & 4, SECTION 2, T25S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO**



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SURVEYED BY	B.B., R.C., M.D.	06-11-21	
DRAWN BY	D.P.	08-10-21	
ROAD DESCRIPTION			



LEGEND:

 EXISTING LOCATION



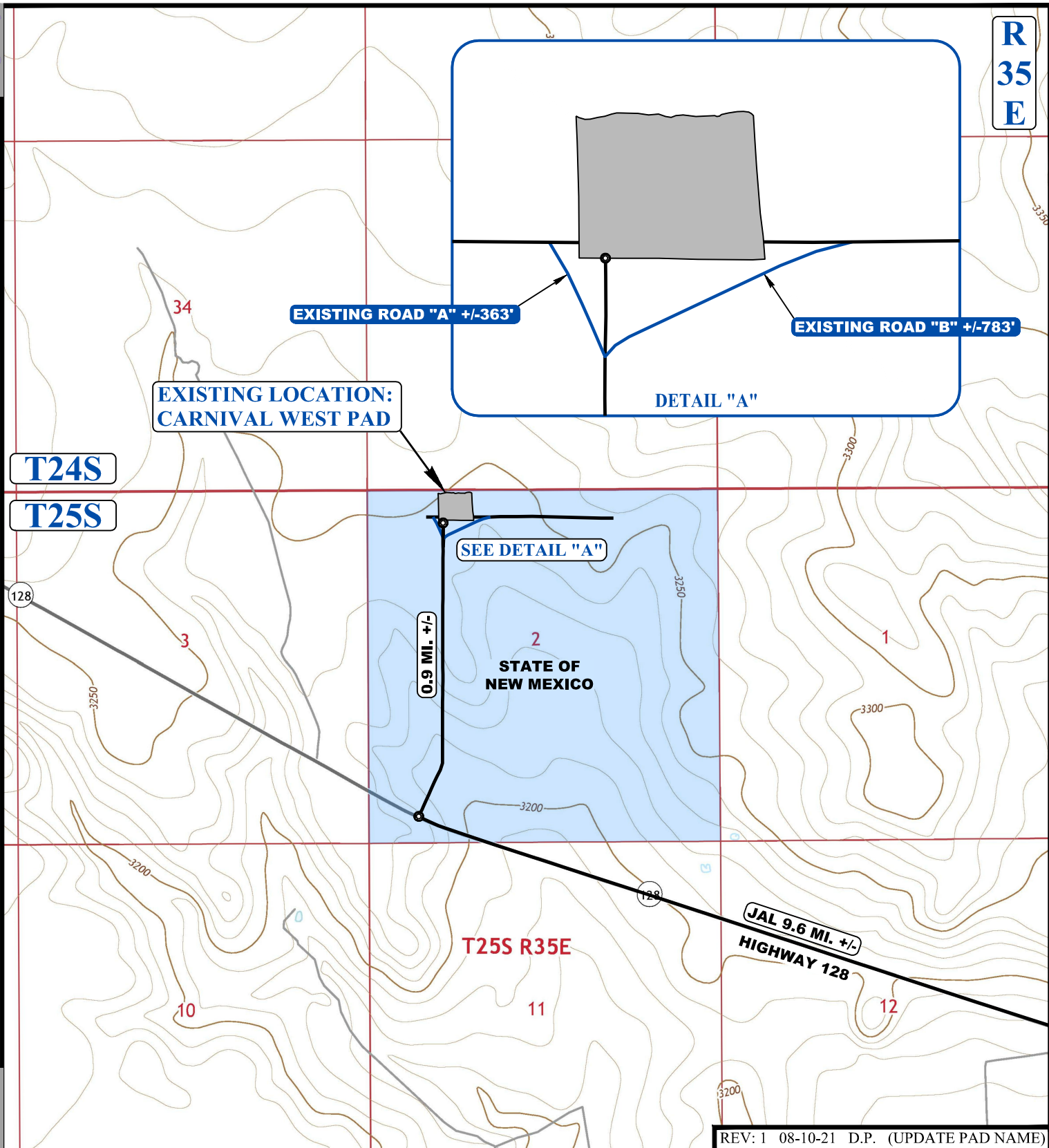
FRANKLIN MOUNTAIN ENERGY LLC

CARNIVAL WEST PAD
LOTS 3 & 4, SECTION 2, T25S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO



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SURVEYED BY	B.B., R.C., M.D.	06-11-21	SCALE
DRAWN BY	D.P.	08-10-21	1 : 100,000
ACCESS ROAD MAP			TOPO A



NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- EXISTING ROAD RE-ROUTE



FRANKLIN MOUNTAIN ENERGY LLC

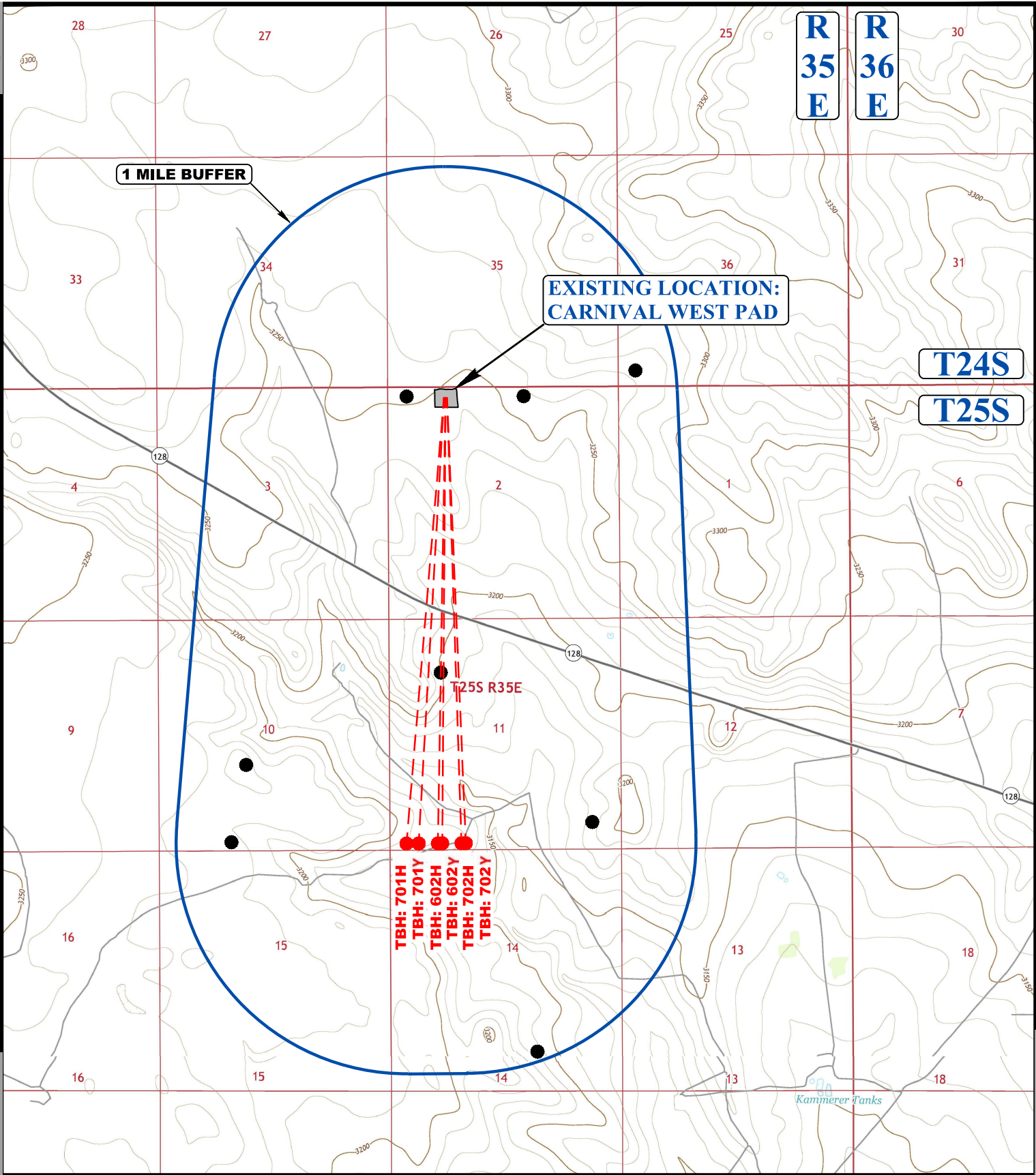
CARNIVAL WEST PAD
LOTS 3 & 4, SECTION 2, T25S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C., M.D.	06-11-21	SCALE
DRAWN BY	R.T.	10-03-17	1 : 24,000
ACCESS ROAD MAP			TOPO B



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Vernal, UT 84078 * (435) 789-1017

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LEGEND:

- EXISTING WELLS



FRANKLIN MOUNTAIN ENERGY LLC

CARNIVAL WEST PAD
LOTS 3 & 4, SECTION 2, T25S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO



UELS, LLC
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Vernal, UT 84078 * (435) 789-1017

SURVEYED BY	B.B., R.C., M.D.	06-11-21	SCALE
DRAWN BY	D.P.	08-10-21	1 : 36,000
WELL PROXIMITY MAP			TOPO C



County Fair Fed Com 701H

1. Geologic name of surface location: Permian
2. Estimated tops of important geological markers:

Formations	PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
Cenozoic Alluvium (surface)	3,246'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2,417'	859'			Carbonates
Salado	1,593'	1,683'			Salt, Carbonate & Clastics
Base Salt	-455'	3,731'			Shaley Carbonate & Shale
Lamar	-1,847'	5,123'			Carbonate & Clastics
Bell Canyon	-1,961'	5,237'			Sandstone - oil/gas/water
Cherry Canyon	-2,853'	6,129'			Sandstone - oil/gas/water
Brushy Canyon	-4,207'	7,483'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,602'	8,878'			Shale/Carbonates - oil/gas
Avalon	-5,643'	8,919'			Shale/Carbonates - oil/gas
Chert Zone	-5,836'	9,112'			Carbonate/Chert
First Bone Spring Sand	-6,797'	10,073'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-6,886'	10,162'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7,340'	10,616'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-7,903'	11,179'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-8,526'	11,802'			Sandstone - oil/gas/water
Wolfcamp	-8,756'	12,032'			Overpressure shale/sand- Oil/Gas
Wolfcamp A	-8,800'	12,076'			Overpressure Shale - Oil/Gas
HZ Target	-8,970'	12,246'			Overpressure Shale - Oil/Gas
Wolfcamp B	-8,990'	12,266'			Overpressure Shale - Oil/Gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	5,237'	Oil
Bone Spring	10,073'	Oil
Wolfcamp	12,032'	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	5150	1.78	1.76	2.99	3.41
Intermediate 7 5/8"	29.7	HCP-110	8280	7150	827	Stinger 564	12100	1.10	1.26	1.80	1.23
Long string 5 1/2"	23	P-110	14520	14520	729	Eagle 606 TVD	22410 12203	1.32	1.38	1.18	0.98 1.59



7 5/8" casing will be set at 12,100' MD/12,010' TVD at 41° Inc. Stress calculations on 5 1/2" casing performed assuming 22,203' depth. Actual max vertical depth is 12,084'.

Cementing Program:

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

String Type	Hole Size	Casing Size	Setting Depth	Sacks	Type of cmt	Lead Yield ft ³ /sk	Water gal/sk	TOC ft	Sacks	Type of cmt	Tail Yield ft ³ /sk	Water gal/sk	TOC	Excess
Surf	17.5	13.375	1300	804	Extenda Cem, 12.8 ppg Class C, 3lb/sk Kol-Seal	1.728	9.06	0	331	Tail, 14.8 ppg, Class C,	1.364	6.51	1000	100%
Int1	12.25	9.625	5150	1505	0.125pps Poly-E-Flake					1% CaCl ₂ , 0.125pps Celo-Flake				
					Lead, 12.8 ppg, Class C 5% Salt,	1.79	9.74	0	154	Tail, 14.8 ppg, Class C,	1.33	6.37	4850	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	12100	373	Lite Fill, 9.5 ppg, Class C 3lb/sk	2.13	5.97	4150	94	NeoCem 14.8 ppg, Class C	1.33	6.29	11100	50%
					Bridgemaker Gel, 5% Salt, 5pps LCM, 0.25pps Cello-Flake					0.25 pps Cello-Flake, 2% CaCl ₂				
Prod	6.75	5.5	22410	844	Tail, 14.5 ppg, Gas Migration Control	1.34	6.22	11100						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' – 12,100'	Brine	8.8-10.2	28-34	N/c
12,100' – 22,410' Lateral	Oil Base	10.0-12.0	58-68	3 - 6

The highest mud weight needed to balance formation is expected to be 10-12 ppg. In order to maintain hole stability, mud weights up to 12.5 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 12,203' TVD (deepest point of the well) is 195F with an estimated maximum bottom-hole pressure (BHP) at the same point of 7,931 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 Cactus Multi-Bowl WH system has been sent to the BLM office in Carlsbad.

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

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

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

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

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

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

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

Released to Imaging: 9/21/2021 2:43:32 PM

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: County Fair/Blue Ribbon
Well: County Fair Fed Com 701H
Wellbore: OH
Design: Plan #1

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



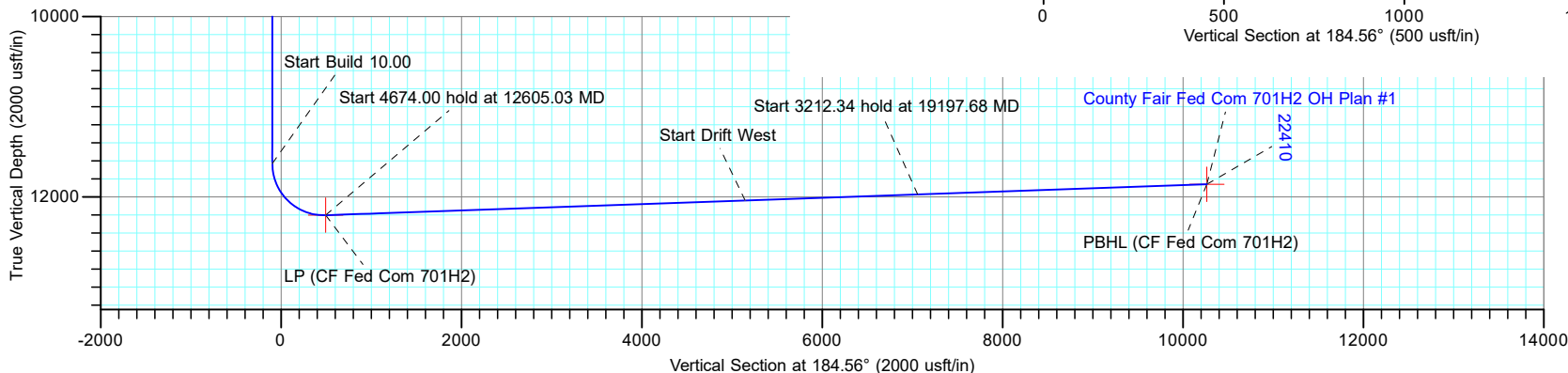
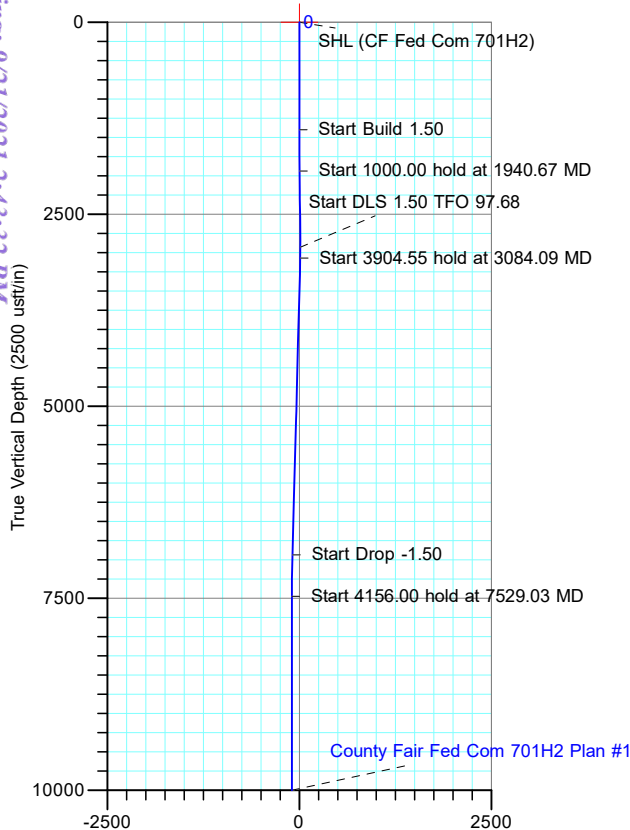
Azimuths to Grid North
True North: -0.53°
Magnetic North: 5.89°

Magnetic Field
Strength: 47464.9nT
Dip Angle: 59.88°
Date: 8/20/2021
Model: IGRF2020



Received by OCD: 9/17/2021 5:15:43 PM

3246.2' GE + 30' KB @ 3276.20usft

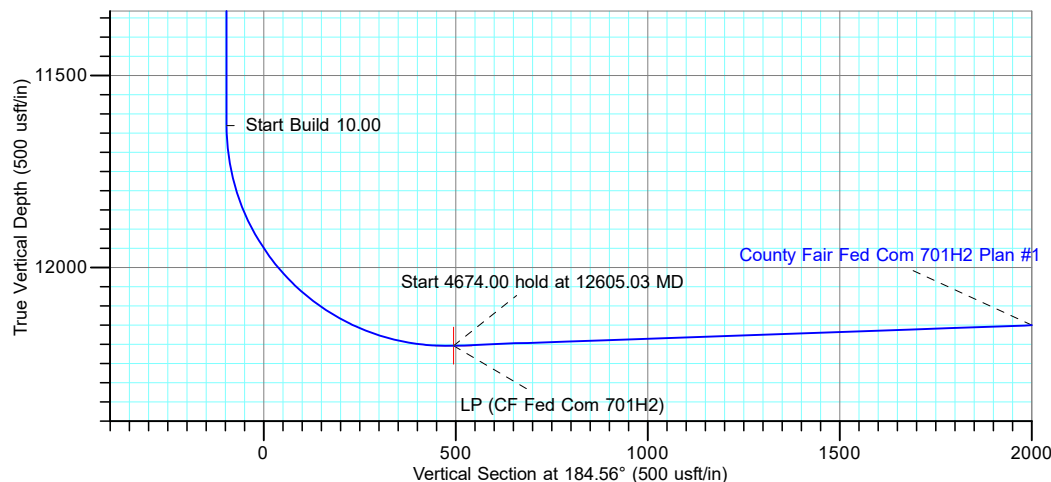


SECTION DETAILS

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	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
1940.67	8.11	270.00	1938.86	0.00	-38.20	1.50	270.00	3.04	Start 1000.00 hold at 1940.67 MD
2940.67	8.11	270.00	2928.86	0.00	-179.27	0.00	0.00	14.25	Start DLS 1.50 TFO 97.68
3084.09	8.11	285.30	3070.87	2.67	-199.15	1.50	97.68	13.17	Start 3904.55 hold at 3084.09 MD
6988.64	8.11	285.30	6936.41	147.93	-730.19	0.00	0.00	-89.42	Start Drop -1.50
7529.03	0.00	0.00	7475.00	158.00	-767.00	1.50	180.00	-96.53	Start 4156.00 hold at 7529.03 MD
11685.03	0.00	0.00	11631.00	158.00	-767.00	0.00	0.00	-96.53	Start Build 10.00
12605.03	92.00	179.50	12203.61	-434.93	-761.83	10.00	179.50	494.11	Start 4674.00 hold at 12605.03 MD
17279.03	92.00	179.50	12040.49	-5105.91	-721.06	0.00	0.00	5147.07	Start Drift West
19197.68	92.00	181.42	11973.53	-7023.24	-736.45	0.10	89.97	7059.55	Start 3212.34 hold at 19197.68 MD
22410.02	92.00	181.42	11861.43	-10232.63	-816.00	0.00	0.00	10265.11	TD at 22410.02

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
LP (CF Fed Com 701H2)	12203.61	-434.93	-761.83	32.164956	-103.345169
PBHL (CF Fed Com 701H2)	11861.43	-10232.63	-816.00	32.138028	-103.345635
SHL (CF Fed Com 701H2)	0.00	0.00	0.00	32.166132	-103.342695



TOTAL DIRECTIONAL SERVICES LLC

Plan: Plan #1 (County Fair Fed Com 701H2/OH)
County Fair/Blue Ribbon
Created By: Dustin Ault
Date: 14:28, August 20 2021
Approved: _____
Date: _____

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Released to Imaging: 9/21/2021 2:43:32 PM

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: County Fair/Blue Ribbon
Well: County Fair Fed Com 701H2
Wellbore: OH
Design: Plan #1



Azimuths to Grid North
True North: -0.53°
Magnetic North: 5.89°
Magnetic Field
Strength: 47464.9nT
Dip Angle: 59.88°
Date: 8/20/2021
Model: IGRF2020

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

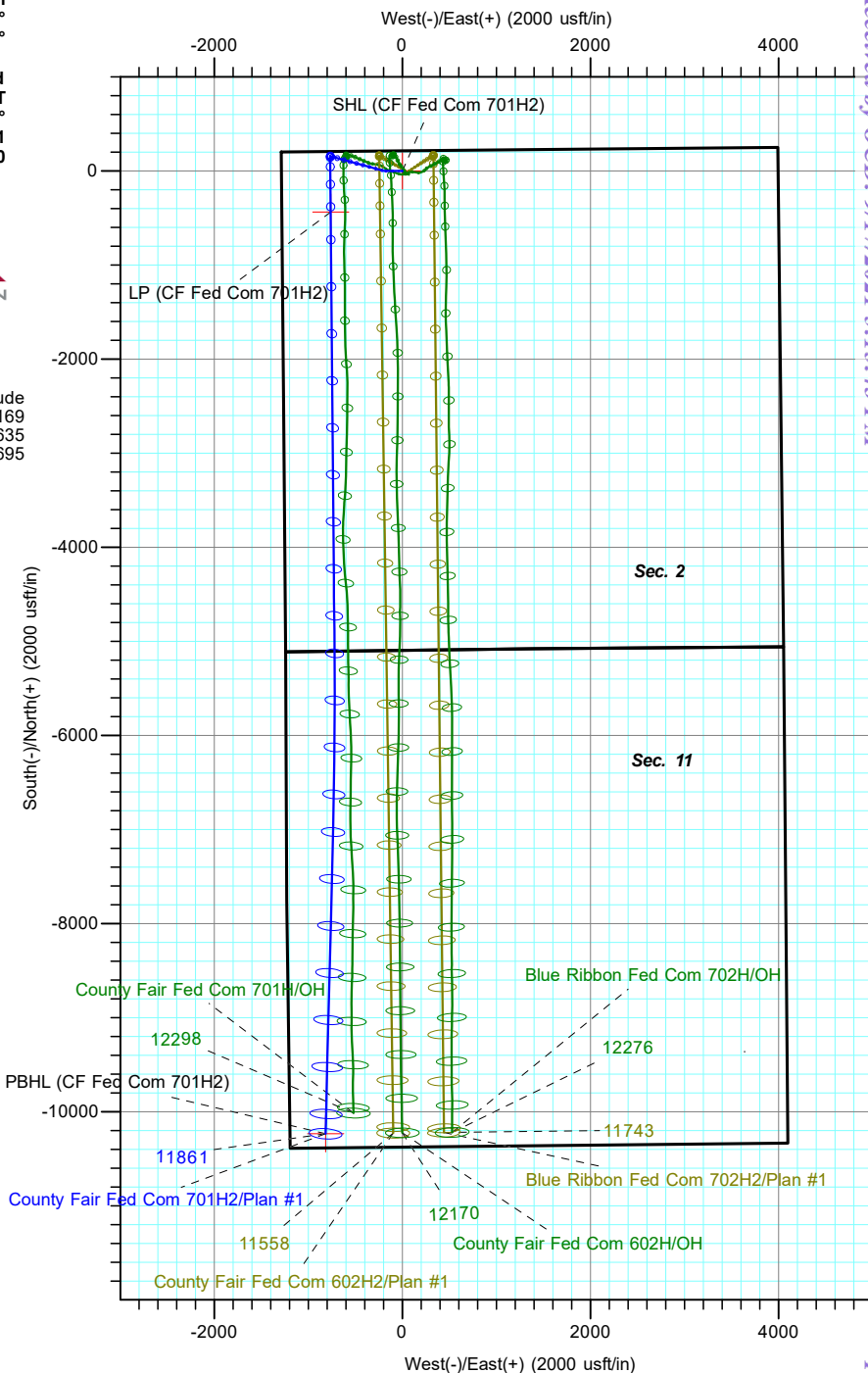
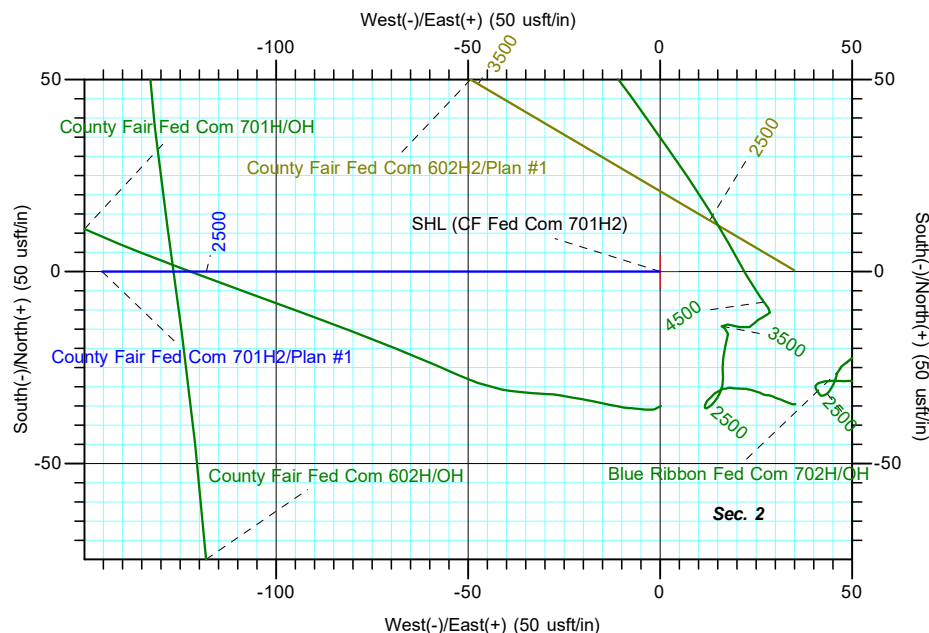


DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP (CF Fed Com 701H2)	12203.61	-434.93	-761.83	425149.79	847113.52	32.164956	-103.345169
PBHL (CF Fed Com 701H2)	11861.43	-10232.63	-816.00	415352.09	847059.35	32.138028	-103.345635
SHL (CF Fed Com 701H2)	0.00	0.00	0.00	425584.72	847875.35	32.166132	-103.342695

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	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
1940.67	8.11	270.00	1938.86	0.00	-38.20	1.50	270.00	3.04	Start 1000.00 hold at 1940.67 MD
2940.67	8.11	270.00	2928.86	0.00	-179.27	0.00	0.00	14.25	Start DLS 1.50 TFO 97.68
3084.09	8.11	285.30	3070.87	2.67	-199.15	1.50	97.68	13.17	Start 3904.55 hold at 3084.09 MD
6988.64	8.11	285.30	6936.41	147.93	-730.19	0.00	0.00	-89.42	Start Drop -1.50
7529.03	0.00	0.00	7475.00	158.00	-767.00	1.50	180.00	-96.53	Start 4156.00 hold at 7529.03 MD
11685.03	0.00	0.00	11631.00	158.00	-767.00	0.00	0.00	-96.53	Start Build 10.00
12605.03	92.00	179.50	12203.61	-434.93	-761.83	10.00	179.50	494.11	Start 4674.00 hold at 12605.03 MD
17279.03	92.00	179.50	12040.49	-5105.91	-721.06	0.00	0.00	5147.07	Start Drift West
19197.68	92.00	181.42	11973.53	-7023.24	-736.45	0.10	89.97	7059.55	Start 3212.34 hold at 19197.68 MD
22410.02	92.00	181.42	11861.43	-10232.63	-816.00	0.00	0.00	10265.11	TD at 22410.02



TOTAL DIRECTIONAL SERVICES LLC

Plan: Plan #1 (County Fair Fed Com 701H2/OH)
County Fair/Blue Ribbon
Created By: Dustin Ault Date: 14:30, August 20 2021
Date: _____
Approved: _____ Date: _____

Received by OCD: 9/17/2021 5:15:43 PM

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Franklin Mountain Energy

Lea County, NM (NAD83)
County Fair/Blue Ribbon
County Fair Fed Com 701H2

OH

Plan: Plan #1

Standard Planning Report

20 August, 2021





Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well County Fair Fed Com 701H2
Company:	Franklin Mountain Energy	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Project:	Lea County, NM (NAD83)	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site:	County Fair/Blue Ribbon	North Reference:	Grid
Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Lea County, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	County Fair/Blue Ribbon				
Site Position:		Northing:	425,549.73 usft	Latitude:	32.166036
From:	Map	Easting:	847,875.66 usft	Longitude:	-103.342695
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.53

Well	County Fair Fed Com 701H2					
Well Position	+N/-S	34.99 usft	Northing:	425,584.72 usft	Latitude:	32.166132
	+E/-W	-0.31 usft	Easting:	847,875.35 usft	Longitude:	-103.342695
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,246.20 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/20/2021	6.41	59.88	47,464.85692529

Design	Plan #1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	184.56	

Plan Survey Tool Program	Date	8/20/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	22,409.50 Plan #1 (OH)	OWSG (Rev2) MWD		
			OWSG MWD - Standard		



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well County Fair Fed Com 701H2
Company:	Franklin Mountain Energy	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Project:	Lea County, NM (NAD83)	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site:	County Fair/Blue Ribbon	North Reference:	Grid
Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,940.67	8.11	270.00	1,938.86	0.00	-38.20	1.50	1.50	0.00	270.00	
2,940.67	8.11	270.00	2,928.86	0.00	-179.27	0.00	0.00	0.00	0.00	
3,084.09	8.11	285.30	3,070.87	2.67	-199.15	1.50	0.00	10.67	97.68	
6,988.64	8.11	285.30	6,936.41	147.93	-730.19	0.00	0.00	0.00	0.00	
7,529.03	0.00	0.00	7,475.00	158.00	-767.00	1.50	-1.50	0.00	180.00	
11,685.03	0.00	0.00	11,631.00	158.00	-767.00	0.00	0.00	0.00	0.00	
12,605.03	92.00	179.50	12,203.61	-434.93	-761.83	10.00	10.00	0.00	179.50	
17,279.03	92.00	179.50	12,040.49	-5,105.91	-721.06	0.00	0.00	0.00	0.00	
19,197.68	92.00	181.42	11,973.53	-7,023.24	-736.45	0.10	0.00	0.10	89.97	
22,410.02	92.00	181.42	11,861.43	-10,232.63	-816.00	0.00	0.00	0.00	0.00	PBHL (CF Fed Com 7



