

Well Name: MISSION FED COM	Well Location: T25S / R35E / SEC 1 / LOT 2 / 32.166033 / -103.320278	County or Parish/State: LEA / NM
Well Number: 704H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM138897	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548622	Well Status: Drilling Well	Operator: FRANKLIN MOUNTAIN ENERGY LLC

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Drilling Operations
Date Sundry Submitted: 07/22/2021	Time Sundry Submitted: 05:48
Date proposed operation will begin: 07/01/2021	

Procedure Description: Franklin Mountain Energy, LLC (FME), Operator, respectfully requests approval to make the following changes to the proposed drilling plan for the above referenced well: BHL Change: FME requests approval to change the BHL for this well to 150' FSL 2260' FWL Sec 12 25S 35E SHL remains the same. Please see attached Plan #2, revised 14-point plan, geo prog and plats including C-102.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- C_102_Mission_Fed_Com_704H_4_11_2021_20210722174828.pdf
- Mission_Fed_Com_704H_GEOPROG_prelim_20210722174758.pdf
- Franklin_Mountain___Mission_Fed_Com_704H___Plan_2_20210722174750.pdf
- FME_Federal_14_Point_Plan_Mission_Fed_Com_704_updated_23_lbs_Anaconda_revision_20210722174742.pdf

Received by OCD: 8/31/2021 5:35:01 PM

Page 2 of 35

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Well Number: 704H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM138897	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548622	Well Status: Drilling Well	Operator: FRANKLIN MOUNTAIN ENERGY LLC

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: RACHAEL OVERBEY	Signed on: JUL 22, 2021 05:48 PM
Name: FRANKLIN MOUNTAIN ENERGY LLC	
Title: Director – Operations Planning and Regulatory	
Street Address: 2401 E 2nd Avenue, Suite 300	
City: Denver	State: CO
Phone: (720) 414-7868	
Email address: roverbey@fmellc.com	

Field Representative

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 08/30/2021
Signature: Chris Walls	

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

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

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-48622		² Pool Code 98187		³ Pool Name WC-025 G-09 S253502D; UPR WOLFCAMP	
⁴ Property Code 330443		⁵ Property Name MISSION FED COM			⁶ Well Number 704H
⁷ OGRID No. 373910		⁸ Operator Name FRANKLIN MOUNTAIN ENERGY LLC			⁹ Elevation 3323.4'

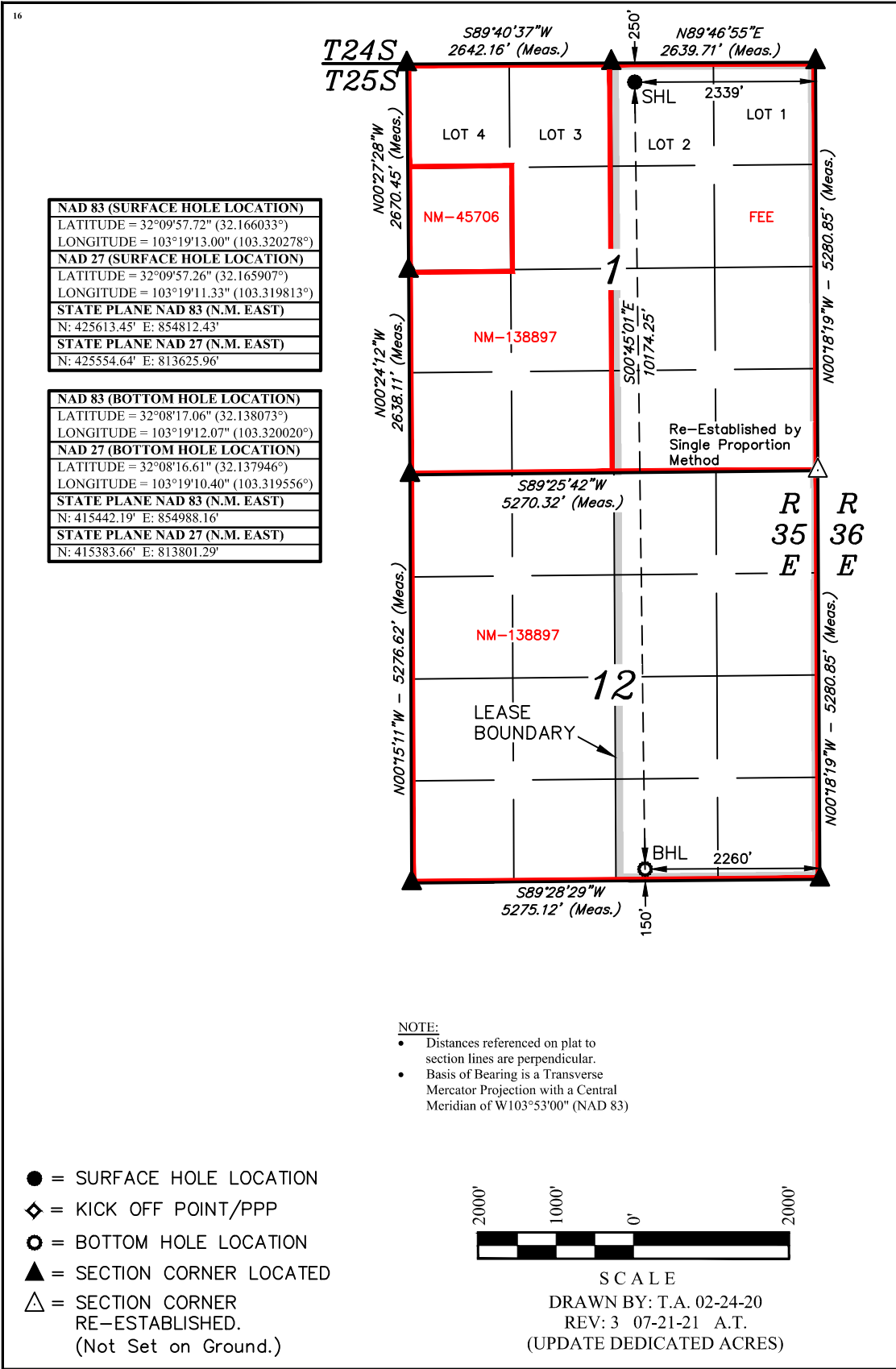
¹⁰ Surface Location

UL or lot no. 2	Section 1	Township 25S	Range 35E	Lot Idn	Feet from the 250	North/South line NORTH	Feet from the 2339	East/West line EAST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. O	Section 12	Township 25S	Range 35E	Lot Idn	Feet from the 150	North/South line SOUTH	Feet from the 2260	East/West line EAST	County LEA
¹² Dedicated Acres 640.4		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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



¹⁷ OPERATOR
CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Date
Shelly Albrecht 7/22/2021

Printed Name
salbrecht@fmellc.com

E-mail Address

¹⁸ SURVEYOR
CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

February 13, 2020

Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number:

FRANKLIN MOUNTAIN ENERGY



Geologic Prognosis

Well Name	Mission Fed Com 704H
Operator	Franklin Mountain Energy, LLC
Project Area	Greenlight Unit
Well Type	10,000' Upper Wolfcamp Lateral
API	
Permit Number	
Rig	

State	NM	County	Lea						
SHL	Township	25S/35E	Section	1	2,339'	FEL	250'	FNL	
BHL	Township	25S/35E	Section	12	2,260'	FEL	150'	FSL	
Surface Latitude	NAD 83		32.166033						
Surface Longitude	NAD 83		103.320278						
Bottom Hole Latitude	NAD 83		32.138073						
Bottom Hole Longitude	NAD 83		103.32002						
Ground Level	3,324'	Rig KB	30'	KB	3,354'				

Formations	PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
Cenozoic Alluvium (surface)	3,324'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2,134'	1,220'			Carbonates
Salado	2,016'	1,338'			Salt, Carbonate & Clastics
Base Salt	-135'	3,489'			Carbonates
Capitan Reef Top	-1,253'	4,607'			Shaley Carbonate & Shale
Lamar	-1,700'	5,054'			Carbonate & Clastics
Bell Canyon	-1,758'	5,112'			Sandstone - oil/gas/water
Cherry Canyon	-2,646'	6,000'			Sandstone - oil/gas/water
Brushy Canyon	-4,067'	7,421'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,342'	8,696'			Shale/Carbonates - oil/gas
Avalon	-5,439'	8,793'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-6,631'	9,985'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-6,761'	10,115'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7,137'	10,491'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-7,685'	11,039'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-8,217'	11,571'			Sandstone - oil/gas/water
Wolfcamp	-8,534'	11,888'			Overpressure shale/sand- Oil/Gas
HZ Target	-8,550'	11,904'			Overpressure shale/sand- Oil/Gas
Wolfcamp A	-8,569'	11,923'			Overpressure Shale - Oil/Gas
Wolfcamp B	-8,761'	12,115'			Overpressure Shale - Oil/Gas

Target interval is expected to have an average apparent dip of ~2.0 degrees down along the lateral based on the Wolfcamp A structure

Target window tolerance is set at +/- 10'

Target Line: 11905' KBTVD @ 0' VS w/ 88.0° inc.
Offset Log: Proxy WCA 001H (30025439220100)

FME Geologist	Ben Kessel		bkessel@fmellc.com	
	Office	720-414-7868	Cell	303.868.9946
FME Engineer				
Electric Logs				
	From		To	
Open-Hole				
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				

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: Merit/Mission Fed Com
Well: Mission Fed Com 704H
Wellbore: OH
Design: Plan #2

3323.4' GE + 30' KB @ 3353.40usft



Azimuths to Grid North
True North: -0.54°
Magnetic North: 6.01°

Magnetic Field
Strength: 47601.5nT
Dip Angle: 59.92°
Date: 5/6/2020
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

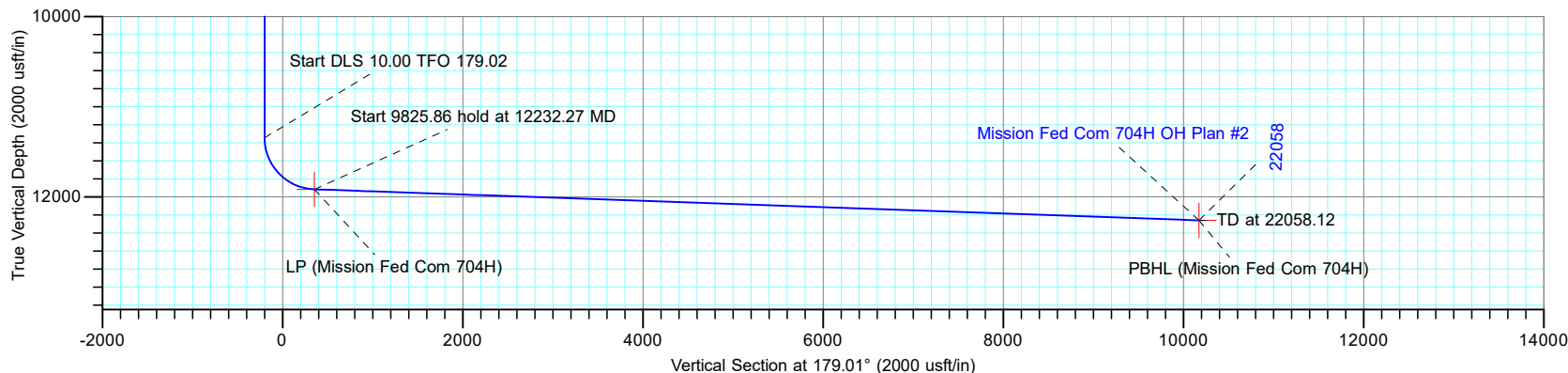
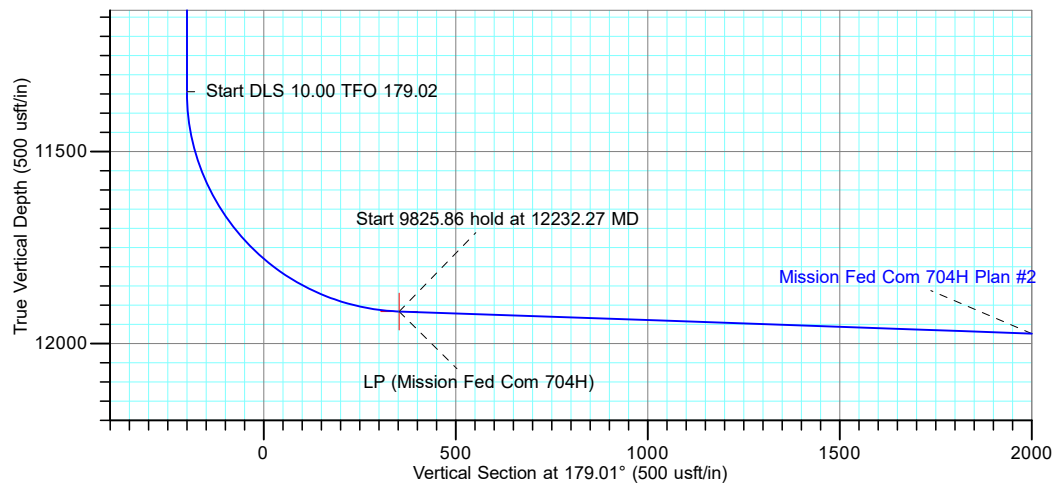
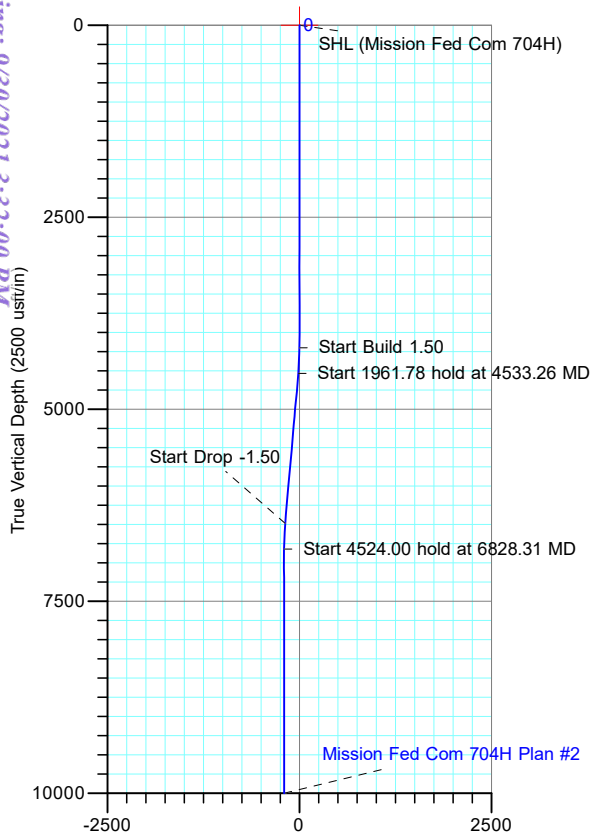


SECTION DETAILS

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	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
4533.26	5.00	359.71	4532.84	14.53	-0.07	1.50	359.71	-14.53	Start 1961.78 hold at 4533.26 MD
6495.04	5.00	359.71	6487.16	185.47	-0.93	0.00	0.00	-185.46	Start Drop -1.50
6828.31	0.00	0.00	6820.00	200.00	-1.00	1.50	180.00	-199.99	Start 4524.00 hold at 6828.31 MD
11352.31	0.00	0.00	11344.00	200.00	-1.00	0.00	0.00	-199.99	Start DLS 10.00 TFO 179.02
12232.27	88.00	179.02	11916.61	-352.84	8.42	10.00	179.02	352.93	Start 9825.86 hold at 12232.27 MD
22058.12	88.00	179.02	12260.24	-10171.26	175.73	0.00	0.00	10172.78	TD at 22058.12

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
LP (Mission Fed Com 704H)	11916.61	-352.84	8.42	32.165063	-103.320262
PBHL (Mission Fed Com 704H)	12260.24	-10171.26	175.73	32.138073	-103.320020
SHL (Mission Fed Com 704H)	0.00	0.00	0.00	32.166033	-103.320278



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

Plan: Plan #2 (Mission Fed Com 704H/OH)
Merit/Mission Fed Com
Created By: Dustin Ault
Date: 22:39, January 21 2023
Approved: _____
Date: _____

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
 Site: Merit/Mission Fed Com
 Well: Mission Fed Com 704H
 Wellbore: OH
 Design: Plan #2



Azimuths to Grid North
 True North: -0.54°
 Magnetic North: 6.01°

Magnetic Field
 Strength: 47601.5nT
 Dip Angle: 59.92°
 Date: 5/6/2020
 Model: IGRF2020

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

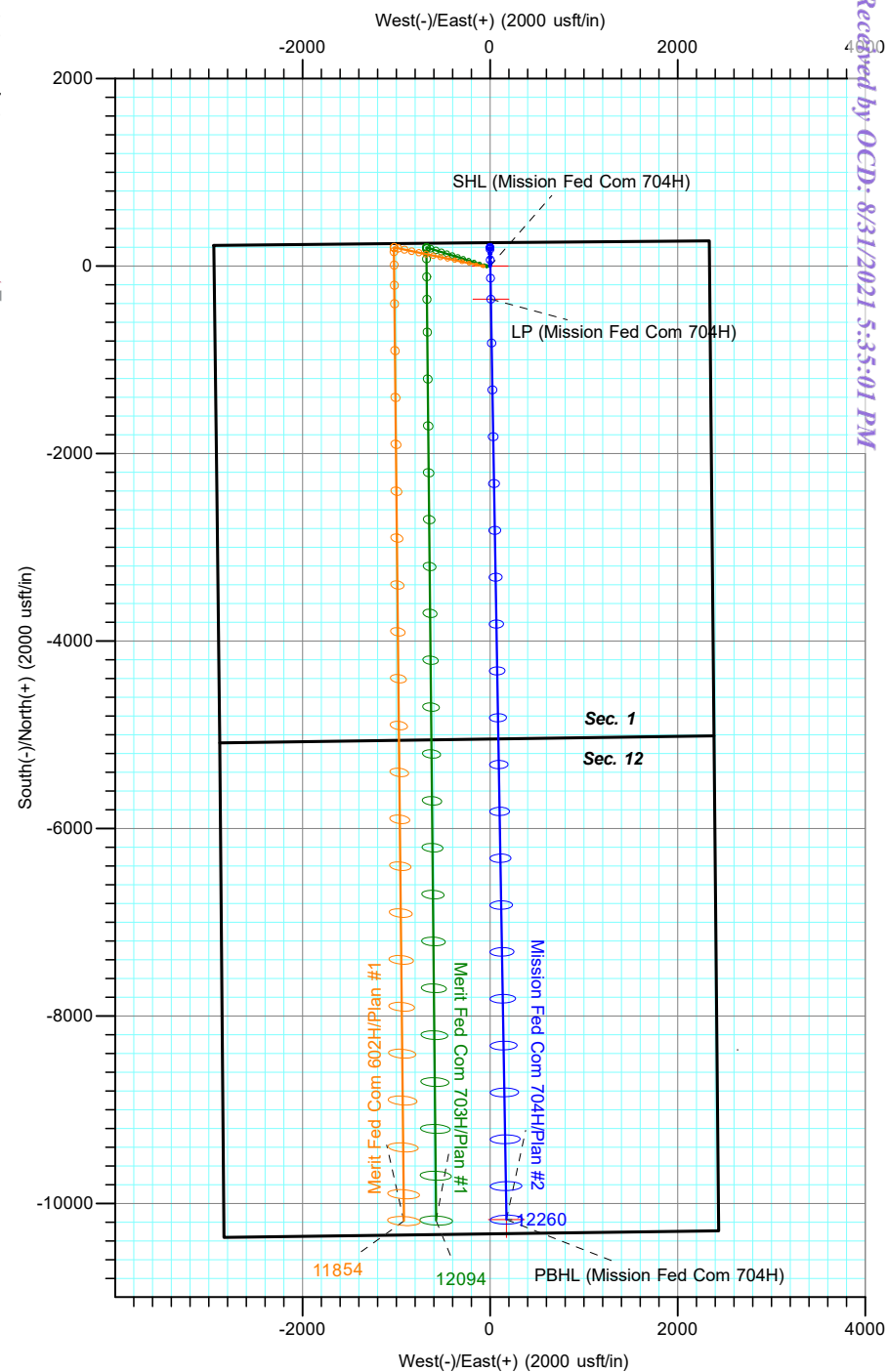
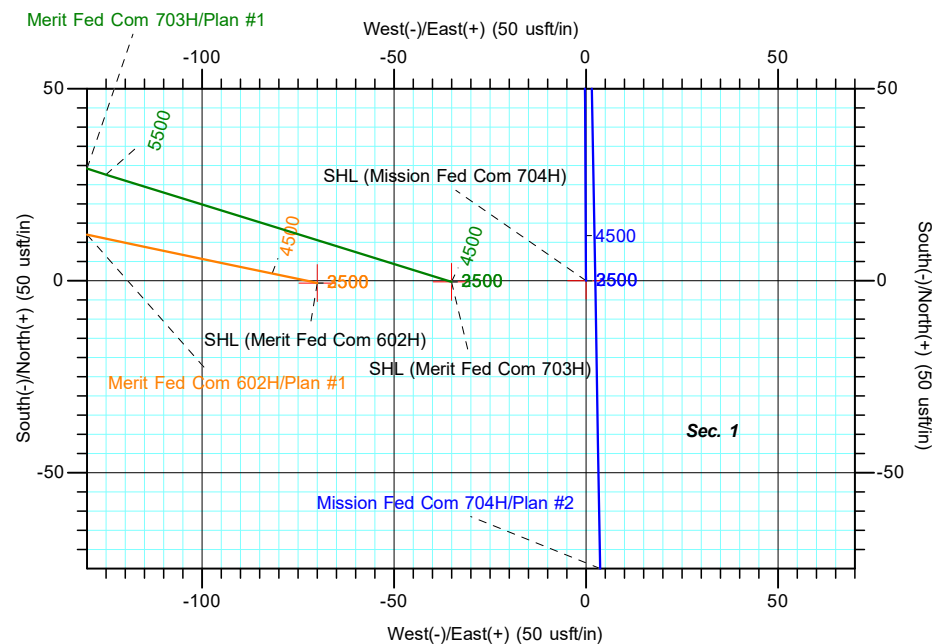


DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP (Mission Fed Com 704H)	11916.61	-352.84	8.42	425260.61	854820.85	32.165063	-103.320262
PBHL (Mission Fed Com 704H)	2260.24	-10171.26	175.73	415442.19	854988.16	32.138073	-103.320020
SHL (Mission Fed Com 704H)	0.00	0.00	0.00	425613.45	854812.43	32.166033	-103.320278

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	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
4533.26	5.00	359.71	4532.84	14.53	-0.07	1.50	359.71	-14.53	Start 1961.78 hold at 4533.26 MD
6495.04	5.00	359.71	6487.16	185.47	-0.93	0.00	0.00	-185.46	Start Drop -1.50
6828.31	0.00	0.00	6820.00	200.00	-1.00	1.50	180.00	-199.99	Start 4524.00 hold at 6828.31 MD
11352.31	0.00	0.00	11344.00	200.00	-1.00	0.00	0.00	-199.99	Start DLS 10.00 TFO 179.02
12232.27	88.00	179.02	11916.61	-352.84	8.42	10.00	179.02	352.93	Start 9825.86 hold at 12232.27 MD
22058.12	88.00	179.02	12260.24	-10171.26	175.73	0.00	0.00	10172.78	TD at 22058.12



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

Plan: Plan #2 (Mission Fed Com 704H/OH)
 Merit/Mission Fed Com
 Created By: Dustin Ault
 Date: 22:40, January 21 2021
 Approved: _____ Date: _____



Franklin Mountain Energy

Lea County, NM (NAD83)

Merit/Mission Fed Com

Mission Fed Com 704H

OH

Plan: Plan #2

Standard Planning Report

21 January, 2021





Total Directional Services Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Mission Fed Com 704H
Company:	Franklin Mountain Energy	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Project:	Lea County, NM (NAD83)	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site:	Merit/Mission Fed Com	North Reference:	Grid
Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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

Site		Merit/Mission Fed Com			
Site Position:		Northing:	425,612.89 usft	Latitude:	32.166034
From:	Map	Easting:	854,742.44 usft	Longitude:	-103.320505
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.54 °

Well	Mission Fed Com 704H					
Well Position	+N/-S	0.56 usft	Northing:	425,613.45 usft	Latitude:	32.166034
	+E/-W	69.99 usft	Easting:	854,812.43 usft	Longitude:	-103.320278
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,323.40 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	5/6/2020	6.55	59.92	47,601.49685338

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.01

Plan Survey Tool Program	Date	1/21/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,058.12 Plan #2 (OH)	OWSG (Rev2) MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,200.00	0.00	0.01	4,200.00	0.00	0.00	0.00	0.00	0.00	0.01	
4,533.26	5.00	359.71	4,532.84	14.53	-0.07	1.50	1.50	0.00	359.71	
6,495.04	5.00	359.71	6,487.16	185.47	-0.93	0.00	0.00	0.00	0.00	
6,828.31	0.00	0.01	6,820.00	200.00	-1.00	1.50	-1.50	0.00	180.00	
11,352.31	0.00	0.01	11,344.00	200.00	-1.00	0.00	0.00	0.00	0.01	
12,232.27	88.00	179.02	11,916.61	-352.84	8.42	10.00	10.00	20.34	179.02	
22,058.12	88.00	179.02	12,260.24	-10,171.26	175.73	0.00	0.00	0.00	0.00	PBHL (Mission Fed C