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well County Fair Fed Com 701H2
Company:	Franklin Mountain Energy	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Project:	Lea County, NM (NAD83)	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site:	County Fair/Blue Ribbon	North Reference:	Grid
Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (CF Fed Com 701H2)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50									
1,500.00	1.50	270.00	1,499.99	0.00	-1.31	0.10	1.50	1.50	0.00
1,600.00	3.00	270.00	1,599.91	0.00	-5.23	0.42	1.50	1.50	0.00
1,700.00	4.50	270.00	1,699.69	0.00	-11.77	0.94	1.50	1.50	0.00
1,800.00	6.00	270.00	1,799.27	0.00	-20.92	1.66	1.50	1.50	0.00
1,900.00	7.50	270.00	1,898.57	0.00	-32.68	2.60	1.50	1.50	0.00
1,940.67	8.11	270.00	1,938.86	0.00	-38.20	3.04	1.50	1.50	0.00
Start 1000.00 hold at 1940.67 MD									
2,000.00	8.11	270.00	1,997.60	0.00	-46.57	3.70	0.00	0.00	0.00
2,100.00	8.11	270.00	2,096.60	0.00	-60.68	4.82	0.00	0.00	0.00
2,200.00	8.11	270.00	2,195.60	0.00	-74.79	5.94	0.00	0.00	0.00
2,300.00	8.11	270.00	2,294.60	0.00	-88.89	7.07	0.00	0.00	0.00
2,400.00	8.11	270.00	2,393.60	0.00	-103.00	8.19	0.00	0.00	0.00
2,500.00	8.11	270.00	2,492.60	0.00	-117.11	9.31	0.00	0.00	0.00
2,600.00	8.11	270.00	2,591.60	0.00	-131.22	10.43	0.00	0.00	0.00
2,700.00	8.11	270.00	2,690.60	0.00	-145.32	11.55	0.00	0.00	0.00
2,800.00	8.11	270.00	2,789.60	0.00	-159.43	12.67	0.00	0.00	0.00
2,900.00	8.11	270.00	2,888.60	0.00	-173.54	13.79	0.00	0.00	0.00
2,940.67	8.11	270.00	2,928.86	0.00	-179.27	14.25	0.00	0.00	0.00
Start DLS 1.50 TFO 97.68									
3,000.00	8.04	276.32	2,987.61	0.46	-187.58	14.46	1.50	-0.12	10.65
3,084.09	8.11	285.30	3,070.87	2.67	-199.15	13.17	1.50	0.08	10.68
Start 3904.55 hold at 3084.09 MD									
3,100.00	8.11	285.30	3,086.62	3.26	-201.31	12.75	0.00	0.00	0.00
3,200.00	8.11	285.30	3,185.62	6.98	-214.91	10.13	0.00	0.00	0.00
3,300.00	8.11	285.30	3,284.62	10.70	-228.51	7.50	0.00	0.00	0.00
3,400.00	8.11	285.30	3,383.62	14.42	-242.11	4.87	0.00	0.00	0.00
3,500.00	8.11	285.30	3,482.62	18.14	-255.71	2.24	0.00	0.00	0.00
3,600.00	8.11	285.30	3,581.62	21.86	-269.31	-0.38	0.00	0.00	0.00
3,700.00	8.11	285.30	3,680.63	25.58	-282.91	-3.01	0.00	0.00	0.00
3,800.00	8.11	285.30	3,779.63	29.30	-296.52	-5.64	0.00	0.00	0.00
3,900.00	8.11	285.30	3,878.63	33.02	-310.12	-8.27	0.00	0.00	0.00
4,000.00	8.11	285.30	3,977.63	36.74	-323.72	-10.89	0.00	0.00	0.00
4,100.00	8.11	285.30	4,076.63	40.46	-337.32	-13.52	0.00	0.00	0.00
4,200.00	8.11	285.30	4,175.63	44.18	-350.92	-16.15	0.00	0.00	0.00
4,300.00	8.11	285.30	4,274.63	47.90	-364.52	-18.78	0.00	0.00	0.00
4,400.00	8.11	285.30	4,373.63	51.62	-378.12	-21.40	0.00	0.00	0.00
4,500.00	8.11	285.30	4,472.63	55.34	-391.72	-24.03	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well County Fair Fed Com 701H2
Company:	Franklin Mountain Energy	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Project:	Lea County, NM (NAD83)	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site:	County Fair/Blue Ribbon	North Reference:	Grid
Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.00	8.11	285.30	4,571.63	59.07	-405.32	-26.66	0.00	0.00	0.00
4,700.00	8.11	285.30	4,670.63	62.79	-418.92	-29.29	0.00	0.00	0.00
4,800.00	8.11	285.30	4,769.64	66.51	-432.52	-31.91	0.00	0.00	0.00
4,900.00	8.11	285.30	4,868.64	70.23	-446.12	-34.54	0.00	0.00	0.00
5,000.00	8.11	285.30	4,967.64	73.95	-459.72	-37.17	0.00	0.00	0.00
5,100.00	8.11	285.30	5,066.64	77.67	-473.32	-39.80	0.00	0.00	0.00
5,200.00	8.11	285.30	5,165.64	81.39	-486.92	-42.42	0.00	0.00	0.00
5,300.00	8.11	285.30	5,264.64	85.11	-500.52	-45.05	0.00	0.00	0.00
5,400.00	8.11	285.30	5,363.64	88.83	-514.13	-47.68	0.00	0.00	0.00
5,500.00	8.11	285.30	5,462.64	92.55	-527.73	-50.31	0.00	0.00	0.00
5,600.00	8.11	285.30	5,561.64	96.27	-541.33	-52.93	0.00	0.00	0.00
5,700.00	8.11	285.30	5,660.64	99.99	-554.93	-55.56	0.00	0.00	0.00
5,800.00	8.11	285.30	5,759.64	103.71	-568.53	-58.19	0.00	0.00	0.00
5,900.00	8.11	285.30	5,858.65	107.43	-582.13	-60.81	0.00	0.00	0.00
6,000.00	8.11	285.30	5,957.65	111.15	-595.73	-63.44	0.00	0.00	0.00
6,100.00	8.11	285.30	6,056.65	114.87	-609.33	-66.07	0.00	0.00	0.00
6,200.00	8.11	285.30	6,155.65	118.59	-622.93	-68.70	0.00	0.00	0.00
6,300.00	8.11	285.30	6,254.65	122.31	-636.53	-71.32	0.00	0.00	0.00
6,400.00	8.11	285.30	6,353.65	126.03	-650.13	-73.95	0.00	0.00	0.00
6,500.00	8.11	285.30	6,452.65	129.75	-663.73	-76.58	0.00	0.00	0.00
6,600.00	8.11	285.30	6,551.65	133.47	-677.33	-79.21	0.00	0.00	0.00
6,700.00	8.11	285.30	6,650.65	137.19	-690.93	-81.83	0.00	0.00	0.00
6,800.00	8.11	285.30	6,749.65	140.91	-704.53	-84.46	0.00	0.00	0.00
6,900.00	8.11	285.30	6,848.65	144.63	-718.13	-87.09	0.00	0.00	0.00
6,988.64	8.11	285.30	6,936.41	147.93	-730.19	-89.42	0.00	0.00	0.00
Start Drop -1.50									
7,000.00	7.94	285.30	6,947.66	148.35	-731.72	-89.71	1.50	-1.50	0.00
7,100.00	6.44	285.30	7,046.87	151.65	-743.78	-92.04	1.50	-1.50	0.00
7,200.00	4.94	285.30	7,146.37	154.26	-753.34	-93.89	1.50	-1.50	0.00
7,300.00	3.44	285.30	7,246.11	156.19	-760.38	-95.25	1.50	-1.50	0.00
7,400.00	1.94	285.30	7,345.99	157.43	-764.90	-96.12	1.50	-1.50	0.00
7,500.00	0.44	285.30	7,445.97	157.97	-766.89	-96.51	1.50	-1.50	0.00
7,529.03	0.00	0.00	7,475.00	158.00	-767.00	-96.53	1.50	-1.50	0.00
Start 4156.00 hold at 7529.03 MD									
7,600.00	0.00	0.00	7,545.97	158.00	-767.00	-96.53	0.00	0.00	0.00
7,700.00	0.00	0.00	7,645.97	158.00	-767.00	-96.53	0.00	0.00	0.00
7,800.00	0.00	0.00	7,745.97	158.00	-767.00	-96.53	0.00	0.00	0.00
7,900.00	0.00	0.00	7,845.97	158.00	-767.00	-96.53	0.00	0.00	0.00
8,000.00	0.00	0.00	7,945.97	158.00	-767.00	-96.53	0.00	0.00	0.00
8,100.00	0.00	0.00	8,045.97	158.00	-767.00	-96.53	0.00	0.00	0.00
8,200.00	0.00	0.00	8,145.97	158.00	-767.00	-96.53	0.00	0.00	0.00
8,300.00	0.00	0.00	8,245.97	158.00	-767.00	-96.53	0.00	0.00	0.00
8,400.00	0.00	0.00	8,345.97	158.00	-767.00	-96.53	0.00	0.00	0.00
8,500.00	0.00	0.00	8,445.97	158.00	-767.00	-96.53	0.00	0.00	0.00
8,600.00	0.00	0.00	8,545.97	158.00	-767.00	-96.53	0.00	0.00	0.00
8,700.00	0.00	0.00	8,645.97	158.00	-767.00	-96.53	0.00	0.00	0.00
8,800.00	0.00	0.00	8,745.97	158.00	-767.00	-96.53	0.00	0.00	0.00
8,900.00	0.00	0.00	8,845.97	158.00	-767.00	-96.53	0.00	0.00	0.00
9,000.00	0.00	0.00	8,945.97	158.00	-767.00	-96.53	0.00	0.00	0.00
9,100.00	0.00	0.00	9,045.97	158.00	-767.00	-96.53	0.00	0.00	0.00
9,200.00	0.00	0.00	9,145.97	158.00	-767.00	-96.53	0.00	0.00	0.00
9,300.00	0.00	0.00	9,245.97	158.00	-767.00	-96.53	0.00	0.00	0.00
9,400.00	0.00	0.00	9,345.97	158.00	-767.00	-96.53	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well County Fair Fed Com 701H2
Company:	Franklin Mountain Energy	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Project:	Lea County, NM (NAD83)	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site:	County Fair/Blue Ribbon	North Reference:	Grid
Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,500.00	0.00	0.00	9,445.97	158.00	-767.00	-96.53	0.00	0.00	0.00
9,600.00	0.00	0.00	9,545.97	158.00	-767.00	-96.53	0.00	0.00	0.00
9,700.00	0.00	0.00	9,645.97	158.00	-767.00	-96.53	0.00	0.00	0.00
9,800.00	0.00	0.00	9,745.97	158.00	-767.00	-96.53	0.00	0.00	0.00
9,900.00	0.00	0.00	9,845.97	158.00	-767.00	-96.53	0.00	0.00	0.00
10,000.00	0.00	0.00	9,945.97	158.00	-767.00	-96.53	0.00	0.00	0.00
10,100.00	0.00	0.00	10,045.97	158.00	-767.00	-96.53	0.00	0.00	0.00
10,200.00	0.00	0.00	10,145.97	158.00	-767.00	-96.53	0.00	0.00	0.00
10,300.00	0.00	0.00	10,245.97	158.00	-767.00	-96.53	0.00	0.00	0.00
10,400.00	0.00	0.00	10,345.97	158.00	-767.00	-96.53	0.00	0.00	0.00
10,500.00	0.00	0.00	10,445.97	158.00	-767.00	-96.53	0.00	0.00	0.00
10,600.00	0.00	0.00	10,545.97	158.00	-767.00	-96.53	0.00	0.00	0.00
10,700.00	0.00	0.00	10,645.97	158.00	-767.00	-96.53	0.00	0.00	0.00
10,800.00	0.00	0.00	10,745.97	158.00	-767.00	-96.53	0.00	0.00	0.00
10,900.00	0.00	0.00	10,845.97	158.00	-767.00	-96.53	0.00	0.00	0.00
11,000.00	0.00	0.00	10,945.97	158.00	-767.00	-96.53	0.00	0.00	0.00
11,100.00	0.00	0.00	11,045.97	158.00	-767.00	-96.53	0.00	0.00	0.00
11,200.00	0.00	0.00	11,145.97	158.00	-767.00	-96.53	0.00	0.00	0.00
11,300.00	0.00	0.00	11,245.97	158.00	-767.00	-96.53	0.00	0.00	0.00
11,400.00	0.00	0.00	11,345.97	158.00	-767.00	-96.53	0.00	0.00	0.00
11,500.00	0.00	0.00	11,445.97	158.00	-767.00	-96.53	0.00	0.00	0.00
11,600.00	0.00	0.00	11,545.97	158.00	-767.00	-96.53	0.00	0.00	0.00
11,685.03	0.00	0.00	11,631.00	158.00	-767.00	-96.53	0.00	0.00	0.00
Start Build 10.00									
11,700.00	1.50	179.50	11,645.97	157.80	-767.00	-96.33	10.00	10.00	0.00
11,750.00	6.50	179.50	11,695.83	154.32	-766.97	-92.86	10.00	10.00	0.00
11,800.00	11.50	179.50	11,745.20	146.50	-766.90	-85.08	10.00	10.00	0.00
11,850.00	16.50	179.50	11,793.70	134.42	-766.79	-73.04	10.00	10.00	0.00
11,900.00	21.50	179.50	11,840.96	118.15	-766.65	-56.83	10.00	10.00	0.00
11,950.00	26.50	179.50	11,886.62	97.82	-766.47	-36.58	10.00	10.00	0.00
12,000.00	31.50	179.50	11,930.34	73.59	-766.26	-12.44	10.00	10.00	0.00
12,050.00	36.50	179.50	11,971.78	45.64	-766.02	15.40	10.00	10.00	0.00
12,100.00	41.50	179.50	12,010.63	14.19	-765.74	46.73	10.00	10.00	0.00
12,150.00	46.50	179.50	12,046.59	-20.53	-765.44	81.31	10.00	10.00	0.00
12,200.00	51.50	179.50	12,079.38	-58.25	-765.11	118.89	10.00	10.00	0.00
12,250.00	56.50	179.50	12,108.76	-98.68	-764.76	159.17	10.00	10.00	0.00
12,300.00	61.50	179.50	12,134.51	-141.53	-764.39	201.84	10.00	10.00	0.00
12,350.00	66.50	179.50	12,156.42	-186.45	-763.99	246.59	10.00	10.00	0.00
12,400.00	71.50	179.50	12,174.34	-233.11	-763.59	293.07	10.00	10.00	0.00
12,450.00	76.50	179.50	12,188.12	-281.16	-763.17	340.93	10.00	10.00	0.00
12,500.00	81.50	179.50	12,197.66	-330.22	-762.74	389.81	10.00	10.00	0.00
12,550.00	86.50	179.50	12,202.89	-379.93	-762.31	439.32	10.00	10.00	0.00
12,600.00	91.50	179.50	12,203.76	-429.90	-761.87	489.10	10.00	10.00	0.00
12,605.03	92.00	179.50	12,203.61	-434.93	-761.83	494.11	10.00	10.00	0.00
Start 4674.00 hold at 12605.03 MD - LP (CF Fed Com 701H2)									
12,700.00	92.00	179.50	12,200.29	-529.84	-761.00	588.65	0.00	0.00	0.00
12,800.00	92.00	179.50	12,196.80	-629.77	-760.13	688.20	0.00	0.00	0.00
12,900.00	92.00	179.50	12,193.31	-729.71	-759.25	787.75	0.00	0.00	0.00
13,000.00	92.00	179.50	12,189.82	-829.64	-758.38	887.30	0.00	0.00	0.00
13,100.00	92.00	179.50	12,186.33	-929.58	-757.51	986.85	0.00	0.00	0.00
13,200.00	92.00	179.50	12,182.84	-1,029.51	-756.64	1,086.40	0.00	0.00	0.00
13,300.00	92.00	179.50	12,179.36	-1,129.45	-755.76	1,185.95	0.00	0.00	0.00
13,400.00	92.00	179.50	12,175.87	-1,229.38	-754.89	1,285.50	0.00	0.00	0.00
13,500.00	92.00	179.50	12,172.38	-1,329.32	-754.02	1,385.05	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well County Fair Fed Com 701H2
Company:	Franklin Mountain Energy	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Project:	Lea County, NM (NAD83)	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site:	County Fair/Blue Ribbon	North Reference:	Grid
Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,600.00	92.00	179.50	12,168.89	-1,429.26	-753.15	1,484.60	0.00	0.00	0.00	
13,700.00	92.00	179.50	12,165.40	-1,529.19	-752.28	1,584.15	0.00	0.00	0.00	
13,800.00	92.00	179.50	12,161.91	-1,629.13	-751.40	1,683.70	0.00	0.00	0.00	
13,900.00	92.00	179.50	12,158.42	-1,729.06	-750.53	1,783.25	0.00	0.00	0.00	
14,000.00	92.00	179.50	12,154.93	-1,829.00	-749.66	1,882.80	0.00	0.00	0.00	
14,100.00	92.00	179.50	12,151.44	-1,928.93	-748.79	1,982.35	0.00	0.00	0.00	
14,200.00	92.00	179.50	12,147.95	-2,028.87	-747.92	2,081.90	0.00	0.00	0.00	
14,300.00	92.00	179.50	12,144.46	-2,128.80	-747.04	2,181.45	0.00	0.00	0.00	
14,400.00	92.00	179.50	12,140.97	-2,228.74	-746.17	2,281.00	0.00	0.00	0.00	
14,500.00	92.00	179.50	12,137.48	-2,328.67	-745.30	2,380.55	0.00	0.00	0.00	
14,600.00	92.00	179.50	12,133.99	-2,428.61	-744.43	2,480.10	0.00	0.00	0.00	
14,700.00	92.00	179.50	12,130.50	-2,528.54	-743.55	2,579.65	0.00	0.00	0.00	
14,800.00	92.00	179.50	12,127.01	-2,628.48	-742.68	2,679.20	0.00	0.00	0.00	
14,900.00	92.00	179.50	12,123.52	-2,728.41	-741.81	2,778.75	0.00	0.00	0.00	
15,000.00	92.00	179.50	12,120.03	-2,828.35	-740.94	2,878.30	0.00	0.00	0.00	
15,100.00	92.00	179.50	12,116.54	-2,928.28	-740.07	2,977.85	0.00	0.00	0.00	
15,200.00	92.00	179.50	12,113.05	-3,028.22	-739.19	3,077.40	0.00	0.00	0.00	
15,300.00	92.00	179.50	12,109.56	-3,128.15	-738.32	3,176.95	0.00	0.00	0.00	
15,400.00	92.00	179.50	12,106.07	-3,228.09	-737.45	3,276.50	0.00	0.00	0.00	
15,500.00	92.00	179.50	12,102.58	-3,328.03	-736.58	3,376.05	0.00	0.00	0.00	
15,600.00	92.00	179.50	12,099.09	-3,427.96	-735.71	3,475.60	0.00	0.00	0.00	
15,700.00	92.00	179.50	12,095.60	-3,527.90	-734.83	3,575.15	0.00	0.00	0.00	
15,800.00	92.00	179.50	12,092.11	-3,627.83	-733.96	3,674.70	0.00	0.00	0.00	
15,900.00	92.00	179.50	12,088.62	-3,727.77	-733.09	3,774.25	0.00	0.00	0.00	
16,000.00	92.00	179.50	12,085.13	-3,827.70	-732.22	3,873.79	0.00	0.00	0.00	
16,100.00	92.00	179.50	12,081.64	-3,927.64	-731.35	3,973.34	0.00	0.00	0.00	
16,200.00	92.00	179.50	12,078.15	-4,027.57	-730.47	4,072.89	0.00	0.00	0.00	
16,300.00	92.00	179.50	12,074.66	-4,127.51	-729.60	4,172.44	0.00	0.00	0.00	
16,400.00	92.00	179.50	12,071.17	-4,227.44	-728.73	4,271.99	0.00	0.00	0.00	
16,500.00	92.00	179.50	12,067.68	-4,327.38	-727.86	4,371.54	0.00	0.00	0.00	
16,600.00	92.00	179.50	12,064.19	-4,427.31	-726.98	4,471.09	0.00	0.00	0.00	
16,700.00	92.00	179.50	12,060.70	-4,527.25	-726.11	4,570.64	0.00	0.00	0.00	
16,800.00	92.00	179.50	12,057.21	-4,627.18	-725.24	4,670.19	0.00	0.00	0.00	
16,900.00	92.00	179.50	12,053.72	-4,727.12	-724.37	4,769.74	0.00	0.00	0.00	
17,000.00	92.00	179.50	12,050.23	-4,827.05	-723.50	4,869.29	0.00	0.00	0.00	
17,100.00	92.00	179.50	12,046.74	-4,926.99	-722.62	4,968.84	0.00	0.00	0.00	
17,200.00	92.00	179.50	12,043.25	-5,026.93	-721.75	5,068.39	0.00	0.00	0.00	
17,279.03	92.00	179.50	12,040.49	-5,105.91	-721.06	5,147.07	0.00	0.00	0.00	
Start Drift West										
17,300.00	92.00	179.52	12,039.76	-5,126.86	-720.88	5,167.94	0.10	0.00	0.10	
17,400.00	92.00	179.62	12,036.27	-5,226.80	-720.14	5,267.50	0.10	0.00	0.10	
17,500.00	92.00	179.72	12,032.78	-5,326.73	-719.56	5,367.08	0.10	0.00	0.10	
17,600.00	92.00	179.82	12,029.29	-5,426.67	-719.16	5,466.67	0.10	0.00	0.10	
17,700.00	92.00	179.92	12,025.80	-5,526.61	-718.94	5,566.27	0.10	0.00	0.10	
17,800.00	92.00	180.02	12,022.31	-5,626.55	-718.89	5,665.89	0.10	0.00	0.10	
17,900.00	92.00	180.12	12,018.82	-5,726.49	-719.01	5,765.52	0.10	0.00	0.10	
18,000.00	92.00	180.22	12,015.33	-5,826.43	-719.31	5,865.17	0.10	0.00	0.10	
18,100.00	92.00	180.32	12,011.84	-5,926.37	-719.78	5,964.83	0.10	0.00	0.10	
18,200.00	92.00	180.42	12,008.35	-6,026.30	-720.43	6,064.50	0.10	0.00	0.10	
18,300.00	92.00	180.52	12,004.86	-6,126.24	-721.25	6,164.19	0.10	0.00	0.10	
18,400.00	92.00	180.62	12,001.36	-6,226.17	-722.25	6,263.88	0.10	0.00	0.10	
18,500.00	92.00	180.72	11,997.87	-6,326.10	-723.42	6,363.59	0.10	0.00	0.10	
18,600.00	92.00	180.82	11,994.38	-6,426.03	-724.77	6,463.31	0.10	0.00	0.10	
18,700.00	92.00	180.92	11,990.89	-6,525.96	-726.29	6,563.05	0.10	0.00	0.10	



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well County Fair Fed Com 701H2
Company:	Franklin Mountain Energy	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Project:	Lea County, NM (NAD83)	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site:	County Fair/Blue Ribbon	North Reference:	Grid
Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,800.00	92.00	181.02	11,987.40	-6,625.89	-727.99	6,662.79	0.10	0.00	0.10
18,900.00	92.00	181.12	11,983.91	-6,725.81	-729.85	6,762.54	0.10	0.00	0.10
19,000.00	92.00	181.22	11,980.42	-6,825.73	-731.90	6,862.31	0.10	0.00	0.10
19,100.00	92.00	181.32	11,976.94	-6,925.64	-734.12	6,962.08	0.10	0.00	0.10
19,197.68	92.00	181.42	11,973.53	-7,023.24	-736.45	7,059.55	0.10	0.00	0.10
Start 3212.34 hold at 19197.68 MD									
19,200.00	92.00	181.42	11,973.45	-7,025.55	-736.51	7,061.87	0.00	0.00	0.00
19,300.00	92.00	181.42	11,969.96	-7,125.46	-738.99	7,161.66	0.00	0.00	0.00
19,400.00	92.00	181.42	11,966.47	-7,225.37	-741.46	7,261.44	0.00	0.00	0.00
19,500.00	92.00	181.42	11,962.98	-7,325.28	-743.94	7,361.23	0.00	0.00	0.00
19,600.00	92.00	181.42	11,959.49	-7,425.19	-746.42	7,461.02	0.00	0.00	0.00
19,700.00	92.00	181.42	11,956.00	-7,525.09	-748.89	7,560.81	0.00	0.00	0.00
19,800.00	92.00	181.42	11,952.51	-7,625.00	-751.37	7,660.60	0.00	0.00	0.00
19,900.00	92.00	181.42	11,949.02	-7,724.91	-753.84	7,760.39	0.00	0.00	0.00
20,000.00	92.00	181.42	11,945.53	-7,824.82	-756.32	7,860.18	0.00	0.00	0.00
20,100.00	92.00	181.42	11,942.04	-7,924.73	-758.80	7,959.97	0.00	0.00	0.00
20,200.00	92.00	181.42	11,938.55	-8,024.64	-761.27	8,059.76	0.00	0.00	0.00
20,300.00	92.00	181.42	11,935.06	-8,124.54	-763.75	8,159.55	0.00	0.00	0.00
20,400.00	92.00	181.42	11,931.57	-8,224.45	-766.23	8,259.34	0.00	0.00	0.00
20,500.00	92.00	181.42	11,928.08	-8,324.36	-768.70	8,359.12	0.00	0.00	0.00
20,600.00	92.00	181.42	11,924.59	-8,424.27	-771.18	8,458.91	0.00	0.00	0.00
20,700.00	92.00	181.42	11,921.10	-8,524.18	-773.65	8,558.70	0.00	0.00	0.00
20,800.00	92.00	181.42	11,917.61	-8,624.09	-776.13	8,658.49	0.00	0.00	0.00
20,900.00	92.00	181.42	11,914.12	-8,723.99	-778.61	8,758.28	0.00	0.00	0.00
21,000.00	92.00	181.42	11,910.63	-8,823.90	-781.08	8,858.07	0.00	0.00	0.00
21,100.00	92.00	181.42	11,907.14	-8,923.81	-783.56	8,957.86	0.00	0.00	0.00
21,200.00	92.00	181.42	11,903.65	-9,023.72	-786.04	9,057.65	0.00	0.00	0.00
21,300.00	92.00	181.42	11,900.16	-9,123.63	-788.51	9,157.44	0.00	0.00	0.00
21,400.00	92.00	181.42	11,896.68	-9,223.54	-790.99	9,257.23	0.00	0.00	0.00
21,500.00	92.00	181.42	11,893.19	-9,323.45	-793.47	9,357.02	0.00	0.00	0.00
21,600.00	92.00	181.42	11,889.70	-9,423.35	-795.94	9,456.80	0.00	0.00	0.00
21,700.00	92.00	181.42	11,886.21	-9,523.26	-798.42	9,556.59	0.00	0.00	0.00
21,800.00	92.00	181.42	11,882.72	-9,623.17	-800.89	9,656.38	0.00	0.00	0.00
21,900.00	92.00	181.42	11,879.23	-9,723.08	-803.37	9,756.17	0.00	0.00	0.00
22,000.00	92.00	181.42	11,875.74	-9,822.99	-805.85	9,855.96	0.00	0.00	0.00
22,100.00	92.00	181.42	11,872.25	-9,922.90	-808.32	9,955.75	0.00	0.00	0.00
22,200.00	92.00	181.42	11,868.76	-10,022.80	-810.80	10,055.54	0.00	0.00	0.00
22,300.00	92.00	181.42	11,865.27	-10,122.71	-813.28	10,155.33	0.00	0.00	0.00
22,400.00	92.00	181.42	11,861.78	-10,222.62	-815.75	10,255.12	0.00	0.00	0.00
22,410.02	92.00	181.42	11,861.43	-10,232.63	-816.00	10,265.11	0.00	0.00	0.00
TD at 22410.02 - PBHL (CF Fed Com 701H2)									



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well County Fair Fed Com 701H2
Company:	Franklin Mountain Energy	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Project:	Lea County, NM (NAD83)	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site:	County Fair/Blue Ribbon	North Reference:	Grid
Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
SHL (CF Fed Com 701H - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	425,584.72	847,875.35	32.166132	-103.342695
PBHL (CF Fed Com 701 - plan hits target center - Point	0.00	0.00	11,861.43	-10,232.63	-816.00	415,352.09	847,059.35	32.138028	-103.345635
LP (CF Fed Com 701H2 - plan hits target center - Point	0.00	0.00	12,203.61	-434.93	-761.83	425,149.79	847,113.52	32.164956	-103.345169

Plan Annotations				
Measured	Vertical	Local Coordinates		Comment
Depth	Depth	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	
1,400.00	1,400.00	0.00	0.00	Start Build 1.50
1,940.67	1,938.86	0.00	-38.20	Start 1000.00 hold at 1940.67 MD
2,940.67	2,928.86	0.00	-179.27	Start DLS 1.50 TFO 97.68
3,084.09	3,070.87	2.67	-199.15	Start 3904.55 hold at 3084.09 MD
6,988.64	6,936.41	147.93	-730.19	Start Drop -1.50
7,529.03	7,475.00	158.00	-767.00	Start 4156.00 hold at 7529.03 MD
11,685.03	11,631.00	158.00	-767.00	Start Build 10.00
12,605.03	12,203.61	-434.93	-761.83	Start 4674.00 hold at 12605.03 MD
17,279.03	12,040.49	-5,105.91	-721.06	Start Drift West
19,197.68	11,973.53	-7,023.24	-736.45	Start 3212.34 hold at 19197.68 MD
22,410.02	11,861.43	-10,232.63	-816.00	TD at 22410.02



Franklin Mountain Energy

Lea County, NM (NAD83)
County Fair/Blue Ribbon
County Fair Fed Com 701H2

OH
Plan #1

Anticollision Report

20 August, 2021





Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	8/20/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	22,409.50	Plan #1 (OH)	OWSG (Rev2) MWD	OWSG MWD - Standard	

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
			Between Centres (usft)	Between Ellipses (usft)		
County Fair/Blue Ribbon						
Blue Ribbon Fed Com 702H - OH - OH	1,464.02	1,464.87	51.36	44.60	7.606	CC, ES
Blue Ribbon Fed Com 702H - OH - OH	22,410.02	22,173.00	1,407.87	1,166.80	5.840	SF
Blue Ribbon Fed Com 702H2 - OH - Plan #1	1,400.00	1,400.00	69.98	63.22	10.340	CC, ES
Blue Ribbon Fed Com 702H2 - OH - Plan #1	22,410.02	22,239.93	1,264.39	1,018.78	5.148	SF
County Fair Fed Com 602H - OH - OH	1,324.57	1,324.56	34.46	28.17	5.483	CC
County Fair Fed Com 602H - OH - OH	1,400.00	1,399.85	34.62	28.05	5.265	ES
County Fair Fed Com 602H - OH - OH	21,300.00	20,950.00	796.23	581.83	3.714	SF
County Fair Fed Com 602H2 - OH - Plan #1	1,400.00	1,400.00	34.99	28.22	5.170	CC, ES
County Fair Fed Com 602H2 - OH - Plan #1	22,410.02	22,049.27	781.16	555.04	3.455	SF
County Fair Fed Com 701H - OH - OH	2,761.96	2,757.05	33.92	21.88	2.817	CC
County Fair Fed Com 701H - OH - OH	15,900.00	15,811.70	107.19	5.51	1.054	Level 2, ES, SF

Offset Design		County Fair/Blue Ribbon - Blue Ribbon Fed Com 702H - OH - OH										Offset Site Error:		0.00 usft
Survey Program:		58-OWSG (Rev2) MWD, 1335-OWSG (Rev2) MWD, 22173-BLIND										Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	116.05	-34.36	70.30	78.25					
100.00	100.00	99.93	99.93	0.13	0.20	115.97	-34.26	70.32	78.22	77.99	0.23	336.461		
200.00	200.00	201.13	201.12	0.48	0.55	116.07	-34.02	69.53	77.42	76.68	0.74	105.124		
300.00	300.00	300.90	300.89	0.84	0.91	116.20	-33.60	68.27	76.10	74.86	1.24	61.337		
400.00	400.00	401.07	401.04	1.20	1.27	116.39	-33.13	66.77	74.55	72.80	1.75	42.665		
500.00	500.00	501.79	501.74	1.56	1.63	116.50	-32.32	64.81	72.45	70.20	2.26	32.118		
600.00	600.00	601.58	601.50	1.92	1.99	116.57	-31.26	62.51	69.91	67.15	2.76	25.313		
700.00	700.00	701.78	701.67	2.28	2.35	116.88	-30.46	60.10	67.40	64.13	3.27	20.617		
800.00	800.00	801.14	800.99	2.63	2.71	117.34	-29.79	57.63	64.88	61.11	3.77	17.188		
900.00	900.00	901.80	901.61	2.99	3.07	117.75	-29.02	55.15	62.35	58.06	4.28	14.555		
1,000.00	1,000.00	1,001.51	1,001.29	3.35	3.43	118.79	-28.75	52.33	59.72	54.93	4.79	12.468		
1,100.00	1,100.00	1,101.17	1,100.92	3.71	3.79	119.66	-28.56	50.14	57.71	52.42	5.30	10.897		
1,200.00	1,200.00	1,201.09	1,200.82	4.07	4.15	120.84	-28.55	47.81	55.70	49.89	5.80	9.598		
1,300.00	1,300.00	1,301.10	1,300.80	4.43	4.43	121.80	-28.40	45.80	53.90	47.64	6.26	8.612		
1,400.00	1,400.00	1,401.11	1,400.79	4.79	4.51	123.27	-28.54	43.51	52.04	45.47	6.57	7.921		
1,464.02	1,464.02	1,464.87	1,464.53	5.01	4.54	-146.03	-28.70	42.05	51.36	44.60	6.75	7.606	CC, ES	

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - Blue Ribbon Fed Com 702H - OH - OH		Offset Site Error:	0.00 usft
Survey Program: 58-OWSG (Rev2) MWD, 1335-OWSG (Rev2) MWD, 22173-BLIND													Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
1,500.00	1,499.99	1,500.58	1,500.23	5.14	4.56	-145.95	-28.89	41.44	51.59	44.73	6.86	7.522				
1,600.00	1,599.91	1,600.03	1,599.68	5.48	4.63	-147.07	-29.61	40.55	54.52	47.36	7.16	7.612				
1,700.00	1,699.69	1,699.63	1,699.28	5.83	4.72	-149.86	-30.22	40.46	60.35	52.86	7.49	8.058				
1,800.00	1,799.27	1,799.03	1,798.67	6.18	4.84	-153.33	-30.76	40.70	68.87	61.04	7.83	8.793				
1,900.00	1,898.57	1,898.36	1,898.00	6.54	4.98	-156.83	-31.26	41.05	80.08	71.89	8.19	9.775				
1,940.67	1,938.86	1,938.65	1,938.29	6.69	5.04	-158.18	-31.43	41.17	85.37	77.02	8.35	10.230				
2,000.00	1,997.60	1,997.40	1,997.04	6.91	5.13	-159.98	-31.70	41.33	93.44	84.87	8.57	10.906				
2,100.00	2,096.60	2,096.31	2,095.94	7.28	5.31	-162.39	-32.12	41.62	107.22	98.27	8.95	11.974				
2,200.00	2,195.60	2,195.35	2,194.99	7.66	5.50	-164.36	-32.34	41.95	121.13	111.78	9.35	12.953				
2,300.00	2,294.60	2,294.30	2,293.94	8.05	5.71	-166.03	-32.28	42.28	135.09	125.33	9.76	13.845				
2,400.00	2,393.60	2,392.87	2,392.50	8.44	5.92	-167.43	-32.15	42.83	149.34	139.17	10.17	14.685				
2,500.00	2,492.60	2,491.98	2,491.61	8.83	6.15	-168.67	-31.81	43.43	163.66	153.07	10.59	15.452				
2,600.00	2,591.60	2,590.85	2,590.48	9.22	6.39	-169.83	-31.10	44.08	178.03	167.01	11.02	16.156				
2,700.00	2,690.60	2,689.82	2,689.44	9.62	6.64	-170.94	-30.00	44.77	192.45	180.99	11.45	16.802				
2,800.00	2,789.60	2,789.07	2,788.68	10.02	6.89	-171.92	-28.77	45.43	206.87	194.97	11.89	17.392				
2,900.00	2,888.60	2,888.29	2,887.89	10.42	7.16	-172.84	-27.29	45.84	221.07	208.73	12.34	17.914				
2,940.67	2,928.86	2,928.33	2,927.93	10.59	7.27	-173.19	-26.64	46.03	226.87	214.35	12.52	18.119				
3,000.00	2,987.61	2,985.69	2,985.27	10.82	7.42	-179.96	-25.64	46.48	235.52	222.74	12.78	18.423				
3,084.09	3,070.87	3,065.71	3,065.27	11.16	7.65	-170.76	-24.06	47.81	248.46	235.31	13.15	18.890				
3,100.00	3,086.62	3,080.61	3,080.15	11.23	7.69	-170.76	-23.75	48.20	251.04	237.82	13.22	18.987				
3,200.00	3,185.62	3,173.42	3,172.87	11.63	7.96	-170.67	-21.61	51.73	268.46	254.81	13.65	19.668				
3,300.00	3,284.62	3,265.10	3,264.33	12.04	8.23	-170.40	-18.76	57.40	288.13	274.06	14.07	20.479				
3,400.00	3,383.62	3,355.78	3,354.61	12.45	8.50	-169.99	-15.24	65.14	310.02	295.54	14.48	21.407				
3,500.00	3,482.62	3,446.12	3,444.36	12.85	8.77	-169.66	-12.07	74.90	334.16	319.27	14.89	22.439				
3,600.00	3,581.62	3,538.16	3,535.68	13.26	9.06	-169.61	-10.46	86.28	359.97	344.66	15.32	23.500				
3,700.00	3,680.63	3,632.02	3,628.73	13.67	9.36	-169.78	-10.32	98.59	386.67	370.91	15.76	24.533				
3,800.00	3,779.63	3,727.25	3,723.07	14.08	9.67	-170.05	-10.98	111.54	413.89	397.67	16.22	25.519				
3,900.00	3,878.63	3,825.30	3,820.24	14.49	9.99	-170.33	-11.93	124.67	440.96	424.26	16.70	26.404				
4,000.00	3,977.63	3,922.77	3,916.87	14.91	10.32	-170.60	-13.06	137.28	467.62	450.44	17.18	27.219				
4,100.00	4,076.63	4,013.44	4,006.75	15.32	10.63	-170.87	-14.48	149.19	494.53	476.92	17.61	28.081				
4,200.00	4,175.63	4,098.19	4,090.50	15.73	10.93	-171.14	-16.38	162.00	523.42	505.42	18.00	29.083				
4,300.00	4,274.63	4,189.90	4,180.89	16.15	11.25	-171.30	-17.58	177.43	553.85	535.41	18.44	30.035				
4,400.00	4,373.63	4,299.27	4,288.82	16.56	11.65	-171.16	-15.94	195.01	583.26	564.24	19.02	30.665				
4,500.00	4,472.63	4,413.37	4,401.71	16.97	12.07	-170.68	-10.33	210.57	609.98	590.36	19.62	31.088				
4,600.00	4,571.63	4,529.62	4,517.03	17.39	12.48	-170.11	-2.83	223.13	633.83	613.62	20.22	31.348				
4,700.00	4,670.63	4,639.14	4,625.98	17.80	12.87	-169.68	3.83	232.12	655.21	634.44	20.77	31.546				
4,800.00	4,769.64	4,737.90	4,724.30	18.22	13.21	-169.33	9.68	239.34	675.77	654.51	21.27	31.779				
4,900.00	4,868.64	4,851.64	4,837.67	18.64	13.61	-169.02	15.79	246.02	694.96	673.13	21.83	31.834				
5,000.00	4,967.64	4,952.75	4,938.56	19.05	13.96	-168.80	20.84	250.50	712.79	690.46	22.34	31.913				
5,100.00	5,066.64	5,041.52	5,027.09	19.47	14.27	-168.59	25.67	254.88	731.12	708.33	22.79	32.084				
5,200.00	5,165.64	5,122.97	5,108.18	19.89	14.56	-168.35	30.64	260.59	751.42	728.22	23.20	32.388				
5,300.00	5,264.64	5,211.87	5,196.59	20.30	14.88	-168.10	35.93	268.28	773.36	749.71	23.65	32.701				
5,400.00	5,363.64	5,313.25	5,297.44	20.72	15.25	-167.90	41.08	277.21	795.52	771.35	24.17	32.918				
5,500.00	5,462.64	5,409.11	5,392.84	21.14	15.60	-167.75	45.42	285.51	817.57	792.92	24.65	33.162				
5,600.00	5,561.64	5,504.28	5,487.54	21.56	15.95	-167.62	49.72	294.01	839.89	814.75	25.14	33.410				
5,700.00	5,660.64	5,601.00	5,583.75	21.98	16.31	-167.48	54.20	302.82	862.39	836.75	25.63	33.644				
5,800.00	5,759.64	5,698.41	5,680.65	22.39	16.67	-167.34	58.76	311.73	884.92	858.79	26.13	33.864				
5,900.00	5,858.65	5,795.68	5,777.41	22.81	17.03	-167.23	63.11	320.61	907.45	880.82	26.63	34.076				
6,000.00	5,957.65	5,892.96	5,874.19	23.23	17.39	-167.12	67.43	329.56	930.05	902.92	27.13	34.282				
6,100.00	6,056.65	5,990.45	5,971.18	23.65	17.75	-167.02	71.69	338.38	952.52	924.89	27.63	34.474				
6,200.00	6,155.65	6,082.77	6,062.99	24.07	18.10	-166.92	75.94	347.09	975.35	947.25	28.10	34.705				
6,300.00	6,254.65	6,176.21	6,155.85	24.49	18.45	-166.80	80.52	356.35	998.63	970.05	28.58	34.936				