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Mission Fed Com 704H
Company:	Franklin Mountain Energy	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Project:	Lea County, NM (NAD83)	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site:	Merit/Mission Fed Com	North Reference:	Grid
Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (Mission Fed Com 704H)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50									
4,300.00	1.50	359.71	4,299.99	1.31	-0.01	-1.31	1.50	1.50	0.00
4,400.00	3.00	359.71	4,399.91	5.23	-0.03	-5.23	1.50	1.50	0.00
4,500.00	4.50	359.71	4,499.69	11.77	-0.06	-11.77	1.50	1.50	0.00
4,533.26	5.00	359.71	4,532.84	14.53	-0.07	-14.53	1.50	1.50	0.00
Start 1961.78 hold at 4533.26 MD									
4,600.00	5.00	359.71	4,599.32	20.34	-0.10	-20.34	0.00	0.00	0.00
4,700.00	5.00	359.71	4,698.94	29.06	-0.15	-29.06	0.00	0.00	0.00
4,800.00	5.00	359.71	4,798.56	37.77	-0.19	-37.77	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Mission Fed Com 704H
Company:	Franklin Mountain Energy	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Project:	Lea County, NM (NAD83)	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site:	Merit/Mission Fed Com	North Reference:	Grid
Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.00	5.00	359.71	4,898.18	46.48	-0.23	-46.48	0.00	0.00	0.00
5,000.00	5.00	359.71	4,997.80	55.20	-0.28	-55.20	0.00	0.00	0.00
5,100.00	5.00	359.71	5,097.42	63.91	-0.32	-63.91	0.00	0.00	0.00
5,200.00	5.00	359.71	5,197.04	72.63	-0.36	-72.62	0.00	0.00	0.00
5,300.00	5.00	359.71	5,296.66	81.34	-0.41	-81.33	0.00	0.00	0.00
5,400.00	5.00	359.71	5,396.28	90.05	-0.45	-90.05	0.00	0.00	0.00
5,500.00	5.00	359.71	5,495.90	98.77	-0.49	-98.76	0.00	0.00	0.00
5,600.00	5.00	359.71	5,595.52	107.48	-0.54	-107.47	0.00	0.00	0.00
5,700.00	5.00	359.71	5,695.14	116.19	-0.58	-116.19	0.00	0.00	0.00
5,800.00	5.00	359.71	5,794.76	124.91	-0.62	-124.90	0.00	0.00	0.00
5,900.00	5.00	359.71	5,894.38	133.62	-0.67	-133.61	0.00	0.00	0.00
6,000.00	5.00	359.71	5,994.00	142.33	-0.71	-142.33	0.00	0.00	0.00
6,100.00	5.00	359.71	6,093.62	151.05	-0.76	-151.04	0.00	0.00	0.00
6,200.00	5.00	359.71	6,193.24	159.76	-0.80	-159.75	0.00	0.00	0.00
6,300.00	5.00	359.71	6,292.86	168.48	-0.84	-168.47	0.00	0.00	0.00
6,400.00	5.00	359.71	6,392.48	177.19	-0.89	-177.18	0.00	0.00	0.00
6,495.04	5.00	359.71	6,487.16	185.47	-0.93	-185.46	0.00	0.00	0.00
Start Drop -1.50									
6,500.00	4.92	359.71	6,492.10	185.90	-0.93	-185.89	1.50	-1.50	0.00
6,600.00	3.42	359.71	6,591.83	193.18	-0.97	-193.17	1.50	-1.50	0.00
6,700.00	1.92	359.71	6,691.72	197.85	-0.99	-197.83	1.50	-1.50	0.00
6,800.00	0.42	359.71	6,791.69	199.90	-1.00	-199.88	1.50	-1.50	0.00
6,828.31	0.00	0.01	6,820.00	200.00	-1.00	-199.99	1.50	-1.50	0.00
Start 4524.00 hold at 6828.31 MD									
6,900.00	0.00	0.00	6,891.69	200.00	-1.00	-199.99	0.00	0.00	0.00
7,000.00	0.00	0.00	6,991.69	200.00	-1.00	-199.99	0.00	0.00	0.00
7,100.00	0.00	0.00	7,091.69	200.00	-1.00	-199.99	0.00	0.00	0.00
7,200.00	0.00	0.00	7,191.69	200.00	-1.00	-199.99	0.00	0.00	0.00
7,300.00	0.00	0.00	7,291.69	200.00	-1.00	-199.99	0.00	0.00	0.00
7,400.00	0.00	0.00	7,391.69	200.00	-1.00	-199.99	0.00	0.00	0.00
7,500.00	0.00	0.00	7,491.69	200.00	-1.00	-199.99	0.00	0.00	0.00
7,600.00	0.00	0.00	7,591.69	200.00	-1.00	-199.99	0.00	0.00	0.00
7,700.00	0.00	0.00	7,691.69	200.00	-1.00	-199.99	0.00	0.00	0.00
7,800.00	0.00	0.00	7,791.69	200.00	-1.00	-199.99	0.00	0.00	0.00
7,900.00	0.00	0.00	7,891.69	200.00	-1.00	-199.99	0.00	0.00	0.00
8,000.00	0.00	0.00	7,991.69	200.00	-1.00	-199.99	0.00	0.00	0.00
8,100.00	0.00	0.00	8,091.69	200.00	-1.00	-199.99	0.00	0.00	0.00
8,200.00	0.00	0.00	8,191.69	200.00	-1.00	-199.99	0.00	0.00	0.00
8,300.00	0.00	0.00	8,291.69	200.00	-1.00	-199.99	0.00	0.00	0.00
8,400.00	0.00	0.00	8,391.69	200.00	-1.00	-199.99	0.00	0.00	0.00
8,500.00	0.00	0.00	8,491.69	200.00	-1.00	-199.99	0.00	0.00	0.00
8,600.00	0.00	0.00	8,591.69	200.00	-1.00	-199.99	0.00	0.00	0.00
8,700.00	0.00	0.00	8,691.69	200.00	-1.00	-199.99	0.00	0.00	0.00
8,800.00	0.00	0.00	8,791.69	200.00	-1.00	-199.99	0.00	0.00	0.00
8,900.00	0.00	0.00	8,891.69	200.00	-1.00	-199.99	0.00	0.00	0.00
9,000.00	0.00	0.00	8,991.69	200.00	-1.00	-199.99	0.00	0.00	0.00
9,100.00	0.00	0.00	9,091.69	200.00	-1.00	-199.99	0.00	0.00	0.00
9,200.00	0.00	0.00	9,191.69	200.00	-1.00	-199.99	0.00	0.00	0.00
9,300.00	0.00	0.00	9,291.69	200.00	-1.00	-199.99	0.00	0.00	0.00
9,400.00	0.00	0.00	9,391.69	200.00	-1.00	-199.99	0.00	0.00	0.00
9,500.00	0.00	0.00	9,491.69	200.00	-1.00	-199.99	0.00	0.00	0.00
9,600.00	0.00	0.00	9,591.69	200.00	-1.00	-199.99	0.00	0.00	0.00
9,700.00	0.00	0.00	9,691.69	200.00	-1.00	-199.99	0.00	0.00	0.00
9,800.00	0.00	0.00	9,791.69	200.00	-1.00	-199.99	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Mission Fed Com 704H
Company:	Franklin Mountain Energy	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Project:	Lea County, NM (NAD83)	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site:	Merit/Mission Fed Com	North Reference:	Grid
Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,900.00	0.00	0.00	9,891.69	200.00	-1.00	-199.99	0.00	0.00	0.00
10,000.00	0.00	0.00	9,991.69	200.00	-1.00	-199.99	0.00	0.00	0.00
10,100.00	0.00	0.00	10,091.69	200.00	-1.00	-199.99	0.00	0.00	0.00
10,200.00	0.00	0.00	10,191.69	200.00	-1.00	-199.99	0.00	0.00	0.00
10,300.00	0.00	0.00	10,291.69	200.00	-1.00	-199.99	0.00	0.00	0.00
10,400.00	0.00	0.00	10,391.69	200.00	-1.00	-199.99	0.00	0.00	0.00
10,500.00	0.00	0.00	10,491.69	200.00	-1.00	-199.99	0.00	0.00	0.00
10,600.00	0.00	0.00	10,591.69	200.00	-1.00	-199.99	0.00	0.00	0.00
10,700.00	0.00	0.00	10,691.69	200.00	-1.00	-199.99	0.00	0.00	0.00
10,800.00	0.00	0.00	10,791.69	200.00	-1.00	-199.99	0.00	0.00	0.00
10,900.00	0.00	0.00	10,891.69	200.00	-1.00	-199.99	0.00	0.00	0.00
11,000.00	0.00	0.00	10,991.69	200.00	-1.00	-199.99	0.00	0.00	0.00
11,100.00	0.00	0.00	11,091.69	200.00	-1.00	-199.99	0.00	0.00	0.00
11,200.00	0.00	0.00	11,191.69	200.00	-1.00	-199.99	0.00	0.00	0.00
11,300.00	0.00	0.00	11,291.69	200.00	-1.00	-199.99	0.00	0.00	0.00
11,352.31	0.00	0.00	11,344.00	200.00	-1.00	-199.99	0.00	0.00	0.00
Start DLS 10.00 TFO 179.02									
11,400.00	4.77	179.02	11,391.64	198.02	-0.97	-198.00	10.00	10.00	0.00
11,450.00	9.77	179.02	11,441.22	191.69	-0.86	-191.68	10.00	10.00	0.00
11,500.00	14.77	179.02	11,490.06	181.07	-0.68	-181.06	10.00	10.00	0.00
11,550.00	19.77	179.02	11,537.79	166.24	-0.42	-166.22	10.00	10.00	0.00
11,600.00	24.77	179.02	11,584.05	147.30	-0.10	-147.28	10.00	10.00	0.00
11,650.00	29.77	179.02	11,628.48	124.40	0.29	-124.38	10.00	10.00	0.00
11,700.00	34.77	179.02	11,670.74	97.72	0.74	-97.69	10.00	10.00	0.00
11,750.00	39.77	179.02	11,710.52	67.45	1.26	-67.42	10.00	10.00	0.00
11,800.00	44.77	179.02	11,747.51	33.84	1.83	-33.80	10.00	10.00	0.00
11,850.00	49.77	179.02	11,781.42	-2.87	2.46	2.92	10.00	10.00	0.00
11,900.00	54.77	179.02	11,812.01	-42.40	3.13	42.45	10.00	10.00	0.00
11,950.00	59.77	179.02	11,839.04	-84.44	3.85	84.50	10.00	10.00	0.00
12,000.00	64.77	179.02	11,862.30	-128.68	4.60	128.74	10.00	10.00	0.00
12,050.00	69.77	179.02	11,881.61	-174.77	5.39	174.84	10.00	10.00	0.00
12,100.00	74.77	179.02	11,896.83	-222.38	6.20	222.45	10.00	10.00	0.00
12,150.00	79.77	179.02	11,907.85	-271.12	7.03	271.21	10.00	10.00	0.00
12,200.00	84.77	179.02	11,914.57	-320.65	7.87	320.74	10.00	10.00	0.00
12,232.27	88.00	179.02	11,916.61	-352.84	8.42	352.93	10.00	10.00	0.00
Start 9825.86 hold at 12232.27 MD - LP (Mission Fed Com 704H)									
12,300.00	88.00	179.02	11,918.98	-420.52	9.57	420.63	0.00	0.00	0.00
12,400.00	88.00	179.02	11,922.47	-520.45	11.28	520.56	0.00	0.00	0.00
12,500.00	88.00	179.02	11,925.97	-620.37	12.98	620.50	0.00	0.00	0.00
12,600.00	88.00	179.02	11,929.47	-720.30	14.68	720.44	0.00	0.00	0.00
12,700.00	88.00	179.02	11,932.97	-820.22	16.38	820.38	0.00	0.00	0.00
12,800.00	88.00	179.02	11,936.46	-920.14	18.09	920.32	0.00	0.00	0.00
12,900.00	88.00	179.02	11,939.96	-1,020.07	19.79	1,020.26	0.00	0.00	0.00
13,000.00	88.00	179.02	11,943.46	-1,119.99	21.49	1,120.20	0.00	0.00	0.00
13,100.00	88.00	179.02	11,946.95	-1,219.92	23.20	1,220.14	0.00	0.00	0.00
13,200.00	88.00	179.02	11,950.45	-1,319.84	24.90	1,320.08	0.00	0.00	0.00
13,300.00	88.00	179.02	11,953.95	-1,419.77	26.60	1,420.01	0.00	0.00	0.00
13,400.00	88.00	179.02	11,957.45	-1,519.69	28.30	1,519.95	0.00	0.00	0.00
13,500.00	88.00	179.02	11,960.94	-1,619.61	30.01	1,619.89	0.00	0.00	0.00
13,600.00	88.00	179.02	11,964.44	-1,719.54	31.71	1,719.83	0.00	0.00	0.00
13,700.00	88.00	179.02	11,967.94	-1,819.46	33.41	1,819.77	0.00	0.00	0.00
13,800.00	88.00	179.02	11,971.43	-1,919.39	35.12	1,919.71	0.00	0.00	0.00
13,900.00	88.00	179.02	11,974.93	-2,019.31	36.82	2,019.65	0.00	0.00	0.00
14,000.00	88.00	179.02	11,978.43	-2,119.24	38.52	2,119.59	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Mission Fed Com 704H
Company:	Franklin Mountain Energy	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Project:	Lea County, NM (NAD83)	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site:	Merit/Mission Fed Com	North Reference:	Grid
Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,100.00	88.00	179.02	11,981.93	-2,219.16	40.22	2,219.52	0.00	0.00	0.00
14,200.00	88.00	179.02	11,985.42	-2,319.09	41.93	2,319.46	0.00	0.00	0.00
14,300.00	88.00	179.02	11,988.92	-2,419.01	43.63	2,419.40	0.00	0.00	0.00
14,400.00	88.00	179.02	11,992.42	-2,518.93	45.33	2,519.34	0.00	0.00	0.00
14,500.00	88.00	179.02	11,995.92	-2,618.86	47.03	2,619.28	0.00	0.00	0.00
14,600.00	88.00	179.02	11,999.41	-2,718.78	48.74	2,719.22	0.00	0.00	0.00
14,700.00	88.00	179.02	12,002.91	-2,818.71	50.44	2,819.16	0.00	0.00	0.00
14,800.00	88.00	179.02	12,006.41	-2,918.63	52.14	2,919.10	0.00	0.00	0.00
14,900.00	88.00	179.02	12,009.90	-3,018.56	53.85	3,019.04	0.00	0.00	0.00
15,000.00	88.00	179.02	12,013.40	-3,118.48	55.55	3,118.97	0.00	0.00	0.00
15,100.00	88.00	179.02	12,016.90	-3,218.40	57.25	3,218.91	0.00	0.00	0.00
15,200.00	88.00	179.02	12,020.40	-3,318.33	58.95	3,318.85	0.00	0.00	0.00
15,300.00	88.00	179.02	12,023.89	-3,418.25	60.66	3,418.79	0.00	0.00	0.00
15,400.00	88.00	179.02	12,027.39	-3,518.18	62.36	3,518.73	0.00	0.00	0.00
15,500.00	88.00	179.02	12,030.89	-3,618.10	64.06	3,618.67	0.00	0.00	0.00
15,600.00	88.00	179.02	12,034.38	-3,718.03	65.76	3,718.61	0.00	0.00	0.00
15,700.00	88.00	179.02	12,037.88	-3,817.95	67.47	3,818.55	0.00	0.00	0.00
15,800.00	88.00	179.02	12,041.38	-3,917.87	69.17	3,918.48	0.00	0.00	0.00
15,900.00	88.00	179.02	12,044.88	-4,017.80	70.87	4,018.42	0.00	0.00	0.00
16,000.00	88.00	179.02	12,048.37	-4,117.72	72.58	4,118.36	0.00	0.00	0.00
16,100.00	88.00	179.02	12,051.87	-4,217.65	74.28	4,218.30	0.00	0.00	0.00
16,200.00	88.00	179.02	12,055.37	-4,317.57	75.98	4,318.24	0.00	0.00	0.00
16,300.00	88.00	179.02	12,058.87	-4,417.50	77.68	4,418.18	0.00	0.00	0.00
16,400.00	88.00	179.02	12,062.36	-4,517.42	79.39	4,518.12	0.00	0.00	0.00
16,500.00	88.00	179.02	12,065.86	-4,617.34	81.09	4,618.06	0.00	0.00	0.00
16,600.00	88.00	179.02	12,069.36	-4,717.27	82.79	4,718.00	0.00	0.00	0.00
16,700.00	88.00	179.02	12,072.85	-4,817.19	84.49	4,817.93	0.00	0.00	0.00
16,800.00	88.00	179.02	12,076.35	-4,917.12	86.20	4,917.87	0.00	0.00	0.00
16,900.00	88.00	179.02	12,079.85	-5,017.04	87.90	5,017.81	0.00	0.00	0.00
17,000.00	88.00	179.02	12,083.35	-5,116.97	89.60	5,117.75	0.00	0.00	0.00
17,100.00	88.00	179.02	12,086.84	-5,216.89	91.31	5,217.69	0.00	0.00	0.00
17,200.00	88.00	179.02	12,090.34	-5,316.81	93.01	5,317.63	0.00	0.00	0.00
17,300.00	88.00	179.02	12,093.84	-5,416.74	94.71	5,417.57	0.00	0.00	0.00
17,400.00	88.00	179.02	12,097.34	-5,516.66	96.41	5,517.51	0.00	0.00	0.00
17,500.00	88.00	179.02	12,100.83	-5,616.59	98.12	5,617.44	0.00	0.00	0.00
17,600.00	88.00	179.02	12,104.33	-5,716.51	99.82	5,717.38	0.00	0.00	0.00
17,700.00	88.00	179.02	12,107.83	-5,816.44	101.52	5,817.32	0.00	0.00	0.00
17,800.00	88.00	179.02	12,111.32	-5,916.36	103.22	5,917.26	0.00	0.00	0.00
17,900.00	88.00	179.02	12,114.82	-6,016.29	104.93	6,017.20	0.00	0.00	0.00
18,000.00	88.00	179.02	12,118.32	-6,116.21	106.63	6,117.14	0.00	0.00	0.00
18,100.00	88.00	179.02	12,121.82	-6,216.13	108.33	6,217.08	0.00	0.00	0.00
18,200.00	88.00	179.02	12,125.31	-6,316.06	110.04	6,317.02	0.00	0.00	0.00
18,300.00	88.00	179.02	12,128.81	-6,415.98	111.74	6,416.96	0.00	0.00	0.00
18,400.00	88.00	179.02	12,132.31	-6,515.91	113.44	6,516.89	0.00	0.00	0.00
18,500.00	88.00	179.02	12,135.80	-6,615.83	115.14	6,616.83	0.00	0.00	0.00
18,600.00	88.00	179.02	12,139.30	-6,715.76	116.85	6,716.77	0.00	0.00	0.00
18,700.00	88.00	179.02	12,142.80	-6,815.68	118.55	6,816.71	0.00	0.00	0.00
18,800.00	88.00	179.02	12,146.30	-6,915.60	120.25	6,916.65	0.00	0.00	0.00
18,900.00	88.00	179.02	12,149.79	-7,015.53	121.96	7,016.59	0.00	0.00	0.00
19,000.00	88.00	179.02	12,153.29	-7,115.45	123.66	7,116.53	0.00	0.00	0.00
19,100.00	88.00	179.02	12,156.79	-7,215.38	125.36	7,216.47	0.00	0.00	0.00
19,200.00	88.00	179.02	12,160.29	-7,315.30	127.06	7,316.40	0.00	0.00	0.00
19,300.00	88.00	179.02	12,163.78	-7,415.23	128.77	7,416.34	0.00	0.00	0.00
19,400.00	88.00	179.02	12,167.28	-7,515.15	130.47	7,516.28	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Mission Fed Com 704H
Company:	Franklin Mountain Energy	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Project:	Lea County, NM (NAD83)	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site:	Merit/Mission Fed Com	North Reference:	Grid
Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
19,500.00	88.00	179.02	12,170.78	-7,615.07	132.17	7,616.22	0.00	0.00	0.00	
19,600.00	88.00	179.02	12,174.27	-7,715.00	133.87	7,716.16	0.00	0.00	0.00	
19,700.00	88.00	179.02	12,177.77	-7,814.92	135.58	7,816.10	0.00	0.00	0.00	
19,800.00	88.00	179.02	12,181.27	-7,914.85	137.28	7,916.04	0.00	0.00	0.00	
19,900.00	88.00	179.02	12,184.77	-8,014.77	138.98	8,015.98	0.00	0.00	0.00	
20,000.00	88.00	179.02	12,188.26	-8,114.70	140.69	8,115.92	0.00	0.00	0.00	
20,100.00	88.00	179.02	12,191.76	-8,214.62	142.39	8,215.85	0.00	0.00	0.00	
20,200.00	88.00	179.02	12,195.26	-8,314.54	144.09	8,315.79	0.00	0.00	0.00	
20,300.00	88.00	179.02	12,198.75	-8,414.47	145.79	8,415.73	0.00	0.00	0.00	
20,400.00	88.00	179.02	12,202.25	-8,514.39	147.50	8,515.67	0.00	0.00	0.00	
20,500.00	88.00	179.02	12,205.75	-8,614.32	149.20	8,615.61	0.00	0.00	0.00	
20,600.00	88.00	179.02	12,209.25	-8,714.24	150.90	8,715.55	0.00	0.00	0.00	
20,700.00	88.00	179.02	12,212.74	-8,814.17	152.60	8,815.49	0.00	0.00	0.00	
20,800.00	88.00	179.02	12,216.24	-8,914.09	154.31	8,915.43	0.00	0.00	0.00	
20,900.00	88.00	179.02	12,219.74	-9,014.01	156.01	9,015.36	0.00	0.00	0.00	
21,000.00	88.00	179.02	12,223.24	-9,113.94	157.71	9,115.30	0.00	0.00	0.00	
21,100.00	88.00	179.02	12,226.73	-9,213.86	159.42	9,215.24	0.00	0.00	0.00	
21,200.00	88.00	179.02	12,230.23	-9,313.79	161.12	9,315.18	0.00	0.00	0.00	
21,300.00	88.00	179.02	12,233.73	-9,413.71	162.82	9,415.12	0.00	0.00	0.00	
21,400.00	88.00	179.02	12,237.22	-9,513.64	164.52	9,515.06	0.00	0.00	0.00	
21,500.00	88.00	179.02	12,240.72	-9,613.56	166.23	9,615.00	0.00	0.00	0.00	
21,600.00	88.00	179.02	12,244.22	-9,713.49	167.93	9,714.94	0.00	0.00	0.00	
21,700.00	88.00	179.02	12,247.72	-9,813.41	169.63	9,814.88	0.00	0.00	0.00	
21,800.00	88.00	179.02	12,251.21	-9,913.33	171.33	9,914.81	0.00	0.00	0.00	
21,900.00	88.00	179.02	12,254.71	-10,013.26	173.04	10,014.75	0.00	0.00	0.00	
22,000.00	88.00	179.02	12,258.21	-10,113.18	174.74	10,114.69	0.00	0.00	0.00	
22,058.12	88.00	179.02	12,260.24	-10,171.26	175.73	10,172.78	0.00	0.00	0.00	
TD at 22058.12 - PBHL (Mission Fed Com 704H)										

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (Mission Fed Com 704H) - plan hits target center - Point	0.00	0.01	0.00	0.00	0.00	425,613.45	854,812.43	32.166034	-103.320278
LP (Mission Fed Com 704H) - plan hits target center - Point	0.00	0.00	11,916.61	-352.84	8.42	425,260.61	854,820.85	32.165064	-103.320262
PBHL (Mission Fed Com 704H) - plan hits target center - Point	0.00	0.00	12,260.24	-10,171.26	175.73	415,442.19	854,988.16	32.138073	-103.320020



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Mission Fed Com 704H
Company:	Franklin Mountain Energy	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Project:	Lea County, NM (NAD83)	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site:	Merit/Mission Fed Com	North Reference:	Grid
Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,200.00	4,200.00	0.00	0.00	Start Build 1.50
4,533.26	4,532.84	14.53	-0.07	Start 1961.78 hold at 4533.26 MD
6,495.04	6,487.16	185.47	-0.93	Start Drop -1.50
6,828.31	6,820.00	200.00	-1.00	Start 4524.00 hold at 6828.31 MD
11,352.31	11,344.00	200.00	-1.00	Start DLS 10.00 TFO 179.02
12,232.27	11,916.61	-352.84	8.42	Start 9825.86 hold at 12232.27 MD
22,058.12	12,260.24	-10,171.26	175.73	TD at 22058.12



Franklin Mountain Energy

Lea County, NM (NAD83)

Merit/Mission Fed Com

Mission Fed Com 704H

OH

Plan #2

Anticollision Report

21 January, 2021





Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Mission Fed Com 704H
Project:	Lea County, NM (NAD83)	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Reference Site:	Merit/Mission Fed Com	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	1/21/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	22,058.12	Plan #2 (OH)	OWSG (Rev2) MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Merit/Mission Fed Com						
Merit Fed Com 602H - OH - Plan #1	4,115.78	4,118.38	69.99	49.45	3.407	CC
Merit Fed Com 602H - OH - Plan #1	4,200.00	4,202.55	69.99	49.02	3.338	ES
Merit Fed Com 602H - OH - Plan #1	4,300.00	4,300.00	71.33	49.88	3.326	SF
Merit Fed Com 703H - OH - Plan #1	4,200.00	4,201.50	35.00	14.03	1.669	CC
Merit Fed Com 703H - OH - Plan #1	4,400.00	4,401.41	35.41	13.43	1.611	ES, SF

Offset Design												
Merit/Mission Fed Com - Merit Fed Com 602H - OH - Plan #1												
Survey Program: 0-OWSG (Rev2) MWD												
Reference		Offset		Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.00	0.00	2.60	2.60	0.00	0.00	-90.46	-0.56	-69.99	69.99			
100.00	100.00	102.60	102.60	0.13	0.13	-90.46	-0.56	-69.99	69.99	69.81	0.18	380.097
200.00	200.00	202.60	202.60	0.48	0.49	-90.46	-0.56	-69.99	69.99	69.30	0.69	101.290
300.00	300.00	302.60	302.60	0.84	0.85	-90.46	-0.56	-69.99	69.99	68.79	1.20	58.426
400.00	400.00	402.60	402.60	1.20	1.21	-90.46	-0.56	-69.99	69.99	68.29	1.70	41.053
500.00	500.00	502.60	502.60	1.56	1.57	-90.46	-0.56	-69.99	69.99	67.78	2.21	31.644
600.00	600.00	602.60	602.60	1.92	1.93	-90.46	-0.56	-69.99	69.99	67.27	2.72	25.744
700.00	700.00	702.60	702.60	2.28	2.29	-90.46	-0.56	-69.99	69.99	66.77	3.23	21.698
800.00	800.00	802.60	802.60	2.63	2.64	-90.46	-0.56	-69.99	69.99	66.26	3.73	18.751
900.00	900.00	902.60	902.60	2.99	3.00	-90.46	-0.56	-69.99	69.99	65.75	4.24	16.509
1,000.00	1,000.00	1,002.60	1,002.60	3.35	3.36	-90.46	-0.56	-69.99	69.99	65.25	4.75	14.746
1,100.00	1,100.00	1,102.60	1,102.60	3.71	3.72	-90.46	-0.56	-69.99	69.99	64.74	5.25	13.323
1,200.00	1,200.00	1,202.60	1,202.60	4.07	4.08	-90.46	-0.56	-69.99	69.99	64.23	5.76	12.150
1,300.00	1,300.00	1,302.60	1,302.60	4.43	4.44	-90.46	-0.56	-69.99	69.99	63.72	6.27	11.168
1,400.00	1,400.00	1,402.60	1,402.60	4.79	4.79	-90.46	-0.56	-69.99	69.99	63.22	6.77	10.332
1,500.00	1,500.00	1,502.60	1,502.60	5.14	5.15	-90.46	-0.56	-69.99	69.99	62.71	7.28	9.612
1,600.00	1,600.00	1,602.60	1,602.60	5.50	5.51	-90.46	-0.56	-69.99	69.99	62.20	7.79	8.987
1,700.00	1,700.00	1,702.60	1,702.60	5.86	5.87	-90.46	-0.56	-69.99	69.99	61.70	8.30	8.438
1,800.00	1,800.00	1,802.60	1,802.60	6.22	6.23	-90.46	-0.56	-69.99	69.99	61.19	8.80	7.952
1,900.00	1,900.00	1,902.60	1,902.60	6.58	6.59	-90.46	-0.56	-69.99	69.99	60.68	9.31	7.519
2,000.00	2,000.00	2,002.60	2,002.60	6.94	6.95	-90.46	-0.56	-69.99	69.99	60.18	9.82	7.130
2,100.00	2,100.00	2,102.60	2,102.60	7.29	7.30	-90.46	-0.56	-69.99	69.99	59.67	10.32	6.780

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 Mission Fed Com 704H
Project:	Lea County, NM (NAD83)	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Reference Site:	Merit/Mission Fed Com	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Merit/Mission Fed Com - Merit Fed Com 602H - OH - Plan #1		Offset Site Error:		0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
2,200.00	2,200.00	2,202.60	2,202.60	7.65	7.66	-90.46	-0.56	-69.99	69.99	59.16	10.83	6.463					
2,300.00	2,300.00	2,302.60	2,302.60	8.01	8.02	-90.46	-0.56	-69.99	69.99	58.66	11.34	6.174					
2,400.00	2,400.00	2,402.60	2,402.60	8.37	8.38	-90.46	-0.56	-69.99	69.99	58.15	11.84	5.910					
2,500.00	2,500.00	2,502.60	2,502.60	8.73	8.74	-90.46	-0.56	-69.99	69.99	57.64	12.35	5.667					
2,600.00	2,600.00	2,602.60	2,602.60	9.09	9.10	-90.46	-0.56	-69.99	69.99	57.13	12.86	5.444					
2,700.00	2,700.00	2,702.60	2,702.60	9.45	9.46	-90.46	-0.56	-69.99	69.99	56.63	13.36	5.237					
2,800.00	2,800.00	2,802.60	2,802.60	9.80	9.81	-90.46	-0.56	-69.99	69.99	56.12	13.87	5.046					
2,900.00	2,900.00	2,902.60	2,902.60	10.16	10.17	-90.46	-0.56	-69.99	69.99	55.61	14.38	4.868					
3,000.00	3,000.00	3,002.60	3,002.60	10.52	10.53	-90.46	-0.56	-69.99	69.99	55.11	14.89	4.702					
3,100.00	3,100.00	3,102.60	3,102.60	10.88	10.89	-90.46	-0.56	-69.99	69.99	54.60	15.39	4.547					
3,200.00	3,200.00	3,202.60	3,202.60	11.24	11.25	-90.46	-0.56	-69.99	69.99	54.09	15.90	4.402					
3,300.00	3,300.00	3,302.60	3,302.60	11.60	11.61	-90.46	-0.56	-69.99	69.99	53.59	16.41	4.266					
3,400.00	3,400.00	3,402.60	3,402.60	11.96	11.96	-90.46	-0.56	-69.99	69.99	53.08	16.91	4.138					
3,500.00	3,500.00	3,502.60	3,502.60	12.31	12.32	-90.46	-0.56	-69.99	69.99	52.57	17.42	4.018					
3,600.00	3,600.00	3,602.60	3,602.60	12.67	12.68	-90.46	-0.56	-69.99	69.99	52.06	17.93	3.904					
3,700.00	3,700.00	3,702.60	3,702.60	13.03	13.04	-90.46	-0.56	-69.99	69.99	51.56	18.43	3.797					
3,800.00	3,800.00	3,802.60	3,802.60	13.39	13.40	-90.46	-0.56	-69.99	69.99	51.05	18.94	3.695					
3,900.00	3,900.00	3,902.60	3,902.60	13.75	13.76	-90.46	-0.56	-69.99	69.99	50.54	19.45	3.599					
4,000.00	4,000.00	4,002.60	4,002.60	14.11	14.12	-90.46	-0.56	-69.99	69.99	50.04	19.96	3.507					
4,100.00	4,100.00	4,102.60	4,102.60	14.46	14.47	-90.46	-0.56	-69.99	69.99	49.53	20.46	3.421					
4,115.78	4,115.78	4,118.38	4,118.38	14.52	14.53	-90.46	-0.56	-69.99	69.99	49.45	20.54	3.407 CC					
4,200.00	4,200.00	4,202.55	4,202.55	14.82	14.83	-90.46	-0.56	-69.99	69.99	49.02	20.97	3.338 ES					
4,300.00	4,299.99	4,300.00	4,299.99	15.18	15.17	-90.95	-0.29	-71.27	71.33	49.88	21.45	3.326 SF					
4,400.00	4,399.91	4,398.82	4,398.73	15.54	15.52	-93.17	0.50	-75.05	75.27	53.34	21.93	3.433					
4,500.00	4,499.69	4,496.57	4,496.27	15.90	15.85	-96.37	1.80	-81.25	82.03	59.64	22.38	3.665					
4,533.26	4,532.84	4,528.98	4,528.58	16.02	15.97	-97.56	2.34	-83.85	84.93	62.40	22.53	3.770					
4,600.00	4,599.32	4,593.89	4,593.19	16.25	16.19	-99.77	3.60	-89.85	91.71	68.89	22.83	4.018					
4,700.00	4,698.94	4,690.78	4,689.43	16.61	16.54	-102.05	5.89	-100.81	104.00	80.74	23.26	4.470					
4,800.00	4,798.56	4,787.13	4,784.82	16.97	16.88	-103.32	8.67	-114.07	118.67	94.98	23.69	5.009					
4,900.00	4,898.18	4,885.44	4,881.92	17.33	17.23	-104.03	11.82	-129.10	134.78	110.60	24.18	5.574					
5,000.00	4,997.80	4,984.12	4,979.39	17.69	17.59	-104.59	14.99	-144.22	150.92	126.24	24.68	6.115					
5,100.00	5,097.42	5,082.80	5,076.85	18.05	17.95	-105.04	18.15	-159.33	167.08	141.90	25.19	6.634					
5,200.00	5,197.04	5,181.48	5,174.31	18.41	18.32	-105.41	21.32	-174.44	183.24	157.56	25.69	7.133					
5,300.00	5,296.66	5,280.16	5,271.78	18.77	18.68	-105.72	24.48	-189.56	199.42	173.22	26.19	7.614					
5,400.00	5,396.28	5,378.83	5,369.24	19.14	19.05	-105.98	27.65	-204.67	215.59	188.89	26.70	8.076					
5,500.00	5,495.90	5,477.51	5,466.70	19.50	19.43	-106.21	30.81	-219.78	231.77	204.57	27.20	8.520					
5,600.00	5,595.52	5,576.19	5,564.17	19.87	19.80	-106.40	33.98	-234.90	247.95	220.24	27.71	8.948					
5,700.00	5,695.14	5,674.87	5,661.63	20.23	20.18	-106.58	37.14	-250.01	264.14	235.92	28.22	9.361					
5,800.00	5,794.76	5,773.55	5,759.09	20.60	20.56	-106.73	40.31	-265.13	280.33	251.60	28.73	9.758					
5,900.00	5,894.38	5,872.23	5,856.55	20.97	20.94	-106.87	43.47	-280.24	296.51	267.28	29.24	10.142					
6,000.00	5,994.00	5,970.91	5,954.02	21.33	21.32	-106.99	46.64	-295.35	312.70	282.96	29.75	10.512					
6,100.00	6,093.62	6,069.58	6,051.48	21.70	21.71	-107.10	49.80	-310.47	328.90	298.64	30.26	10.869					
6,200.00	6,193.24	6,168.26	6,148.94	22.07	22.09	-107.20	52.97	-325.58	345.09	314.32	30.77	11.214					
6,300.00	6,292.86	6,266.94	6,246.41	22.44	22.48	-107.29	56.13	-340.69	361.28	330.00	31.29	11.548					
6,400.00	6,392.48	6,365.62	6,343.87	22.81	22.87	-107.37	59.30	-355.81	377.48	345.68	31.80	11.870					
6,495.04	6,487.16	6,459.41	6,436.50	23.16	23.24	-107.44	62.30	-370.17	392.87	360.58	32.29	12.167					
6,500.00	6,492.10	6,464.30	6,441.33	23.18	23.26	-107.46	62.46	-370.92	393.67	361.36	32.32	12.182					
6,600.00	6,591.83	6,563.04	6,538.86	23.54	23.66	-107.56	65.63	-386.04	409.44	376.61	32.83	12.472					
6,700.00	6,691.72	6,661.85	6,636.45	23.91	24.05	-107.32	68.80	-401.18	424.44	391.11	33.34	12.732					
6,800.00	6,791.69	6,760.66	6,734.05	24.27	24.45	-106.78	71.97	-416.31	438.72	404.88	33.84	12.965					
6,828.31	6,820.00	6,788.63	6,761.66	24.37	24.56	-106.86	72.86	-420.59	442.64	408.66	33.98	13.026					
6,900.00	6,891.69	6,859.44	6,831.60	24.62	24.85	-106.18	75.14	-431.44	452.55	418.21	34.34	13.179					