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 58-OWSG (Rev2) MWD, 1335-OWSG (Rev2) MWD, 22173-BLIND													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,400.00	6,353.65	6,272.02	6,251.03	24.91	18.82	166.66	85.69	366.12	1,022.20	993.12	29.08	35.152		
6,500.00	6,452.65	6,370.38	6,348.72	25.33	19.19	166.50	91.35	376.12	1,045.72	1,016.13	29.59	35.341		
6,600.00	6,551.65	6,466.93	6,444.58	25.75	19.56	166.33	97.22	385.91	1,069.21	1,039.12	30.09	35.534		
6,700.00	6,650.65	6,563.93	6,540.89	26.17	19.93	166.16	103.22	395.84	1,092.81	1,062.22	30.59	35.720		
6,800.00	6,749.65	6,664.82	6,641.07	26.59	20.32	166.00	109.42	406.00	1,116.25	1,085.13	31.12	35.870		
6,900.00	6,848.65	6,761.46	6,767.05	27.01	20.80	165.88	115.75	417.32	1,138.73	1,106.96	31.77	35.839		
6,988.64	6,936.41	6,913.40	6,888.74	27.38	21.24	165.94	118.57	424.20	1,155.74	1,123.36	32.37	35.699		
7,000.00	6,947.66	6,921.41	6,896.74	27.43	21.27	165.96	118.71	424.57	1,157.78	1,125.36	32.42	35.713		
7,100.00	7,046.87	7,020.50	6,995.73	27.84	21.62	166.08	120.32	428.94	1,174.25	1,141.33	32.92	35.667		
7,200.00	7,146.37	7,120.53	7,095.66	28.23	21.98	166.17	121.87	433.26	1,188.12	1,154.69	33.43	35.543		
7,300.00	7,246.11	7,231.69	7,206.71	28.60	22.37	166.22	123.28	437.82	1,199.29	1,165.32	33.97	35.302		
7,400.00	7,345.99	7,384.36	7,359.35	28.95	22.88	166.27	124.45	439.73	1,205.16	1,170.52	34.64	34.793		
7,500.00	7,445.97	7,487.86	7,462.84	29.29	23.21	166.24	125.71	438.40	1,205.85	1,170.73	35.13	34.330		
7,529.03	7,475.00	7,512.85	7,487.82	29.38	23.29	91.53	125.90	438.10	1,205.60	1,170.34	35.25	34.200		
7,600.00	7,545.97	7,575.46	7,550.43	29.61	23.48	91.53	125.92	437.68	1,205.11	1,169.55	35.56	33.891		
7,700.00	7,645.97	7,673.26	7,648.23	29.92	23.79	91.54	125.63	437.40	1,204.84	1,168.82	36.02	33.451		
7,800.00	7,745.97	7,773.60	7,748.57	30.24	24.10	91.56	125.23	437.15	1,204.60	1,168.11	36.49	33.014		
7,900.00	7,845.97	7,872.24	7,847.20	30.56	24.42	91.58	124.74	436.99	1,204.45	1,167.50	36.95	32.594		
8,000.00	7,945.97	7,972.26	7,947.22	30.88	24.74	91.61	124.11	436.82	1,204.30	1,166.87	37.42	32.179		
8,075.59	8,021.56	8,046.40	8,021.36	31.12	24.97	91.64	123.59	436.76	1,204.26	1,166.48	37.78	31.878		
8,100.00	8,045.97	8,070.55	8,045.51	31.20	25.05	91.65	123.41	436.76	1,204.26	1,166.37	37.89	31.781		
8,200.00	8,145.97	8,169.13	8,144.09	31.52	25.37	91.69	122.55	436.81	1,204.33	1,165.97	38.36	31.393		
8,300.00	8,245.97	8,267.86	8,242.81	31.84	25.69	91.74	121.37	436.98	1,204.54	1,165.70	38.83	31.017		
8,400.00	8,345.97	8,366.54	8,341.48	32.17	26.01	91.82	119.84	437.21	1,204.82	1,165.51	39.31	30.651		
8,500.00	8,445.97	8,464.88	8,439.80	32.49	26.33	91.91	117.93	437.57	1,205.25	1,165.48	39.78	30.299		
8,600.00	8,545.97	8,560.02	8,534.92	32.82	26.65	92.00	115.87	438.11	1,205.89	1,165.65	40.24	29.966		
8,700.00	8,645.97	8,655.40	8,630.29	33.14	26.97	92.05	114.76	439.15	1,207.03	1,166.32	40.71	29.649		
8,800.00	8,745.97	8,752.77	8,727.64	33.47	27.31	92.04	114.94	440.52	1,208.42	1,167.24	41.19	29.339		
8,900.00	8,845.97	8,852.26	8,827.12	33.79	27.65	92.01	115.52	442.08	1,209.97	1,168.30	41.68	29.034		
9,000.00	8,945.97	8,954.35	8,929.19	34.12	28.00	92.00	115.62	443.59	1,211.45	1,169.28	42.17	28.727		
9,100.00	9,045.97	9,052.77	9,027.61	34.45	28.34	92.02	115.19	444.95	1,212.84	1,170.19	42.65	28.435		
9,200.00	9,145.97	9,153.79	9,128.61	34.78	28.69	92.05	114.66	446.43	1,214.32	1,171.18	43.14	28.145		
9,300.00	9,245.97	9,257.76	9,232.56	35.11	29.05	92.10	113.38	447.69	1,215.58	1,171.94	43.64	27.852		
9,400.00	9,345.97	9,360.23	9,335.01	35.44	29.39	92.20	111.35	448.62	1,216.57	1,172.43	44.14	27.564		
9,500.00	9,445.97	9,463.75	9,438.52	35.77	29.74	92.25	110.23	449.41	1,217.37	1,172.74	44.63	27.275		
9,600.00	9,545.97	9,573.30	9,548.06	36.10	30.11	92.21	111.15	449.51	1,217.42	1,172.27	45.15	26.964		
9,678.74	9,624.71	9,649.75	9,624.51	36.36	30.37	92.16	112.22	449.47	1,217.33	1,171.81	45.52	26.740		
9,700.00	9,645.97	9,669.91	9,644.67	36.43	30.44	92.14	112.51	449.49	1,217.34	1,171.72	45.62	26.682		
9,800.00	9,745.97	9,764.25	9,738.99	36.76	30.76	92.07	114.05	449.84	1,217.65	1,171.56	46.09	26.417		
9,900.00	9,845.97	9,855.63	9,830.36	37.09	31.07	92.00	115.58	450.67	1,218.51	1,171.95	46.56	26.173		
10,000.00	9,945.97	9,941.10	9,915.80	37.42	31.37	91.92	117.11	452.25	1,220.31	1,173.31	47.00	25.966		
10,100.00	10,045.97	10,022.31	9,996.95	37.76	31.66	91.87	118.05	454.94	1,223.57	1,176.15	47.42	25.805		
10,200.00	10,145.97	10,114.91	10,089.47	38.09	31.99	91.88	117.79	459.02	1,227.97	1,180.10	47.88	25.648		
10,300.00	10,245.97	10,255.42	10,229.91	38.43	32.48	91.96	115.94	462.61	1,230.43	1,181.91	48.52	25.357		
10,400.00	10,345.97	10,357.30	10,331.79	38.76	32.84	91.97	115.75	463.65	1,231.45	1,182.43	49.02	25.120		
10,500.00	10,445.97	10,456.29	10,430.77	39.09	33.18	91.95	116.02	464.88	1,232.69	1,183.18	49.51	24.897		
10,600.00	10,545.97	10,582.09	10,556.56	39.43	33.61	91.99	115.15	465.35	1,233.14	1,183.06	50.08	24.624		
10,700.00	10,645.97	10,688.78	10,663.24	39.77	33.95	92.03	114.27	464.15	1,232.05	1,181.48	50.58	24.361		
10,800.00	10,745.97	10,801.42	10,775.84	40.10	34.32	91.98	115.49	462.02	1,230.13	1,179.04	51.09	24.079		
10,900.00	10,845.97	10,920.41	10,894.69	40.44	34.71	91.78	119.93	458.48	1,227.04	1,175.43	51.61	23.775		
11,000.00	10,945.97	11,064.51	11,038.35	40.78	35.17	91.42	127.74	450.60	1,221.49	1,169.33	52.16	23.420		
11,100.00	11,045.97	11,177.24	11,150.59	41.11	35.53	91.30	130.69	440.59	1,212.44	1,159.80	52.64	23.031		

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - Blue Ribbon Fed Com 702H - OH - OH		Offset Site Error:	0.00 usft
Survey Program:													58-OWSG (Rev2) MWD, 1335-OWSG (Rev2) MWD, 22173-BLIND		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
11,200.00	11,145.97	11,238.00	11,211.18	41.45	35.72	91.28	131.02	436.06	1,205.14	1,152.06	53.08	22.703				
11,300.00	11,245.97	11,304.78	11,277.88	41.79	35.93	91.33	130.17	433.06	1,200.81	1,147.31	53.50	22.444				
11,400.00	11,345.97	11,381.42	11,354.47	42.13	36.18	91.45	127.62	431.99	1,199.41	1,145.48	53.93	22.242				
11,481.80	11,427.77	11,454.58	11,427.57	42.40	36.42	91.60	124.59	431.64	1,199.10	1,144.81	54.30	22.084				
11,500.00	11,445.97	11,470.75	11,443.71	42.46	36.48	91.65	123.54	431.62	1,199.12	1,144.74	54.38	22.052				
11,600.00	11,545.97	11,569.35	11,541.51	42.80	36.80	92.22	111.60	431.70	1,199.61	1,144.76	54.85	21.870				
11,662.91	11,608.87	11,638.92	11,608.67	43.02	37.00	93.08	93.63	430.71	1,199.44	1,144.28	55.16	21.745				
11,685.03	11,631.00	11,655.57	11,624.38	43.09	37.05	93.34	88.14	430.45	1,199.50	1,144.26	55.25	21.712				
11,700.00	11,645.97	11,662.00	11,630.41	43.14	37.07	-86.05	85.91	430.35	1,199.61	1,144.32	55.29	21.698				
11,750.00	11,695.83	11,696.00	11,661.92	43.30	37.16	-85.47	73.15	430.10	1,200.29	1,144.84	55.45	21.647				
11,800.00	11,745.20	11,710.00	11,674.72	43.45	37.20	-85.14	67.47	430.12	1,201.68	1,146.16	55.52	21.644				
11,850.00	11,793.70	11,738.85	11,700.79	43.59	37.28	-84.64	55.15	430.76	1,203.75	1,148.12	55.63	21.639				
11,900.00	11,840.96	11,757.00	11,717.00	43.72	37.33	-84.22	47.04	431.70	1,206.82	1,151.15	55.67	21.678				
11,950.00	11,886.62	11,804.00	11,757.80	43.85	37.45	-83.68	23.91	434.60	1,210.21	1,154.36	55.85	21.670				
12,000.00	11,930.34	11,854.70	11,799.39	43.96	37.57	-83.16	-4.91	437.31	1,213.20	1,157.16	56.04	21.650				
12,050.00	11,971.78	11,903.09	11,837.22	44.07	37.68	-82.75	-35.01	439.49	1,215.65	1,159.44	56.21	21.626				
12,100.00	12,010.63	11,945.00	11,868.83	44.16	37.77	-82.48	-62.48	441.17	1,217.61	1,161.25	56.36	21.605				
12,150.00	12,046.59	11,979.65	11,893.95	44.24	37.84	-82.31	-86.29	442.70	1,219.50	1,163.02	56.47	21.594				
12,200.00	12,079.38	12,024.15	11,924.49	44.32	37.95	-82.22	-118.55	445.04	1,221.49	1,164.84	56.64	21.564				
12,250.00	12,108.76	12,087.03	11,964.61	44.39	38.11	-82.31	-166.91	447.39	1,222.57	1,165.66	56.91	21.483				
12,300.00	12,134.51	12,129.34	11,988.51	44.45	38.23	-82.39	-201.78	448.39	1,222.99	1,165.91	57.08	21.426				
12,350.00	12,156.42	12,169.00	12,006.51	44.51	38.35	-82.40	-237.08	448.99	1,223.24	1,166.01	57.23	21.373				
12,400.00	12,174.34	12,206.91	12,020.38	44.57	38.47	-82.41	-272.35	449.45	1,223.37	1,165.99	57.38	21.319				
12,450.00	12,188.12	12,248.03	12,033.90	44.64	38.60	-82.52	-311.18	450.07	1,223.34	1,165.78	57.56	21.253				
12,500.00	12,197.66	12,289.87	12,047.13	44.72	38.75	-82.80	-350.86	450.90	1,223.09	1,165.32	57.77	21.173				
12,550.00	12,202.89	12,343.34	12,062.08	44.81	38.95	-83.31	-402.19	451.89	1,222.51	1,164.48	58.03	21.066				
12,600.00	12,203.76	12,392.12	12,073.74	44.92	39.14	-83.93	-449.55	452.34	1,221.29	1,162.99	58.30	20.948				
12,605.03	12,203.61	12,396.81	12,074.74	44.93	39.16	-84.00	-454.13	452.37	1,221.15	1,162.82	58.33	20.936				
12,692.94	12,200.54	12,451.93	12,084.99	45.17	39.39	-84.57	-508.27	453.33	1,219.94	1,161.22	58.72	20.776				
12,700.00	12,200.29	12,457.27	12,085.79	45.19	39.42	-84.62	-513.54	453.47	1,219.94	1,161.19	58.75	20.764				
12,800.00	12,196.80	12,535.00	12,090.60	45.53	39.76	-84.98	-590.98	455.80	1,221.16	1,161.90	59.26	20.607				
12,900.00	12,193.31	12,625.13	12,086.14	45.94	40.20	-84.92	-680.94	458.86	1,223.78	1,163.93	59.85	20.449				
13,000.00	12,189.82	12,720.58	12,080.40	46.41	40.71	-84.82	-776.16	462.35	1,226.78	1,166.25	60.52	20.269				
13,100.00	12,186.33	12,831.93	12,076.12	46.94	41.38	-84.82	-887.36	466.07	1,229.24	1,167.88	61.36	20.032				
13,200.00	12,182.84	12,943.83	12,073.03	47.52	42.11	-84.87	-999.14	470.02	1,231.92	1,169.63	62.30	19.775				
13,300.00	12,179.36	13,095.85	12,068.81	48.15	43.19	-84.91	-1,151.09	469.32	1,230.24	1,166.70	63.53	19.363				
13,400.00	12,175.87	13,207.07	12,065.12	48.84	44.06	-84.90	-1,262.21	466.22	1,226.55	1,161.91	64.64	18.976				
13,500.00	12,172.38	13,297.33	12,061.86	49.56	44.80	-84.88	-1,352.38	463.94	1,223.16	1,157.49	65.67	18.625				
13,600.00	12,168.89	13,388.13	12,058.82	50.33	45.58	-84.88	-1,443.10	462.09	1,220.27	1,153.50	66.77	18.275				
13,700.00	12,165.40	13,457.00	12,058.84	51.15	46.19	-84.99	-1,511.97	461.94	1,218.98	1,151.21	67.77	17.987				
13,723.00	12,164.59	13,482.96	12,059.33	51.34	46.43	-85.05	-1,537.92	462.22	1,218.92	1,150.83	68.09	17.902				
13,800.00	12,161.91	13,548.00	12,060.11	52.00	47.04	-85.20	-1,602.95	463.44	1,219.37	1,150.39	68.98	17.677				
13,900.00	12,158.42	13,635.29	12,060.79	52.89	47.89	-85.38	-1,690.20	465.93	1,220.98	1,150.77	70.21	17.391				
14,000.00	12,154.93	13,718.21	12,061.35	53.82	48.72	-85.55	-1,773.05	469.19	1,223.70	1,152.26	71.44	17.130				
14,100.00	12,151.44	13,803.08	12,060.92	54.78	49.60	-85.68	-1,857.80	473.58	1,227.77	1,155.05	72.71	16.885				
14,200.00	12,147.95	13,910.52	12,058.99	55.77	50.75	-85.78	-1,965.05	479.58	1,232.35	1,158.11	74.25	16.598				
14,300.00	12,144.46	14,028.47	12,059.89	56.79	52.05	-86.03	-2,082.89	484.57	1,235.35	1,159.40	75.95	16.266				
14,400.00	12,140.97	14,109.79	12,061.68	57.84	52.97	-86.25	-2,164.10	488.39	1,238.78	1,161.46	77.32	16.021				
14,500.00	12,137.48	14,255.97	12,064.33	58.92	54.67	-86.62	-2,310.11	494.77	1,242.35	1,162.94	79.41	15.645				
14,600.00	12,133.99	14,380.36	12,065.49	60.03	56.14	-86.87	-2,434.49	494.60	1,240.93	1,159.64	81.29	15.266				
14,700.00	12,130.50	14,469.45	12,064.10	61.16	57.22	-86.95	-2,523.57	494.48	1,239.81	1,156.97	82.85	14.965				
14,800.00	12,127.01	14,570.00	12,062.70	62.31	58.45	-87.05	-2,624.10	494.50	1,238.85	1,154.30	84.55	14.652				

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
County Fair/Blue Ribbon - Blue Ribbon Fed Com 702H - OH - OH													Offset Well Error:	0.00 usft
Survey Program: 58-OWSG (Rev2) MWD, 1335-OWSG (Rev2) MWD, 22173-BLIND														
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		
14,853.95	12,125.12	14,615.33	12,062.81	62.94	59.02	-87.12	-2,669.43	494.67	1,238.51	1,153.11	85.40	14.502		
14,900.00	12,123.52	14,648.69	12,063.14	63.48	59.43	-87.19	-2,702.78	495.21	1,238.75	1,152.68	86.06	14.393		
15,000.00	12,120.03	14,735.90	12,064.39	64.68	60.54	-87.40	-2,789.95	497.65	1,240.42	1,152.74	87.68	14.146		
15,100.00	12,116.54	14,901.55	12,064.92	65.89	62.67	-87.69	-2,955.52	499.88	1,241.31	1,151.14	90.17	13.766		
15,200.00	12,113.05	15,052.25	12,066.45	67.13	64.61	-87.98	-3,105.93	491.64	1,234.15	1,141.73	92.42	13.354		
15,300.00	12,109.56	15,129.00	12,068.21	68.38	65.62	-88.18	-3,182.57	487.90	1,228.12	1,134.05	94.07	13.055		
15,400.00	12,106.07	15,204.79	12,070.67	69.65	66.63	-88.42	-3,258.28	485.68	1,224.01	1,128.29	95.72	12.788		
15,500.00	12,102.58	15,314.94	12,073.05	70.93	68.11	-88.71	-3,368.37	482.80	1,220.40	1,122.70	97.70	12.491		
15,600.00	12,099.09	15,411.00	12,073.88	72.23	69.41	-88.90	-3,464.37	479.62	1,216.12	1,116.56	99.56	12.215		
15,700.00	12,095.60	15,504.00	12,074.78	73.54	70.68	-89.09	-3,557.33	477.18	1,212.55	1,111.14	101.41	11.957		
15,800.00	12,092.11	15,597.00	12,074.78	74.86	71.96	-89.24	-3,650.31	475.40	1,209.69	1,106.42	103.27	11.714		
15,900.00	12,088.62	15,690.00	12,073.23	76.20	73.25	-89.32	-3,743.29	473.85	1,207.14	1,102.00	105.14	11.481		
16,000.00	12,085.13	15,775.82	12,072.52	77.55	74.46	-89.43	-3,829.10	473.21	1,205.49	1,098.55	106.94	11.272		
16,100.00	12,081.64	15,866.86	12,073.01	78.91	75.74	-89.60	-3,920.13	473.47	1,204.86	1,096.05	108.81	11.073		
16,128.48	12,080.64	15,892.05	12,073.00	79.30	76.10	-89.65	-3,945.33	473.65	1,204.82	1,095.48	109.34	11.019		
16,200.00	12,078.15	15,953.82	12,073.69	80.28	76.99	-89.78	-4,007.08	474.46	1,205.11	1,094.47	110.64	10.892		
16,300.00	12,074.66	16,038.75	12,076.43	81.67	78.21	-90.05	-4,091.94	476.42	1,206.55	1,094.11	112.44	10.731		
16,400.00	12,071.17	16,150.00	12,079.32	83.06	79.82	-90.37	-4,203.09	479.50	1,208.51	1,093.89	114.62	10.544		
16,500.00	12,067.68	16,239.57	12,079.77	84.46	81.13	-90.54	-4,292.62	481.61	1,210.03	1,093.52	116.50	10.386		
16,600.00	12,064.19	16,346.88	12,082.83	85.87	82.70	-90.86	-4,399.85	484.44	1,211.88	1,093.24	118.64	10.214		
16,700.00	12,060.70	16,459.49	12,084.46	87.29	84.35	-91.12	-4,512.43	486.37	1,212.81	1,091.95	120.86	10.035		
16,800.00	12,057.21	16,571.16	12,085.63	88.72	85.99	-91.36	-4,624.09	487.14	1,212.73	1,089.66	123.07	9.854		
16,900.00	12,053.72	16,664.90	12,086.96	90.15	87.38	-91.58	-4,717.82	487.27	1,212.13	1,087.08	125.05	9.693		
16,900.50	12,053.70	16,665.30	12,086.97	90.16	87.39	-91.58	-4,718.21	487.27	1,212.13	1,087.08	125.06	9.693		
17,000.00	12,050.23	16,745.06	12,088.89	91.59	88.57	-91.80	-4,797.95	488.53	1,213.00	1,086.16	126.84	9.563		
17,100.00	12,046.74	16,812.00	12,090.94	93.04	89.57	-92.01	-4,864.83	490.41	1,215.44	1,087.05	128.39	9.467		
17,200.00	12,043.25	16,906.00	12,095.13	94.49	90.99	-92.35	-4,958.60	495.24	1,220.02	1,089.66	130.36	9.359		
17,279.03	12,040.49	17,027.03	12,098.72	95.65	92.82	-92.71	-5,079.47	499.84	1,222.58	1,089.90	132.69	9.214		
17,300.00	12,039.76	17,045.19	12,098.90	95.96	93.09	-92.75	-5,097.61	500.24	1,222.92	1,089.83	133.08	9.189		
17,400.00	12,036.27	17,129.33	12,099.56	97.42	94.36	-92.91	-5,181.72	502.71	1,225.32	1,090.39	134.93	9.081		
17,500.00	12,032.78	17,212.06	12,102.14	98.90	95.62	-93.15	-5,264.33	506.24	1,229.36	1,092.63	136.73	8.991		
17,600.00	12,029.29	17,303.24	12,106.88	100.37	97.01	-93.51	-5,355.25	511.07	1,234.76	1,096.09	138.66	8.905		
17,700.00	12,025.80	17,402.82	12,107.37	101.86	98.54	-93.67	-5,454.66	516.57	1,240.30	1,099.53	140.76	8.811		
17,800.00	12,022.31	17,507.29	12,107.51	103.35	100.14	-93.82	-5,558.93	523.08	1,246.74	1,103.77	142.96	8.721		
17,900.00	12,018.82	17,657.01	12,108.14	104.84	102.44	-94.07	-5,708.55	527.99	1,250.34	1,104.46	145.89	8.571		
18,000.00	12,015.33	17,773.08	12,103.84	106.34	104.22	-94.05	-5,824.53	528.33	1,250.79	1,102.54	148.25	8.437		
18,100.00	12,011.84	17,838.00	12,107.04	107.84	105.22	-94.30	-5,889.33	529.12	1,253.09	1,103.24	149.85	8.362		
18,200.00	12,008.35	17,982.70	12,117.91	109.34	107.44	-95.02	-6,033.59	527.99	1,253.26	1,100.73	152.52	8.217		
18,300.00	12,004.86	18,056.19	12,123.66	110.85	108.58	-95.39	-6,106.85	527.84	1,254.91	1,100.65	154.25	8.135		
18,400.00	12,001.36	18,151.38	12,130.91	112.37	110.05	-95.86	-6,201.75	529.45	1,258.65	1,102.41	156.24	8.056		
18,500.00	11,997.87	18,311.39	12,136.75	113.88	112.52	-96.37	-6,361.60	527.59	1,259.22	1,100.18	159.04	7.917		
18,533.85	11,996.69	18,331.14	12,137.03	114.40	112.83	-96.41	-6,381.34	527.14	1,259.05	1,099.44	159.62	7.888		
18,600.00	11,994.38	18,374.24	12,138.44	115.40	113.50	-96.54	-6,424.41	526.64	1,259.70	1,098.97	160.73	7.837		
18,700.00	11,990.89	18,462.95	12,143.66	116.93	114.87	-96.90	-6,512.97	526.91	1,262.57	1,099.93	162.64	7.763		
18,800.00	11,987.40	18,574.22	12,150.21	118.45	116.61	-97.36	-6,624.05	526.83	1,265.36	1,100.52	164.84	7.676		
18,900.00	11,983.91	18,645.75	12,154.99	119.98	117.72	-97.68	-6,695.41	526.90	1,268.73	1,102.25	166.48	7.621		
19,000.00	11,980.42	18,757.39	12,163.53	121.51	119.47	-98.21	-6,806.69	527.94	1,273.25	1,104.58	168.67	7.549		
19,100.00	11,976.94	18,868.00	12,169.91	123.05	121.20	-98.64	-6,917.10	527.70	1,276.55	1,105.70	170.84	7.472		
19,197.68	11,973.53	18,963.69	12,174.70	124.55	122.70	-98.98	-7,012.65	528.28	1,280.71	1,107.90	172.81	7.411		
19,200.00	11,973.45	18,966.41	12,174.75	124.58	122.74	-98.99	-7,015.37	528.29	1,280.80	1,107.93	172.86	7.409		
19,300.00	11,969.96	19,041.69	12,178.36	126.12	123.92	-99.24	-7,090.55	529.10	1,285.61	1,111.07	174.54	7.366		
19,400.00	11,966.47	19,127.45	12,185.62	127.67	125.28	-99.67	-7,175.99	530.78	1,291.96	1,115.68	176.28	7.329		