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 Mission Fed Com 704H
Project:	Lea County, NM (NAD83)	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Reference Site:	Merit/Mission Fed Com	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,000.00	6,991.69	6,958.20	6,929.15	24.98	25.24	-105.28	78.30	-446.56	466.46	431.62	34.84	13.389		
7,100.00	7,091.69	7,056.97	7,026.70	25.33	25.64	-104.43	81.47	-461.69	480.47	445.13	35.34	13.597		
7,200.00	7,191.69	7,155.74	7,124.25	25.69	26.04	-103.63	84.64	-476.82	494.59	458.75	35.84	13.801		
7,300.00	7,291.69	7,254.51	7,221.81	26.04	26.45	-102.87	87.81	-491.95	508.79	472.45	36.34	14.002		
7,400.00	7,391.69	7,353.28	7,319.36	26.40	26.85	-102.16	90.98	-507.07	523.08	486.24	36.84	14.199		
7,500.00	7,491.69	7,452.04	7,416.91	26.76	27.25	-101.48	94.14	-522.20	537.44	500.10	37.34	14.393		
7,600.00	7,591.69	7,550.81	7,514.46	27.11	27.66	-100.84	97.31	-537.33	551.87	514.03	37.84	14.584		
7,700.00	7,691.69	7,649.58	7,612.01	27.47	28.06	-100.23	100.48	-552.45	566.37	528.03	38.34	14.771		
7,800.00	7,791.69	7,748.35	7,709.56	27.82	28.47	-99.65	103.65	-567.58	580.93	542.08	38.85	14.955		
7,900.00	7,891.69	7,847.12	7,807.11	28.18	28.87	-99.10	106.82	-582.71	595.54	556.19	39.35	15.135		
8,000.00	7,991.69	7,945.88	7,904.67	28.54	29.28	-98.58	109.98	-597.84	610.20	570.35	39.85	15.312		
8,100.00	8,091.69	8,044.65	8,002.22	28.89	29.69	-98.08	113.15	-612.96	624.91	584.56	40.36	15.485		
8,200.00	8,191.69	8,143.42	8,099.77	29.25	30.10	-97.60	116.32	-628.09	639.67	598.81	40.86	15.656		
8,300.00	8,291.69	8,242.19	8,197.32	29.61	30.51	-97.15	119.49	-643.22	654.47	613.11	41.36	15.823		
8,400.00	8,391.69	8,340.96	8,294.87	29.96	30.92	-96.71	122.66	-658.34	669.30	627.44	41.87	15.987		
8,500.00	8,491.69	8,439.72	8,392.42	30.32	31.33	-96.29	125.82	-673.47	684.18	641.81	42.37	16.147		
8,600.00	8,591.69	8,538.49	8,489.97	30.67	31.74	-95.90	128.99	-688.60	699.08	656.21	42.87	16.305		
8,700.00	8,691.69	8,637.26	8,587.53	31.03	32.15	-95.51	132.16	-703.73	714.02	670.64	43.38	16.460		
8,800.00	8,791.69	8,736.03	8,686.08	31.39	32.57	-95.15	135.33	-718.85	728.99	685.10	43.88	16.611		
8,900.00	8,891.69	8,834.80	8,782.63	31.74	32.98	-94.80	138.50	-733.98	743.98	699.59	44.39	16.760		
9,000.00	8,991.69	8,933.57	8,880.18	32.10	33.39	-94.46	141.66	-749.11	759.00	714.11	44.90	16.906		
9,100.00	9,091.69	9,032.33	8,977.73	32.46	33.81	-94.13	144.83	-764.23	774.05	728.65	45.40	17.049		
9,200.00	9,191.69	9,131.10	9,075.28	32.81	34.22	-93.82	148.00	-779.36	789.12	743.21	45.91	17.190		
9,300.00	9,291.69	9,229.87	9,172.83	33.17	34.63	-93.52	151.17	-794.49	804.21	757.80	46.41	17.327		
9,400.00	9,391.69	9,328.64	9,270.39	33.53	35.05	-93.23	154.34	-809.61	819.33	772.41	46.92	17.462		
9,500.00	9,491.69	9,427.41	9,367.94	33.88	35.47	-92.95	157.50	-824.74	834.46	787.03	47.43	17.595		
9,600.00	9,591.69	9,526.17	9,465.49	34.24	35.88	-92.68	160.67	-839.87	849.61	801.68	47.93	17.725		
9,700.00	9,691.69	9,624.94	9,563.04	34.60	36.30	-92.42	163.84	-855.00	864.78	816.34	48.44	17.853		
9,800.00	9,791.69	9,723.71	9,660.59	34.95	36.71	-92.17	167.01	-870.12	879.97	831.02	48.95	17.978		
9,900.00	9,891.69	9,822.48	9,758.14	35.31	37.13	-91.93	170.18	-885.25	895.17	845.71	49.45	18.101		
10,000.00	9,991.69	9,921.25	9,855.69	35.67	37.55	-91.70	173.34	-900.38	910.38	860.42	49.96	18.222		
10,100.00	10,091.69	10,020.01	9,953.25	36.03	37.97	-91.47	176.51	-915.50	925.62	875.15	50.47	18.340		
10,200.00	10,191.69	10,118.78	10,050.80	36.38	38.39	-91.25	179.68	-930.63	940.86	889.88	50.98	18.457		
10,300.00	10,291.69	10,217.55	10,148.35	36.74	38.80	-91.04	182.85	-945.76	956.12	904.63	51.49	18.571		
10,400.00	10,391.69	10,316.32	10,245.90	37.10	39.22	-90.83	186.02	-960.89	971.39	919.40	51.99	18.683		
10,500.00	10,491.69	10,415.09	10,343.45	37.45	39.64	-90.64	189.18	-976.01	986.67	934.17	52.50	18.793		
10,600.00	10,591.69	10,541.32	10,468.35	37.81	40.17	-90.41	192.93	-993.89	1,000.87	947.69	53.19	18.818		
10,700.00	10,691.69	10,675.19	10,601.38	38.17	40.70	-90.23	195.98	-1,008.48	1,011.76	957.89	53.87	18.780		
10,800.00	10,791.69	10,809.95	10,735.74	38.53	41.21	-90.11	198.09	-1,018.54	1,019.23	964.71	54.51	18.697		
10,900.00	10,891.69	10,945.28	10,870.95	38.88	41.68	-90.04	199.23	-1,023.97	1,023.24	968.14	55.10	18.569		
11,000.00	10,991.69	11,068.63	10,994.29	39.24	42.09	-90.03	199.44	-1,024.99	1,023.99	968.36	55.64	18.405		
11,100.00	11,091.69	11,168.63	11,094.29	39.60	42.42	-90.03	199.44	-1,024.99	1,023.99	967.86	56.13	18.243		
11,200.00	11,191.69	11,268.63	11,194.29	39.95	42.75	-90.03	199.44	-1,024.99	1,023.99	967.36	56.63	18.083		
11,300.00	11,291.69	11,369.38	11,294.58	40.31	43.05	-90.49	191.24	-1,024.91	1,023.94	966.83	57.11	17.929		
11,309.74	11,301.43	11,378.98	11,304.03	40.35	43.08	-90.59	189.54	-1,024.89	1,023.94	966.78	57.16	17.914		
11,352.31	11,344.00	11,420.18	11,344.21	40.50	43.19	-91.09	180.47	-1,024.80	1,023.99	966.63	57.36	17.852		
11,400.00	11,391.64	11,465.11	11,387.16	40.66	43.31	89.23	167.32	-1,024.66	1,024.18	966.61	57.57	17.789		
11,450.00	11,441.22	11,511.33	11,430.12	40.81	43.42	88.55	150.32	-1,024.49	1,024.56	966.78	57.78	17.731		
11,500.00	11,490.06	11,556.70	11,470.84	40.95	43.53	87.89	130.31	-1,024.28	1,025.10	967.12	57.98	17.681		
11,550.00	11,537.79	11,600.00	11,508.09	41.09	43.62	87.26	108.28	-1,024.06	1,025.78	967.63	58.16	17.638		
11,600.00	11,584.05	11,645.24	11,545.13	41.22	43.70	86.62	82.32	-1,023.79	1,026.59	968.26	58.33	17.600		
11,650.00	11,628.48	11,688.53	11,578.55	41.35	43.77	86.02	54.82	-1,023.51	1,027.51	969.02	58.48	17.569		

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



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Mission Fed Com 704H
Project:	Lea County, NM (NAD83)	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Reference Site:	Merit/Mission Fed Com	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,700.00	11,670.74	11,731.26	11,609.40	41.47	43.84	85.45	25.28	-1,023.21	1,028.50	969.88	58.63	17.543		
11,750.00	11,710.52	11,773.47	11,637.64	41.58	43.89	84.91	-6.09	-1,022.89	1,029.56	970.80	58.76	17.522		
11,800.00	11,747.51	11,815.23	11,663.23	41.70	43.94	84.40	-39.08	-1,022.55	1,030.65	971.76	58.89	17.503		
11,850.00	11,781.42	11,856.59	11,686.14	41.81	43.99	83.93	-73.50	-1,022.20	1,031.75	972.74	59.00	17.486		
11,900.00	11,812.01	11,900.00	11,707.44	41.92	44.03	83.48	-111.30	-1,021.82	1,032.84	973.71	59.13	17.468		
11,950.00	11,839.04	11,938.29	11,723.82	42.03	44.06	83.11	-145.91	-1,021.46	1,033.89	974.65	59.24	17.453		
12,000.00	11,862.30	11,978.73	11,738.56	42.14	44.10	82.77	-183.55	-1,021.08	1,034.89	975.53	59.36	17.435		
12,050.00	11,881.61	12,018.94	11,750.54	42.25	44.14	82.47	-221.92	-1,020.69	1,035.82	976.34	59.48	17.414		
12,100.00	11,896.83	12,058.96	11,759.78	42.37	44.19	82.22	-260.86	-1,020.29	1,036.66	977.04	59.62	17.389		
12,150.00	11,907.85	12,100.00	11,766.40	42.48	44.24	82.02	-301.35	-1,019.88	1,037.40	977.64	59.76	17.359		
12,200.00	11,914.57	12,138.63	11,769.97	42.61	44.29	81.87	-339.81	-1,019.48	1,038.03	978.11	59.92	17.325		
12,232.27	11,916.61	12,164.27	11,770.90	42.69	44.34	81.80	-365.42	-1,019.22	1,038.37	978.35	60.02	17.300		
12,300.00	11,918.98	12,231.18	11,771.49	42.87	44.46	81.71	-432.32	-1,018.54	1,039.08	978.80	60.28	17.237		
12,400.00	11,922.47	12,331.14	11,772.36	43.19	44.71	81.57	-532.28	-1,017.52	1,040.14	979.40	60.74	17.125		
12,500.00	11,925.97	12,431.10	11,773.23	43.57	45.03	81.44	-632.23	-1,016.50	1,041.20	979.92	61.28	16.992		
12,600.00	11,929.47	12,531.07	11,774.09	44.02	45.42	81.30	-732.19	-1,015.48	1,042.27	980.37	61.90	16.839		
12,700.00	11,932.97	12,631.03	11,774.96	44.51	45.87	81.16	-832.14	-1,014.46	1,043.35	980.75	62.59	16.668		
12,800.00	11,936.46	12,730.99	11,775.83	45.07	46.39	81.02	-932.09	-1,013.44	1,044.43	981.06	63.37	16.482		
12,900.00	11,939.96	12,830.96	11,776.70	45.68	46.96	80.89	-1,032.05	-1,012.42	1,045.52	981.30	64.22	16.281		
13,000.00	11,943.46	12,930.92	11,777.57	46.34	47.59	80.75	-1,132.00	-1,011.40	1,046.61	981.47	65.14	16.068		
13,100.00	11,946.95	13,030.88	11,778.43	47.04	48.27	80.62	-1,231.96	-1,010.38	1,047.71	981.59	66.12	15.845		
13,200.00	11,950.45	13,130.85	11,779.30	47.80	49.00	80.48	-1,331.91	-1,009.36	1,048.82	981.64	67.17	15.614		
13,300.00	11,953.95	13,230.81	11,780.17	48.60	49.77	80.35	-1,431.86	-1,008.34	1,049.93	981.65	68.28	15.376		
13,400.00	11,957.45	13,330.77	11,781.04	49.44	50.59	80.21	-1,531.82	-1,007.31	1,051.05	981.60	69.45	15.134		
13,500.00	11,960.94	13,430.74	11,781.91	50.32	51.45	80.08	-1,631.77	-1,006.29	1,052.17	981.50	70.67	14.888		
13,600.00	11,964.44	13,530.70	11,782.77	51.24	52.35	79.94	-1,731.73	-1,005.27	1,053.30	981.35	71.95	14.640		
13,700.00	11,967.94	13,630.66	11,783.64	52.20	53.28	79.81	-1,831.68	-1,004.25	1,054.43	981.16	73.27	14.391		
13,800.00	11,971.43	13,730.63	11,784.51	53.19	54.25	79.67	-1,931.63	-1,003.23	1,055.57	980.93	74.64	14.142		
13,900.00	11,974.93	13,830.59	11,785.38	54.21	55.25	79.54	-2,031.59	-1,002.21	1,056.72	980.66	76.06	13.894		
14,000.00	11,978.43	13,930.55	11,786.25	55.26	56.28	79.41	-2,131.54	-1,001.19	1,057.87	980.36	77.51	13.648		
14,100.00	11,981.93	14,030.51	11,787.11	56.35	57.34	79.27	-2,231.50	-1,000.17	1,059.03	980.03	79.00	13.405		
14,200.00	11,985.42	14,130.48	11,787.98	57.46	58.43	79.14	-2,331.45	-999.15	1,060.19	979.66	80.53	13.165		
14,300.00	11,988.92	14,230.44	11,788.85	58.59	59.55	79.01	-2,431.41	-998.13	1,061.36	979.27	82.09	12.929		
14,400.00	11,992.42	14,330.40	11,789.72	59.75	60.69	78.88	-2,531.36	-997.11	1,062.54	978.85	83.69	12.696		
14,500.00	11,995.92	14,430.37	11,790.59	60.93	61.85	78.74	-2,631.31	-996.09	1,063.72	978.41	85.31	12.469		
14,600.00	11,999.41	14,530.33	11,791.45	62.14	63.03	78.61	-2,731.27	-995.07	1,064.90	977.94	86.96	12.245		
14,700.00	12,002.91	14,630.29	11,792.32	63.36	64.24	78.48	-2,831.22	-994.05	1,066.10	977.45	88.64	12.027		
14,800.00	12,006.41	14,730.26	11,793.19	64.60	65.46	78.35	-2,931.18	-993.03	1,067.29	976.95	90.35	11.813		
14,900.00	12,009.90	14,830.22	11,794.06	65.87	66.70	78.22	-3,031.13	-992.01	1,068.50	976.42	92.07	11.605		
15,000.00	12,013.40	14,930.18	11,794.93	67.14	67.96	78.09	-3,131.08	-990.99	1,069.70	975.89	93.82	11.402		
15,100.00	12,016.90	15,030.15	11,795.79	68.44	69.24	77.96	-3,231.04	-989.97	1,070.92	975.33	95.59	11.204		
15,200.00	12,020.40	15,130.11	11,796.66	69.75	70.53	77.83	-3,330.99	-988.95	1,072.14	974.76	97.37	11.010		
15,300.00	12,023.89	15,230.07	11,797.53	71.07	71.84	77.70	-3,430.95	-987.93	1,073.36	974.18	99.18	10.822		
15,400.00	12,027.39	15,330.03	11,798.40	72.41	73.16	77.57	-3,530.90	-986.90	1,074.59	973.59	101.00	10.639		
15,500.00	12,030.89	15,430.00	11,799.27	73.76	74.49	77.44	-3,630.85	-985.88	1,075.83	972.99	102.84	10.461		
15,600.00	12,034.38	15,529.96	11,800.13	75.13	75.84	77.31	-3,730.81	-984.86	1,077.07	972.38	104.69	10.288		
15,700.00	12,037.88	15,629.92	11,801.00	76.50	77.20	77.19	-3,830.76	-983.84	1,078.32	971.76	106.55	10.120		
15,800.00	12,041.38	15,729.89	11,801.87	77.88	78.57	77.06	-3,930.72	-982.82	1,079.57	971.14	108.43	9.956		
15,900.00	12,044.88	15,829.85	11,802.74	79.28	79.95	76.93	-4,030.67	-981.80	1,080.83	970.50	110.32	9.797		
16,000.00	12,048.37	15,929.81	11,803.61	80.69	81.34	76.80	-4,130.63	-980.78	1,082.09	969.87	112.22	9.642		
16,100.00	12,051.87	16,029.78	11,804.47	82.10	82.74	76.67	-4,230.58	-979.76	1,083.36	969.23	114.13	9.492		
16,200.00	12,055.37	16,129.74	11,805.34	83.52	84.15	76.55	-4,330.53	-978.74	1,084.63	968.58	116.05	9.346		