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - Blue Ribbon Fed Com 702H - OH - OH		Offset Site Error:	0.00 usft
Survey Program: 58-OWSG (Rev2) MWD, 1335-OWSG (Rev2) MWD, 22173-BLIND													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				
19,500.00	11,962.98	19,291.25	12,196.55	129.21	127.85	-100.36	-7,339.37	530.58	1,295.86	1,116.70	179.15	7.233				
19,600.00	11,959.49	19,387.09	12,200.69	130.76	129.35	-100.68	-7,435.10	528.82	1,297.92	1,116.80	181.12	7.166				
19,700.00	11,956.00	19,476.23	12,205.08	132.31	130.76	-101.00	-7,524.13	527.61	1,300.62	1,117.63	182.99	7.108				
19,800.00	11,952.51	19,587.33	12,211.11	133.86	132.51	-101.41	-7,635.05	526.52	1,303.87	1,118.77	185.10	7.044				
19,900.00	11,949.02	19,675.59	12,213.09	135.41	133.90	-101.62	-7,723.28	525.43	1,306.29	1,119.29	187.00	6.986				
20,000.00	11,945.53	19,798.38	12,214.64	136.97	135.83	-101.85	-7,846.05	524.99	1,309.48	1,120.13	189.35	6.916				
20,100.00	11,942.04	19,895.00	12,215.31	138.53	137.36	-102.01	-7,942.64	523.40	1,311.15	1,119.77	191.38	6.851				
20,200.00	11,938.55	19,982.45	12,218.13	140.09	138.74	-102.25	-8,030.03	522.07	1,313.50	1,120.25	193.25	6.797				
20,300.00	11,935.06	20,049.31	12,220.71	141.65	139.80	-102.45	-8,096.84	522.02	1,317.45	1,122.67	194.78	6.764				
20,400.00	11,931.57	20,125.36	12,225.41	143.21	141.01	-102.73	-8,172.72	523.52	1,323.85	1,127.52	196.33	6.743				
20,500.00	11,928.08	20,242.07	12,236.39	144.78	142.87	-103.31	-8,288.89	525.55	1,330.98	1,132.54	198.45	6.707				
20,600.00	11,924.59	20,371.39	12,241.85	146.35	144.93	-103.69	-8,418.09	526.11	1,335.58	1,134.72	200.86	6.649				
20,700.00	11,921.10	20,459.12	12,244.34	147.91	146.32	-103.90	-8,505.78	526.12	1,339.54	1,136.85	202.69	6.609				
20,800.00	11,917.61	20,545.14	12,246.38	149.48	147.70	-104.08	-8,591.76	527.34	1,344.73	1,140.24	204.48	6.576				
20,900.00	11,914.12	20,652.25	12,246.90	151.06	149.41	-104.20	-8,698.83	529.82	1,350.37	1,143.67	206.70	6.533				
21,000.00	11,910.63	20,790.83	12,244.09	152.63	151.62	-104.23	-8,837.36	531.57	1,354.47	1,145.02	209.45	6.467				
21,100.00	11,907.14	20,912.42	12,243.04	154.20	153.55	-104.36	-8,958.91	528.53	1,354.91	1,143.13	211.77	6.398				
21,200.00	11,903.65	20,992.47	12,244.09	155.78	154.82	-104.51	-9,038.92	526.71	1,356.31	1,142.72	213.59	6.350				
21,300.00	11,900.16	21,083.52	12,244.98	157.36	156.27	-104.66	-9,129.97	526.01	1,359.06	1,143.55	215.51	6.306				
21,400.00	11,896.68	21,176.45	12,246.89	158.94	157.75	-104.86	-9,222.87	524.98	1,361.82	1,144.40	217.42	6.264				
21,500.00	11,893.19	21,263.70	12,250.96	160.52	159.15	-105.13	-9,310.02	524.63	1,365.91	1,146.75	219.16	6.232				
21,600.00	11,889.70	21,362.66	12,254.84	162.10	160.73	-105.40	-9,408.91	524.37	1,370.00	1,148.92	221.08	6.197				
21,700.00	11,886.21	21,458.08	12,259.69	163.68	162.26	-105.70	-9,504.20	524.46	1,374.77	1,151.88	222.90	6.168				
21,800.00	11,882.72	21,550.61	12,263.13	165.27	163.75	-105.94	-9,596.67	524.73	1,379.44	1,154.73	224.71	6.139				
21,900.00	11,879.23	21,632.91	12,267.70	166.85	165.07	-106.20	-9,678.84	525.76	1,385.50	1,159.22	226.28	6.123				
22,000.00	11,875.74	21,729.59	12,271.64	168.44	166.63	-106.44	-9,775.40	527.95	1,392.18	1,164.03	228.15	6.102				
22,100.00	11,872.25	21,859.61	12,273.37	170.02	168.72	-106.62	-9,905.37	530.49	1,397.78	1,167.05	230.73	6.058				
22,200.00	11,868.76	21,992.65	12,274.15	171.61	170.85	-106.81	-10,038.39	528.97	1,399.91	1,166.70	233.21	6.003				
22,300.00	11,865.27	22,068.00	12,275.20	173.20	172.06	-106.93	-10,113.74	528.72	1,403.30	1,168.42	234.87	5.975				
22,400.00	11,861.78	22,168.40	12,275.99	174.79	179.16	-107.07	-10,214.13	529.29	1,407.46	1,166.86	240.60	5.850				
22,410.02	11,861.43	22,173.00	12,276.01	174.94	179.73	-107.07	-10,218.73	529.31	1,407.87	1,166.80	241.07	5.840 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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Reference				Offset				Semi Major Axis				Distance	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.48	0.64	69.98	69.98				
100.00	100.00	100.00	100.00	0.13	0.13	89.48	0.64	69.98	69.98	69.81	0.18	394.415	
200.00	200.00	200.00	200.00	0.48	0.48	89.48	0.64	69.98	69.98	69.30	0.68	102.256	
300.00	300.00	300.00	300.00	0.84	0.84	89.48	0.64	69.98	69.98	68.79	1.19	58.743	
400.00	400.00	400.00	400.00	1.20	1.20	89.48	0.64	69.98	69.98	68.28	1.70	41.208	
500.00	500.00	500.00	500.00	1.56	1.56	89.48	0.64	69.98	69.98	67.78	2.21	31.735	
600.00	600.00	600.00	600.00	1.92	1.92	89.48	0.64	69.98	69.98	67.27	2.71	25.803	
700.00	700.00	700.00	700.00	2.28	2.28	89.48	0.64	69.98	69.98	66.76	3.22	21.739	
800.00	800.00	800.00	800.00	2.63	2.63	89.48	0.64	69.98	69.98	66.26	3.73	18.782	
900.00	900.00	900.00	900.00	2.99	2.99	89.48	0.64	69.98	69.98	65.75	4.23	16.532	
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	89.48	0.64	69.98	69.98	65.24	4.74	14.764	
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	89.48	0.64	69.98	69.98	64.74	5.25	13.338	
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	89.48	0.64	69.98	69.98	64.23	5.75	12.163	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	89.48	0.64	69.98	69.98	63.72	6.26	11.178	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	89.48	0.64	69.98	69.98	63.22	6.77	10.340 CC, ES	
1,500.00	1,499.99	1,499.99	1,499.99	5.14	5.14	179.49	0.64	69.98	71.29	64.02	7.27	9.808	
1,600.00	1,599.91	1,599.91	1,599.91	5.48	5.50	179.51	0.64	69.98	75.22	67.45	7.76	9.688	
1,700.00	1,699.69	1,699.69	1,699.69	5.83	5.86	179.55	0.64	69.98	81.76	73.50	8.26	9.897	
1,800.00	1,799.27	1,799.27	1,799.27	6.18	6.22	179.59	0.64	69.98	90.91	82.15	8.76	10.380	
1,900.00	1,898.57	1,898.57	1,898.57	6.54	6.57	179.64	0.64	69.98	102.66	93.40	9.26	11.092	
1,940.67	1,938.86	1,938.86	1,938.86	6.69	6.72	179.66	0.64	69.98	108.18	98.72	9.46	11.438	
2,000.00	1,997.60	1,997.60	1,997.60	6.91	6.93	179.68	0.64	69.98	116.55	106.80	9.75	11.950	
2,100.00	2,096.60	2,096.60	2,096.60	7.28	7.28	179.72	0.64	69.98	130.66	120.41	10.25	12.747	
2,200.00	2,195.60	2,195.60	2,195.60	7.66	7.64	179.74	0.64	69.98	144.77	134.02	10.75	13.468	
2,300.00	2,294.60	2,294.60	2,294.60	8.05	7.99	179.77	0.64	69.98	158.87	147.63	11.25	14.124	
2,400.00	2,393.60	2,393.60	2,393.60	8.44	8.35	179.79	0.64	69.98	172.98	161.23	11.75	14.723	
2,500.00	2,492.60	2,488.91	2,488.91	8.83	8.69	179.63	1.20	70.85	188.00	175.77	12.23	15.368	
2,600.00	2,591.60	2,583.31	2,583.24	9.22	9.02	179.14	3.02	73.68	205.09	192.38	12.71	16.142	
2,700.00	2,690.60	2,676.93	2,676.69	9.62	9.35	178.42	6.06	78.42	224.26	211.09	13.17	17.029	
2,800.00	2,789.60	2,773.53	2,773.00	10.02	9.69	177.58	10.12	84.74	244.95	231.29	13.65	17.942	
2,900.00	2,888.60	2,871.29	2,870.46	10.42	10.04	176.85	14.27	91.20	265.74	251.60	14.15	18.786	
2,940.67	2,928.86	2,911.05	2,910.09	10.59	10.18	176.59	15.96	93.83	274.21	259.86	14.35	19.113	
3,000.00	2,987.61	2,969.09	2,967.95	10.82	10.39	169.88	18.42	97.66	286.48	271.84	14.64	19.567	
3,084.09	3,070.87	3,051.42	3,050.03	11.16	10.68	160.70	21.91	103.10	303.57	288.51	15.06	20.159	
3,100.00	3,086.62	3,067.00	3,065.56	11.23	10.74	160.72	22.57	104.13	306.77	291.63	15.14	20.265	
3,200.00	3,185.62	3,164.96	3,163.22	11.63	11.09	160.87	26.73	110.59	326.87	311.24	15.64	20.903	
3,300.00	3,284.62	3,262.91	3,260.87	12.04	11.44	161.00	30.88	117.06	346.98	330.84	16.14	21.501	
3,400.00	3,383.62	3,360.87	3,358.52	12.45	11.80	161.12	35.04	123.53	367.09	350.45	16.64	22.062	
3,500.00	3,482.62	3,458.82	3,456.18	12.85	12.15	161.22	39.19	130.00	387.19	370.05	17.14	22.589	
3,600.00	3,581.62	3,556.78	3,553.83	13.26	12.51	161.32	43.35	136.47	407.30	389.66	17.64	23.086	
3,700.00	3,680.63	3,654.73	3,651.48	13.67	12.87	161.41	47.50	142.94	427.41	409.27	18.15	23.554	
3,800.00	3,779.63	3,752.69	3,749.13	14.08	13.23	161.48	51.66	149.41	447.52	428.87	18.65	23.995	
3,900.00	3,878.63	3,850.64	3,846.79	14.49	13.59	161.55	55.81	155.88	467.64	448.48	19.15	24.413	
4,000.00	3,977.63	3,948.60	3,944.44	14.91	13.94	161.62	59.97	162.35	487.75	468.09	19.66	24.809	
4,100.00	4,076.63	4,046.56	4,042.09	15.32	14.30	161.68	64.12	168.82	507.86	487.70	20.17	25.185	
4,200.00	4,175.63	4,144.51	4,139.75	15.73	14.66	161.74	68.28	175.29	527.98	507.30	20.67	25.541	
4,300.00	4,274.63	4,242.47	4,237.40	16.15	15.03	161.79	72.43	181.76	548.09	526.91	21.18	25.880	
4,400.00	4,373.63	4,340.42	4,335.05	16.56	15.39	161.84	76.59	188.22	568.20	546.52	21.68	26.203	
4,500.00	4,472.63	4,438.38	4,432.70	16.97	15.75	161.88	80.74	194.69	588.32	566.13	22.19	26.510	
4,600.00	4,571.63	4,536.33	4,530.36	17.39	16.11	161.92	84.90	201.16	608.43	585.74	22.70	26.804	
4,700.00	4,670.63	4,634.29	4,628.01	17.80	16.47	161.96	89.06	207.63	628.55	605.34	23.21	27.084	
4,800.00	4,769.64	4,732.24	4,725.66	18.22	16.84	162.00	93.21	214.10	648.67	624.95	23.72	27.351	

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		County Fair/Blue Ribbon - Blue Ribbon Fed Com 702H2 - OH - Plan #1											Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.00	4,868.64	4,830.20	4,823.32	18.64	17.20	162.03	97.37	220.57	668.78	644.56	24.22	27.608		
5,000.00	4,967.64	4,928.15	4,920.97	19.05	17.56	162.07	101.52	227.04	688.90	664.17	24.73	27.853		
5,100.00	5,066.64	5,026.11	5,018.62	19.47	17.93	162.10	105.68	233.51	709.01	683.77	25.24	28.088		
5,200.00	5,165.64	5,124.06	5,116.27	19.89	18.29	162.12	109.83	239.98	729.13	703.38	25.75	28.314		
5,300.00	5,264.64	5,222.02	5,213.93	20.30	18.65	162.15	113.99	246.45	749.25	722.99	26.26	28.530		
5,400.00	5,363.64	5,319.97	5,311.58	20.72	19.02	162.18	118.14	252.92	769.37	742.59	26.77	28.738		
5,500.00	5,462.64	5,417.93	5,409.23	21.14	19.38	162.20	122.30	259.39	789.48	762.20	27.28	28.938		
5,600.00	5,561.64	5,515.88	5,506.89	21.56	19.75	162.23	126.45	265.85	809.60	781.81	27.79	29.131		
5,700.00	5,660.64	5,613.84	5,604.54	21.98	20.11	162.25	130.61	272.32	829.72	801.41	28.30	29.316		
5,800.00	5,759.64	5,711.79	5,702.19	22.39	20.48	162.27	134.76	278.79	849.83	821.02	28.81	29.495		
5,900.00	5,858.65	5,809.75	5,799.84	22.81	20.84	162.29	138.92	285.26	869.95	840.63	29.32	29.667		
6,000.00	5,957.65	5,907.70	5,897.50	23.23	21.21	162.31	143.07	291.73	890.07	860.23	29.83	29.833		
6,100.00	6,056.65	6,005.66	5,995.15	23.65	21.57	162.33	147.23	298.20	910.19	879.84	30.35	29.993		
6,200.00	6,155.65	6,103.61	6,092.80	24.07	21.94	162.35	151.38	304.67	930.30	899.45	30.86	30.148		
6,300.00	6,254.65	6,201.57	6,190.46	24.49	22.31	162.36	155.54	311.14	950.42	919.05	31.37	30.298		
6,400.00	6,353.65	6,299.52	6,288.11	24.91	22.67	162.38	159.69	317.61	970.54	938.66	31.88	30.443		
6,500.00	6,452.65	6,414.92	6,403.20	25.33	23.10	162.42	164.16	324.56	990.12	957.64	32.48	30.483		
6,600.00	6,551.65	6,542.00	6,530.18	25.75	23.56	162.58	167.00	328.99	1,007.11	973.99	33.12	30.411		
6,700.00	6,650.65	6,662.49	6,650.65	26.17	23.99	162.83	167.64	329.98	1,021.37	987.66	33.70	30.303		
6,800.00	6,749.65	6,761.49	6,749.65	26.59	24.33	163.06	167.64	329.98	1,034.86	1,000.65	34.21	30.248		
6,900.00	6,848.65	6,860.49	6,848.65	27.01	24.68	163.29	167.64	329.98	1,048.37	1,013.65	34.72	30.195		
6,988.64	6,936.41	6,948.25	6,936.41	27.38	24.98	163.48	167.64	329.98	1,060.35	1,025.18	35.17	30.150		
7,000.00	6,947.66	6,959.50	6,947.66	27.43	25.02	163.51	167.64	329.98	1,061.87	1,026.65	35.23	30.144		
7,100.00	7,046.87	7,058.71	7,046.87	27.84	25.37	163.75	167.64	329.98	1,073.88	1,038.15	35.73	30.052		
7,200.00	7,146.37	7,158.21	7,146.37	28.23	25.72	163.94	167.64	329.98	1,083.40	1,047.16	36.24	29.897		
7,300.00	7,246.11	7,257.94	7,246.11	28.60	26.06	164.07	167.64	329.98	1,090.42	1,053.68	36.74	29.679		
7,400.00	7,345.99	7,357.83	7,345.99	28.95	26.41	164.16	167.64	329.98	1,094.93	1,057.68	37.24	29.401		
7,500.00	7,445.97	7,457.81	7,445.97	29.29	26.76	164.20	167.64	329.98	1,096.92	1,059.18	37.74	29.066		
7,529.03	7,475.00	7,486.84	7,475.00	29.38	26.87	89.50	167.64	329.98	1,097.02	1,059.14	37.88	28.960		
7,600.00	7,545.97	7,557.81	7,545.97	29.61	27.11	89.50	167.64	329.98	1,097.02	1,058.79	38.23	28.697		
7,700.00	7,645.97	7,657.81	7,645.97	29.92	27.46	89.50	167.64	329.98	1,097.02	1,058.31	38.72	28.334		
7,800.00	7,745.97	7,757.81	7,745.97	30.24	27.81	89.50	167.64	329.98	1,097.02	1,057.82	39.21	27.980		
7,900.00	7,845.97	7,857.81	7,845.97	30.56	28.17	89.50	167.64	329.98	1,097.02	1,057.33	39.70	27.635		
8,000.00	7,945.97	7,957.81	7,945.97	30.88	28.52	89.50	167.64	329.98	1,097.02	1,056.83	40.19	27.298		
8,100.00	8,045.97	8,057.81	8,045.97	31.20	28.87	89.50	167.64	329.98	1,097.02	1,056.34	40.68	26.968		
8,200.00	8,145.97	8,157.81	8,145.97	31.52	29.22	89.50	167.64	329.98	1,097.02	1,055.85	41.17	26.646		
8,300.00	8,245.97	8,257.81	8,245.97	31.84	29.57	89.50	167.64	329.98	1,097.02	1,055.36	41.66	26.332		
8,400.00	8,345.97	8,357.81	8,345.97	32.17	29.92	89.50	167.64	329.98	1,097.02	1,054.87	42.15	26.025		
8,500.00	8,445.97	8,457.81	8,445.97	32.49	30.28	89.50	167.64	329.98	1,097.02	1,054.38	42.65	25.724		
8,600.00	8,545.97	8,557.81	8,545.97	32.82	30.63	89.50	167.64	329.98	1,097.02	1,053.88	43.14	25.430		
8,700.00	8,645.97	8,657.81	8,645.97	33.14	30.98	89.50	167.64	329.98	1,097.02	1,053.39	43.63	25.143		
8,800.00	8,745.97	8,757.81	8,745.97	33.47	31.33	89.50	167.64	329.98	1,097.02	1,052.90	44.12	24.862		
8,900.00	8,845.97	8,857.81	8,845.97	33.79	31.68	89.50	167.64	329.98	1,097.02	1,052.40	44.62	24.587		
9,000.00	8,945.97	8,957.81	8,945.97	34.12	32.04	89.50	167.64	329.98	1,097.02	1,051.91	45.11	24.318		
9,100.00	9,045.97	9,057.81	9,045.97	34.45	32.39	89.50	167.64	329.98	1,097.02	1,051.42	45.61	24.054		
9,200.00	9,145.97	9,157.81	9,145.97	34.78	32.74	89.50	167.64	329.98	1,097.02	1,050.92	46.10	23.796		
9,300.00	9,245.97	9,257.81	9,245.97	35.11	33.10	89.50	167.64	329.98	1,097.02	1,050.43	46.60	23.543		
9,400.00	9,345.97	9,357.81	9,345.97	35.44	33.45	89.50	167.64	329.98	1,097.02	1,049.93	47.09	23.296		
9,500.00	9,445.97	9,457.81	9,445.97	35.77	33.80	89.50	167.64	329.98	1,097.02	1,049.44	47.59	23.054		
9,600.00	9,545.97	9,557.81	9,545.97	36.10	34.16	89.50	167.64	329.98	1,097.02	1,048.94	48.08	22.816		
9,700.00	9,645.97	9,657.81	9,645.97	36.43	34.51	89.50	167.64	329.98	1,097.02	1,048.45	48.58	22.583		
9,800.00	9,745.97	9,757.81	9,745.97	36.76	34.86	89.50	167.64	329.98	1,097.02	1,047.95	49.07	22.355		

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - Blue Ribbon Fed Com 702H2 - OH - Plan #1		Offset Site Error: 0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
							+N/-S (usft)	+E/-W (usft)								
9,900.00	9,845.97	9,857.81	9,845.97	37.09	35.22	89.50	167.64	329.98	1,097.02	1,047.45	49.57	22.131				
10,000.00	9,945.97	9,957.81	9,945.97	37.42	35.57	89.50	167.64	329.98	1,097.02	1,046.96	50.07	21.912				
10,100.00	10,045.97	10,057.81	10,045.97	37.76	35.92	89.50	167.64	329.98	1,097.02	1,046.46	50.56	21.696				
10,200.00	10,145.97	10,157.81	10,145.97	38.09	36.28	89.50	167.64	329.98	1,097.02	1,045.96	51.06	21.485				
10,300.00	10,245.97	10,257.81	10,245.97	38.43	36.63	89.50	167.64	329.98	1,097.02	1,045.47	51.56	21.278				
10,400.00	10,345.97	10,357.81	10,345.97	38.76	36.99	89.50	167.64	329.98	1,097.02	1,044.97	52.05	21.075				
10,500.00	10,445.97	10,457.81	10,445.97	39.09	37.34	89.50	167.64	329.98	1,097.02	1,044.47	52.55	20.875				
10,600.00	10,545.97	10,557.81	10,545.97	39.43	37.69	89.50	167.64	329.98	1,097.02	1,043.97	53.05	20.680				
10,700.00	10,645.97	10,657.81	10,645.97	39.77	38.05	89.50	167.64	329.98	1,097.02	1,043.48	53.55	20.487				
10,800.00	10,745.97	10,757.81	10,745.97	40.10	38.40	89.50	167.64	329.98	1,097.02	1,042.98	54.04	20.299				
10,900.00	10,845.97	10,857.81	10,845.97	40.44	38.76	89.50	167.64	329.98	1,097.02	1,042.48	54.54	20.113				
11,000.00	10,945.97	10,957.81	10,945.97	40.78	39.11	89.50	167.64	329.98	1,097.02	1,041.98	55.04	19.931				
11,100.00	11,045.97	11,057.81	11,045.97	41.11	39.47	89.50	167.64	329.98	1,097.02	1,041.48	55.54	19.752				
11,200.00	11,145.97	11,157.81	11,145.97	41.45	39.82	89.50	167.64	329.98	1,097.02	1,040.98	56.04	19.577				
11,300.00	11,245.97	11,257.81	11,245.97	41.79	40.18	89.50	167.64	329.98	1,097.02	1,040.49	56.54	19.404				
11,400.00	11,345.97	11,357.81	11,345.97	42.13	40.53	89.50	167.64	329.98	1,097.02	1,039.99	57.04	19.234				
11,500.00	11,445.97	11,457.81	11,445.97	42.46	40.89	89.50	167.64	329.98	1,097.02	1,039.49	57.53	19.067				
11,503.19	11,449.16	11,460.99	11,449.16	42.48	40.90	89.50	167.64	329.98	1,097.02	1,039.47	57.55	19.062				
11,600.00	11,545.97	11,557.63	11,545.78	42.80	41.23	89.55	166.64	329.99	1,097.02	1,039.00	58.03	18.905				
11,685.03	11,631.00	11,640.72	11,628.07	43.09	41.49	90.12	155.76	330.11	1,097.12	1,038.70	58.41	18.782				
11,700.00	11,645.97	11,654.98	11,642.00	43.14	41.53	-89.23	152.70	330.14	1,097.16	1,038.68	58.48	18.762				
11,750.00	11,695.83	11,702.13	11,687.43	43.30	41.67	-88.72	140.12	330.28	1,097.37	1,038.69	58.68	18.700				
11,800.00	11,745.20	11,750.00	11,732.34	43.45	41.80	-88.20	123.58	330.46	1,097.67	1,038.79	58.88	18.643				
11,850.00	11,793.70	11,794.35	11,772.57	43.59	41.92	-87.73	104.96	330.66	1,098.05	1,039.00	59.05	18.594				
11,900.00	11,840.96	11,839.52	11,811.96	43.72	42.02	-87.27	82.85	330.90	1,098.50	1,039.28	59.22	18.548				
11,950.00	11,886.62	11,884.15	11,849.03	43.85	42.12	-86.82	58.04	331.17	1,099.01	1,039.62	59.38	18.507				
12,000.00	11,930.34	11,928.26	11,883.67	43.96	42.21	-86.40	30.74	331.47	1,099.56	1,040.02	59.53	18.470				
12,050.00	11,971.78	11,971.92	11,915.79	44.07	42.28	-86.00	1.19	331.79	1,100.13	1,040.46	59.67	18.436				
12,100.00	12,010.63	12,015.18	11,945.29	44.16	42.35	-85.63	-30.42	332.13	1,100.72	1,040.92	59.81	18.405				
12,150.00	12,046.59	12,058.06	11,972.12	44.24	42.42	-85.29	-63.87	332.49	1,101.31	1,041.38	59.93	18.375				
12,200.00	12,079.38	12,100.00	11,995.85	44.32	42.49	-84.98	-98.43	332.87	1,101.89	1,041.83	60.06	18.347				
12,250.00	12,108.76	12,142.92	12,017.46	44.39	42.58	-84.70	-135.50	333.27	1,102.44	1,042.25	60.18	18.318				
12,300.00	12,134.51	12,184.97	12,035.88	44.45	42.68	-84.46	-173.29	333.68	1,102.95	1,042.63	60.31	18.288				
12,350.00	12,156.42	12,226.81	12,051.42	44.51	42.78	-84.26	-212.13	334.10	1,103.41	1,042.97	60.44	18.256				
12,400.00	12,174.34	12,268.50	12,064.03	44.57	42.89	-84.09	-251.85	334.53	1,103.81	1,043.23	60.57	18.222				
12,450.00	12,188.12	12,310.06	12,073.70	44.64	43.00	-83.96	-292.26	334.97	1,104.14	1,043.43	60.72	18.186				
12,500.00	12,197.66	12,350.00	12,080.21	44.72	43.10	-83.88	-331.66	335.40	1,104.40	1,043.55	60.86	18.147				
12,550.00	12,202.89	12,392.95	12,084.13	44.81	43.22	-83.83	-374.41	335.87	1,104.59	1,043.57	61.02	18.103				
12,600.00	12,203.76	12,434.35	12,084.86	44.92	43.34	-83.82	-415.80	336.31	1,104.69	1,043.51	61.18	18.055				
12,605.03	12,203.61	12,438.52	12,084.77	44.93	43.35	-83.82	-419.96	336.36	1,104.70	1,043.50	61.20	18.050				
12,700.00	12,200.29	12,532.39	12,081.52	45.19	43.66	-83.82	-513.77	337.38	1,104.90	1,043.28	61.62	17.931				
12,800.00	12,196.80	12,632.39	12,078.03	45.53	44.03	-83.82	-613.70	338.46	1,105.11	1,042.97	62.14	17.785				
12,900.00	12,193.31	12,732.39	12,074.55	45.94	44.47	-83.82	-713.63	339.55	1,105.32	1,042.58	62.74	17.618				
13,000.00	12,189.82	12,832.39	12,071.06	46.41	44.96	-83.82	-813.57	340.63	1,105.53	1,042.11	63.42	17.432				
13,100.00	12,186.33	12,932.39	12,067.57	46.94	45.50	-83.83	-913.50	341.72	1,105.74	1,041.56	64.18	17.229				
13,200.00	12,182.84	13,032.38	12,064.09	47.52	46.10	-83.83	-1,013.43	342.80	1,105.95	1,040.94	65.01	17.012				
13,300.00	12,179.36	13,132.38	12,060.60	48.15	46.74	-83.83	-1,113.37	343.89	1,106.16	1,040.25	65.91	16.782				
13,400.00	12,175.87	13,232.38	12,057.11	48.84	47.44	-83.83	-1,213.30	344.97	1,106.37	1,039.49	66.88	16.542				
13,500.00	12,172.38	13,332.38	12,053.63	49.56	48.18	-83.83	-1,313.23	346.06	1,106.59	1,038.67	67.92	16.293				
13,600.00	12,168.89	13,432.38	12,050.14	50.33	48.96	-83.83	-1,413.17	347.14	1,106.80	1,037.78	69.02	16.036				
13,700.00	12,165.40	13,532.38	12,046.65	51.15	49.79	-83.83	-1,513.10	348.23	1,107.01	1,036.83	70.18	15.774				
13,800.00	12,161.91	13,632.38	12,043.17	52.00	50.66	-83.84	-1,613.03	349.31	1,107.22	1,035.83	71.39	15.509				

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	12,158.42	13,732.38	12,039.68	52.89	51.56	-83.84	-1,712.96	350.40	1,107.43	1,034.77	72.66	15.241		
14,000.00	12,154.93	13,832.38	12,036.19	53.82	52.50	-83.84	-1,812.90	351.48	1,107.64	1,033.66	73.98	14.971		
14,100.00	12,151.44	13,932.38	12,032.70	54.78	53.48	-83.84	-1,912.83	352.57	1,107.85	1,032.50	75.35	14.702		
14,200.00	12,147.95	14,032.38	12,029.22	55.77	54.49	-83.84	-2,012.76	353.65	1,108.07	1,031.30	76.77	14.434		
14,300.00	12,144.46	14,132.38	12,025.73	56.79	55.52	-83.84	-2,112.70	354.74	1,108.28	1,030.05	78.23	14.168		
14,400.00	12,140.97	14,232.38	12,022.24	57.84	56.59	-83.84	-2,212.63	355.82	1,108.49	1,028.76	79.73	13.904		
14,500.00	12,137.48	14,332.38	12,018.76	58.92	57.69	-83.84	-2,312.56	356.91	1,108.70	1,027.44	81.26	13.643		
14,600.00	12,133.99	14,432.38	12,015.27	60.03	58.81	-83.85	-2,412.50	357.99	1,108.91	1,026.07	82.84	13.386		
14,700.00	12,130.50	14,532.38	12,011.78	61.16	59.95	-83.85	-2,512.43	359.08	1,109.12	1,024.67	84.45	13.134		
14,800.00	12,127.01	14,632.38	12,008.30	62.31	61.12	-83.85	-2,612.36	360.16	1,109.33	1,023.24	86.09	12.886		
14,900.00	12,123.52	14,732.38	12,004.81	63.48	62.31	-83.85	-2,712.30	361.25	1,109.55	1,021.78	87.76	12.643		
15,000.00	12,120.03	14,832.38	12,001.32	64.68	63.52	-83.85	-2,812.23	362.33	1,109.76	1,020.29	89.46	12.405		
15,100.00	12,116.54	14,932.38	11,997.84	65.89	64.75	-83.85	-2,912.16	363.42	1,109.97	1,018.78	91.19	12.172		
15,200.00	12,113.05	15,032.38	11,994.35	67.13	66.00	-83.85	-3,012.09	364.50	1,110.18	1,017.23	92.95	11.944		
15,300.00	12,109.56	15,132.38	11,990.86	68.38	67.27	-83.86	-3,112.03	365.59	1,110.39	1,015.66	94.73	11.722		
15,400.00	12,106.07	15,232.38	11,987.37	69.65	68.55	-83.86	-3,211.96	366.67	1,110.60	1,014.07	96.53	11.505		
15,500.00	12,102.58	15,332.38	11,983.89	70.93	69.85	-83.86	-3,311.89	367.76	1,110.81	1,012.46	98.35	11.294		
15,600.00	12,099.09	15,432.38	11,980.40	72.23	71.16	-83.86	-3,411.83	368.84	1,111.02	1,010.83	100.20	11.088		
15,700.00	12,095.60	15,532.38	11,976.91	73.54	72.49	-83.86	-3,511.76	369.93	1,111.24	1,009.17	102.06	10.888		
15,800.00	12,092.11	15,632.38	11,973.43	74.86	73.83	-83.86	-3,611.69	371.01	1,111.45	1,007.50	103.94	10.693		
15,900.00	12,088.62	15,732.38	11,969.94	76.20	75.18	-83.86	-3,711.63	372.10	1,111.66	1,005.82	105.84	10.503		
16,000.00	12,085.13	15,832.38	11,966.45	77.55	76.54	-83.86	-3,811.56	373.18	1,111.87	1,004.11	107.76	10.318		
16,100.00	12,081.64	15,932.38	11,962.97	78.91	77.92	-83.87	-3,911.49	374.27	1,112.08	1,002.39	109.69	10.138		
16,200.00	12,078.15	16,032.38	11,959.48	80.28	79.30	-83.87	-4,011.43	375.35	1,112.29	1,000.65	111.64	9.963		
16,300.00	12,074.66	16,132.38	11,955.99	81.67	80.70	-83.87	-4,111.36	376.44	1,112.50	998.91	113.60	9.793		
16,400.00	12,071.17	16,232.38	11,952.51	83.06	82.10	-83.87	-4,211.29	377.52	1,112.72	997.14	115.57	9.628		
16,500.00	12,067.68	16,332.38	11,949.02	84.46	83.52	-83.87	-4,311.22	378.61	1,112.93	995.37	117.56	9.467		
16,600.00	12,064.19	16,432.38	11,945.53	85.87	84.94	-83.87	-4,411.16	379.69	1,113.14	993.58	119.56	9.310		
16,700.00	12,060.70	16,532.38	11,942.04	87.29	86.37	-83.87	-4,511.09	380.78	1,113.35	991.78	121.57	9.158		
16,800.00	12,057.21	16,632.38	11,938.56	88.72	87.81	-83.88	-4,611.02	381.86	1,113.56	989.97	123.59	9.010		
16,900.00	12,053.72	16,732.38	11,935.07	90.15	89.25	-83.88	-4,710.96	382.95	1,113.77	988.15	125.62	8.866		
17,000.00	12,050.23	16,832.38	11,931.58	91.59	90.70	-83.88	-4,810.89	384.03	1,113.98	986.32	127.66	8.726		
17,100.00	12,046.74	16,932.38	11,928.10	93.04	92.16	-83.88	-4,910.82	385.12	1,114.19	984.48	129.72	8.590		
17,200.00	12,043.25	17,032.38	11,924.61	94.49	93.63	-83.88	-5,010.76	386.20	1,114.41	982.63	131.78	8.457		
17,279.03	12,040.49	17,111.41	11,921.85	95.65	94.79	-83.88	-5,089.74	387.06	1,114.57	981.16	133.41	8.355		
17,300.00	12,039.76	17,132.38	11,921.12	95.96	95.10	-83.88	-5,110.69	387.29	1,114.62	980.78	133.84	8.328		
17,400.00	12,036.27	17,232.37	11,917.64	97.42	96.58	-83.88	-5,210.62	388.37	1,114.96	979.04	135.92	8.203		
17,500.00	12,032.78	17,332.37	11,914.15	98.90	98.06	-83.88	-5,310.55	389.46	1,115.46	977.46	138.01	8.083		
17,600.00	12,029.29	17,432.37	11,910.66	100.37	99.55	-83.88	-5,410.49	390.54	1,116.15	976.05	140.10	7.967		
17,700.00	12,025.80	17,532.37	11,907.18	101.86	101.04	-83.88	-5,510.41	391.63	1,117.00	974.80	142.20	7.855		
17,800.00	12,022.31	17,632.36	11,903.69	103.35	102.54	-83.88	-5,610.34	392.71	1,118.03	973.73	144.30	7.748		
17,900.00	12,018.82	17,732.35	11,900.20	104.84	104.04	-83.89	-5,710.27	393.80	1,119.23	972.82	146.41	7.644		
18,000.00	12,015.33	17,832.35	11,896.72	106.34	105.55	-83.89	-5,810.19	394.88	1,120.61	972.07	148.53	7.545		
18,100.00	12,011.84	17,932.33	11,893.23	107.84	107.06	-83.90	-5,910.11	395.97	1,122.16	971.50	150.66	7.448		
18,200.00	12,008.35	18,032.32	11,889.74	109.34	108.57	-83.90	-6,010.03	397.05	1,123.88	971.09	152.79	7.356		
18,300.00	12,004.86	18,132.30	11,886.26	110.85	110.09	-83.91	-6,109.95	398.14	1,125.78	970.85	154.92	7.267		
18,400.00	12,001.36	18,232.28	11,882.77	112.37	111.61	-83.92	-6,209.86	399.22	1,127.85	970.78	157.06	7.181		
18,500.00	11,997.87	18,332.25	11,879.28	113.88	113.14	-83.92	-6,309.77	400.31	1,130.09	970.88	159.21	7.098		
18,600.00	11,994.38	18,432.22	11,875.80	115.40	114.67	-83.93	-6,409.67	401.39	1,132.51	971.15	161.36	7.019		
18,700.00	11,990.89	18,532.19	11,872.31	116.93	116.20	-83.94	-6,509.57	402.48	1,135.10	971.58	163.51	6.942		
18,800.00	11,987.40	18,632.15	11,868.83	118.45	117.74	-83.95	-6,609.46	403.56	1,137.86	972.19	165.67	6.868		
18,900.00	11,983.91	18,732.11	11,865.34	119.98	119.28	-83.97	-6,709.35	404.65	1,140.80	972.96	167.84	6.797		

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,000.00	11,980.42	18,832.06	11,861.86	121.51	120.82	-83.98	-6,809.24	405.73	1,143.91	973.91	170.00	6.729		
19,100.00	11,976.94	18,932.00	11,858.37	123.05	122.36	-83.99	-6,909.12	406.81	1,147.19	975.02	172.17	6.663		
19,197.68	11,973.53	19,029.63	11,854.97	124.55	123.87	-84.01	-7,006.68	407.87	1,150.57	976.27	174.30	6.601		
19,200.00	11,973.45	19,031.94	11,854.89	124.58	123.91	-84.01	-7,008.99	407.90	1,150.65	976.30	174.35	6.600		
19,300.00	11,969.96	19,131.88	11,851.40	126.12	125.46	-84.03	-7,108.86	408.98	1,154.19	977.67	176.53	6.538		
19,400.00	11,966.47	19,231.82	11,847.92	127.67	127.01	-84.04	-7,208.73	410.07	1,157.74	979.02	178.71	6.478		
19,500.00	11,962.98	19,331.75	11,844.43	129.21	128.57	-84.06	-7,308.60	411.15	1,161.28	980.38	180.90	6.420		
19,600.00	11,959.49	19,431.69	11,840.95	130.76	130.12	-84.08	-7,408.47	412.24	1,164.82	981.73	183.09	6.362		
19,700.00	11,956.00	19,531.63	11,837.46	132.31	131.68	-84.10	-7,508.34	413.32	1,168.36	983.08	185.28	6.306		
19,800.00	11,952.51	19,631.56	11,833.98	133.86	133.24	-84.12	-7,608.21	414.40	1,171.90	984.43	187.48	6.251		
19,900.00	11,949.02	19,731.50	11,830.49	135.41	134.81	-84.13	-7,708.08	415.49	1,175.45	985.77	189.68	6.197		
20,000.00	11,945.53	19,831.44	11,827.01	136.97	136.37	-84.15	-7,807.95	416.57	1,178.99	987.11	191.88	6.144		
20,100.00	11,942.04	19,931.37	11,823.52	138.53	137.94	-84.17	-7,907.82	417.66	1,182.53	988.45	194.08	6.093		
20,200.00	11,938.55	20,031.31	11,820.04	140.09	139.51	-84.19	-8,007.69	418.74	1,186.07	989.78	196.29	6.042		
20,300.00	11,935.06	20,131.25	11,816.55	141.65	141.08	-84.20	-8,107.56	419.83	1,189.62	991.11	198.50	5.993		
20,400.00	11,931.57	20,231.18	11,813.07	143.21	142.65	-84.22	-8,207.43	420.91	1,193.16	992.44	200.71	5.945		
20,500.00	11,928.08	20,331.12	11,809.58	144.78	144.23	-84.24	-8,307.30	421.99	1,196.70	993.77	202.93	5.897		
20,600.00	11,924.59	20,431.06	11,806.10	146.35	145.80	-84.26	-8,407.17	423.08	1,200.24	995.10	205.15	5.851		
20,700.00	11,921.10	20,530.99	11,802.62	147.91	147.38	-84.27	-8,507.04	424.16	1,203.79	996.42	207.37	5.805		
20,800.00	11,917.61	20,630.93	11,799.13	149.48	148.96	-84.29	-8,606.91	425.25	1,207.33	997.74	209.59	5.760		
20,900.00	11,914.12	20,730.86	11,795.65	151.06	150.54	-84.31	-8,706.78	426.33	1,210.87	999.06	211.81	5.717		
21,000.00	11,910.63	20,830.80	11,792.16	152.63	152.12	-84.32	-8,806.65	427.42	1,214.42	1,000.37	214.04	5.674		
21,100.00	11,907.14	20,930.74	11,788.68	154.20	153.71	-84.34	-8,906.52	428.50	1,217.96	1,001.69	216.27	5.632		
21,200.00	11,903.65	21,030.67	11,785.19	155.78	155.29	-84.36	-9,006.39	429.59	1,221.50	1,003.00	218.50	5.590		
21,300.00	11,900.16	21,130.61	11,781.71	157.36	156.88	-84.37	-9,106.26	430.67	1,225.05	1,004.31	220.73	5.550		
21,400.00	11,896.68	21,230.55	11,778.22	158.94	158.47	-84.39	-9,206.13	431.75	1,228.59	1,005.62	222.97	5.510		
21,500.00	11,893.19	21,330.48	11,774.74	160.52	160.05	-84.41	-9,306.00	432.84	1,232.13	1,006.93	225.20	5.471		
21,600.00	11,889.70	21,430.42	11,771.25	162.10	161.64	-84.42	-9,405.87	433.92	1,235.68	1,008.24	227.44	5.433		
21,700.00	11,886.21	21,530.36	11,767.77	163.68	163.24	-84.44	-9,505.74	435.01	1,239.22	1,009.54	229.68	5.395		
21,800.00	11,882.72	21,630.29	11,764.28	165.27	164.83	-84.45	-9,605.61	436.09	1,242.77	1,010.84	231.92	5.359		
21,900.00	11,879.23	21,730.23	11,760.80	166.85	166.42	-84.47	-9,705.48	437.18	1,246.31	1,012.14	234.17	5.322		
22,000.00	11,875.74	21,830.17	11,757.31	168.44	168.02	-84.49	-9,805.35	438.26	1,249.85	1,013.44	236.41	5.287		
22,100.00	11,872.25	21,930.10	11,753.83	170.02	169.61	-84.50	-9,905.22	439.34	1,253.40	1,014.74	238.66	5.252		
22,200.00	11,868.76	22,030.04	11,750.34	171.61	171.21	-84.52	-10,005.09	440.43	1,256.94	1,016.04	240.90	5.218		
22,300.00	11,865.27	22,129.98	11,746.86	173.20	172.81	-84.53	-10,104.96	441.51	1,260.49	1,017.33	243.15	5.184		
22,400.00	11,861.78	22,229.91	11,743.37	174.79	174.41	-84.55	-10,204.83	442.60	1,264.03	1,018.63	245.40	5.151		
22,410.02	11,861.43	22,239.93	11,743.03	174.94	174.57	-84.55	-10,214.83	442.71	1,264.39	1,018.78	245.61	5.148 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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - County Fair Fed Com 602H - OH - OH		Offset Site Error:	0.00 usft
Survey Program:													107-OWSG (Rev2) MWD, 1422-OWSG (Rev2) MWD, 22063-BLIND		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	134.48	-34.67	35.31	49.49							
100.00	100.00	99.95	99.95	0.13	0.13	134.41	-34.52	35.24	49.33	49.15	0.18	274.027				
200.00	200.00	200.32	200.32	0.48	0.47	135.01	-34.55	34.54	48.86	48.18	0.67	72.489				
300.00	300.00	300.52	300.50	0.84	0.83	135.77	-34.00	33.10	47.45	46.27	1.18	40.173				
400.00	400.00	400.54	400.51	1.20	1.19	136.59	-33.52	31.71	46.15	44.46	1.69	27.337				
500.00	500.00	500.72	500.67	1.56	1.55	137.59	-32.87	30.03	44.53	42.34	2.20	20.282				
600.00	600.00	600.48	600.41	1.92	1.90	138.83	-32.19	28.14	42.76	40.06	2.70	15.825				
700.00	700.00	700.48	700.39	2.28	2.26	140.56	-31.55	25.95	40.86	37.65	3.21	12.731				
800.00	800.00	800.68	800.57	2.63	2.62	142.06	-30.93	24.11	39.23	35.51	3.72	10.553				
900.00	900.00	900.39	900.26	2.99	2.98	144.00	-30.50	22.16	37.71	33.48	4.22	8.926				
1,000.00	1,000.00	1,000.28	1,000.13	3.35	3.34	146.44	-30.40	20.17	36.49	31.75	4.73	7.712				
1,100.00	1,100.00	1,100.26	1,100.10	3.71	3.70	148.56	-30.23	18.48	35.43	30.20	5.24	6.764				
1,200.00	1,200.00	1,200.20	1,200.02	4.07	4.06	150.67	-30.46	17.11	34.94	29.19	5.75	6.081				
1,300.00	1,300.00	1,300.04	1,299.85	4.43	4.33	153.03	-30.72	15.63	34.47	28.28	6.19	5.570				
1,324.57	1,324.57	1,324.56	1,324.37	4.52	4.37	153.62	-30.87	15.31	34.46	28.17	6.28	5.483 CC				
1,400.00	1,400.00	1,399.85	1,399.65	4.79	4.51	155.33	-31.46	14.45	34.62	28.05	6.58	5.265 ES				
1,500.00	1,499.99	1,499.85	1,499.65	5.14	4.58	-114.66	-32.39	13.57	35.65	28.77	6.88	5.180				
1,600.00	1,599.91	1,599.86	1,599.65	5.48	4.64	-118.64	-33.06	12.85	37.68	30.50	7.18	5.248				
1,700.00	1,699.69	1,699.62	1,699.40	5.83	4.73	-125.50	-33.61	12.27	41.32	33.82	7.50	5.509				
1,800.00	1,799.27	1,799.16	1,798.94	6.18	4.84	-133.67	-34.20	11.92	47.42	39.58	7.84	6.047				
1,900.00	1,898.57	1,898.47	1,898.25	6.54	4.97	-141.69	-34.77	11.72	56.40	48.19	8.20	6.876				
1,940.67	1,938.86	1,938.76	1,938.54	6.69	5.03	-144.70	-34.96	11.69	60.92	52.57	8.35	7.293				
2,000.00	1,997.60	1,997.49	1,997.27	6.91	5.13	-148.61	-35.18	11.69	68.06	59.48	8.57	7.938				
2,100.00	2,096.60	2,096.58	2,096.36	7.28	5.30	-153.69	-35.41	11.66	80.54	71.58	8.96	8.991				
2,200.00	2,195.60	2,195.31	2,195.09	7.66	5.48	-157.43	-35.61	11.80	93.63	84.28	9.35	10.013				
2,300.00	2,294.60	2,294.15	2,293.93	8.05	5.68	-160.44	-35.54	12.22	107.18	97.43	9.75	10.994				
2,400.00	2,393.60	2,392.94	2,392.72	8.44	5.88	-162.95	-35.16	12.90	121.12	110.96	10.15	11.927				
2,500.00	2,492.60	2,491.97	2,491.74	8.83	6.10	-165.07	-34.48	13.63	135.21	124.64	10.57	12.792				
2,600.00	2,591.60	2,590.88	2,590.64	9.22	6.33	-166.89	-33.54	14.34	149.38	138.38	10.99	13.590				
2,700.00	2,690.60	2,689.76	2,689.52	9.62	6.57	-168.46	-32.41	15.15	163.72	152.30	11.42	14.336				
2,800.00	2,789.60	2,789.12	2,788.86	10.02	6.82	-169.97	-30.70	15.93	178.03	166.17	11.86	15.015				
2,900.00	2,888.60	2,889.09	2,888.80	10.42	7.08	-171.41	-28.41	16.39	192.04	179.74	12.30	15.612				
2,940.67	2,928.86	2,929.92	2,929.62	10.59	7.19	-171.93	-27.48	16.39	197.58	185.10	12.48	15.827				
3,000.00	2,987.61	2,988.61	2,988.29	10.82	7.35	-178.89	-26.09	16.30	205.61	192.86	12.75	16.127				
3,084.09	3,070.87	3,071.38	3,071.03	11.16	7.57	171.66	-23.93	16.29	217.07	203.95	13.13	16.536				
3,100.00	3,086.62	3,086.97	3,086.62	11.23	7.62	171.63	-23.51	16.32	219.27	206.07	13.20	16.613				
3,200.00	3,185.62	3,185.33	3,184.93	11.63	7.90	171.40	-20.60	16.76	233.31	219.66	13.65	17.089				
3,300.00	3,284.62	3,283.96	3,283.50	12.04	8.18	171.06	-17.10	17.46	247.54	233.43	14.11	17.543				
3,400.00	3,383.62	3,389.49	3,388.99	12.45	8.49	171.06	-14.73	17.11	260.92	246.32	14.60	17.874				
3,500.00	3,482.62	3,482.38	3,481.86	12.85	8.77	171.45	-14.43	15.92	273.58	258.54	15.04	18.188				
3,600.00	3,581.62	3,575.39	3,574.86	13.26	9.05	171.67	-13.72	17.25	288.84	273.35	15.48	18.656				
3,700.00	3,680.63	3,669.51	3,668.93	13.67	9.33	172.08	-14.29	20.07	305.81	289.88	15.93	19.201				
3,800.00	3,779.63	3,775.05	3,774.42	14.08	9.66	172.40	-14.46	23.19	322.72	306.29	16.44	19.635				
3,900.00	3,878.63	3,876.16	3,875.53	14.49	9.97	172.53	-13.45	24.50	337.84	320.92	16.92	19.964				
4,000.00	3,977.63	3,974.31	3,973.66	14.91	10.28	172.65	-12.52	25.59	352.78	335.39	17.40	20.279				
4,100.00	4,076.63	4,073.58	4,072.92	15.32	10.60	172.80	-11.89	26.71	367.79	349.91	17.88	20.571				
4,200.00	4,175.63	4,173.76	4,173.10	15.73	10.92	172.97	-11.35	27.56	382.54	364.17	18.37	20.829				
4,300.00	4,274.63	4,273.06	4,272.39	16.15	11.24	173.15	-10.93	28.18	397.09	378.24	18.85	21.065				
4,400.00	4,373.63	4,374.75	4,374.08	16.56	11.57	173.31	-10.44	28.67	411.49	392.15	19.35	21.269				
4,500.00	4,472.63	4,484.09	4,483.39	16.97	11.92	173.31	-8.44	27.42	424.10	404.23	19.87	21.344				
4,600.00	4,571.63	4,593.17	4,592.31	17.39	12.28	172.98	-3.57	24.07	434.44	414.05	20.38	21.313				
4,700.00	4,670.63	4,699.45	4,698.13	17.80	12.63	172.23	4.84	19.19	442.80	421.91	20.89	21.198				

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
County Fair/Blue Ribbon - County Fair Fed Com 602H - OH - OH													Offset Well Error:	0.00 usft
Survey Program: 107-OWSG (Rev2) MWD, 1422-OWSG (Rev2) MWD, 22063-BLIND														
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	4,769.64	4,800.77	4,798.86	18.22	12.97	171.35	14.42	13.79	450.30	428.91	21.38	21.057		
4,900.00	4,868.64	4,900.19	4,897.75	18.64	13.31	170.62	23.03	8.27	457.78	435.90	21.88	20.923		
5,000.00	4,967.64	5,000.23	4,997.31	19.05	13.65	169.98	31.16	2.65	465.31	442.94	22.38	20.794		
5,100.00	5,066.64	5,098.24	5,094.86	19.47	13.98	169.40	38.84	-2.79	472.99	450.11	22.87	20.680		
5,200.00	5,165.64	5,195.21	5,191.44	19.89	14.32	168.91	45.91	-7.78	481.16	457.80	23.37	20.593		
5,300.00	5,264.64	5,293.87	5,289.78	20.30	14.66	168.52	52.33	-12.54	489.74	465.87	23.86	20.523		
5,400.00	5,363.64	5,391.69	5,387.31	20.72	15.00	168.18	58.33	-17.03	498.60	474.24	24.36	20.468		
5,500.00	5,462.64	5,491.84	5,487.19	21.14	15.34	167.87	64.18	-21.48	507.64	482.78	24.86	20.417		
5,600.00	5,561.64	5,591.13	5,586.23	21.56	15.69	167.62	69.63	-25.98	516.63	491.27	25.37	20.368		
5,700.00	5,660.64	5,691.59	5,686.43	21.98	16.04	167.37	75.21	-30.59	525.56	499.69	25.87	20.314		
5,800.00	5,759.64	5,791.49	5,786.03	22.39	16.39	167.09	81.16	-35.33	534.34	507.96	26.38	20.257		
5,900.00	5,858.65	5,889.28	5,883.42	22.81	16.73	166.62	88.89	-39.69	543.33	516.45	26.88	20.212		
6,000.00	5,957.65	5,987.60	5,981.22	23.23	17.09	166.00	98.20	-43.79	552.61	525.21	27.39	20.174		
6,100.00	6,056.65	6,085.16	6,078.26	23.65	17.44	165.41	107.37	-47.61	562.19	534.29	27.90	20.150		
6,200.00	6,155.65	6,183.69	6,176.33	24.07	17.79	164.86	116.30	-51.14	572.18	543.77	28.41	20.139		
6,300.00	6,254.65	6,283.77	6,275.89	24.49	18.15	164.29	125.75	-54.86	582.08	553.14	28.93	20.119		
6,400.00	6,353.65	6,377.92	6,369.59	24.91	18.49	163.80	134.39	-58.14	592.27	562.84	29.43	20.125		
6,500.00	6,452.65	6,479.05	6,470.41	25.33	18.86	163.47	141.78	-60.60	603.52	573.57	29.95	20.150		
6,600.00	6,551.65	6,588.51	6,579.55	25.75	19.25	163.20	148.96	-65.10	613.07	582.57	30.50	20.100		
6,700.00	6,650.65	6,689.23	6,679.91	26.17	19.61	162.94	155.73	-70.07	621.83	590.81	31.02	20.046		
6,800.00	6,749.65	6,787.91	6,778.25	26.59	19.97	162.69	162.45	-74.88	630.68	599.15	31.53	20.000		
6,900.00	6,848.65	6,882.59	6,872.64	27.01	20.31	162.49	168.50	-79.09	639.95	607.91	32.03	19.977		
6,988.64	6,936.41	6,967.68	6,957.58	27.38	20.61	162.46	172.33	-82.21	648.79	616.31	32.47	19.979		
7,000.00	6,947.66	6,978.65	6,968.54	27.43	20.65	162.48	172.64	-82.58	649.93	617.40	32.53	19.979		
7,100.00	7,046.87	7,079.29	7,069.10	27.84	21.00	162.68	174.42	-85.94	658.62	625.58	33.04	19.937		
7,200.00	7,146.37	7,177.46	7,167.21	28.23	21.34	162.86	175.47	-89.23	664.78	631.25	33.53	19.829		
7,300.00	7,246.11	7,276.57	7,266.28	28.60	21.68	162.98	176.28	-92.33	668.66	634.64	34.02	19.657		
7,400.00	7,345.99	7,380.96	7,350.65	28.95	21.97	163.05	176.69	-93.94	671.25	636.81	34.44	19.491		
7,500.00	7,445.97	7,453.64	7,443.32	29.29	22.28	163.10	176.78	-94.03	673.13	638.24	34.89	19.294		
7,529.03	7,475.00	7,481.91	7,471.59	29.38	22.37	88.41	176.72	-93.90	673.36	638.34	35.02	19.227		
7,600.00	7,545.97	7,553.10	7,542.78	29.61	22.60	88.43	176.46	-93.57	673.69	638.33	35.36	19.054		
7,700.00	7,645.97	7,654.17	7,643.85	29.92	22.93	88.48	175.88	-93.18	674.06	638.23	35.83	18.812		
7,800.00	7,745.97	7,752.78	7,742.46	30.24	23.25	88.56	175.00	-92.78	674.44	638.15	36.29	18.583		
7,900.00	7,845.97	7,849.41	7,839.08	30.56	23.57	88.66	173.76	-92.03	675.19	638.45	36.74	18.375		
8,000.00	7,945.97	7,950.31	7,939.97	30.88	23.90	88.73	172.97	-90.94	676.26	639.03	37.22	18.168		
8,100.00	8,045.97	8,063.79	8,053.44	31.20	24.29	88.66	173.81	-91.32	675.91	638.14	37.77	17.895		
8,200.00	8,145.97	8,165.01	8,154.64	31.52	24.64	88.56	174.94	-92.73	674.54	636.28	38.26	17.630		
8,300.00	8,245.97	8,261.48	8,251.11	31.84	24.97	88.50	175.59	-93.77	673.48	634.76	38.73	17.390		
8,400.00	8,345.97	8,358.77	8,348.39	32.17	25.30	88.49	175.74	-94.31	672.93	633.73	39.20	17.168		
8,500.00	8,445.97	8,458.42	8,448.04	32.49	25.64	88.53	175.27	-94.61	672.61	632.94	39.67	16.954		
8,600.00	8,545.97	8,559.31	8,548.92	32.82	25.97	88.63	174.08	-94.99	672.21	632.06	40.15	16.742		
8,684.43	8,630.40	8,640.59	8,630.20	33.09	26.24	88.72	172.97	-95.26	671.91	631.37	40.54	16.575		
8,700.00	8,645.97	8,655.04	8,644.65	33.14	26.29	88.73	172.89	-95.25	671.92	631.31	40.61	16.547		
8,800.00	8,745.97	8,754.40	8,744.00	33.47	26.63	88.70	173.28	-94.85	672.32	631.24	41.09	16.364		
8,900.00	8,845.97	8,859.46	8,849.06	33.79	26.99	88.63	174.11	-94.96	672.24	630.65	41.60	16.161		
9,000.00	8,945.97	8,965.03	8,954.62	34.12	27.35	88.62	174.22	-95.92	671.34	629.23	42.11	15.943		
9,100.00	9,045.97	9,070.20	9,059.77	34.45	27.71	88.68	173.46	-97.69	669.63	627.02	42.61	15.715		
9,200.00	9,145.97	9,167.69	9,157.24	34.78	28.04	88.76	172.46	-99.54	667.71	624.63	43.08	15.499		
9,300.00	9,245.97	9,257.00	9,246.55	35.11	28.35	88.78	172.21	-100.53	666.63	623.11	43.52	15.319		
9,331.41	9,277.37	9,287.63	9,277.17	35.21	28.45	88.77	172.28	-100.60	666.55	622.88	43.67	15.265		
9,400.00	9,345.97	9,351.00	9,340.54	35.44	28.67	88.75	172.60	-100.28	666.90	622.93	43.97	15.166		
9,500.00	9,445.97	9,446.00	9,435.53	35.77	28.99	88.70	173.16	-99.09	668.16	623.73	44.43	15.038		

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - County Fair Fed Com 602H - OH - OH		Offset Site Error:	0.00 usft
Survey Program:													107-OWSG (Rev2) MWD, 1422-OWSG (Rev2) MWD, 22063-BLIND		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
9,600.00	9,545.97	9,543.90	9,533.42	36.10	29.33	88.64	173.94	-97.47	669.83	624.93	44.90	14.917				
9,700.00	9,645.97	9,642.46	9,631.94	36.43	29.67	88.50	175.57	-95.56	671.81	626.43	45.38	14.803				
9,800.00	9,745.97	9,748.64	9,738.10	36.76	30.03	88.38	177.07	-93.84	673.48	627.57	45.91	14.670				
9,900.00	9,845.97	9,856.53	9,845.98	37.09	30.39	88.44	176.31	-93.38	673.87	627.44	46.43	14.513				
10,000.00	9,945.97	9,961.48	9,950.89	37.42	30.74	88.69	173.37	-93.56	673.63	626.70	46.93	14.354				
10,100.00	10,045.97	10,064.79	10,054.10	37.76	31.09	89.05	169.18	-94.74	672.40	624.98	47.42	14.179				
10,200.00	10,145.97	10,162.19	10,151.47	38.09	31.41	89.25	166.80	-95.73	671.35	623.46	47.89	14.018				
10,300.00	10,245.97	10,259.76	10,249.04	38.43	31.75	89.28	166.45	-96.37	670.69	622.33	48.37	13.867				
10,400.00	10,345.97	10,359.21	10,348.49	38.76	32.09	89.34	165.71	-96.76	670.29	621.44	48.85	13.721				
10,488.18	10,434.15	10,444.68	10,433.95	39.05	32.38	89.33	165.78	-97.00	670.05	620.78	49.27	13.600				
10,500.00	10,445.97	10,455.94	10,445.21	39.09	32.42	89.34	165.76	-97.00	670.05	620.73	49.32	13.585				
10,600.00	10,545.97	10,555.95	10,545.22	39.43	32.75	89.38	165.23	-96.81	670.23	620.43	49.81	13.457				
10,700.00	10,645.97	10,668.80	10,658.05	39.77	33.14	89.52	163.61	-97.61	669.52	619.18	50.35	13.298				
10,800.00	10,745.97	10,794.19	10,783.34	40.10	33.57	89.60	162.70	-102.23	665.85	614.94	50.91	13.079				
10,900.00	10,845.97	10,904.28	10,893.15	40.44	33.96	89.46	164.16	-110.00	658.73	607.31	51.42	12.811				
11,000.00	10,945.97	10,997.61	10,986.26	40.78	34.29	89.32	165.71	-116.18	652.12	600.22	51.90	12.564				
11,100.00	11,045.97	11,098.94	11,087.35	41.11	34.65	89.05	168.71	-122.41	646.02	593.62	52.40	12.328				
11,200.00	11,145.97	11,197.11	11,185.30	41.45	35.00	88.97	169.42	-128.91	639.42	586.52	52.89	12.089				
11,300.00	11,245.97	11,289.41	11,277.42	41.79	35.32	89.16	167.28	-134.02	633.84	580.48	53.36	11.878				
11,400.00	11,345.97	11,372.86	11,360.24	42.13	35.59	89.98	158.25	-137.33	629.84	576.06	53.78	11.711				
11,442.68	11,388.65	11,401.85	11,388.45	42.27	35.68	90.58	151.61	-137.70	629.33	575.41	53.92	11.672				
11,500.00	11,445.97	11,441.38	11,426.17	42.46	35.79	91.65	139.83	-137.29	630.28	576.22	54.06	11.658				
11,600.00	11,545.97	11,532.71	11,509.93	42.80	36.04	94.92	103.63	-135.41	634.94	580.55	54.39	11.674				
11,685.03	11,631.00	11,593.67	11,563.29	43.09	36.19	97.55	74.19	-134.50	641.59	587.10	54.49	11.775				
11,700.00	11,645.97	11,603.01	11,571.29	43.14	36.21	-81.38	69.39	-134.26	643.21	588.73	54.48	11.807				
11,750.00	11,695.83	11,632.73	11,596.46	43.30	36.28	-79.55	53.62	-133.19	649.34	594.93	54.41	11.934				
11,800.00	11,745.20	11,662.00	11,620.85	43.45	36.35	-77.82	37.52	-131.56	656.46	602.17	54.30	12.091				
11,850.00	11,793.70	11,702.63	11,654.38	43.59	36.45	-75.94	14.75	-128.71	663.94	609.64	54.31	12.226				
11,900.00	11,840.96	11,746.64	11,690.50	43.72	36.57	-74.32	-10.17	-125.37	671.04	616.67	54.37	12.342				
11,950.00	11,886.62	11,787.16	11,723.03	43.85	36.68	-73.05	-34.12	-122.32	677.53	623.14	54.39	12.458				
12,000.00	11,930.34	11,826.49	11,753.03	43.96	36.80	-71.92	-59.40	-119.60	683.54	629.16	54.38	12.570				
12,050.00	11,971.78	11,872.18	11,785.45	44.07	36.93	-70.81	-91.46	-117.05	688.92	634.47	54.45	12.653				
12,100.00	12,010.63	11,923.60	11,819.72	44.16	37.08	-69.83	-129.76	-115.49	692.76	638.17	54.59	12.689				
12,150.00	12,046.59	11,961.34	11,843.36	44.24	37.20	-69.20	-159.17	-114.89	695.46	640.89	54.57	12.744				
12,200.00	12,079.38	11,992.00	11,861.36	44.32	37.29	-68.79	-183.98	-114.08	697.92	643.45	54.47	12.814				
12,250.00	12,108.76	12,018.96	11,875.99	44.39	37.38	-68.48	-206.59	-113.06	700.32	645.99	54.34	12.888				
12,300.00	12,134.51	12,039.00	11,885.97	44.45	37.45	-68.22	-223.94	-112.12	702.79	648.64	54.15	12.978				
12,350.00	12,156.42	12,087.00	11,907.05	44.51	37.60	-68.09	-266.97	-109.48	704.95	650.62	54.34	12.974				
12,400.00	12,174.34	12,112.24	11,916.60	44.57	37.69	-68.04	-290.28	-107.99	706.69	652.39	54.30	13.015				
12,450.00	12,188.12	12,150.40	11,929.05	44.64	37.82	-68.14	-326.28	-105.80	707.95	653.51	54.43	13.006				
12,500.00	12,197.66	12,192.96	11,939.90	44.72	37.97	-68.36	-367.39	-104.17	708.12	653.48	54.63	12.961				
12,550.00	12,202.89	12,230.06	11,946.49	44.81	38.10	-68.65	-403.87	-103.29	707.47	652.66	54.81	12.908				
12,600.00	12,203.76	12,273.18	11,951.32	44.92	38.26	-69.11	-446.72	-102.68	706.00	650.94	55.06	12.822				
12,605.03	12,203.61	12,277.77	11,951.74	44.93	38.28	-69.17	-451.28	-102.64	705.78	650.69	55.09	12.811				
12,700.00	12,200.29	12,364.87	11,956.63	45.19	38.62	-69.76	-538.24	-102.42	702.19	646.57	55.63	12.623				
12,800.00	12,196.80	12,456.87	11,956.62	45.53	39.02	-69.96	-630.22	-103.04	699.54	643.38	56.16	12.457				
12,900.00	12,193.31	12,547.51	11,954.38	45.94	39.47	-70.01	-720.84	-103.29	698.11	641.40	56.71	12.310				
13,000.00	12,189.82	12,647.97	11,951.41	46.41	40.03	-70.03	-821.25	-102.92	697.46	640.07	57.39	12.154				
13,039.24	12,188.46	12,681.56	11,950.42	46.62	40.24	-70.04	-854.83	-102.74	697.27	639.62	57.64	12.096				
13,100.00	12,186.33	12,731.39	11,948.99	46.94	40.55	-70.08	-904.63	-101.77	697.74	639.71	58.04	12.023				
13,200.00	12,182.84	12,812.08	11,945.66	47.52	41.09	-70.11	-985.18	-98.75	700.67	641.96	58.72	11.933				
13,300.00	12,179.36	12,904.22	11,938.84	48.15	41.75	-69.94	-1,076.96	-94.17	705.84	646.37	59.48	11.867				

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
County Fair/Blue Ribbon - County Fair Fed Com 602H - OH - OH													Offset Well Error:	0.00 usft
Survey Program: 107-OWSG (Rev2) MWD, 1422-OWSG (Rev2) MWD, 22063-BLIND														
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		
13,400.00	12,175.87	13,012.18	11,930.93	48.84	42.58	-69.74	-1,184.50	-88.97	710.89	650.47	60.42	11.766		
13,500.00	12,172.38	13,108.00	11,925.23	49.56	43.37	-69.66	-1,280.05	-84.46	715.35	653.99	61.36	11.658		
13,600.00	12,168.89	13,212.63	11,920.35	50.33	44.27	-69.70	-1,384.41	-78.90	719.92	657.45	62.47	11.523		
13,700.00	12,165.40	13,310.91	11,917.00	51.15	45.16	-69.83	-1,482.48	-73.49	724.25	660.63	63.62	11.384		
13,800.00	12,161.91	13,407.82	11,914.05	52.00	46.08	-69.99	-1,579.19	-67.84	728.76	663.95	64.81	11.244		
13,900.00	12,158.42	13,500.08	11,911.59	52.89	46.99	-70.21	-1,671.17	-61.14	734.46	668.44	66.02	11.125		
14,000.00	12,154.93	13,624.96	11,909.19	53.82	48.27	-70.50	-1,795.82	-54.14	738.33	670.64	67.69	10.907		
14,100.00	12,151.44	13,726.54	11,907.08	54.78	49.34	-70.68	-1,897.31	-50.50	740.42	671.31	69.11	10.714		
14,200.00	12,147.95	13,859.11	11,906.28	55.77	50.79	-71.02	-2,029.82	-46.86	741.48	670.48	70.99	10.444		
14,300.00	12,144.46	13,961.96	11,907.07	56.79	51.95	-71.32	-2,132.66	-46.97	739.17	666.60	72.56	10.186		
14,400.00	12,140.97	14,055.68	11,909.17	57.84	53.03	-71.71	-2,226.35	-46.25	737.24	663.13	74.11	9.948		
14,500.00	12,137.48	14,157.75	11,906.58	58.92	54.24	-71.74	-2,328.36	-46.96	735.46	659.80	75.66	9.720		
14,600.00	12,133.99	14,256.35	11,902.17	60.03	55.42	-71.62	-2,426.85	-48.34	733.62	656.47	77.15	9.509		
14,700.00	12,130.50	14,358.74	11,898.53	61.16	56.68	-71.57	-2,529.17	-49.16	732.05	653.31	78.74	9.297		
14,800.00	12,127.01	14,473.28	11,901.31	62.31	58.11	-72.04	-2,643.64	-49.54	729.06	648.33	80.72	9.032		
14,900.00	12,123.52	14,576.68	11,908.40	63.48	59.43	-72.81	-2,746.80	-50.00	724.66	641.95	82.71	8.761		
15,000.00	12,120.03	14,681.79	11,911.53	64.68	60.78	-73.26	-2,851.84	-52.14	719.99	635.37	84.62	8.508		
15,100.00	12,116.54	14,790.96	11,914.83	65.89	62.20	-73.70	-2,960.89	-55.65	714.21	627.60	86.61	8.246		
15,200.00	12,113.05	14,887.52	11,917.68	67.13	63.47	-74.08	-3,057.34	-59.29	707.96	619.50	88.45	8.004		
15,300.00	12,109.56	14,971.00	11,920.41	68.38	64.59	-74.47	-3,140.75	-61.04	703.26	613.11	90.15	7.801		
15,400.00	12,106.07	15,065.00	11,925.82	69.65	65.86	-75.14	-3,234.59	-60.87	700.15	608.04	92.12	7.601		
15,500.00	12,102.58	15,157.00	11,929.67	70.93	67.12	-75.70	-3,326.50	-60.23	698.05	604.03	94.02	7.425		
15,575.29	12,099.95	15,222.01	11,931.13	71.91	68.01	-76.00	-3,391.48	-59.23	697.48	602.14	95.34	7.316		
15,600.00	12,099.09	15,243.27	11,931.89	72.23	68.31	-76.13	-3,412.71	-58.62	697.54	601.76	95.78	7.283		
15,700.00	12,095.60	15,336.06	11,936.29	73.54	69.60	-76.79	-3,505.32	-54.93	698.63	600.88	97.75	7.147		
15,800.00	12,092.11	15,435.52	11,941.30	74.86	71.00	-77.54	-3,604.55	-50.41	700.33	600.44	99.89	7.011		
15,900.00	12,088.62	15,534.78	11,945.72	76.20	72.40	-78.23	-3,703.62	-46.00	702.16	600.14	102.03	6.882		
16,000.00	12,085.13	15,647.40	11,948.91	77.55	74.01	-78.83	-3,816.14	-42.69	702.91	598.50	104.41	6.732		
16,100.00	12,081.64	15,744.83	11,950.96	78.91	75.40	-79.29	-3,913.52	-40.46	703.24	596.79	106.45	6.606		
16,200.00	12,078.15	15,841.26	11,952.79	80.28	76.79	-79.73	-4,009.90	-38.03	703.88	595.40	108.49	6.488		
16,300.00	12,074.66	15,939.45	11,954.82	81.67	78.21	-80.20	-4,108.01	-34.69	705.41	594.83	110.58	6.379		
16,400.00	12,071.17	16,045.09	11,956.32	83.06	79.75	-80.64	-4,213.62	-32.22	706.01	593.19	112.83	6.258		
16,500.00	12,067.68	16,133.79	11,958.53	84.46	81.05	-81.09	-4,302.25	-29.66	707.09	592.36	114.73	6.163		
16,600.00	12,064.19	16,234.37	11,962.22	85.87	82.53	-81.71	-4,402.63	-24.68	710.07	593.12	116.95	6.072		
16,700.00	12,060.70	16,360.32	11,963.50	87.29	84.39	-82.18	-4,528.55	-22.58	710.19	590.54	119.65	5.936		
16,800.00	12,057.21	16,466.00	11,965.80	88.72	85.95	-82.64	-4,634.20	-23.49	707.69	585.77	121.92	5.805		
16,900.00	12,053.72	16,559.00	11,968.40	90.15	87.33	-83.09	-4,727.16	-24.06	705.46	581.49	123.98	5.690		
17,000.00	12,050.23	16,658.25	11,972.41	91.59	88.82	-83.69	-4,826.33	-23.45	704.34	578.15	126.19	5.582		
17,100.00	12,046.74	16,774.39	11,976.60	93.04	90.56	-84.35	-4,942.39	-24.08	702.21	573.50	128.71	5.456		
17,200.00	12,043.25	16,888.27	11,973.94	94.49	92.26	-84.41	-5,056.13	-28.43	697.37	566.37	131.00	5.324		
17,279.03	12,040.49	16,965.04	11,971.85	95.65	93.41	-84.42	-5,132.79	-31.85	693.13	560.51	132.62	5.226		
17,300.00	12,039.76	16,984.40	11,971.44	95.96	93.70	-84.44	-5,152.13	-32.62	692.09	559.05	133.04	5.202		
17,400.00	12,036.27	17,078.66	11,970.20	97.42	95.12	-84.57	-5,246.33	-35.75	687.82	552.73	135.09	5.092		
17,500.00	12,032.78	17,172.35	11,970.32	98.90	96.53	-84.83	-5,339.99	-38.06	684.47	547.31	137.16	4.990		
17,600.00	12,029.29	17,266.26	11,972.49	100.37	97.96	-85.27	-5,433.87	-39.22	682.33	543.05	139.28	4.899		
17,700.00	12,025.80	17,362.37	11,975.24	101.86	99.42	-85.78	-5,529.94	-39.72	681.09	539.64	141.44	4.815		
17,789.57	12,022.67	17,447.12	11,977.05	103.19	100.72	-86.17	-5,614.67	-39.76	680.64	537.30	143.34	4.748		
17,800.00	12,022.31	17,456.82	11,977.27	103.35	100.87	-86.22	-5,624.37	-39.72	680.65	537.09	143.56	4.741		
17,900.00	12,018.82	17,547.11	11,979.65	104.84	102.25	-86.68	-5,714.62	-38.72	681.51	535.95	145.56	4.682		
18,000.00	12,015.33	17,660.53	11,983.30	106.34	104.00	-87.33	-5,827.96	-36.89	683.16	535.03	148.13	4.612		
18,100.00	12,011.84	17,769.24	11,987.49	107.84	105.68	-87.99	-5,936.59	-37.89	682.40	531.84	150.55	4.533		
18,200.00	12,008.35	17,866.00	11,991.20	109.34	107.17	-88.58	-6,033.27	-38.92	681.76	529.04	152.73	4.464		