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 Mission Fed Com 704H
Project:	Lea County, NM (NAD83)	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Reference Site:	Merit/Mission Fed Com	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Merit/Mission Fed Com - Merit Fed Com 602H - OH - Plan #1		Offset Site Error: 0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
16,300.00	12,058.87	16,229.70	11,806.21	84.96	85.57	76.42	-4,430.49	-977.72	1,085.91	967.93	117.98	9.204				
16,400.00	12,062.36	16,329.67	11,807.08	86.39	86.99	76.30	-4,530.44	-976.70	1,087.19	967.27	119.92	9.066				
16,500.00	12,065.86	16,429.63	11,807.95	87.84	88.43	76.17	-4,630.40	-975.68	1,088.48	966.61	121.87	8.932				
16,600.00	12,069.36	16,529.59	11,808.81	89.30	89.87	76.04	-4,730.35	-974.66	1,089.78	965.95	123.82	8.801				
16,700.00	12,072.85	16,629.55	11,809.68	90.76	91.32	75.92	-4,830.30	-973.64	1,091.08	965.29	125.78	8.674				
16,800.00	12,076.35	16,729.52	11,810.55	92.23	92.77	75.79	-4,930.26	-972.62	1,092.38	964.63	127.75	8.551				
16,900.00	12,079.85	16,829.48	11,811.42	93.70	94.23	75.67	-5,030.21	-971.60	1,093.69	963.97	129.72	8.431				
17,000.00	12,083.35	16,929.44	11,812.29	95.18	95.70	75.54	-5,130.17	-970.58	1,095.01	963.31	131.70	8.314				
17,100.00	12,086.84	17,029.41	11,813.15	96.67	97.17	75.42	-5,230.12	-969.56	1,096.33	962.64	133.69	8.201				
17,200.00	12,090.34	17,129.37	11,814.02	98.16	98.65	75.30	-5,330.07	-968.54	1,097.66	961.98	135.67	8.090				
17,300.00	12,093.84	17,229.33	11,814.89	99.65	100.14	75.17	-5,430.03	-967.52	1,098.99	961.32	137.67	7.983				
17,400.00	12,097.34	17,329.30	11,815.76	101.15	101.63	75.05	-5,529.98	-966.49	1,100.32	960.66	139.66	7.878				
17,500.00	12,100.83	17,429.26	11,816.63	102.66	103.12	74.93	-5,629.94	-965.47	1,101.66	960.00	141.66	7.777				
17,600.00	12,104.33	17,529.22	11,817.49	104.17	104.62	74.80	-5,729.89	-964.45	1,103.01	959.34	143.67	7.678				
17,700.00	12,107.83	17,629.19	11,818.36	105.68	106.13	74.68	-5,829.85	-963.43	1,104.36	958.69	145.67	7.581				
17,800.00	12,111.32	17,729.15	11,819.23	107.20	107.64	74.56	-5,929.80	-962.41	1,105.72	958.03	147.68	7.487				
17,900.00	12,114.82	17,829.11	11,820.10	108.73	109.15	74.44	-6,029.75	-961.39	1,107.08	957.38	149.70	7.395				
18,000.00	12,118.32	17,929.08	11,820.97	110.25	110.66	74.32	-6,129.71	-960.37	1,108.44	956.73	151.71	7.306				
18,100.00	12,121.82	18,029.04	11,821.83	111.78	112.18	74.20	-6,229.66	-959.35	1,109.81	956.09	153.73	7.219				
18,200.00	12,125.31	18,129.00	11,822.70	113.32	113.71	74.07	-6,329.62	-958.33	1,111.19	955.45	155.74	7.135				
18,300.00	12,128.81	18,228.96	11,823.57	114.85	115.24	73.95	-6,429.57	-957.31	1,112.57	954.81	157.76	7.052				
18,400.00	12,132.31	18,328.93	11,824.44	116.39	116.77	73.83	-6,529.52	-956.29	1,113.96	954.17	159.79	6.972				
18,500.00	12,135.80	18,428.89	11,825.31	117.94	118.30	73.71	-6,629.48	-955.27	1,115.35	953.54	161.81	6.893				
18,600.00	12,139.30	18,528.85	11,826.17	119.48	119.84	73.59	-6,729.43	-954.25	1,116.74	952.91	163.83	6.816				
18,700.00	12,142.80	18,628.82	11,827.04	121.03	121.38	73.48	-6,829.39	-953.23	1,118.14	952.29	165.85	6.742				
18,800.00	12,146.30	18,728.78	11,827.91	122.58	122.92	73.36	-6,929.34	-952.21	1,119.55	951.67	167.88	6.669				
18,900.00	12,149.79	18,828.74	11,828.78	124.14	124.47	73.24	-7,029.30	-951.19	1,120.96	951.06	169.90	6.598				
19,000.00	12,153.29	18,928.71	11,829.65	125.69	126.02	73.12	-7,129.25	-950.17	1,122.37	950.45	171.93	6.528				
19,100.00	12,156.79	19,028.67	11,830.51	127.25	127.57	73.00	-7,229.20	-949.15	1,123.79	949.84	173.95	6.460				
19,200.00	12,160.29	19,128.63	11,831.38	128.82	129.12	72.88	-7,329.16	-948.13	1,125.22	949.24	175.98	6.394				
19,300.00	12,163.78	19,228.60	11,832.25	130.38	130.68	72.77	-7,429.11	-947.11	1,126.65	948.64	178.01	6.329				
19,400.00	12,167.28	19,328.56	11,833.12	131.95	132.24	72.65	-7,529.07	-946.08	1,128.08	948.05	180.03	6.266				
19,500.00	12,170.78	19,428.52	11,833.99	133.51	133.80	72.53	-7,629.02	-945.06	1,129.52	947.47	182.06	6.204				
19,600.00	12,174.27	19,528.48	11,834.85	135.08	135.36	72.41	-7,728.97	-944.04	1,130.96	946.88	184.08	6.144				
19,700.00	12,177.77	19,628.45	11,835.72	136.66	136.93	72.30	-7,828.93	-943.02	1,132.41	946.31	186.10	6.085				
19,800.00	12,181.27	19,728.41	11,836.59	138.23	138.49	72.18	-7,928.88	-942.00	1,133.87	945.74	188.13	6.027				
19,900.00	12,184.77	19,828.37	11,837.46	139.81	140.06	72.07	-8,028.84	-940.98	1,135.32	945.17	190.15	5.971				
20,000.00	12,188.26	19,928.34	11,838.33	141.39	141.63	71.95	-8,128.79	-939.96	1,136.78	944.62	192.17	5.916				
20,100.00	12,191.76	20,028.30	11,839.19	142.97	143.21	71.84	-8,228.74	-938.94	1,138.25	944.06	194.19	5.862				
20,200.00	12,195.26	20,128.26	11,840.06	144.55	144.78	71.72	-8,328.70	-937.92	1,139.72	943.51	196.21	5.809				
20,300.00	12,198.75	20,228.23	11,840.93	146.13	146.36	71.61	-8,428.65	-936.90	1,141.20	942.97	198.23	5.757				
20,400.00	12,202.25	20,328.19	11,841.80	147.71	147.93	71.49	-8,528.61	-935.88	1,142.68	942.44	200.24	5.706				
20,500.00	12,205.75	20,428.15	11,842.67	149.30	149.51	71.38	-8,628.56	-934.86	1,144.16	941.91	202.26	5.657				
20,600.00	12,209.25	20,528.12	11,843.53	150.89	151.09	71.26	-8,728.52	-933.84	1,145.65	941.38	204.27	5.609				
20,700.00	12,212.74	20,628.08	11,844.40	152.48	152.68	71.15	-8,828.47	-932.82	1,147.15	940.87	206.28	5.561				
20,800.00	12,216.24	20,728.04	11,845.27	154.07	154.26	71.04	-8,928.42	-931.80	1,148.64	940.35	208.29	5.515				
20,900.00	12,219.74	20,828.01	11,846.14	155.66	155.85	70.93	-9,028.38	-930.78	1,150.15	939.85	210.30	5.469				
21,000.00	12,223.24	20,927.97	11,847.01	157.25	157.43	70.81	-9,128.33	-929.76	1,151.66	939.35	212.31	5.425				
21,100.00	12,226.73	21,027.93	11,847.87	158.85	159.02	70.70	-9,228.29	-928.74	1,153.17	938.86	214.31	5.381				
21,200.00	12,230.23	21,127.89	11,848.74	160.44	160.61	70.59	-9,328.24	-927.72	1,154.68	938.37	216.31	5.338				
21,300.00	12,233.73	21,227.86	11,849.61	162.04	162.20	70.48	-9,428.19	-926.70	1,156.20	937.89	218.31	5.296				
21,400.00	12,237.22	21,327.82	11,850.48	163.64	163.79	70.37	-9,528.15	-925.68	1,157.73	937.42	220.31	5.255				

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 Mission Fed Com 704H
Project:	Lea County, NM (NAD83)	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Reference Site:	Merit/Mission Fed Com	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Merit/Mission Fed Com - Merit Fed Com 602H - OH - Plan #1												Offset Well Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
21,500.00	12,240.72	21,427.78	11,851.35	165.23	165.39	70.25	-9,628.10	-924.65	1,159.26	936.95	222.31	5.215	
21,600.00	12,244.22	21,527.75	11,852.21	166.83	166.98	70.14	-9,728.06	-923.63	1,160.79	936.49	224.30	5.175	
21,700.00	12,247.72	21,627.71	11,853.08	168.44	168.58	70.03	-9,828.01	-922.61	1,162.33	936.04	226.29	5.136	
21,800.00	12,251.21	21,727.67	11,853.95	170.04	170.17	69.92	-9,927.96	-921.59	1,163.87	935.59	228.28	5.098	
21,900.00	12,254.71	21,827.64	11,854.82	171.64	171.77	69.81	-10,027.92	-920.57	1,165.42	935.15	230.27	5.061	
22,000.00	12,258.21	21,927.60	11,855.69	173.24	173.37	69.70	-10,127.87	-919.55	1,166.97	934.71	232.25	5.025	
22,058.12	12,260.24	21,985.60	11,856.19	174.18	174.30	69.64	-10,185.87	-918.96	1,167.87	934.46	233.41	5.004	