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 107-OWSG (Rev2) MWD, 1422-OWSG (Rev2) MWD, 22063-BLIND													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		
18,300.00	12,004.86	17,983.16	11,995.79	110.85	108.98	-89.31	-6,150.30	-41.59	680.15	524.90	155.25	4.381		
18,400.00	12,001.36	18,084.87	11,999.99	112.37	110.55	-89.96	-6,251.85	-45.45	677.29	519.81	157.48	4.301		
18,500.00	11,997.87	18,184.64	12,004.57	113.88	112.09	-90.63	-6,351.45	-48.99	674.95	515.26	159.68	4.227		
18,600.00	11,994.38	18,286.56	12,007.89	115.40	113.66	-91.22	-6,453.23	-53.30	672.16	510.26	161.89	4.152		
18,700.00	11,990.89	18,375.94	12,011.22	116.93	115.05	-91.77	-6,542.49	-56.47	670.34	506.44	163.91	4.090		
18,730.18	11,989.84	18,401.52	12,012.25	117.39	115.45	-91.93	-6,568.04	-57.04	670.23	505.75	164.48	4.075		
18,800.00	11,987.40	18,464.61	12,014.89	118.45	116.43	-92.34	-6,631.07	-57.85	670.72	504.88	165.84	4.044		
18,900.00	11,983.91	18,561.81	12,019.16	119.98	117.95	-92.99	-6,728.17	-58.50	672.29	504.37	167.92	4.004		
19,000.00	11,980.42	18,655.77	12,024.09	121.51	119.42	-93.67	-6,822.01	-58.96	674.38	504.49	169.89	3.970		
19,100.00	11,976.94	18,745.37	12,030.87	123.05	120.83	-94.49	-6,911.34	-58.11	678.33	506.67	171.66	3.952		
19,197.68	11,973.53	18,834.04	12,037.22	124.55	122.23	-95.25	-6,999.76	-56.38	683.47	510.11	173.35	3.943		
19,200.00	11,973.45	18,835.98	12,037.35	124.58	122.26	-95.27	-7,001.70	-56.33	683.61	510.22	173.39	3.943		
19,300.00	11,969.96	18,923.00	12,042.81	126.12	123.64	-95.93	-7,088.48	-52.85	691.01	516.06	174.94	3.950		
19,400.00	11,966.47	19,021.84	12,048.37	127.67	125.20	-96.60	-7,187.03	-47.89	699.47	522.56	176.91	3.954		
19,500.00	11,962.98	19,125.86	12,051.04	129.21	126.85	-97.04	-7,290.90	-42.98	707.33	528.18	179.15	3.948		
19,600.00	11,959.49	19,240.01	12,050.62	130.76	128.66	-97.24	-7,404.93	-37.92	714.65	532.85	181.80	3.931		
19,700.00	11,956.00	19,356.70	12,048.89	132.31	130.50	-97.38	-7,521.58	-35.98	718.98	534.53	184.45	3.898		
19,800.00	11,952.51	19,446.32	12,047.90	133.86	131.92	-97.51	-7,611.20	-34.84	723.01	536.71	186.30	3.881		
19,900.00	11,949.02	19,548.13	12,046.81	135.41	133.53	-97.66	-7,712.98	-32.78	727.79	539.29	188.50	3.861		
20,000.00	11,945.53	19,643.67	12,047.65	136.97	135.05	-97.94	-7,808.49	-31.03	732.66	542.20	190.46	3.847		
20,100.00	11,942.04	19,749.08	12,050.68	138.53	136.72	-98.41	-7,913.85	-29.53	737.42	544.78	192.64	3.828		
20,200.00	11,938.55	19,849.22	12,056.09	140.09	138.31	-99.06	-8,013.83	-28.93	741.82	547.26	194.56	3.813		
20,300.00	11,935.06	19,947.05	12,061.41	141.65	139.87	-99.68	-8,111.52	-28.22	746.46	550.06	196.39	3.801		
20,400.00	11,931.57	20,043.63	12,064.68	143.21	141.41	-100.13	-8,208.03	-26.97	751.36	553.11	198.25	3.790		
20,500.00	11,928.08	20,136.10	12,068.96	144.78	142.89	-100.64	-8,300.38	-25.18	757.17	557.26	199.91	3.788		
20,600.00	11,924.59	20,241.66	12,073.63	146.35	144.57	-101.18	-8,405.81	-22.68	763.45	561.47	201.98	3.780		
20,700.00	11,921.10	20,346.31	12,081.88	147.91	146.25	-102.02	-8,510.12	-22.71	768.13	564.34	203.79	3.769		
20,800.00	11,917.61	20,448.20	12,091.81	149.48	147.87	-102.96	-8,611.53	-22.72	773.43	568.06	205.37	3.766		
20,900.00	11,914.12	20,544.00	12,100.59	151.06	149.40	-103.80	-8,706.92	-23.32	778.20	571.43	206.77	3.764		
21,000.00	11,910.63	20,647.55	12,108.42	152.63	151.06	-104.56	-8,810.16	-22.81	783.81	575.37	208.44	3.760		
21,100.00	11,907.14	20,753.01	12,110.32	154.20	152.75	-104.88	-8,915.59	-21.88	788.40	577.90	210.50	3.745		
21,200.00	11,903.65	20,859.26	12,110.03	155.78	154.44	-105.06	-9,021.84	-21.11	792.33	579.64	212.69	3.725		
21,300.00	11,900.16	20,950.00	12,110.52	157.36	155.90	-105.26	-9,112.58	-20.71	796.23	581.83	214.39	3.714 SF		
21,400.00	11,896.68	21,019.76	12,113.18	158.94	157.02	-105.56	-9,182.26	-19.27	802.63	587.46	215.17	3.730		
21,500.00	11,893.19	21,135.65	12,121.45	160.52	158.88	-106.27	-9,297.79	-15.54	811.19	593.90	217.29	3.733		
21,600.00	11,889.70	21,248.13	12,125.27	162.10	160.69	-106.71	-9,410.18	-14.26	816.57	597.14	219.43	3.721		
21,700.00	11,886.21	21,336.26	12,130.11	163.68	162.11	-107.18	-9,498.17	-13.44	822.44	601.75	220.69	3.727		
21,800.00	11,882.72	21,436.09	12,135.65	165.27	163.71	-107.70	-9,597.84	-12.35	828.57	606.30	222.26	3.728		
21,900.00	11,879.23	21,516.89	12,141.33	166.85	165.02	-108.18	-9,678.41	-10.50	836.32	613.21	223.11	3.749		
22,000.00	11,875.74	21,629.95	12,148.93	168.44	166.84	-108.80	-9,791.17	-7.59	844.37	619.31	225.07	3.752		
22,100.00	11,872.25	21,746.33	12,154.42	170.02	168.72	-109.31	-9,907.41	-6.04	850.66	623.50	227.16	3.745		
22,200.00	11,868.76	21,856.20	12,157.45	171.61	170.48	-109.68	-10,017.24	-5.84	855.24	626.13	229.12	3.733		
22,300.00	11,865.27	21,932.02	12,159.66	173.20	171.71	-109.94	-10,093.02	-5.43	860.40	630.29	230.11	3.739		
22,400.00	11,861.78	22,008.00	12,164.93	174.79	172.93	-110.33	-10,168.76	-2.78	869.39	638.67	230.72	3.768		
22,410.02	11,861.43	22,008.00	12,164.93	174.94	172.93	-110.33	-10,168.76	-2.78	870.42	639.86	230.56	3.775		

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - County Fair Fed Com 602H2 - OH - Plan #1		Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD															Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	0.00	0.00	0.00	0.00	89.48	0.32	34.99	34.99							
100.00	100.00	100.00	100.00	0.13	0.13	89.48	0.32	34.99	34.99	34.81	0.18	197.208				
200.00	200.00	200.00	200.00	0.48	0.48	89.48	0.32	34.99	34.99	34.31	0.68	51.128				
300.00	300.00	300.00	300.00	0.84	0.84	89.48	0.32	34.99	34.99	33.80	1.19	29.371				
400.00	400.00	400.00	400.00	1.20	1.20	89.48	0.32	34.99	34.99	33.29	1.70	20.604				
500.00	500.00	500.00	500.00	1.56	1.56	89.48	0.32	34.99	34.99	32.79	2.21	15.867				
600.00	600.00	600.00	600.00	1.92	1.92	89.48	0.32	34.99	34.99	32.28	2.71	12.901				
700.00	700.00	700.00	700.00	2.28	2.28	89.48	0.32	34.99	34.99	31.77	3.22	10.870				
800.00	800.00	800.00	800.00	2.63	2.63	89.48	0.32	34.99	34.99	31.27	3.73	9.391				
900.00	900.00	900.00	900.00	2.99	2.99	89.48	0.32	34.99	34.99	30.76	4.23	8.266				
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	89.48	0.32	34.99	34.99	30.25	4.74	7.382				
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	89.48	0.32	34.99	34.99	29.74	5.25	6.669				
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	89.48	0.32	34.99	34.99	29.24	5.75	6.081				
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	89.48	0.32	34.99	34.99	28.73	6.26	5.589				
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	89.48	0.32	34.99	34.99	28.22	6.77	5.170	CC, ES			
1,500.00	1,499.99	1,499.99	1,499.99	5.14	5.14	179.49	0.32	34.99	36.30	29.03	7.27	4.994				
1,600.00	1,599.91	1,599.91	1,599.91	5.48	5.50	179.54	0.32	34.99	40.23	32.46	7.76	5.181				
1,700.00	1,699.69	1,699.69	1,699.69	5.83	5.86	179.61	0.32	34.99	46.77	38.51	8.26	5.661				
1,800.00	1,799.27	1,799.27	1,799.27	6.18	6.22	179.67	0.32	34.99	55.92	47.16	8.76	6.384				
1,900.00	1,898.57	1,898.57	1,898.57	6.54	6.57	179.73	0.32	34.99	67.67	58.41	9.26	7.311				
1,940.67	1,938.86	1,938.86	1,938.86	6.69	6.72	179.75	0.32	34.99	73.19	63.73	9.46	7.738				
2,000.00	1,997.60	1,997.60	1,997.60	6.91	6.93	179.77	0.32	34.99	81.56	71.81	9.75	8.363				
2,100.00	2,096.60	2,098.71	2,098.70	7.28	7.29	179.41	0.97	33.89	94.60	84.35	10.25	9.227				
2,200.00	2,195.60	2,200.38	2,200.28	7.66	7.64	178.37	2.99	30.46	105.40	94.65	10.75	9.807				
2,300.00	2,294.60	2,301.54	2,301.24	8.05	8.00	176.83	6.28	24.88	114.14	102.89	11.24	10.152				
2,400.00	2,393.60	2,401.15	2,400.60	8.44	8.35	175.39	9.81	18.88	122.48	110.74	11.74	10.430				
2,500.00	2,492.60	2,500.76	2,499.97	8.83	8.71	174.13	13.34	12.89	130.89	118.65	12.24	10.690				
2,600.00	2,591.60	2,600.36	2,599.33	9.22	9.07	173.02	16.87	6.90	139.36	126.61	12.75	10.932				
2,700.00	2,690.60	2,699.97	2,698.70	9.62	9.42	172.04	20.40	0.91	147.87	134.62	13.25	11.157				
2,800.00	2,789.60	2,799.58	2,798.06	10.02	9.78	171.16	23.94	-5.09	156.42	142.66	13.76	11.368				
2,900.00	2,888.60	2,899.18	2,897.42	10.42	10.14	170.38	27.47	-11.08	165.00	150.73	14.27	11.565				
2,940.67	2,928.86	2,939.69	2,937.83	10.59	10.29	170.09	28.90	-13.51	168.50	154.03	14.47	11.642				
3,000.00	2,987.61	2,998.81	2,996.81	10.82	10.50	163.49	31.00	-17.07	173.47	158.69	14.78	11.740				
3,084.09	3,070.87	3,082.64	3,080.44	11.16	10.81	154.64	33.97	-22.11	180.03	164.83	15.20	11.840				
3,100.00	3,086.62	3,098.50	3,096.26	11.23	10.87	154.71	34.53	-23.07	181.22	165.93	15.29	11.855				
3,200.00	3,185.62	3,198.21	3,195.72	11.63	11.23	155.17	38.07	-29.07	188.70	172.90	15.80	11.945				
3,300.00	3,284.62	3,297.92	3,295.19	12.04	11.59	155.59	41.60	-35.07	196.18	179.87	16.31	12.029				
3,400.00	3,383.62	3,397.63	3,394.66	12.45	11.96	155.98	45.14	-41.06	203.68	186.86	16.82	12.109				
3,500.00	3,482.62	3,497.34	3,494.12	12.85	12.32	156.34	48.67	-47.06	211.19	193.85	17.33	12.183				
3,600.00	3,581.62	3,597.05	3,593.59	13.26	12.69	156.68	52.21	-53.06	218.70	200.85	17.85	12.254				
3,700.00	3,680.63	3,696.76	3,693.05	13.67	13.05	157.00	55.74	-59.06	226.22	207.86	18.36	12.320				
3,800.00	3,779.63	3,796.47	3,792.52	14.08	13.42	157.29	59.28	-65.06	233.75	214.87	18.88	12.384				
3,900.00	3,878.63	3,896.18	3,891.99	14.49	13.78	157.57	62.81	-71.06	241.28	221.89	19.39	12.443				
4,000.00	3,977.63	3,995.89	3,991.45	14.91	14.15	157.83	66.35	-77.06	248.82	228.91	19.91	12.500				
4,100.00	4,076.63	4,095.60	4,090.92	15.32	14.52	158.07	69.88	-83.05	256.36	235.94	20.42	12.554				
4,200.00	4,175.63	4,195.31	4,190.38	15.73	14.89	158.30	73.42	-89.05	263.91	242.97	20.94	12.605				
4,300.00	4,274.63	4,295.02	4,289.85	16.15	15.25	158.52	76.95	-95.05	271.46	250.00	21.45	12.654				
4,400.00	4,373.63	4,394.73	4,389.32	16.56	15.62	158.73	80.49	-101.05	279.01	257.04	21.97	12.701				
4,500.00	4,472.63	4,494.44	4,488.78	16.97	15.99	158.92	84.02	-107.05	286.57	264.08	22.48	12.745				
4,600.00	4,571.63	4,594.14	4,588.25	17.39	16.36	159.11	87.56	-113.05	294.13	271.13	23.00	12.788				
4,700.00	4,670.63	4,693.85	4,687.71	17.80	16.73	159.28	91.09	-119.04	301.69	278.18	23.52	12.829				
4,800.00	4,769.64	4,793.56	4,787.18	18.22	17.10	159.45	94.62	-125.04	309.26	285.23	24.03	12.867				

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



Total Directional Services

Anticollision Report



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Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.00	4,868.64	4,893.27	4,886.64	18.64	17.46	159.61	98.16	-131.04	316.83	292.28	24.55	12.905		
5,000.00	4,967.64	4,992.98	4,986.11	19.05	17.83	159.76	101.69	-137.04	324.40	299.33	25.07	12.941		
5,100.00	5,066.64	5,092.69	5,085.58	19.47	18.20	159.91	105.23	-143.04	331.97	306.39	25.59	12.975		
5,200.00	5,165.64	5,192.40	5,185.04	19.89	18.57	160.04	108.76	-149.04	339.55	313.45	26.10	13.008		
5,300.00	5,264.64	5,292.11	5,284.51	20.30	18.94	160.18	112.30	-155.03	347.13	320.51	26.62	13.040		
5,400.00	5,363.64	5,391.82	5,383.97	20.72	19.31	160.30	115.83	-161.03	354.71	327.57	27.14	13.070		
5,500.00	5,462.64	5,491.53	5,483.44	21.14	19.68	160.42	119.37	-167.03	362.29	334.63	27.66	13.099		
5,600.00	5,561.64	5,591.24	5,582.91	21.56	20.05	160.54	122.90	-173.03	369.87	341.70	28.17	13.128		
5,700.00	5,660.64	5,690.95	5,682.37	21.98	20.42	160.65	126.44	-179.03	377.45	348.76	28.69	13.155		
5,800.00	5,759.64	5,790.66	5,781.84	22.39	20.79	160.76	129.97	-185.03	385.04	355.83	29.21	13.181		
5,900.00	5,858.65	5,890.37	5,881.30	22.81	21.16	160.86	133.51	-191.03	392.63	362.90	29.73	13.207		
6,000.00	5,957.65	5,990.08	5,980.77	23.23	21.53	160.96	137.04	-197.02	400.21	369.97	30.25	13.231		
6,100.00	6,056.65	6,089.79	6,080.24	23.65	21.90	161.06	140.58	-203.02	407.80	377.04	30.77	13.255		
6,200.00	6,155.65	6,189.49	6,179.70	24.07	22.27	161.15	144.11	-209.02	415.39	384.11	31.29	13.278		
6,300.00	6,254.65	6,289.20	6,279.17	24.49	22.65	161.24	147.65	-215.02	422.98	391.18	31.80	13.300		
6,400.00	6,353.65	6,388.91	6,378.63	24.91	23.02	161.32	151.18	-221.02	430.58	398.25	32.32	13.321		
6,500.00	6,452.65	6,488.62	6,478.10	25.33	23.39	161.41	154.72	-227.02	438.17	405.33	32.84	13.342		
6,600.00	6,551.65	6,588.33	6,577.57	25.75	23.76	161.49	158.25	-233.01	445.76	412.40	33.36	13.362		
6,700.00	6,650.65	6,685.00	6,674.00	26.17	24.12	161.57	161.62	-238.72	453.47	419.60	33.87	13.389		
6,800.00	6,749.65	6,775.50	6,764.39	26.59	24.45	161.76	163.91	-242.62	462.72	428.38	34.34	13.474		
6,900.00	6,848.65	6,865.58	6,854.44	27.01	24.77	162.09	165.11	-244.66	473.95	439.15	34.80	13.620		
6,988.64	6,936.41	6,947.55	6,936.41	27.38	25.06	162.48	165.32	-245.01	485.49	450.29	35.21	13.790		
7,000.00	6,947.66	6,958.80	6,947.66	27.43	25.10	162.55	165.32	-245.01	487.00	451.74	35.26	13.811		
7,100.00	7,046.87	7,058.01	7,046.87	27.84	25.44	163.03	165.32	-245.01	498.96	463.20	35.76	13.952		
7,200.00	7,146.37	7,157.52	7,146.37	28.23	25.79	163.40	165.32	-245.01	508.45	472.19	36.26	14.022		
7,300.00	7,246.11	7,257.25	7,246.11	28.60	26.13	163.66	165.32	-245.01	515.45	478.69	36.76	14.022		
7,400.00	7,345.99	7,357.14	7,345.99	28.95	26.48	163.82	165.32	-245.01	519.95	482.69	37.26	13.955		
7,500.00	7,445.97	7,457.11	7,445.97	29.29	26.83	163.89	165.32	-245.01	521.94	484.18	37.75	13.825		
7,529.03	7,475.00	7,486.14	7,475.00	29.38	26.93	89.20	165.32	-245.01	522.04	484.15	37.90	13.776		
7,600.00	7,545.97	7,557.11	7,545.97	29.61	27.18	89.20	165.32	-245.01	522.04	483.80	38.24	13.651		
7,700.00	7,645.97	7,657.11	7,645.97	29.92	27.53	89.20	165.32	-245.01	522.04	483.31	38.73	13.479		
7,800.00	7,745.97	7,757.11	7,745.97	30.24	27.88	89.20	165.32	-245.01	522.04	482.82	39.22	13.311		
7,900.00	7,845.97	7,857.11	7,845.97	30.56	28.23	89.20	165.32	-245.01	522.04	482.33	39.71	13.147		
8,000.00	7,945.97	7,957.11	7,945.97	30.88	28.58	89.20	165.32	-245.01	522.04	481.84	40.20	12.987		
8,100.00	8,045.97	8,057.11	8,045.97	31.20	28.92	89.20	165.32	-245.01	522.04	481.35	40.69	12.830		
8,200.00	8,145.97	8,157.11	8,145.97	31.52	29.28	89.20	165.32	-245.01	522.04	480.86	41.18	12.678		
8,300.00	8,245.97	8,257.11	8,245.97	31.84	29.63	89.20	165.32	-245.01	522.04	480.37	41.67	12.528		
8,400.00	8,345.97	8,357.11	8,345.97	32.17	29.98	89.20	165.32	-245.01	522.04	479.88	42.16	12.382		
8,500.00	8,445.97	8,457.11	8,445.97	32.49	30.33	89.20	165.32	-245.01	522.04	479.39	42.65	12.240		
8,600.00	8,545.97	8,557.11	8,545.97	32.82	30.68	89.20	165.32	-245.01	522.04	478.90	43.14	12.100		
8,700.00	8,645.97	8,657.11	8,645.97	33.14	31.03	89.20	165.32	-245.01	522.04	478.40	43.64	11.963		
8,800.00	8,745.97	8,757.11	8,745.97	33.47	31.38	89.20	165.32	-245.01	522.04	477.91	44.13	11.830		
8,900.00	8,845.97	8,857.11	8,845.97	33.79	31.73	89.20	165.32	-245.01	522.04	477.42	44.62	11.699		
9,000.00	8,945.97	8,957.11	8,945.97	34.12	32.08	89.20	165.32	-245.01	522.04	476.93	45.12	11.571		
9,100.00	9,045.97	9,057.11	9,045.97	34.45	32.43	89.20	165.32	-245.01	522.04	476.43	45.61	11.446		
9,200.00	9,145.97	9,157.11	9,145.97	34.78	32.79	89.20	165.32	-245.01	522.04	475.94	46.10	11.323		
9,300.00	9,245.97	9,257.11	9,245.97	35.11	33.14	89.20	165.32	-245.01	522.04	475.44	46.60	11.203		
9,400.00	9,345.97	9,357.11	9,345.97	35.44	33.49	89.20	165.32	-245.01	522.04	474.95	47.09	11.086		
9,500.00	9,445.97	9,457.11	9,445.97	35.77	33.84	89.20	165.32	-245.01	522.04	474.46	47.59	10.971		
9,600.00	9,545.97	9,557.11	9,545.97	36.10	34.19	89.20	165.32	-245.01	522.04	473.96	48.08	10.858		
9,700.00	9,645.97	9,657.11	9,645.97	36.43	34.55	89.20	165.32	-245.01	522.04	473.47	48.58	10.747		
9,800.00	9,745.97	9,757.11	9,745.97	36.76	34.90	89.20	165.32	-245.01	522.04	472.97	49.07	10.638		

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - County Fair Fed Com 602H2 - OH - Plan #1		Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
9,900.00	9,845.97	9,857.11	9,845.97	37.09	35.25	89.20	165.32	-245.01	522.04	472.47	49.57	10.532				
10,000.00	9,945.97	9,957.11	9,945.97	37.42	35.60	89.20	165.32	-245.01	522.04	471.98	50.06	10.428				
10,100.00	10,045.97	10,057.11	10,045.97	37.76	35.96	89.20	165.32	-245.01	522.04	471.48	50.56	10.325				
10,200.00	10,145.97	10,157.11	10,145.97	38.09	36.31	89.20	165.32	-245.01	522.04	470.99	51.06	10.225				
10,300.00	10,245.97	10,257.11	10,245.97	38.43	36.66	89.20	165.32	-245.01	522.04	470.49	51.55	10.127				
10,400.00	10,345.97	10,357.11	10,345.97	38.76	37.02	89.20	165.32	-245.01	522.04	469.99	52.05	10.030				
10,500.00	10,445.97	10,457.11	10,445.97	39.09	37.37	89.20	165.32	-245.01	522.04	469.50	52.55	9.935				
10,600.00	10,545.97	10,557.11	10,545.97	39.43	37.72	89.20	165.32	-245.01	522.04	469.00	53.04	9.842				
10,700.00	10,645.97	10,657.11	10,645.97	39.77	38.08	89.20	165.32	-245.01	522.04	468.50	53.54	9.750				
10,800.00	10,745.97	10,757.11	10,745.97	40.10	38.43	89.20	165.32	-245.01	522.04	468.00	54.04	9.661				
10,900.00	10,845.97	10,857.11	10,845.97	40.44	38.78	89.20	165.32	-245.01	522.04	467.51	54.54	9.573				
11,000.00	10,945.97	10,957.11	10,945.97	40.78	39.14	89.20	165.32	-245.01	522.04	467.01	55.03	9.486				
11,100.00	11,045.97	11,057.11	11,045.97	41.11	39.49	89.20	165.32	-245.01	522.04	466.51	55.53	9.401				
11,200.00	11,145.97	11,157.11	11,145.97	41.45	39.85	89.20	165.32	-245.01	522.04	466.01	56.03	9.317				
11,300.00	11,245.97	11,257.11	11,245.97	41.79	40.20	89.20	165.32	-245.01	522.04	465.51	56.53	9.235				
11,311.83	11,257.80	11,268.94	11,257.80	41.83	40.24	89.20	165.32	-245.01	522.04	465.45	56.59	9.226				
11,400.00	11,345.97	11,357.10	11,345.95	42.13	40.55	89.23	165.01	-245.01	522.04	465.02	57.02	9.155				
11,400.14	11,346.11	11,357.24	11,346.09	42.13	40.55	89.23	165.00	-245.01	522.04	465.02	57.02	9.155				
11,500.00	11,445.97	11,455.41	11,443.45	42.46	40.86	90.51	153.36	-244.84	522.19	464.73	57.46	9.087				
11,600.00	11,545.97	11,547.25	11,531.49	42.80	41.12	93.33	127.59	-244.47	523.61	465.80	57.81	9.057				
11,685.03	11,631.00	11,617.57	11,595.48	43.09	41.30	96.49	98.53	-244.05	527.51	469.53	57.98	9.098				
11,700.00	11,645.97	11,629.21	11,605.71	43.14	41.33	-82.32	92.97	-243.97	528.56	470.57	57.99	9.114				
11,750.00	11,695.83	11,667.46	11,638.48	43.30	41.41	-80.06	73.27	-243.69	532.61	474.62	57.99	9.184				
11,800.00	11,745.20	11,704.87	11,669.19	43.45	41.49	-77.87	51.92	-243.39	537.39	479.46	57.93	9.277				
11,850.00	11,793.70	11,741.54	11,697.89	43.59	41.56	-75.77	29.09	-243.06	542.74	484.94	57.80	9.389				
11,900.00	11,840.96	11,777.58	11,724.61	43.72	41.63	-73.77	4.92	-242.71	548.52	490.90	57.62	9.519				
11,950.00	11,886.62	11,813.07	11,749.38	43.85	41.68	-71.88	-20.48	-242.35	554.56	497.18	57.38	9.664				
12,000.00	11,930.34	11,850.00	11,773.44	43.96	41.74	-70.05	-48.49	-241.95	560.74	503.61	57.13	9.814				
12,050.00	11,971.78	11,882.65	11,793.17	44.07	41.78	-68.47	-74.49	-241.57	566.90	510.12	56.78	9.984				
12,100.00	12,010.63	11,916.87	11,812.22	44.16	41.83	-66.97	-102.91	-241.17	572.94	516.50	56.44	10.151				
12,150.00	12,046.59	11,950.00	11,829.02	44.24	41.89	-65.62	-131.46	-240.76	578.74	522.66	56.08	10.320				
12,200.00	12,079.38	11,984.39	11,844.68	44.32	41.97	-64.39	-162.06	-240.32	584.18	528.44	55.75	10.479				
12,250.00	12,108.76	12,017.78	11,858.10	44.39	42.05	-63.31	-192.63	-239.88	589.20	533.78	55.42	10.632				
12,300.00	12,134.51	12,050.00	11,869.34	44.45	42.13	-62.40	-222.82	-239.45	593.70	538.59	55.11	10.773				
12,350.00	12,156.42	12,084.02	11,879.35	44.51	42.22	-61.61	-255.32	-238.98	597.62	542.75	54.87	10.892				
12,400.00	12,174.34	12,116.92	11,887.18	44.57	42.30	-60.98	-287.27	-238.53	600.90	546.24	54.66	10.992				
12,450.00	12,188.12	12,150.00	11,893.19	44.64	42.39	-60.50	-319.79	-238.06	603.50	548.97	54.53	11.068				
12,500.00	12,197.66	12,182.46	11,897.25	44.72	42.48	-60.17	-351.99	-237.60	605.38	550.93	54.45	11.117				
12,550.00	12,202.89	12,215.15	11,899.50	44.81	42.57	-59.98	-384.59	-237.13	606.53	552.07	54.46	11.137				
12,600.00	12,203.76	12,250.00	11,899.84	44.92	42.67	-59.94	-419.43	-236.63	606.92	552.37	54.55	11.126				
12,605.03	12,203.61	12,250.00	11,899.84	44.93	42.67	-59.94	-419.43	-236.63	606.92	552.36	54.56	11.125				
12,607.28	12,203.53	12,252.57	11,899.78	44.94	42.68	-59.95	-422.00	-236.60	606.91	552.35	54.56	11.123				
12,700.00	12,200.29	12,342.35	11,896.67	45.19	42.98	-59.97	-511.72	-235.31	607.34	552.45	54.89	11.065				
12,800.00	12,196.80	12,442.35	11,893.19	45.53	43.36	-60.00	-611.64	-233.88	607.82	552.51	55.31	10.989				
12,900.00	12,193.31	12,542.34	11,889.70	45.94	43.80	-60.03	-711.57	-232.45	608.30	552.50	55.81	10.900				
13,000.00	12,189.82	12,642.34	11,886.22	46.41	44.30	-60.05	-811.50	-231.01	608.79	552.41	56.37	10.799				
13,100.00	12,186.33	12,742.34	11,882.73	46.94	44.85	-60.08	-911.43	-229.58	609.27	552.26	57.01	10.687				
13,200.00	12,182.84	12,842.34	11,879.25	47.52	45.45	-60.11	-1,011.35	-228.15	609.75	552.04	57.72	10.565				
13,300.00	12,179.36	12,942.34	11,875.76	48.15	46.10	-60.13	-1,111.28	-226.72	610.24	551.75	58.49	10.434				
13,400.00	12,175.87	13,042.34	11,872.28	48.84	46.80	-60.16	-1,211.21	-225.29	610.72	551.40	59.32	10.295				
13,500.00	12,172.38	13,142.33	11,868.79	49.56	47.55	-60.19	-1,311.14	-223.86	611.20	550.99	60.21	10.151				
13,600.00	12,168.89	13,242.33	11,865.31	50.33	48.34	-60.21	-1,411.06	-222.42	611.68	550.52	61.16	10.001				

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,700.00	12,165.40	13,342.33	11,861.82	51.15	49.17	-60.24	-1,510.99	-220.99	612.17	550.00	62.17	9.847		
13,800.00	12,161.91	13,442.33	11,858.34	52.00	50.05	-60.27	-1,610.92	-219.56	612.65	549.43	63.23	9.690		
13,900.00	12,158.42	13,542.33	11,854.85	52.89	50.96	-60.29	-1,710.85	-218.13	613.14	548.80	64.33	9.531		
14,000.00	12,154.93	13,642.33	11,851.37	53.82	51.91	-60.32	-1,810.77	-216.70	613.62	548.13	65.49	9.370		
14,100.00	12,151.44	13,742.33	11,847.88	54.78	52.90	-60.34	-1,910.70	-215.27	614.10	547.42	66.69	9.209		
14,200.00	12,147.95	13,842.32	11,844.39	55.77	53.91	-60.37	-2,010.63	-213.83	614.59	546.66	67.93	9.048		
14,300.00	12,144.46	13,942.32	11,840.91	56.79	54.96	-60.40	-2,110.56	-212.40	615.07	545.86	69.21	8.887		
14,400.00	12,140.97	14,042.32	11,837.42	57.84	56.04	-60.42	-2,210.48	-210.97	615.56	545.03	70.53	8.728		
14,500.00	12,137.48	14,142.32	11,833.94	58.92	57.14	-60.45	-2,310.41	-209.54	616.04	544.16	71.88	8.570		
14,600.00	12,133.99	14,242.32	11,830.45	60.03	58.27	-60.48	-2,410.34	-208.11	616.53	543.26	73.27	8.415		
14,700.00	12,130.50	14,342.32	11,826.97	61.16	59.42	-60.50	-2,510.26	-206.68	617.01	542.32	74.69	8.261		
14,800.00	12,127.01	14,442.31	11,823.48	62.31	60.60	-60.53	-2,610.19	-205.24	617.50	541.36	76.14	8.110		
14,900.00	12,123.52	14,542.31	11,820.00	63.48	61.80	-60.55	-2,710.12	-203.81	617.98	540.37	77.61	7.962		
15,000.00	12,120.03	14,642.31	11,816.51	64.68	63.02	-60.58	-2,810.05	-202.38	618.47	539.35	79.12	7.817		
15,100.00	12,116.54	14,742.31	11,813.03	65.89	64.26	-60.60	-2,909.97	-200.95	618.95	538.30	80.65	7.675		
15,200.00	12,113.05	14,842.31	11,809.54	67.13	65.51	-60.63	-3,009.90	-199.52	619.44	537.24	82.20	7.536		
15,300.00	12,109.56	14,942.31	11,806.06	68.38	66.79	-60.66	-3,109.83	-198.09	619.92	536.15	83.77	7.400		
15,400.00	12,106.07	15,042.30	11,802.57	69.65	68.08	-60.68	-3,209.76	-196.65	620.41	535.04	85.37	7.267		
15,500.00	12,102.58	15,142.30	11,799.09	70.93	69.38	-60.71	-3,309.68	-195.22	620.89	533.91	86.99	7.138		
15,600.00	12,099.09	15,242.30	11,795.60	72.23	70.70	-60.73	-3,409.61	-193.79	621.38	532.76	88.62	7.012		
15,700.00	12,095.60	15,342.30	11,792.12	73.54	72.04	-60.76	-3,509.54	-192.36	621.87	531.59	90.27	6.889		
15,800.00	12,092.11	15,442.30	11,788.63	74.86	73.38	-60.78	-3,609.47	-190.93	622.35	530.41	91.94	6.769		
15,900.00	12,088.62	15,542.30	11,785.14	76.20	74.74	-60.81	-3,709.39	-189.50	622.84	529.21	93.62	6.652		
16,000.00	12,085.13	15,642.30	11,781.66	77.55	76.11	-60.84	-3,809.32	-188.06	623.32	528.00	95.32	6.539		
16,100.00	12,081.64	15,742.29	11,778.17	78.91	77.49	-60.86	-3,909.25	-186.63	623.81	526.77	97.04	6.429		
16,200.00	12,078.15	15,842.29	11,774.69	80.28	78.89	-60.89	-4,009.18	-185.20	624.30	525.53	98.76	6.321		
16,300.00	12,074.66	15,942.29	11,771.20	81.67	80.29	-60.91	-4,109.10	-183.77	624.78	524.28	100.50	6.217		
16,400.00	12,071.17	16,042.29	11,767.72	83.06	81.70	-60.94	-4,209.03	-182.34	625.27	523.02	102.25	6.115		
16,500.00	12,067.68	16,142.29	11,764.23	84.46	83.12	-60.96	-4,308.96	-180.91	625.76	521.74	104.02	6.016		
16,600.00	12,064.19	16,242.29	11,760.75	85.87	84.54	-60.99	-4,408.89	-179.47	626.24	520.46	105.79	5.920		
16,700.00	12,060.70	16,342.28	11,757.26	87.29	85.98	-61.01	-4,508.81	-178.04	626.73	519.16	107.57	5.826		
16,800.00	12,057.21	16,442.28	11,753.78	88.72	87.42	-61.04	-4,608.74	-176.61	627.22	517.86	109.36	5.735		
16,900.00	12,053.72	16,542.28	11,750.29	90.15	88.88	-61.06	-4,708.67	-175.18	627.71	516.54	111.16	5.647		
17,000.00	12,050.23	16,642.28	11,746.81	91.59	90.33	-61.09	-4,808.60	-173.75	628.19	515.22	112.97	5.561		
17,100.00	12,046.74	16,742.28	11,743.32	93.04	91.80	-61.11	-4,908.52	-172.32	628.68	513.89	114.79	5.477		
17,200.00	12,043.25	16,842.28	11,739.84	94.49	93.27	-61.14	-5,008.45	-170.88	629.17	512.55	116.62	5.395		
17,279.03	12,040.49	16,921.31	11,737.08	95.65	94.43	-61.16	-5,087.43	-169.75	629.56	511.49	118.07	5.332		
17,300.00	12,039.76	16,942.27	11,736.35	95.96	94.74	-61.16	-5,108.38	-169.45	629.66	511.21	118.45	5.316		
17,400.00	12,036.27	17,042.27	11,732.87	97.42	96.23	-61.19	-5,208.30	-168.02	630.26	509.96	120.30	5.239		
17,500.00	12,032.78	17,142.27	11,729.38	98.90	97.71	-61.22	-5,308.23	-166.59	631.01	508.85	122.16	5.165		
17,600.00	12,029.29	17,242.26	11,725.90	100.37	99.21	-61.26	-5,408.15	-165.16	631.91	507.88	124.03	5.095		
17,700.00	12,025.80	17,342.26	11,722.41	101.86	100.70	-61.31	-5,508.08	-163.73	632.97	507.04	125.92	5.027		
17,800.00	12,022.31	17,442.25	11,718.92	103.35	102.21	-61.37	-5,607.99	-162.29	634.18	506.35	127.83	4.961		
17,900.00	12,018.82	17,542.23	11,715.44	104.84	103.71	-61.43	-5,707.91	-160.86	635.54	505.79	129.75	4.898		
18,000.00	12,015.33	17,642.22	11,711.96	106.34	105.22	-61.50	-5,807.83	-159.43	637.06	505.38	131.68	4.838		
18,100.00	12,011.84	17,742.20	11,708.47	107.84	106.74	-61.58	-5,907.74	-158.00	638.73	505.10	133.63	4.780		
18,200.00	12,008.35	17,842.18	11,704.99	109.34	108.26	-61.67	-6,007.64	-156.57	640.56	504.96	135.60	4.724		
18,300.00	12,004.86	17,942.15	11,701.50	110.85	109.78	-61.76	-6,107.55	-155.14	642.54	504.97	137.58	4.670		
18,400.00	12,001.36	18,042.12	11,698.02	112.37	111.31	-61.85	-6,207.45	-153.71	644.68	505.11	139.57	4.619		
18,500.00	11,997.87	18,142.09	11,694.53	113.88	112.84	-61.96	-6,307.34	-152.27	646.98	505.40	141.58	4.570		
18,600.00	11,994.38	18,242.05	11,691.05	115.40	114.37	-62.07	-6,407.23	-150.84	649.43	505.82	143.61	4.522		
18,700.00	11,990.89	18,342.01	11,687.57	116.93	115.91	-62.19	-6,507.12	-149.41	652.04	506.39	145.65	4.477		

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,800.00	11,987.40	18,441.96	11,684.08	118.45	117.45	-62.31	-6,607.00	-147.98	654.80	507.10	147.70	4.433		
18,900.00	11,983.91	18,541.91	11,680.60	119.98	118.99	-62.44	-6,706.87	-146.55	657.73	507.95	149.77	4.392		
19,000.00	11,980.42	18,641.85	11,677.11	121.51	120.53	-62.57	-6,806.74	-145.12	660.81	508.95	151.86	4.352		
19,100.00	11,976.94	18,741.78	11,673.63	123.05	122.08	-62.71	-6,906.60	-143.69	664.05	510.09	153.96	4.313		
19,197.68	11,973.53	18,839.39	11,670.23	124.55	123.60	-62.86	-7,004.15	-142.29	667.37	511.35	156.02	4.277		
19,200.00	11,973.45	18,841.71	11,670.15	124.58	123.63	-62.86	-7,006.46	-142.26	667.45	511.38	156.07	4.277		
19,300.00	11,969.96	18,941.63	11,666.67	126.12	125.18	-63.01	-7,106.31	-140.83	670.93	512.74	158.19	4.241		
19,400.00	11,966.47	19,041.55	11,663.18	127.67	126.74	-63.16	-7,206.16	-139.40	674.41	514.09	160.32	4.207		
19,500.00	11,962.98	19,141.48	11,659.70	129.21	128.30	-63.31	-7,306.02	-137.97	677.90	515.45	162.46	4.173		
19,600.00	11,959.49	19,241.40	11,656.22	130.76	129.86	-63.46	-7,405.87	-136.54	681.40	516.80	164.59	4.140		
19,700.00	11,956.00	19,341.32	11,652.74	132.31	131.42	-63.61	-7,505.72	-135.10	684.89	518.15	166.74	4.108		
19,800.00	11,952.51	19,441.25	11,649.25	133.86	132.98	-63.75	-7,605.58	-133.67	688.39	519.51	168.89	4.076		
19,900.00	11,949.02	19,541.17	11,645.77	135.41	134.55	-63.89	-7,705.43	-132.24	691.90	520.86	171.04	4.045		
20,000.00	11,945.53	19,641.09	11,642.29	136.97	136.12	-64.03	-7,805.28	-130.81	695.41	522.22	173.20	4.015		
20,100.00	11,942.04	19,741.02	11,638.80	138.53	137.69	-64.18	-7,905.13	-129.38	698.93	523.57	175.36	3.986		
20,200.00	11,938.55	19,840.94	11,635.32	140.09	139.26	-64.31	-8,004.99	-127.95	702.45	524.92	177.52	3.957		
20,300.00	11,935.06	19,940.87	11,631.84	141.65	140.83	-64.45	-8,104.84	-126.52	705.97	526.28	179.69	3.929		
20,400.00	11,931.57	20,040.79	11,628.36	143.21	142.41	-64.59	-8,204.69	-125.09	709.50	527.63	181.87	3.901		
20,500.00	11,928.08	20,140.71	11,624.87	144.78	143.99	-64.72	-8,304.54	-123.66	713.03	528.98	184.04	3.874		
20,600.00	11,924.59	20,240.64	11,621.39	146.35	145.57	-64.86	-8,404.40	-122.23	716.56	530.34	186.23	3.848		
20,700.00	11,921.10	20,340.56	11,617.91	147.91	147.15	-64.99	-8,504.25	-120.80	720.10	531.69	188.41	3.822		
20,800.00	11,917.61	20,440.48	11,614.43	149.48	148.73	-65.12	-8,604.10	-119.37	723.64	533.04	190.60	3.797		
20,900.00	11,914.12	20,540.41	11,610.94	151.06	150.31	-65.25	-8,703.95	-117.94	727.19	534.40	192.79	3.772		
21,000.00	11,910.63	20,640.33	11,607.46	152.63	151.90	-65.38	-8,803.81	-116.51	730.74	535.75	194.99	3.748		
21,100.00	11,907.14	20,740.25	11,603.98	154.20	153.48	-65.50	-8,903.66	-115.08	734.29	537.11	197.19	3.724		
21,200.00	11,903.65	20,840.18	11,600.50	155.78	155.07	-65.63	-9,003.51	-113.65	737.85	538.46	199.39	3.701		
21,300.00	11,900.16	20,940.10	11,597.01	157.36	156.66	-65.75	-9,103.37	-112.21	741.41	539.82	201.59	3.678		
21,400.00	11,896.68	21,040.03	11,593.53	158.94	158.25	-65.88	-9,203.22	-110.78	744.98	541.18	203.80	3.655		
21,500.00	11,893.19	21,139.95	11,590.05	160.52	159.84	-66.00	-9,303.07	-109.35	748.54	542.53	206.01	3.634		
21,600.00	11,889.70	21,239.87	11,586.56	162.10	161.43	-66.12	-9,402.92	-107.92	752.11	543.89	208.22	3.612		
21,700.00	11,886.21	21,339.80	11,583.08	163.68	163.03	-66.24	-9,502.78	-106.49	755.69	545.25	210.44	3.591		
21,800.00	11,882.72	21,439.72	11,579.60	165.27	164.62	-66.36	-9,602.63	-105.06	759.27	546.61	212.66	3.570		
21,900.00	11,879.23	21,539.64	11,576.12	166.85	166.22	-66.48	-9,702.48	-103.63	762.85	547.97	214.88	3.550		
22,000.00	11,875.74	21,639.57	11,572.63	168.44	167.81	-66.60	-9,802.33	-102.20	766.43	549.33	217.11	3.530		
22,100.00	11,872.25	21,739.49	11,569.15	170.02	169.41	-66.71	-9,902.19	-100.77	770.02	550.69	219.33	3.511		
22,200.00	11,868.76	21,839.41	11,565.67	171.61	171.01	-66.83	-10,002.04	-99.34	773.61	552.05	221.56	3.492		
22,300.00	11,865.27	21,939.34	11,562.19	173.20	172.61	-66.94	-10,101.89	-97.91	777.20	553.41	223.79	3.473		
22,400.00	11,861.78	22,039.26	11,558.70	174.79	174.14	-67.05	-10,201.74	-96.48	780.80	554.84	225.96	3.455		
22,410.02	11,861.43	22,049.27	11,558.35	174.94	174.28	-67.06	-10,211.75	-96.33	781.16	555.04	226.12	3.455 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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - County Fair Fed Com 701H - OH - OH		Offset Site Error:	0.00 usft
Survey Program: 35-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 22110-BLIND													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	179.49	-34.99	0.31	34.99							
100.00	100.00	99.76	99.76	0.13	0.24	179.70	-35.12	0.18	35.12	34.85	0.27	129.294				
200.00	200.00	199.52	199.51	0.48	0.60	-178.51	-35.60	-0.93	35.61	34.84	0.77	46.440				
300.00	300.00	299.76	299.74	0.84	0.95	-175.70	-35.89	-2.70	35.99	34.72	1.27	28.298				
400.00	400.00	399.84	399.77	1.20	1.31	-171.07	-35.71	-5.61	36.15	34.37	1.78	20.327				
500.00	500.00	499.73	499.61	1.56	1.67	-166.05	-35.46	-8.81	36.54	34.25	2.29	15.987				
600.00	600.00	599.76	599.57	1.92	2.03	-160.44	-34.84	-12.37	36.97	34.17	2.79	13.233				
700.00	700.00	699.69	699.43	2.28	2.40	-154.67	-34.04	-16.11	37.67	34.36	3.30	11.408				
800.00	800.00	799.47	799.10	2.63	2.76	-147.85	-33.11	-20.81	39.11	35.30	3.81	10.266				
900.00	900.00	899.33	898.83	2.99	3.12	-141.49	-32.28	-25.68	41.26	36.94	4.32	9.555				
1,000.00	1,000.00	998.94	998.32	3.35	3.49	-136.18	-31.82	-30.54	44.13	39.30	4.82	9.146				
1,100.00	1,100.00	1,099.00	1,098.24	3.71	3.85	-131.26	-31.40	-35.78	47.63	42.30	5.33	8.931				
1,200.00	1,200.00	1,199.41	1,198.57	4.07	4.22	-127.77	-30.92	-39.91	50.50	44.66	5.84	8.645				
1,300.00	1,300.00	1,299.54	1,298.64	4.43	4.51	-125.02	-30.27	-43.21	52.77	46.47	6.30	8.378				
1,400.00	1,400.00	1,399.47	1,398.51	4.79	4.70	-122.16	-29.29	-46.58	55.04	48.36	6.68	8.235				
1,500.00	1,499.99	1,498.38	1,497.28	5.14	4.78	-28.84	-27.50	-51.21	57.03	50.04	6.99	8.163				
1,600.00	1,599.91	1,596.75	1,595.24	5.48	4.86	-23.87	-24.04	-59.39	59.41	52.14	7.27	8.171				
1,700.00	1,699.69	1,695.99	1,693.80	5.83	4.97	-18.37	-19.48	-70.18	61.83	54.25	7.58	8.157				
1,800.00	1,799.27	1,796.05	1,793.14	6.18	5.12	-13.99	-15.10	-81.25	62.46	54.55	7.92	7.890				
1,900.00	1,898.57	1,895.91	1,892.34	6.54	5.29	-10.58	-11.13	-92.02	60.67	52.40	8.27	7.337				
1,940.67	1,938.86	1,936.58	1,932.74	6.69	5.36	-9.28	-9.55	-96.40	59.27	50.86	8.42	7.040				
2,000.00	1,997.60	1,995.90	1,991.68	6.91	5.48	-7.32	-7.25	-102.74	56.92	48.28	8.64	6.588				
2,100.00	2,096.60	2,095.79	2,090.93	7.28	5.70	-3.60	-3.33	-113.34	53.05	44.03	9.02	5.880				
2,200.00	2,195.60	2,195.82	2,190.34	7.66	5.93	0.64	0.55	-123.74	49.22	39.80	9.42	5.226				
2,300.00	2,294.60	2,295.75	2,289.68	8.05	6.18	5.58	4.42	-133.88	45.45	35.62	9.83	4.626				
2,400.00	2,393.60	2,395.63	2,388.97	8.44	6.44	11.64	8.47	-143.87	41.97	31.72	10.25	4.096				
2,500.00	2,492.60	2,495.58	2,488.36	8.83	6.72	19.06	12.69	-153.62	38.87	28.18	10.69	3.636				
2,600.00	2,591.60	2,595.53	2,587.78	9.22	7.00	28.18	17.04	-162.83	36.10	24.93	11.17	3.232				
2,700.00	2,690.60	2,695.28	2,687.05	9.62	7.29	39.49	21.79	-171.55	34.26	22.57	11.69	2.931				
2,761.96	2,751.94	2,757.05	2,748.50	9.87	7.48	47.43	24.98	-176.79	33.92	21.88	12.04	2.817 CC				
2,800.00	2,789.60	2,794.99	2,786.26	10.02	7.59	52.54	27.03	-179.90	34.05	21.78	12.27	2.775				
2,900.00	2,888.60	2,894.70	2,885.52	10.42	7.89	66.36	32.61	-187.54	35.60	22.72	12.88	2.764				
2,940.67	2,928.86	2,935.22	2,925.88	10.59	8.02	71.98	34.94	-190.36	36.76	23.63	13.13	2.800				
3,000.00	2,987.61	2,994.33	2,984.76	10.82	8.20	73.36	38.38	-194.24	38.59	25.11	13.48	2.863				
3,084.09	3,070.87	3,078.13	3,068.23	11.16	8.46	73.49	43.29	-199.78	40.70	26.75	13.95	2.918				
3,100.00	3,086.62	3,094.00	3,084.03	11.23	8.51	74.84	44.22	-200.99	41.03	27.00	14.03	2.924				
3,200.00	3,185.62	3,194.18	3,183.63	11.63	8.84	80.87	49.90	-210.09	43.23	28.66	14.57	2.966				
3,300.00	3,284.62	3,294.09	3,282.81	12.04	9.19	84.13	55.18	-220.94	45.15	30.04	15.11	2.988				
3,400.00	3,383.62	3,394.60	3,382.59	12.45	9.54	87.16	60.19	-231.91	46.90	31.25	15.65	2.996				
3,500.00	3,482.62	3,495.26	3,482.56	12.85	9.89	90.15	63.73	-243.13	47.30	31.11	16.19	2.922				
3,561.39	3,543.40	3,556.57	3,543.54	13.10	10.10	92.87	65.27	-249.37	47.19	30.68	16.51	2.859				
3,600.00	3,581.62	3,595.06	3,581.87	13.26	10.24	95.30	66.10	-252.71	47.25	30.55	16.70	2.829				
3,700.00	3,680.63	3,694.85	3,681.36	13.67	10.57	102.94	67.95	-260.19	48.09	30.92	17.17	2.801				
3,800.00	3,779.63	3,795.76	3,781.78	14.08	10.92	108.28	69.77	-269.86	48.52	30.88	17.63	2.751				
3,900.00	3,878.63	3,896.18	3,881.36	14.49	11.29	110.28	71.78	-282.68	47.57	29.43	18.14	2.622				
4,000.00	3,977.63	3,996.04	3,980.37	14.91	11.67	112.42	73.53	-295.55	46.42	27.77	18.65	2.489				
4,100.00	4,076.63	4,095.85	4,079.43	15.32	12.04	115.59	75.06	-307.63	45.69	26.56	19.13	2.388				
4,178.90	4,154.74	4,174.56	4,157.57	15.64	12.33	118.17	76.46	-316.97	45.48	25.97	19.51	2.332				
4,200.00	4,175.63	4,195.56	4,178.43	15.73	12.41	118.90	76.86	-319.39	45.50	25.90	19.61	2.321				
4,300.00	4,274.63	4,295.15	4,277.41	16.15	12.78	122.94	78.77	-330.16	46.29	26.24	20.05	2.308				
4,400.00	4,373.63	4,394.73	4,376.48	16.56	13.14	127.43	80.70	-340.09	47.97	27.50	20.47	2.343				
4,500.00	4,472.63	4,494.10	4,475.39	16.97	13.50	131.48	83.20	-349.29	50.84	29.95	20.89	2.433				

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - County Fair Fed Com 701H - OH - OH		Offset Site Error:	0.00 usft
Survey Program:													35-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 22110-BLIND		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				
4,600.00	4,571.63	4,593.55	4,574.40	17.39	13.86	134.53	86.67	-357.88	54.97	33.63	21.34	2.576				
4,700.00	4,670.63	4,693.81	4,674.20	17.80	14.23	136.56	90.82	-366.65	59.43	37.62	21.81	2.724				
4,800.00	4,769.64	4,794.25	4,774.10	18.22	14.60	138.34	94.46	-376.39	62.88	40.58	22.29	2.820				
4,900.00	4,868.64	4,894.19	4,873.45	18.64	14.98	139.70	98.14	-386.57	65.97	43.18	22.78	2.895				
5,000.00	4,967.64	4,994.06	4,972.71	19.05	15.36	140.60	102.26	-396.78	69.22	45.94	23.28	2.973				
5,100.00	5,066.64	5,093.99	5,072.01	19.47	15.74	141.17	106.67	-407.07	72.54	48.74	23.80	3.048				
5,200.00	5,165.64	5,193.62	5,171.03	19.89	16.12	141.66	111.18	-417.17	76.05	51.75	24.31	3.129				
5,300.00	5,264.64	5,293.16	5,270.02	20.30	16.49	142.42	115.47	-426.68	80.04	55.23	24.81	3.226				
5,400.00	5,363.64	5,393.13	5,369.48	20.72	16.87	143.32	119.56	-435.91	84.25	58.94	25.31	3.329				
5,500.00	5,462.64	5,493.13	5,468.97	21.14	17.24	144.30	123.38	-445.15	88.38	62.58	25.80	3.425				
5,600.00	5,561.64	5,592.98	5,568.34	21.56	17.62	145.38	126.91	-454.31	92.52	66.22	26.29	3.519				
5,700.00	5,660.64	5,692.96	5,667.86	21.98	17.99	146.55	130.18	-463.30	96.76	69.98	26.78	3.613				
5,800.00	5,759.64	5,793.86	5,768.16	22.39	18.38	146.90	134.48	-473.41	100.35	73.06	27.30	3.676				
5,900.00	5,858.65	5,894.13	5,867.66	22.81	18.77	146.43	139.90	-484.56	103.25	75.40	27.84	3.708				
6,000.00	5,957.65	5,993.63	5,966.44	23.23	19.16	146.15	145.06	-495.41	106.28	77.89	28.38	3.744				
6,100.00	6,056.65	6,092.99	6,065.19	23.65	19.55	146.45	149.33	-505.40	109.84	80.94	28.90	3.801				
6,200.00	6,155.65	6,192.66	6,164.36	24.07	19.93	147.17	152.93	-514.76	113.84	84.44	29.40	3.872				
6,300.00	6,254.65	6,292.57	6,263.78	24.49	20.31	147.95	156.34	-524.05	117.88	87.99	29.89	3.943				
6,400.00	6,353.65	6,392.29	6,363.03	24.91	20.68	148.77	159.58	-533.21	122.01	91.63	30.39	4.015				
6,500.00	6,452.65	6,491.73	6,462.02	25.33	21.06	149.56	162.80	-542.08	126.42	95.54	30.88	4.094				
6,600.00	6,551.65	6,591.39	6,561.26	25.75	21.43	150.40	165.90	-550.60	131.19	99.82	31.37	4.182				
6,700.00	6,650.65	6,693.62	6,663.00	26.17	21.82	151.02	169.37	-560.03	135.38	103.50	31.88	4.246				
6,800.00	6,749.65	6,795.29	6,763.94	26.59	22.23	151.15	173.40	-571.46	137.75	105.34	32.41	4.251				
6,900.00	6,848.65	6,893.58	6,861.53	27.01	22.61	151.37	177.07	-582.49	140.08	107.16	32.92	4.255				
6,988.64	6,936.41	6,978.22	6,945.83	27.38	22.93	152.35	178.68	-589.89	143.95	110.63	33.32	4.320				
7,000.00	6,947.66	6,989.01	6,956.59	27.43	22.97	152.58	178.67	-590.61	144.62	111.25	33.37	4.334				
7,100.00	7,046.87	7,086.64	7,054.08	27.84	23.31	154.61	177.93	-595.99	150.30	116.52	33.78	4.450				
7,200.00	7,146.37	7,184.00	7,151.32	28.23	23.64	156.20	177.07	-600.50	154.62	120.43	34.19	4.523				
7,300.00	7,246.11	7,280.52	7,247.80	28.60	23.95	157.31	176.53	-603.18	158.52	123.93	34.59	4.583				
7,400.00	7,345.99	7,379.36	7,346.63	28.95	24.27	158.01	176.29	-603.97	162.03	127.00	35.03	4.625				
7,500.00	7,445.97	7,479.82	7,447.10	29.29	24.58	158.36	176.01	-604.65	163.25	127.74	35.51	4.597				
7,529.03	7,475.00	7,508.74	7,476.01	29.38	24.67	83.69	175.91	-604.87	163.12	127.48	35.65	4.576				
7,600.00	7,545.97	7,579.43	7,546.70	29.61	24.90	83.77	175.64	-605.30	162.66	126.69	35.97	4.522				
7,700.00	7,645.97	7,679.14	7,646.41	29.92	25.20	83.95	175.09	-605.72	162.19	125.76	36.43	4.452				
7,800.00	7,745.97	7,778.82	7,746.08	30.24	25.51	84.21	174.32	-605.98	161.85	124.97	36.88	4.388				
7,838.13	7,784.10	7,816.64	7,783.90	30.36	25.62	84.32	174.01	-605.98	161.81	124.76	37.05	4.367				
7,900.00	7,845.97	7,877.92	7,845.18	30.56	25.80	84.52	173.47	-605.82	161.92	124.60	37.32	4.339				
8,000.00	7,945.97	7,976.97	7,944.22	30.88	26.09	84.91	172.41	-605.05	162.60	124.85	37.75	4.308				
8,100.00	8,045.97	8,076.41	8,043.64	31.20	26.37	85.42	171.09	-603.78	163.76	125.58	38.18	4.289				
8,200.00	8,145.97	8,176.27	8,143.48	31.52	26.66	85.97	169.60	-602.30	165.12	126.50	38.62	4.276				
8,300.00	8,245.97	8,276.31	8,243.49	31.84	26.95	86.58	167.92	-600.81	166.50	127.44	39.07	4.262				
8,400.00	8,345.97	8,376.52	8,343.68	32.17	27.24	87.23	166.11	-599.39	167.82	128.30	39.52	4.247				
8,500.00	8,445.97	8,476.74	8,443.88	32.49	27.54	87.91	164.17	-598.13	169.00	129.02	39.97	4.228				
8,600.00	8,545.97	8,577.55	8,544.67	32.82	27.84	88.29	163.07	-597.15	169.93	129.48	40.45	4.201				
8,700.00	8,645.97	8,677.87	8,644.99	33.14	28.15	88.23	163.28	-596.65	170.44	129.51	40.93	4.164				
8,800.00	8,745.97	8,778.03	8,745.15	33.47	28.46	88.07	163.77	-596.25	170.85	129.44	41.41	4.126				
8,900.00	8,845.97	8,878.38	8,845.50	33.79	28.77	87.98	164.03	-596.00	171.11	129.22	41.89	4.085				
9,000.00	8,945.97	8,979.03	8,946.15	34.12	29.09	88.01	163.93	-596.03	171.07	128.69	42.38	4.037				
9,100.00	9,045.97	9,079.20	9,046.31	34.45	29.41	88.35	162.93	-596.26	170.82	127.96	42.85	3.986				
9,200.00	9,145.97	9,179.91	9,147.00	34.78	29.73	89.04	160.87	-596.74	170.29	126.96	43.33	3.930				
9,300.00	9,245.97	9,280.75	9,247.81	35.11	30.05	89.67	158.96	-597.64	169.37	125.56	43.81	3.866				
9,400.00	9,345.97	9,380.25	9,347.28	35.44	30.38	90.31	157.10	-599.12	167.89	123.62	44.28	3.792				

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - County Fair Fed Com 701H - OH - OH		Offset Site Error:	0.00 usft
Survey Program:													35-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 22110-BLIND		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				
9,428.13	9,374.10	9,406.85	9,373.88	35.53	30.46	90.41	156.81	-599.24	167.77	123.39	44.38	3.780				
9,500.00	9,445.97	9,476.23	9,443.26	35.77	30.68	90.42	156.77	-598.54	168.48	123.82	44.66	3.772				
9,600.00	9,545.97	9,576.27	9,543.29	36.10	30.99	90.39	156.85	-596.93	170.09	124.95	45.14	3.768				
9,700.00	9,645.97	9,677.32	9,644.34	36.43	31.30	90.50	156.51	-595.83	171.18	125.55	45.64	3.751				
9,800.00	9,745.97	9,777.79	9,744.80	36.76	31.61	90.78	155.67	-595.15	171.86	125.75	46.12	3.727				
9,900.00	9,845.97	9,877.57	9,844.57	37.09	31.92	91.14	154.57	-594.62	172.42	125.84	46.59	3.701				
10,000.00	9,945.97	9,977.44	9,944.43	37.42	32.24	91.18	154.42	-593.82	173.22	126.16	47.06	3.681				
10,100.00	10,045.97	10,078.19	10,045.17	37.76	32.56	91.82	152.47	-593.25	173.84	126.29	47.55	3.656				
10,200.00	10,145.97	10,179.66	10,146.63	38.09	32.89	92.16	151.44	-593.33	173.80	125.74	48.06	3.617				
10,300.00	10,245.97	10,279.72	10,246.68	38.43	33.23	92.14	151.54	-593.93	173.19	124.64	48.55	3.567				
10,400.00	10,345.97	10,379.08	10,346.04	38.76	33.56	92.23	151.27	-594.30	172.83	123.81	49.02	3.526				
10,422.60	10,368.56	10,401.40	10,368.36	38.84	33.63	92.31	151.04	-594.33	172.81	123.69	49.12	3.518				
10,500.00	10,445.97	10,477.51	10,444.46	39.09	33.87	92.69	149.88	-594.09	173.10	123.64	49.47	3.499				
10,600.00	10,545.97	10,581.28	10,548.22	39.43	34.22	93.03	148.85	-594.41	172.85	122.83	50.02	3.456				
10,700.00	10,645.97	10,682.31	10,649.24	39.77	34.56	93.07	148.84	-596.21	171.07	120.54	50.53	3.385				
10,800.00	10,745.97	10,781.91	10,748.81	40.10	34.91	93.43	147.86	-598.02	169.31	118.30	51.01	3.319				
10,900.00	10,845.97	10,884.44	10,851.30	40.44	35.26	93.39	148.16	-600.81	166.57	115.03	51.54	3.232				
11,000.00	10,945.97	10,982.89	10,949.70	40.78	35.61	93.34	148.47	-603.93	163.39	111.38	52.02	3.141				
11,100.00	11,045.97	11,079.28	11,046.09	41.11	35.93	93.45	148.24	-604.90	162.39	109.95	52.44	3.097				
11,200.00	11,145.97	11,179.33	11,146.12	41.45	36.26	93.93	146.88	-605.14	162.25	109.32	52.92	3.066				
11,300.00	11,245.97	11,280.21	11,246.96	41.79	36.60	94.91	144.15	-605.78	161.82	108.40	53.42	3.029				
11,400.00	11,345.97	11,381.60	11,348.27	42.13	36.93	96.28	140.43	-607.30	160.69	106.76	53.92	2.980				
11,500.00	11,445.97	11,482.90	11,449.41	42.46	37.28	98.17	135.46	-609.90	158.75	104.32	54.42	2.917				
11,600.00	11,545.97	11,583.56	11,549.93	42.80	37.62	99.95	131.03	-613.21	156.19	101.27	54.92	2.844				
11,685.03	11,631.00	11,668.77	11,634.81	43.09	37.91	102.48	124.76	-616.83	153.86	98.52	55.34	2.780				
11,700.00	11,645.97	11,682.64	11,648.56	43.14	37.96	-76.46	123.10	-617.52	153.48	98.09	55.39	2.771				
11,750.00	11,695.83	11,729.58	11,694.91	43.30	38.11	-75.00	116.02	-619.54	152.33	96.76	55.56	2.742				
11,800.00	11,745.20	11,777.50	11,741.73	43.45	38.26	-74.02	106.07	-621.58	150.88	95.14	55.73	2.707				
11,850.00	11,793.70	11,823.91	11,786.26	43.59	38.41	-73.32	93.23	-623.76	149.03	93.19	55.83	2.669				
11,900.00	11,840.96	11,867.33	11,826.56	43.72	38.53	-72.48	77.18	-625.46	147.70	91.96	55.74	2.650				
11,927.03	11,865.87	11,890.03	11,846.98	43.79	38.59	-71.99	67.28	-625.93	147.50	91.89	55.60	2.653				
11,950.00	11,886.62	11,909.61	11,864.19	43.85	38.64	-71.56	57.95	-626.08	147.63	92.15	55.48	2.661				
12,000.00	11,930.34	11,953.30	11,901.11	43.96	38.73	-70.56	34.62	-625.84	148.60	93.40	55.20	2.692				
12,050.00	11,971.78	12,000.05	11,938.72	44.07	38.83	-69.80	6.88	-625.20	149.71	94.59	55.12	2.716				
12,100.00	12,010.63	12,048.23	11,975.50	44.16	38.92	-69.39	-24.23	-624.91	150.10	94.95	55.15	2.722				
12,150.00	12,046.59	12,094.44	12,008.32	44.24	39.00	-69.14	-56.75	-625.03	149.93	94.88	55.04	2.724				
12,188.61	12,072.20	12,128.50	12,030.65	44.30	39.05	-68.99	-82.45	-625.10	149.76	94.92	54.84	2.731				
12,200.00	12,079.38	12,138.41	12,036.81	44.32	39.07	-68.94	-90.22	-625.06	149.77	95.00	54.78	2.734				
12,250.00	12,108.76	12,179.31	12,060.54	44.39	39.13	-68.79	-123.51	-624.27	150.53	96.19	54.34	2.770				
12,300.00	12,134.51	12,221.15	12,081.81	44.45	39.18	-68.76	-159.44	-622.02	152.79	98.73	54.06	2.826				
12,350.00	12,156.42	12,267.23	12,101.54	44.51	39.24	-68.70	-200.96	-619.09	155.56	101.48	54.08	2.876				
12,400.00	12,174.34	12,313.22	12,118.50	44.57	39.31	-68.97	-243.64	-616.54	157.57	103.37	54.20	2.907				
12,450.00	12,188.12	12,357.67	12,132.42	44.64	39.39	-69.72	-285.72	-613.42	159.76	105.33	54.43	2.935				
12,500.00	12,197.66	12,401.36	12,142.25	44.72	39.48	-70.33	-328.15	-610.26	162.18	107.50	54.68	2.966				
12,550.00	12,202.89	12,449.15	12,147.41	44.81	39.60	-70.51	-375.52	-606.95	164.96	110.04	54.92	3.004				
12,600.00	12,203.76	12,503.47	12,147.98	44.92	39.76	-70.40	-429.81	-605.95	165.53	110.42	55.11	3.004				
12,605.03	12,203.61	12,508.94	12,147.96	44.93	39.78	-70.45	-435.29	-605.97	165.43	110.29	55.14	3.000				
12,700.00	12,200.29	12,610.27	12,147.37	45.19	40.16	-70.99	-536.56	-608.81	161.20	105.49	55.71	2.894				
12,800.00	12,196.80	12,712.55	12,151.13	45.53	40.62	-72.93	-638.67	-613.22	154.04	97.29	56.75	2.714				
12,900.00	12,193.31	12,807.80	12,155.61	45.94	41.11	-75.33	-733.75	-616.75	147.41	89.53	57.88	2.547				
13,000.00	12,189.82	12,902.76	12,156.36	46.41	41.63	-76.74	-828.68	-617.36	144.90	86.11	58.79	2.465				
13,100.00	12,186.33	13,001.92	12,154.71	46.94	42.23	-77.44	-927.83	-616.46	144.51	84.84	59.68	2.422				