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 Mission Fed Com 704H
Project:	Lea County, NM (NAD83)	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Reference Site:	Merit/Mission Fed Com	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Merit/Mission Fed Com - Merit Fed Com 703H - OH - Plan #1		Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	1.50	1.50	0.00	0.00	-90.46	-0.28	-35.00	35.00							
100.00	100.00	101.50	101.50	0.13	0.13	-90.46	-0.28	-35.00	35.00	34.82	0.18	193.081				
200.00	200.00	201.50	201.50	0.48	0.49	-90.46	-0.28	-35.00	35.00	34.31	0.69	50.859				
300.00	300.00	301.50	301.50	0.84	0.85	-90.46	-0.28	-35.00	35.00	33.81	1.20	29.286				
400.00	400.00	401.50	401.50	1.20	1.21	-90.46	-0.28	-35.00	35.00	33.30	1.70	20.563				
500.00	500.00	501.50	501.50	1.56	1.56	-90.46	-0.28	-35.00	35.00	32.79	2.21	15.844				
600.00	600.00	601.50	601.50	1.92	1.92	-90.46	-0.28	-35.00	35.00	32.29	2.72	12.887				
700.00	700.00	701.50	701.50	2.28	2.28	-90.46	-0.28	-35.00	35.00	31.78	3.22	10.860				
800.00	800.00	801.50	801.50	2.63	2.64	-90.46	-0.28	-35.00	35.00	31.27	3.73	9.384				
900.00	900.00	901.50	901.50	2.99	3.00	-90.46	-0.28	-35.00	35.00	30.76	4.24	8.261				
1,000.00	1,000.00	1,001.50	1,001.50	3.35	3.36	-90.46	-0.28	-35.00	35.00	30.26	4.74	7.378				
1,100.00	1,100.00	1,101.50	1,101.50	3.71	3.72	-90.46	-0.28	-35.00	35.00	29.75	5.25	6.666				
1,200.00	1,200.00	1,201.50	1,201.50	4.07	4.07	-90.46	-0.28	-35.00	35.00	29.24	5.76	6.079				
1,300.00	1,300.00	1,301.50	1,301.50	4.43	4.43	-90.46	-0.28	-35.00	35.00	28.74	6.26	5.587				
1,400.00	1,400.00	1,401.50	1,401.50	4.79	4.79	-90.46	-0.28	-35.00	35.00	28.23	6.77	5.169				
1,500.00	1,500.00	1,501.50	1,501.50	5.14	5.15	-90.46	-0.28	-35.00	35.00	27.72	7.28	4.809				
1,600.00	1,600.00	1,601.50	1,601.50	5.50	5.51	-90.46	-0.28	-35.00	35.00	27.22	7.79	4.496				
1,700.00	1,700.00	1,701.50	1,701.50	5.86	5.87	-90.46	-0.28	-35.00	35.00	26.71	8.29	4.221				
1,800.00	1,800.00	1,801.50	1,801.50	6.22	6.22	-90.46	-0.28	-35.00	35.00	26.20	8.80	3.978				
1,900.00	1,900.00	1,901.50	1,901.50	6.58	6.58	-90.46	-0.28	-35.00	35.00	25.69	9.31	3.761				
2,000.00	2,000.00	2,001.50	2,001.50	6.94	6.94	-90.46	-0.28	-35.00	35.00	25.19	9.81	3.567				
2,100.00	2,100.00	2,101.50	2,101.50	7.29	7.30	-90.46	-0.28	-35.00	35.00	24.68	10.32	3.391				
2,200.00	2,200.00	2,201.50	2,201.50	7.65	7.66	-90.46	-0.28	-35.00	35.00	24.17	10.83	3.233				
2,300.00	2,300.00	2,301.50	2,301.50	8.01	8.02	-90.46	-0.28	-35.00	35.00	23.67	11.33	3.088				
2,400.00	2,400.00	2,401.50	2,401.50	8.37	8.38	-90.46	-0.28	-35.00	35.00	23.16	11.84	2.956				
2,500.00	2,500.00	2,501.50	2,501.50	8.73	8.73	-90.46	-0.28	-35.00	35.00	22.65	12.35	2.835				
2,600.00	2,600.00	2,601.50	2,601.50	9.09	9.09	-90.46	-0.28	-35.00	35.00	22.15	12.86	2.723				
2,700.00	2,700.00	2,701.50	2,701.50	9.45	9.45	-90.46	-0.28	-35.00	35.00	21.64	13.36	2.619				
2,800.00	2,800.00	2,801.50	2,801.50	9.80	9.81	-90.46	-0.28	-35.00	35.00	21.13	13.87	2.524				
2,900.00	2,900.00	2,901.50	2,901.50	10.16	10.17	-90.46	-0.28	-35.00	35.00	20.63	14.38	2.435				
3,000.00	3,000.00	3,001.50	3,001.50	10.52	10.53	-90.46	-0.28	-35.00	35.00	20.12	14.88	2.352				
3,100.00	3,100.00	3,101.50	3,101.50	10.88	10.88	-90.46	-0.28	-35.00	35.00	19.61	15.39	2.274				
3,200.00	3,200.00	3,201.50	3,201.50	11.24	11.24	-90.46	-0.28	-35.00	35.00	19.10	15.90	2.202				
3,300.00	3,300.00	3,301.50	3,301.50	11.60	11.60	-90.46	-0.28	-35.00	35.00	18.60	16.40	2.134				
3,400.00	3,400.00	3,401.50	3,401.50	11.96	11.96	-90.46	-0.28	-35.00	35.00	18.09	16.91	2.070				
3,500.00	3,500.00	3,501.50	3,501.50	12.31	12.32	-90.46	-0.28	-35.00	35.00	17.58	17.42	2.010				
3,600.00	3,600.00	3,601.50	3,601.50	12.67	12.68	-90.46	-0.28	-35.00	35.00	17.08	17.92	1.953				
3,700.00	3,700.00	3,701.50	3,701.50	13.03	13.04	-90.46	-0.28	-35.00	35.00	16.57	18.43	1.899				
3,800.00	3,800.00	3,801.50	3,801.50	13.39	13.39	-90.46	-0.28	-35.00	35.00	16.06	18.94	1.848				
3,900.00	3,900.00	3,901.50	3,901.50	13.75	13.75	-90.46	-0.28	-35.00	35.00	15.56	19.45	1.800				
4,000.00	4,000.00	4,001.50	4,001.50	14.11	14.11	-90.46	-0.28	-35.00	35.00	15.05	19.95	1.754				
4,100.00	4,100.00	4,101.50	4,101.50	14.46	14.47	-90.46	-0.28	-35.00	35.00	14.54	20.46	1.711				
4,200.00	4,200.00	4,201.50	4,201.50	14.82	14.83	-90.46	-0.28	-35.00	35.00	14.03	20.97	1.669 CC				
4,202.40	4,202.40	4,203.90	4,203.90	14.83	14.84	-90.17	-0.28	-35.00	35.00	14.02	20.98	1.668				
4,300.00	4,299.99	4,301.49	4,301.49	15.18	15.19	-92.31	-0.28	-35.00	35.03	13.56	21.47	1.631				
4,400.00	4,399.91	4,401.41	4,401.41	15.54	15.54	-98.66	-0.28	-35.00	35.41	13.43	21.98	1.611 ES, SF				
4,500.00	4,499.69	4,501.18	4,501.18	15.90	15.90	-108.69	-0.28	-35.00	36.96	14.48	22.48	1.644				
4,533.26	4,532.84	4,534.08	4,534.08	16.02	16.02	-112.43	-0.23	-35.15	38.05	15.41	22.65	1.680				
4,600.00	4,599.32	4,600.00	4,599.99	16.25	16.25	-118.77	0.11	-36.25	41.44	18.46	22.97	1.803				
4,700.00	4,698.94	4,698.98	4,698.89	16.61	16.59	-124.41	1.26	-39.95	48.58	25.12	23.46	2.071				
4,800.00	4,798.56	4,797.74	4,797.44	16.97	16.94	-126.45	3.16	-46.08	57.54	33.60	23.94	2.403				
4,900.00	4,898.18	4,896.24	4,895.53	17.33	17.28	-126.16	5.81	-54.61	68.03	43.62	24.41	2.787				

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 Mission Fed Com 704H
Project:	Lea County, NM (NAD83)	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Reference Site:	Merit/Mission Fed Com	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,997.80	4,994.71	4,993.34	17.69	17.63	-124.53	9.18	-65.45	80.01	55.13	24.88	3.215		
5,100.00	5,097.42	5,093.90	5,091.79	18.05	17.98	-123.00	12.76	-77.00	92.45	67.07	25.38	3.642		
5,200.00	5,197.04	5,193.10	5,190.25	18.41	18.34	-121.83	16.35	-88.54	104.93	79.05	25.88	4.055		
5,300.00	5,296.66	5,292.30	5,288.71	18.77	18.69	-120.91	19.93	-100.08	117.46	91.07	26.38	4.452		
5,400.00	5,396.28	5,391.49	5,387.17	19.14	19.05	-120.16	23.52	-111.63	130.00	103.12	26.88	4.836		
5,500.00	5,495.90	5,490.69	5,485.63	19.50	19.41	-119.55	27.10	-123.17	142.56	115.18	27.39	5.205		
5,600.00	5,595.52	5,589.89	5,584.08	19.87	19.77	-119.04	30.69	-134.72	155.14	127.25	27.89	5.562		
5,700.00	5,695.14	5,689.09	5,682.54	20.23	20.14	-118.60	34.27	-146.26	167.73	139.33	28.40	5.906		
5,800.00	5,794.76	5,788.28	5,781.00	20.60	20.50	-118.23	37.86	-157.80	180.32	151.41	28.91	6.238		
5,900.00	5,894.38	5,887.48	5,879.46	20.97	20.87	-117.90	41.44	-169.35	192.92	163.51	29.41	6.559		
6,000.00	5,994.00	5,986.68	5,977.92	21.33	21.23	-117.61	45.03	-180.89	205.53	175.60	29.92	6.868		
6,100.00	6,093.62	6,085.88	6,076.37	21.70	21.60	-117.36	48.61	-192.43	218.14	187.70	30.43	7.167		
6,200.00	6,193.24	6,185.07	6,174.83	22.07	21.97	-117.14	52.20	-203.98	230.75	199.81	30.95	7.457		
6,300.00	6,292.86	6,284.27	6,273.29	22.44	22.34	-116.93	55.78	-215.52	243.37	211.91	31.46	7.736		
6,400.00	6,392.48	6,383.47	6,371.75	22.81	22.72	-116.75	59.37	-227.06	255.99	224.02	31.97	8.007		
6,495.04	6,487.16	6,477.75	6,465.33	23.16	23.07	-116.59	62.77	-238.04	267.99	235.53	32.46	8.256		
6,500.00	6,492.10	6,482.66	6,470.21	23.18	23.09	-116.59	62.95	-238.61	268.62	236.13	32.48	8.269		
6,600.00	6,591.83	6,581.92	6,568.72	23.54	23.47	-116.34	66.54	-250.16	280.61	247.61	33.00	8.504		
6,700.00	6,691.72	6,681.24	6,667.30	23.91	23.84	-115.64	70.13	-261.72	291.48	257.98	33.50	8.700		
6,800.00	6,791.69	6,780.54	6,765.87	24.27	24.22	-114.54	73.72	-273.27	301.33	267.32	34.01	8.861		
6,828.31	6,820.00	6,808.64	6,793.76	24.37	24.33	-114.45	74.73	-276.54	303.95	269.80	34.15	8.901		
6,900.00	6,891.69	6,879.80	6,864.38	24.62	24.60	-113.38	77.30	-284.82	310.55	276.04	34.51	9.000		
7,000.00	6,991.69	6,979.06	6,962.90	24.98	24.97	-111.96	80.89	-296.37	319.92	284.92	35.01	9.139		
7,100.00	7,091.69	7,078.31	7,061.41	25.33	25.35	-110.63	84.48	-307.92	329.48	293.98	35.50	9.280		
7,200.00	7,191.69	7,177.56	7,159.93	25.69	25.73	-109.37	88.07	-319.47	339.21	303.20	36.00	9.421		
7,300.00	7,291.69	7,276.82	7,258.44	26.04	26.11	-108.18	91.65	-331.02	349.09	312.58	36.50	9.563		
7,400.00	7,391.69	7,376.07	7,356.96	26.40	26.50	-107.05	95.24	-342.57	359.11	322.11	37.00	9.705		
7,500.00	7,491.69	7,475.33	7,455.47	26.76	26.88	-105.99	98.83	-354.12	369.26	331.76	37.50	9.846		
7,600.00	7,591.69	7,574.58	7,553.99	27.11	27.26	-104.98	102.41	-365.67	379.54	341.53	38.00	9.987		
7,700.00	7,691.69	7,673.84	7,652.51	27.47	27.64	-104.03	106.00	-377.23	389.92	351.41	38.50	10.127		
7,800.00	7,791.69	7,773.09	7,751.02	27.82	28.03	-103.12	109.59	-388.78	400.40	361.40	39.01	10.265		
7,900.00	7,891.69	7,872.35	7,849.54	28.18	28.41	-102.27	113.18	-400.33	410.98	371.47	39.51	10.403		
8,000.00	7,991.69	7,971.60	7,948.05	28.54	28.80	-101.45	116.76	-411.88	421.65	381.64	40.01	10.539		
8,100.00	8,091.69	8,070.86	8,046.57	28.89	29.18	-100.68	120.35	-423.43	432.39	391.88	40.51	10.674		
8,200.00	8,191.69	8,170.11	8,145.08	29.25	29.57	-99.94	123.94	-434.98	443.21	402.20	41.01	10.807		
8,300.00	8,291.69	8,269.37	8,243.60	29.61	29.95	-99.24	127.52	-446.53	454.10	412.59	41.51	10.939		
8,400.00	8,391.69	8,368.62	8,342.11	29.96	30.34	-98.57	131.11	-458.08	465.05	423.04	42.02	11.069		
8,500.00	8,491.69	8,467.88	8,440.63	30.32	30.73	-97.93	134.70	-469.63	476.07	433.55	42.52	11.197		
8,600.00	8,591.69	8,567.13	8,539.14	30.67	31.12	-97.32	138.28	-481.18	487.14	444.11	43.02	11.323		
8,700.00	8,691.69	8,666.39	8,637.66	31.03	31.51	-96.74	141.87	-492.73	498.26	454.73	43.52	11.448		
8,800.00	8,791.69	8,765.64	8,736.17	31.39	31.89	-96.19	145.46	-504.28	509.43	465.40	44.03	11.571		
8,900.00	8,891.69	8,864.90	8,834.69	31.74	32.28	-95.65	149.05	-515.83	520.64	476.11	44.53	11.692		
9,000.00	8,991.69	8,964.15	8,933.20	32.10	32.67	-95.14	152.63	-527.38	531.90	486.87	45.03	11.811		
9,100.00	9,091.69	9,063.41	9,031.72	32.46	33.06	-94.65	156.22	-538.93	543.20	497.66	45.54	11.929		
9,200.00	9,191.69	9,162.66	9,130.23	32.81	33.45	-94.18	159.81	-550.48	554.53	508.49	46.04	12.044		
9,300.00	9,291.69	9,261.92	9,228.75	33.17	33.84	-93.73	163.39	-562.03	565.90	519.36	46.55	12.158		
9,400.00	9,391.69	9,361.17	9,327.26	33.53	34.23	-93.30	166.98	-573.58	577.31	530.26	47.05	12.270		
9,500.00	9,491.69	9,460.43	9,425.78	33.88	34.62	-92.88	170.57	-585.13	588.74	541.19	47.55	12.380		
9,600.00	9,591.69	9,559.68	9,524.29	34.24	35.02	-92.48	174.16	-596.68	600.21	552.15	48.06	12.489		
9,700.00	9,691.69	9,658.94	9,622.81	34.60	35.41	-92.10	177.74	-608.23	611.70	563.14	48.56	12.596		
9,800.00	9,791.69	9,758.19	9,721.32	34.95	35.80	-91.73	181.33	-619.78	623.22	574.15	49.07	12.701		
9,900.00	9,891.69	9,857.44	9,819.84	35.31	36.19	-91.37	184.92	-631.33	634.77	585.19	49.57	12.804		