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
County Fair/Blue Ribbon - County Fair Fed Com 701H - OH - OH													Offset Well Error:	0.00 usft
Survey Program: 35-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 22110-BLIND														
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		
13,134.22	12,185.14	13,035.58	12,154.64	47.14	42.45	-77.88	-961.49	-616.05	144.40	84.35	60.04	2.405		
13,200.00	12,182.84	13,098.50	12,152.49	47.52	42.87	-77.95	-1,024.35	-614.85	145.05	84.54	60.52	2.397		
13,300.00	12,179.36	13,196.68	12,144.08	48.15	43.57	-76.19	-1,122.13	-612.37	147.80	86.94	60.86	2.428		
13,400.00	12,175.87	13,299.74	12,132.03	48.84	44.36	-73.07	-1,224.47	-611.21	150.25	89.32	60.93	2.466		
13,500.00	12,172.38	13,399.84	12,120.42	49.56	45.19	-70.00	-1,323.90	-611.55	151.68	90.86	60.82	2.494		
13,600.00	12,168.89	13,498.06	12,108.64	50.33	46.04	-66.97	-1,421.41	-611.46	154.09	93.51	60.58	2.544		
13,700.00	12,165.40	13,599.98	12,098.64	51.15	46.96	-64.76	-1,522.82	-610.83	156.45	95.71	60.73	2.576		
13,800.00	12,161.91	13,700.49	12,092.76	52.00	47.90	-64.05	-1,623.15	-609.55	157.84	96.36	61.48	2.567		
13,900.00	12,158.42	13,801.77	12,087.86	52.89	48.88	-63.79	-1,724.29	-607.47	159.50	97.00	62.50	2.552		
13,977.75	12,155.70	13,880.65	12,087.43	53.61	49.66	-64.68	-1,803.15	-605.93	159.25	95.43	63.81	2.495		
14,000.00	12,154.93	13,901.76	12,087.29	53.82	49.88	-64.93	-1,824.25	-605.38	159.33	95.18	64.14	2.484		
14,100.00	12,151.44	13,998.55	12,085.13	54.78	50.87	-65.72	-1,920.94	-601.87	161.30	95.71	65.59	2.459		
14,200.00	12,147.95	14,096.87	12,083.03	55.77	51.91	-66.73	-2,019.12	-596.94	164.55	97.28	67.27	2.446		
14,300.00	12,144.46	14,196.38	12,083.31	56.79	52.99	-68.69	-2,118.39	-590.18	168.61	99.10	69.51	2.426		
14,400.00	12,140.97	14,301.93	12,083.86	57.84	54.17	-70.59	-2,223.78	-584.45	171.51	99.46	72.05	2.380		
14,500.00	12,137.48	14,408.80	12,084.43	58.92	55.40	-71.98	-2,330.61	-583.25	170.45	96.03	74.42	2.290		
14,600.00	12,133.99	14,505.99	12,081.63	60.03	56.54	-71.95	-2,427.75	-584.51	168.21	92.51	75.70	2.222		
14,700.00	12,130.50	14,604.77	12,078.24	61.16	57.73	-71.88	-2,526.47	-584.55	167.32	90.25	77.06	2.171		
14,800.00	12,127.01	14,708.96	12,075.18	62.31	59.00	-71.85	-2,630.61	-585.70	165.27	86.53	78.74	2.099		
14,900.00	12,123.52	14,810.04	12,074.80	63.48	60.26	-72.57	-2,731.66	-587.85	161.46	80.82	80.64	2.002		
15,000.00	12,120.03	14,910.70	12,075.20	64.68	61.52	-73.64	-2,832.31	-589.54	157.89	75.14	82.75	1.908		
15,100.00	12,116.54	15,012.66	12,075.67	65.89	62.82	-74.59	-2,934.18	-593.49	152.23	67.39	84.84	1.794		
15,200.00	12,113.05	15,110.77	12,077.26	67.13	64.09	-76.09	-3,032.23	-596.26	147.35	60.29	87.06	1.693		
15,300.00	12,109.56	15,209.80	12,080.78	68.38	65.39	-78.56	-3,131.18	-597.94	143.29	53.44	89.84	1.595		
15,400.00	12,106.07	15,309.53	12,084.92	69.65	66.72	-81.45	-3,230.82	-599.12	139.93	47.10	92.83	1.507		
15,500.00	12,102.58	15,414.69	12,086.01	70.93	68.12	-83.17	-3,335.91	-602.54	135.27	39.59	95.67	1.414 Level 3		
15,600.00	12,099.09	15,517.16	12,087.34	72.23	69.50	-84.93	-3,438.11	-609.86	126.78	28.54	98.24	1.291 Level 3		
15,700.00	12,095.60	15,615.48	12,091.22	73.54	70.85	-88.12	-3,536.04	-617.22	117.97	17.02	100.95	1.169 Level 2		
15,800.00	12,092.11	15,713.17	12,101.16	74.86	72.20	-94.88	-3,633.04	-623.11	111.36	8.23	103.13	1.080 Level 2		
15,900.00	12,088.62	15,811.70	12,111.29	76.20	73.57	-102.40	-3,730.90	-628.41	107.19	5.51	101.69	1.054 Level 2, ES, SF		
15,946.24	12,087.00	15,855.14	12,115.61	76.83	74.18	-105.71	-3,774.09	-630.17	106.49	6.97	99.53	1.070 Level 2		
16,000.00	12,085.13	15,905.69	12,120.99	77.55	74.89	-109.57	-3,824.34	-631.07	107.44	10.75	96.70	1.111 Level 2		
16,100.00	12,081.64	16,002.37	12,130.50	78.91	76.26	-115.67	-3,920.54	-629.83	112.97	20.00	92.97	1.215 Level 2		
16,200.00	12,078.15	16,106.02	12,133.81	80.28	77.73	-118.29	-4,024.06	-626.92	117.71	24.21	93.50	1.259 Level 3		
16,300.00	12,074.66	16,199.09	12,136.69	81.67	79.06	-119.93	-4,116.95	-622.25	124.53	31.92	92.61	1.345 Level 3		
16,400.00	12,071.17	16,294.62	12,146.04	83.06	80.43	-123.54	-4,211.82	-616.44	135.97	44.99	90.98	1.495 Level 3		
16,500.00	12,067.68	16,396.94	12,151.88	84.46	81.90	-124.88	-4,313.55	-607.59	147.58	54.93	92.65	1.593		
16,600.00	12,064.19	16,498.86	12,151.40	85.87	83.38	-123.66	-4,414.85	-596.48	157.57	61.29	96.28	1.637		
16,700.00	12,060.70	16,604.01	12,149.83	87.29	84.90	-122.65	-4,519.58	-587.21	165.33	65.26	100.06	1.652		
16,800.00	12,057.21	16,708.71	12,146.83	88.72	86.44	-122.02	-4,624.09	-581.79	169.28	66.19	103.09	1.642		
16,900.00	12,053.72	16,807.67	12,145.45	90.15	87.90	-122.24	-4,722.98	-578.87	172.16	67.82	104.34	1.650		
17,000.00	12,050.23	16,905.75	12,148.88	91.59	89.35	-124.04	-4,820.99	-577.56	176.37	72.49	103.89	1.698		
17,100.00	12,046.74	17,006.15	12,153.06	93.04	90.84	-125.99	-4,921.30	-576.31	181.07	77.48	103.59	1.748		
17,200.00	12,043.25	17,104.80	12,158.29	94.49	92.31	-128.28	-5,019.81	-576.11	185.86	83.26	102.60	1.811		
17,279.03	12,040.49	17,181.65	12,163.12	95.65	93.47	-130.11	-5,096.50	-575.74	190.51	88.87	101.64	1.874		
17,300.00	12,039.76	17,201.99	12,164.48	95.96	93.77	-130.58	-5,116.80	-575.54	191.92	90.50	101.41	1.892		
17,400.00	12,036.27	17,302.72	12,171.25	97.42	95.29	-132.82	-5,217.29	-574.71	198.78	98.02	100.75	1.973		
17,500.00	12,032.78	17,397.00	12,178.87	98.90	96.71	-135.01	-5,311.26	-573.98	206.97	107.62	99.35	2.083		
17,600.00	12,029.29	17,490.00	12,190.04	100.37	98.12	-137.38	-5,403.55	-571.96	219.34	121.57	97.77	2.243		
17,700.00	12,025.80	17,572.74	12,205.37	101.86	99.37	-140.22	-5,484.82	-570.65	236.76	142.20	94.56	2.504		
17,800.00	12,022.31	17,668.67	12,226.54	103.35	100.82	-143.53	-5,578.36	-569.12	257.96	165.21	92.75	2.781		
17,900.00	12,018.82	17,788.13	12,244.86	104.84	102.64	-145.34	-5,696.21	-563.35	276.28	181.55	94.73	2.916		

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - County Fair Fed Com 701H - OH - OH		Offset Site Error:	0.00 usft
Survey Program:													35-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 22110-BLIND		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				
18,000.00	12,015.33	17,911.80	12,249.08	106.34	104.53	-145.20	-5,819.58	-556.97	284.85	186.64	98.21	2.900				
18,100.00	12,011.84	18,012.80	12,247.59	107.84	106.07	-144.55	-5,920.44	-552.01	289.59	189.23	100.36	2.886				
18,200.00	12,008.35	18,120.03	12,245.71	109.34	107.72	-143.76	-6,027.51	-546.40	294.49	191.40	103.10	2.856				
18,300.00	12,004.86	18,225.79	12,241.56	110.85	109.35	-143.18	-6,133.15	-543.91	296.01	190.62	105.39	2.809				
18,400.00	12,001.36	18,338.21	12,234.68	112.37	111.08	-142.46	-6,245.34	-542.68	295.20	187.14	108.06	2.732				
18,482.99	11,998.47	18,412.41	12,231.16	113.62	112.22	-142.41	-6,319.45	-543.93	294.09	185.37	108.72	2.705				
18,500.00	11,997.87	18,428.07	12,230.78	113.88	112.46	-142.45	-6,335.09	-544.28	294.13	185.33	108.80	2.703				
18,600.00	11,994.38	18,530.16	12,228.04	115.40	114.03	-142.66	-6,437.13	-546.39	294.33	184.45	109.88	2.679				
18,700.00	11,990.89	18,632.48	12,223.61	116.93	115.62	-142.53	-6,539.34	-547.81	293.74	182.38	111.36	2.638				
18,782.95	11,988.00	18,713.32	12,220.33	118.19	116.87	-142.49	-6,620.10	-549.27	293.30	180.99	112.31	2.611				
18,800.00	11,987.40	18,728.21	12,219.93	118.45	117.10	-142.52	-6,634.98	-549.60	293.37	180.98	112.38	2.610				
18,900.00	11,983.91	18,817.15	12,220.14	119.98	118.48	-142.91	-6,723.89	-551.28	296.29	183.75	112.54	2.633				
19,000.00	11,980.42	18,917.82	12,222.17	121.51	120.04	-143.39	-6,824.54	-552.32	301.31	187.96	113.35	2.658				
19,100.00	11,976.94	19,016.99	12,221.43	123.05	121.59	-143.48	-6,923.70	-553.08	304.39	189.88	114.51	2.658				
19,197.68	11,973.53	19,092.85	12,224.82	124.55	122.77	-143.66	-6,999.44	-551.62	313.01	198.88	114.14	2.742				
19,200.00	11,973.45	19,095.25	12,224.99	124.58	122.81	-143.66	-7,001.83	-551.54	313.29	199.12	114.17	2.744				
19,300.00	11,969.96	19,194.74	12,231.09	126.12	124.37	-143.81	-7,101.07	-548.02	324.59	209.01	115.58	2.808				
19,400.00	11,966.47	19,283.94	12,237.96	127.67	125.77	-143.81	-7,189.86	-542.88	338.39	222.01	116.39	2.907				
19,500.00	11,962.98	19,387.70	12,244.37	129.21	127.41	-143.58	-7,293.21	-536.41	351.27	232.52	118.75	2.958				
19,600.00	11,959.49	19,478.96	12,251.73	130.76	128.85	-143.24	-7,383.80	-528.25	367.20	246.91	120.28	3.053				
19,700.00	11,956.00	19,518.37	12,255.88	132.31	131.04	-142.93	-7,522.96	-522.38	375.98	250.89	125.09	3.006				
19,800.00	11,952.51	19,732.71	12,253.34	133.86	132.84	-142.65	-7,637.26	-521.86	378.74	251.20	127.53	2.970				
19,900.00	11,949.02	19,834.34	12,248.88	135.41	134.44	-142.29	-7,738.78	-522.01	379.44	249.96	129.47	2.931				
20,000.00	11,945.53	19,925.79	12,246.03	136.97	135.88	-142.04	-7,830.18	-521.98	381.27	250.43	130.84	2.914				
20,100.00	11,942.04	20,031.21	12,243.55	138.53	137.54	-141.99	-7,935.57	-523.23	382.93	250.43	132.50	2.890				
20,200.00	11,938.55	20,117.74	12,244.15	140.09	138.91	-142.32	-8,022.05	-525.31	386.26	253.54	132.72	2.910				
20,300.00	11,935.06	20,216.98	12,246.87	141.65	140.47	-142.85	-8,121.24	-527.54	391.35	258.08	133.27	2.937				
20,400.00	11,931.57	20,316.95	12,248.84	143.21	142.06	-143.22	-8,221.17	-529.11	396.26	262.17	134.09	2.955				
20,500.00	11,928.08	20,411.37	12,251.82	144.78	143.55	-143.65	-8,315.53	-530.51	402.19	267.65	134.53	2.990				
20,600.00	11,924.59	20,510.66	12,255.08	146.35	145.13	-144.00	-8,414.77	-531.15	408.73	273.35	135.38	3.019				
20,700.00	11,921.10	20,611.34	12,259.30	147.91	146.72	-144.56	-8,515.34	-533.00	415.33	279.37	135.96	3.055				
20,800.00	11,917.61	20,715.02	12,262.75	149.48	148.37	-145.04	-8,618.95	-534.86	421.30	284.51	136.79	3.080				
20,900.00	11,914.12	20,814.70	12,266.94	151.06	149.95	-145.82	-8,718.44	-539.11	426.62	289.76	136.86	3.117				
21,000.00	11,910.63	20,912.33	12,269.70	152.63	151.50	-146.16	-8,816.02	-540.39	432.52	294.93	137.59	3.143				
21,100.00	11,907.14	21,009.16	12,271.78	154.20	153.04	-146.24	-8,912.83	-539.85	438.89	300.17	138.72	3.164				
21,200.00	11,903.65	21,120.49	12,273.36	155.78	154.82	-146.21	-9,024.14	-538.72	444.97	304.23	140.74	3.162				
21,300.00	11,900.16	21,211.37	12,273.77	157.36	156.27	-146.21	-9,115.01	-538.55	449.76	308.08	141.68	3.174				
21,400.00	11,896.68	21,313.30	12,274.87	158.94	157.89	-146.06	-9,216.91	-536.53	456.04	312.58	143.47	3.179				
21,500.00	11,893.19	21,394.11	12,276.16	160.52	159.19	-145.85	-9,297.66	-533.73	463.63	319.41	144.22	3.215				
21,600.00	11,889.70	21,487.05	12,279.76	162.10	160.68	-145.51	-9,390.35	-527.99	474.55	328.60	145.94	3.252				
21,700.00	11,886.21	21,612.10	12,283.56	163.68	162.69	-145.34	-9,515.24	-523.75	483.27	334.05	149.22	3.239				
21,800.00	11,882.72	21,714.37	12,284.88	165.27	164.32	-145.42	-9,617.50	-523.73	488.62	338.01	150.61	3.244				
21,900.00	11,879.23	21,805.34	12,287.55	166.85	165.78	-145.63	-9,708.42	-524.22	495.01	343.81	151.20	3.274				
22,000.00	11,875.74	21,901.07	12,291.91	168.44	167.32	-145.93	-9,804.06	-524.53	502.86	350.97	151.88	3.311				
22,100.00	11,872.25	22,000.96	12,294.70	170.02	168.92	-145.91	-9,903.88	-522.49	510.58	357.18	153.40	3.328				
22,200.00	11,868.76	22,095.83	12,297.75	171.61	175.36	-145.82	-9,998.66	-519.57	519.24	362.71	156.53	3.317				
22,300.00	11,865.27	22,110.00	12,298.25	173.20	177.21	-145.81	-10,012.81	-519.13	535.02	382.57	152.45	3.510				
22,400.00	11,861.78	22,110.00	12,298.25	174.79	177.21	-145.81	-10,012.81	-519.13	568.05	424.56	143.50	3.959				
22,410.02	11,861.43	22,110.00	12,298.25	174.94	177.21	-145.81	-10,012.81	-519.13	572.22	427.92	144.31	3.965				

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 County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	County Fair Fed Com 701H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3246.2' GE + 30' KB @ 3276.20usft

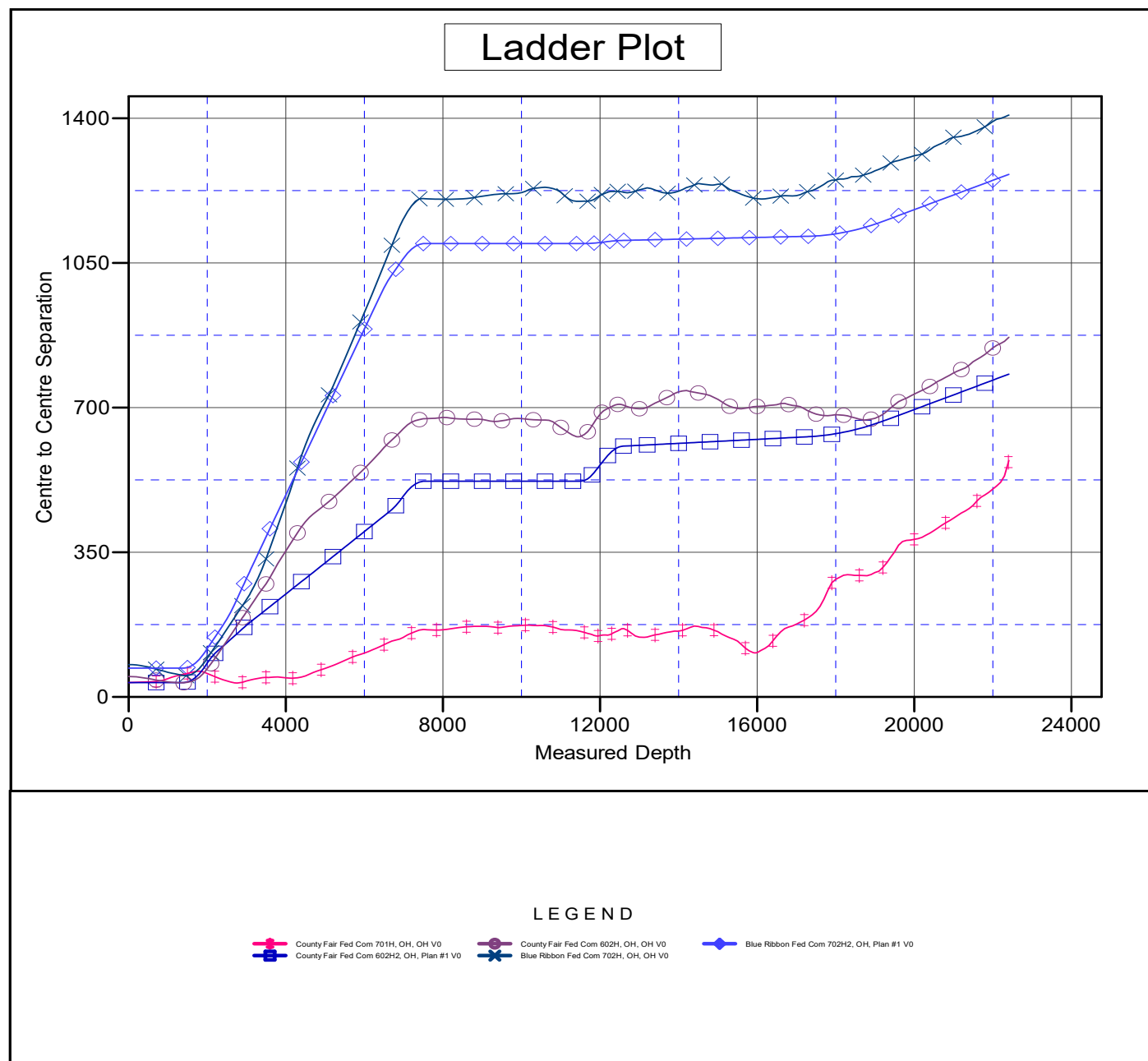
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

Coordinates are relative to: County Fair Fed Com 701H2

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

Grid Convergence at Surface is: 0.53°



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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well County Fair Fed Com 701H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
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Offset Depths are relative to Offset Datum

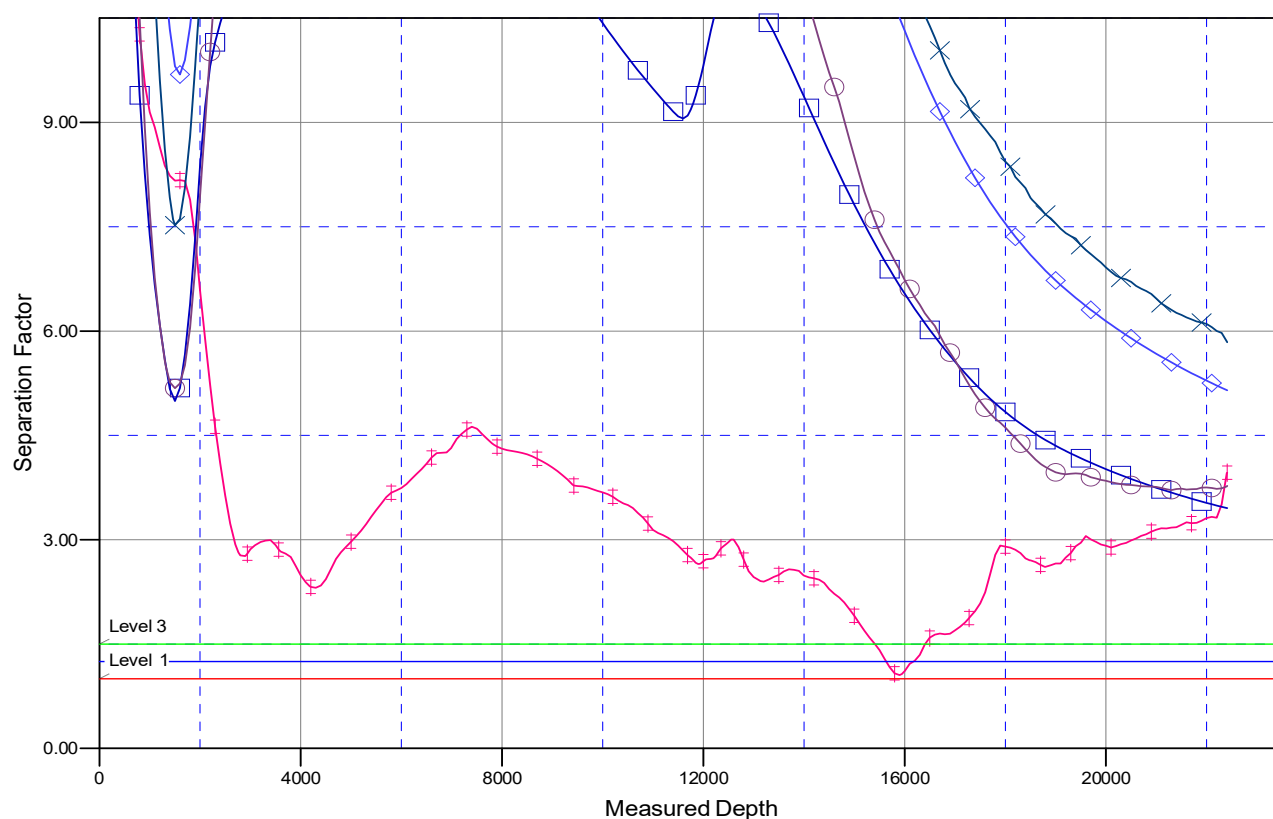
Central Meridian is -104.333334

Coordinates are relative to: County Fair Fed Com 701H2

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

Grid Convergence at Surface is: 0.53°

Separation Factor Plot



LEGEND



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

FRANKLIN MOUNTAIN ENERGY



Geologic Prognosis

Well Name	County Fair Fed Com 701H
Operator	Franklin Mountain Energy, LLC
Project Area	Carnival Wells
Well Type	10,000' Wolfcamp Lateral
API	
Permit Number	
Rig	

State	NM	County	Lea						
SHL	Township	25S/35E	Section	2	1,285'	FWL	215'	FNL	
BHL	Township	25S/35E	Section	11	380'	FWL	150'	FSL	
Surface Latitude	NAD 83		32.166132						
Surface Longitude	NAD 83		103.342695						
Bottom Hole Latitude	NAD 83		32.138028						
Bottom Hole Longitude	NAD 83		103.342695						
Ground Level	3,246'		Rig KB	30'	KB	3,276'			

Formations	PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
Cenozoic Alluvium (surface)	3,246'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2,417'	859'			Carbonates
Salado	1,593'	1,683'			Salt, Carbonate & Clastics
Base Salt	-455'	3,731'			Shaley Carbonate & Shale
Lamar	-1,847'	5,123'			Carbonate & Clastics
Bell Canyon	-1,961'	5,237'			Sandstone - oil/gas/water
Cherry Canyon	-2,853'	6,129'			Sandstone - oil/gas/water
Brushy Canyon	-4,207'	7,483'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,602'	8,878'			Shale/Carbonates - oil/gas
Avalon	-5,643'	8,919'			Shale/Carbonates - oil/gas
Chert Zone	-5,836'	9,112'			Carbonate/Chert
First Bone Spring Sand	-6,797'	10,073'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-6,886'	10,162'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7,340'	10,616'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-7,903'	11,179'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-8,526'	11,802'			Sandstone - oil/gas/water
Wolfcamp	-8,756'	12,032'			Overpressure shale/sand- Oil/Gas
Wolfcamp A	-8,800'	12,076'			Overpressure Shale - Oil/Gas
HZ Target	-8,970'	12,246'			Overpressure Shale - Oil/Gas
Wolfcamp B	-8,990'	12,266'			Overpressure Shale - Oil/Gas

Target interval dips are variable along the lateral, but expected to have an average apparent dip of 2 degrees up at landing

Target window tolerance is set at +/- 15'

Target Line: 12220' KBTVD @ 0' VS w/ 92.0° inc.

Offset Log: Reno Com-1 (300252686700)

8/19/2021

FME Geologist	Ben Kessel		bkessel@fmellc.com	
	Office	720.414.7868	Cell	303.868.9946
FME Engineer				
Electric Logs			From	To
Open-Hole				
	n/a			
MWD/LWD				
	MWD GR		Int. 1 Csg. Point	TD
Mud Log:				
Start logging at drill out of surface casing				
Sampling:	10' samples in vertical and through curve, 30' samples in lateral			
Samples:	1 set dry samples at footage frequency noted above			
Mud Gas:	Continuous			
Daily Contact:	Email distribution of mud log/daily report at 7:30am and 4:30 pm CST			
Daily Mud Log Email Distribution List				
Final Mud Log Distribution				
	Ben Kessel (bkessel@fmellc.com)		email	
Cuttings/Samples Shipment Information				

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Franklin Mountain Energy, LLC **OGRID:** 373910 **Date:** 09 / 20 / 2021

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footage	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
County Fair Fed Com 602H		Lot 4-2-25S-35E	215 FNL 1320 FWL	800+/-	1100+/-	500 +/-
County Fair Fed Com 701H	30-025-49396	Lot 4-2-25S-35E	215 FNL 1285 FWL	800+/-	1100+/-	500 +/-

Blue Ribbon Fed Com 702H Lot 4-2-25S-35E 215 FNL 1285 FWL 800+/- 1100+/- 500 +/-

IV. Central Delivery Point Name: Carnival CTB: facility ID (f#) fAPP2123468509 [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date Batch Drilling	Completion Commencement Date	Initial Flow Back Date	First Production Date
County Fair Fed Com 602H		11/1/2021	1/20/2022	2/1/2022	2/21/2022	3/1/2022
County Fair Fed Com 701H	30-025-49396	11/1/2021	1/20/2022	2/1/2022	2/21/2022	3/1/2022

Blue Ribbon Fed Com 702H 11/1/2021 1/20/2022 2/1/2022 2/21/2022 3/1/2022

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

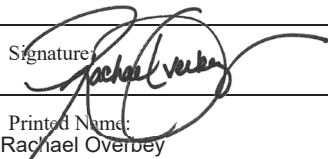
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

Signature: 
Printed Name: Rachael Overbey
Title: Director - Ops Planning & Regulatory
E-mail Address: roverbey@fmellc.com
Date: 9/20/2021
Phone: 720-414-6878
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



Natural Gas Management Plan

Items VI-VIII

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

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

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

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



- *Measurement and Calibration:*
 - All volume that is flared and vented that is not measured will be estimated.
 - When metering is not practical due to low pressure/rate, all vented or flared volumes will be estimated.
 - Measurement will conform to industry standards. Measurement will not be bypassed except for purposes of inspection or calibration.

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

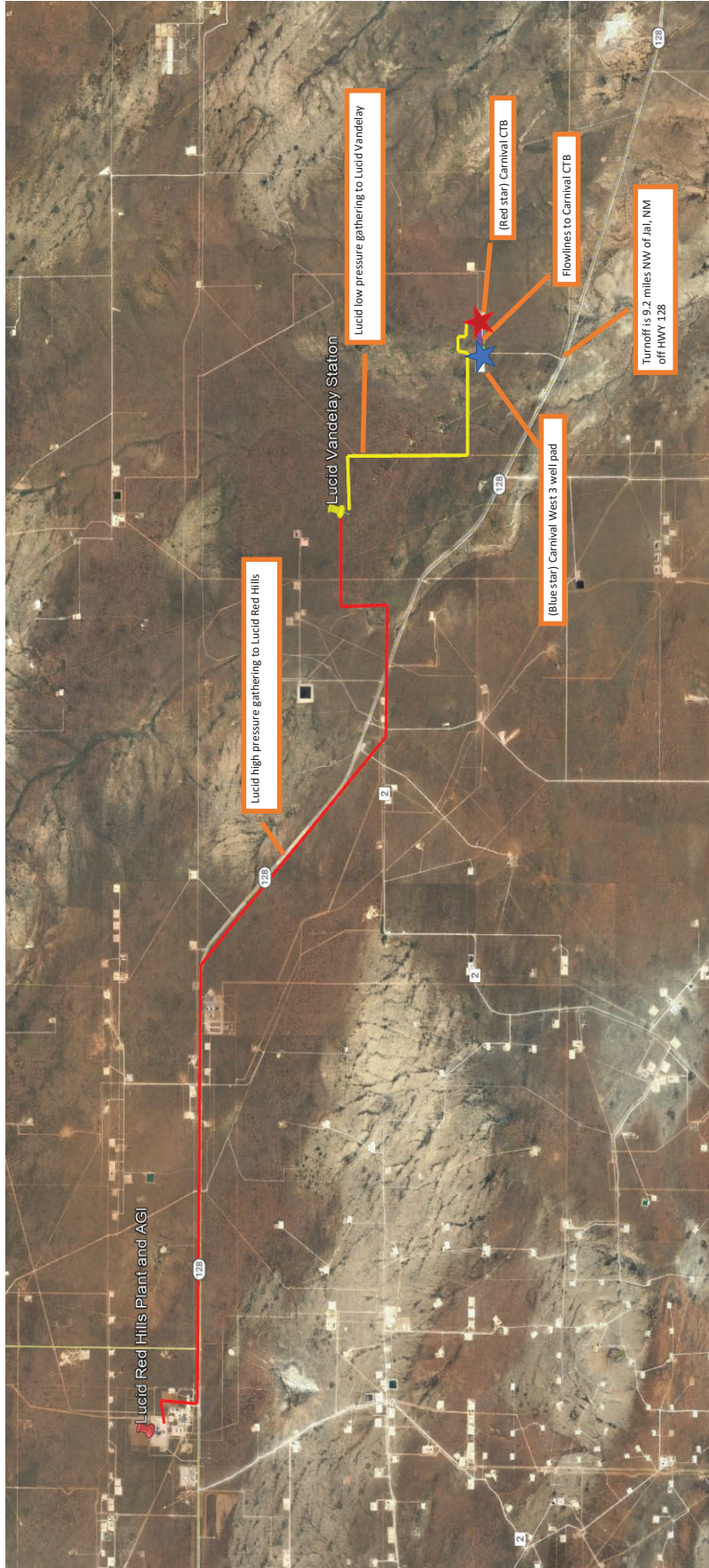
- Venting will be minimized during active and planned maintenance.
- Systems and equipment requiring maintenance will be isolated and blown down to sales and then flare before any remaining gas is vented in an effort to minimize waste and venting.
- Downhole maintenance will use best management practices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

XI. Map attached

Carnival West NGMP Map

Sep 2021

- Capacities reflected are FME's understanding of Lucid's system capacity



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 49915

CONDITIONS

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 49915
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/21/2021
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	9/21/2021
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	9/21/2021
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	9/21/2021