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 Mission Fed Com 704H
Project:	Lea County, NM (NAD83)	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Reference Site:	Merit/Mission Fed Com	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,000.00	9,991.69	9,956.70	9,918.35	35.67	36.58	-91.03	188.50	-642.88	646.33	596.25	50.08	12.906		
10,100.00	10,091.69	10,060.36	10,021.26	36.03	36.99	-90.68	192.22	-654.86	657.85	607.23	50.62	12.997		
10,200.00	10,191.69	10,179.57	10,139.87	36.38	37.45	-90.37	195.73	-666.17	667.31	616.06	51.25	13.021		
10,300.00	10,291.69	10,299.41	10,259.43	36.74	37.90	-90.16	198.16	-673.97	673.82	621.97	51.85	12.996		
10,400.00	10,391.69	10,419.65	10,379.58	37.10	38.33	-90.04	199.47	-678.19	677.33	624.92	52.41	12.924		
10,500.00	10,491.69	10,533.27	10,493.19	37.45	38.72	-90.02	199.72	-679.00	678.00	625.07	52.93	12.809		
10,600.00	10,591.69	10,633.27	10,593.19	37.81	39.06	-90.02	199.72	-679.00	678.00	624.57	53.43	12.689		
10,700.00	10,691.69	10,733.27	10,693.19	38.17	39.40	-90.02	199.72	-679.00	678.00	624.07	53.93	12.571		
10,800.00	10,791.69	10,833.27	10,793.19	38.53	39.74	-90.02	199.72	-679.00	678.00	623.57	54.43	12.456		
10,900.00	10,891.69	10,933.27	10,893.19	38.88	40.09	-90.02	199.72	-679.00	678.00	623.07	54.93	12.343		
11,000.00	10,991.69	11,033.27	10,993.19	39.24	40.43	-90.02	199.72	-679.00	678.00	622.57	55.43	12.231		
11,100.00	11,091.69	11,133.27	11,093.19	39.60	40.77	-90.02	199.72	-679.00	678.00	622.07	55.93	12.122		
11,200.00	11,191.69	11,233.27	11,193.19	39.95	41.11	-90.02	199.72	-679.00	678.00	621.57	56.43	12.014		
11,300.00	11,291.69	11,333.27	11,293.19	40.31	41.46	-90.02	199.72	-679.00	678.00	621.07	56.93	11.909		
11,352.31	11,344.00	11,385.58	11,345.50	40.50	41.64	-90.02	199.72	-679.00	678.00	620.80	57.20	11.854		
11,400.00	11,391.64	11,433.21	11,393.14	40.66	41.80	91.12	199.72	-679.00	678.04	620.61	57.43	11.807		
11,450.00	11,441.22	11,483.16	11,443.08	40.81	41.97	91.62	199.55	-679.00	678.19	620.53	57.65	11.764		
11,500.00	11,490.06	11,534.27	11,494.05	40.95	42.13	92.22	196.02	-678.96	678.45	620.59	57.86	11.725		
11,550.00	11,537.79	11,586.07	11,545.18	41.09	42.28	92.80	187.82	-678.88	678.82	620.76	58.06	11.692		
11,600.00	11,584.05	11,638.57	11,596.03	41.22	42.43	93.37	174.83	-678.75	679.29	621.04	58.25	11.662		
11,650.00	11,628.48	11,691.77	11,646.13	41.35	42.57	93.91	156.99	-678.57	679.83	621.41	58.42	11.636		
11,700.00	11,670.74	11,745.68	11,694.98	41.47	42.70	94.42	134.24	-678.34	680.44	621.86	58.59	11.614		
11,750.00	11,710.52	11,800.28	11,742.06	41.58	42.82	94.90	106.63	-678.06	681.11	622.37	58.74	11.596		
11,800.00	11,747.51	11,855.54	11,786.82	41.70	42.92	95.35	74.26	-677.73	681.81	622.94	58.88	11.580		
11,850.00	11,781.42	11,911.44	11,828.71	41.81	43.02	95.75	37.28	-677.36	682.54	623.53	59.01	11.567		
11,900.00	11,812.01	11,967.93	11,867.18	41.92	43.09	96.10	-4.06	-676.94	683.26	624.13	59.13	11.555		
11,950.00	11,839.04	12,024.96	11,901.69	42.03	43.16	96.41	-49.43	-676.48	683.97	624.71	59.25	11.543		
12,000.00	11,862.30	12,082.46	11,931.75	42.14	43.22	96.65	-98.41	-675.99	684.64	625.26	59.38	11.531		
12,050.00	11,881.61	12,140.36	11,956.91	42.25	43.28	96.84	-150.52	-675.46	685.26	625.76	59.50	11.517		
12,100.00	11,896.83	12,198.56	11,976.77	42.37	43.35	96.97	-205.20	-674.91	685.82	626.18	59.64	11.500		
12,150.00	11,907.85	12,256.97	11,991.03	42.48	43.42	97.04	-261.83	-674.33	686.30	626.52	59.79	11.479		
12,200.00	11,914.57	12,315.51	11,999.46	42.61	43.52	97.04	-319.72	-673.75	686.70	626.75	59.95	11.455		
12,232.27	11,916.61	12,353.29	12,001.74	42.69	43.60	97.01	-357.43	-673.37	686.91	626.85	60.06	11.437		
12,300.00	11,918.98	12,422.51	12,002.50	42.87	43.76	96.87	-426.64	-672.67	687.18	626.85	60.33	11.390		
12,400.00	11,922.47	12,522.48	12,003.45	43.19	44.06	96.65	-526.59	-671.66	687.57	626.78	60.79	11.310		
12,500.00	11,925.97	12,622.44	12,004.41	43.57	44.43	96.43	-626.55	-670.65	687.97	626.63	61.34	11.215		
12,600.00	11,929.47	12,722.41	12,005.37	44.02	44.86	96.22	-726.50	-669.64	688.38	626.40	61.98	11.107		
12,700.00	11,932.97	12,822.37	12,006.32	44.51	45.35	96.00	-826.46	-668.62	688.80	626.11	62.69	10.987		
12,800.00	11,936.46	12,922.34	12,007.28	45.07	45.89	95.78	-926.41	-667.61	689.22	625.74	63.48	10.857		
12,900.00	11,939.96	13,022.30	12,008.24	45.68	46.49	95.57	-1,026.37	-666.60	689.66	625.31	64.35	10.718		
13,000.00	11,943.46	13,122.27	12,009.19	46.34	47.14	95.35	-1,126.33	-665.59	690.11	624.82	65.29	10.570		
13,100.00	11,946.95	13,222.23	12,010.15	47.04	47.83	95.14	-1,226.28	-664.58	690.57	624.27	66.30	10.416		
13,200.00	11,950.45	13,322.20	12,011.11	47.80	48.57	94.92	-1,326.24	-663.57	691.04	623.66	67.37	10.257		
13,300.00	11,953.95	13,422.16	12,012.06	48.60	49.36	94.71	-1,426.19	-662.56	691.51	623.00	68.51	10.094		
13,400.00	11,957.45	13,522.13	12,013.02	49.44	50.18	94.49	-1,526.15	-661.55	692.00	622.29	69.71	9.927		
13,500.00	11,960.94	13,622.09	12,013.98	50.32	51.05	94.28	-1,626.10	-660.54	692.50	621.53	70.96	9.759		
13,600.00	11,964.44	13,722.06	12,014.93	51.24	51.95	94.07	-1,726.06	-659.53	693.00	620.73	72.27	9.589		
13,700.00	11,967.94	13,822.02	12,015.89	52.20	52.89	93.85	-1,826.01	-658.52	693.52	619.88	73.63	9.418		
13,800.00	11,971.43	13,921.99	12,016.85	53.19	53.87	93.64	-1,925.97	-657.51	694.04	619.00	75.04	9.248		
13,900.00	11,974.93	14,021.95	12,017.80	54.21	54.87	93.43	-2,025.93	-656.50	694.58	618.08	76.50	9.079		
14,000.00	11,978.43	14,121.92	12,018.76	55.26	55.91	93.22	-2,125.88	-655.49	695.12	617.12	78.00	8.912		
14,100.00	11,981.93	14,221.89	12,019.72	56.35	56.97	93.00	-2,225.84	-654.48	695.68	616.14	79.54	8.746		

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 Mission Fed Com 704H
Project:	Lea County, NM (NAD83)	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Reference Site:	Merit/Mission Fed Com	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:		0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
14,200.00	11,985.42	14,321.85	12,020.68	57.46	58.07	92.79	-2,325.79	-653.47	696.24	615.12	81.12	8.583			
14,300.00	11,988.92	14,421.82	12,021.63	58.59	59.19	92.58	-2,425.75	-652.45	696.82	614.08	82.73	8.422			
14,400.00	11,992.42	14,521.78	12,022.59	59.75	60.33	92.37	-2,525.70	-651.44	697.40	613.01	84.38	8.265			
14,500.00	11,995.92	14,621.75	12,023.55	60.93	61.49	92.16	-2,625.66	-650.43	697.99	611.92	86.07	8.110			
14,600.00	11,999.41	14,721.71	12,024.50	62.14	62.68	91.95	-2,725.62	-649.42	698.59	610.81	87.78	7.959			
14,700.00	12,002.91	14,821.68	12,025.46	63.36	63.89	91.74	-2,825.57	-648.41	699.20	609.69	89.52	7.811			
14,800.00	12,006.41	14,921.64	12,026.42	64.60	65.12	91.53	-2,925.53	-647.40	699.82	608.54	91.28	7.666			
14,900.00	12,009.90	15,021.61	12,027.37	65.87	66.36	91.32	-3,025.48	-646.39	700.45	607.38	93.08	7.526			
15,000.00	12,013.40	15,121.57	12,028.33	67.14	67.63	91.11	-3,125.44	-645.38	701.09	606.20	94.89	7.388			
15,100.00	12,016.90	15,221.54	12,029.29	68.44	68.91	90.90	-3,225.39	-644.37	701.74	605.01	96.73	7.255			
15,200.00	12,020.40	15,321.50	12,030.24	69.75	70.20	90.69	-3,325.35	-643.36	702.40	603.81	98.59	7.125			
15,300.00	12,023.89	15,421.47	12,031.20	71.07	71.51	90.49	-3,425.31	-642.35	703.06	602.60	100.47	6.998			
15,400.00	12,027.39	15,521.43	12,032.16	72.41	72.84	90.28	-3,525.26	-641.34	703.74	601.38	102.36	6.875			
15,500.00	12,030.89	15,621.40	12,033.11	73.76	74.18	90.07	-3,625.22	-640.33	704.43	600.15	104.28	6.755			
15,600.00	12,034.38	15,721.37	12,034.07	75.13	75.52	89.87	-3,725.17	-639.32	705.12	598.91	106.21	6.639			
15,700.00	12,037.88	15,821.33	12,035.03	76.50	76.89	89.66	-3,825.13	-638.31	705.82	597.67	108.15	6.526			
15,800.00	12,041.38	15,921.30	12,035.98	77.88	78.26	89.45	-3,925.08	-637.29	706.54	596.42	110.11	6.417			
15,900.00	12,044.88	16,021.26	12,036.94	79.28	79.64	89.25	-4,025.04	-636.28	707.26	595.17	112.08	6.310			
16,000.00	12,048.37	16,121.23	12,037.90	80.69	81.03	89.04	-4,124.99	-635.27	707.99	593.92	114.07	6.207			
16,100.00	12,051.87	16,221.19	12,038.85	82.10	82.44	88.84	-4,224.95	-634.26	708.73	592.66	116.07	6.106			
16,200.00	12,055.37	16,321.16	12,039.81	83.52	83.85	88.64	-4,324.91	-633.25	709.48	591.40	118.07	6.009			
16,300.00	12,058.87	16,421.12	12,040.77	84.96	85.27	88.43	-4,424.86	-632.24	710.23	590.14	120.09	5.914			
16,400.00	12,062.36	16,521.09	12,041.72	86.39	86.70	88.23	-4,524.82	-631.23	711.00	588.88	122.12	5.822			
16,500.00	12,065.86	16,621.05	12,042.68	87.84	88.13	88.03	-4,624.77	-630.22	711.78	587.62	124.16	5.733			
16,600.00	12,069.36	16,721.02	12,043.64	89.30	89.58	87.83	-4,724.73	-629.21	712.56	586.36	126.20	5.646			
16,700.00	12,072.85	16,820.98	12,044.60	90.76	91.03	87.62	-4,824.68	-628.20	713.35	585.10	128.26	5.562			
16,800.00	12,076.35	16,920.95	12,045.55	92.23	92.49	87.42	-4,924.64	-627.19	714.16	583.84	130.32	5.480			
16,900.00	12,079.85	17,020.91	12,046.51	93.70	93.95	87.22	-5,024.60	-626.18	714.97	582.58	132.39	5.401			
17,000.00	12,083.35	17,120.88	12,047.47	95.18	95.42	87.02	-5,124.55	-625.17	715.79	581.33	134.46	5.323			
17,100.00	12,086.84	17,220.85	12,048.42	96.67	96.90	86.82	-5,224.51	-624.16	716.62	580.08	136.54	5.248			
17,200.00	12,090.34	17,320.81	12,049.38	98.16	98.38	86.62	-5,324.46	-623.15	717.45	578.83	138.63	5.175			
17,300.00	12,093.84	17,420.78	12,050.34	99.65	99.87	86.42	-5,424.42	-622.14	718.30	577.58	140.72	5.105			
17,400.00	12,097.34	17,520.74	12,051.29	101.15	101.36	86.22	-5,524.37	-621.12	719.15	576.34	142.81	5.036			
17,500.00	12,100.83	17,620.71	12,052.25	102.66	102.85	86.03	-5,624.33	-620.11	720.02	575.11	144.91	4.969			
17,600.00	12,104.33	17,720.67	12,053.21	104.17	104.36	85.83	-5,724.28	-619.10	720.89	573.88	147.01	4.904			
17,700.00	12,107.83	17,820.64	12,054.16	105.68	105.86	85.63	-5,824.24	-618.09	721.77	572.65	149.12	4.840			
17,800.00	12,111.32	17,920.60	12,055.12	107.20	107.37	85.44	-5,924.20	-617.08	722.66	571.43	151.23	4.779			
17,900.00	12,114.82	18,020.57	12,056.08	108.73	108.89	85.24	-6,024.15	-616.07	723.55	570.22	153.34	4.719			
18,000.00	12,118.32	18,120.53	12,057.03	110.25	110.41	85.04	-6,124.11	-615.06	724.46	569.01	155.45	4.660			
18,100.00	12,121.82	18,220.50	12,057.99	111.78	111.93	84.85	-6,224.06	-614.05	725.37	567.80	157.57	4.603			
18,200.00	12,125.31	18,320.46	12,058.95	113.32	113.45	84.65	-6,324.02	-613.04	726.30	566.61	159.69	4.548			
18,300.00	12,128.81	18,420.43	12,059.90	114.85	114.98	84.46	-6,423.97	-612.03	727.23	565.42	161.81	4.494			
18,400.00	12,132.31	18,520.39	12,060.86	116.39	116.52	84.27	-6,523.93	-611.02	728.17	564.24	163.93	4.442			
18,500.00	12,135.80	18,620.36	12,061.82	117.94	118.05	84.07	-6,623.89	-610.01	729.12	563.06	166.06	4.391			
18,600.00	12,139.30	18,720.33	12,062.77	119.48	119.59	83.88	-6,723.84	-609.00	730.07	561.89	168.18	4.341			
18,700.00	12,142.80	18,820.29	12,063.73	121.03	121.13	83.69	-6,823.80	-607.99	731.04	560.73	170.30	4.293			
18,800.00	12,146.30	18,920.26	12,064.69	122.58	122.68	83.50	-6,923.75	-606.98	732.01	559.58	172.43	4.245			
18,900.00	12,149.79	19,020.22	12,065.65	124.14	124.22	83.31	-7,023.71	-605.97	732.99	558.43	174.55	4.199			
19,000.00	12,153.29	19,120.19	12,066.60	125.69	125.77	83.11	-7,123.66	-604.95	733.98	557.30	176.68	4.154			
19,100.00	12,156.79	19,220.15	12,067.56	127.25	127.33	82.92	-7,223.62	-603.94	734.97	556.17	178.80	4.111			
19,200.00	12,160.29	19,320.12	12,068.52	128.82	128.88	82.73	-7,323.58	-602.93	735.98	555.05	180.93	4.068			
19,300.00	12,163.78	19,420.08	12,069.47	130.38	130.44	82.55	-7,423.53	-601.92	736.99	553.94	183.05	4.026			

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 Mission Fed Com 704H
Project:	Lea County, NM (NAD83)	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Reference Site:	Merit/Mission Fed Com	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:		0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
19,400.00	12,167.28	19,520.05	12,070.43	131.95	132.00	82.36	-7,523.49	-600.91	738.01	552.84	185.17	3.985			
19,500.00	12,170.78	19,620.01	12,071.39	133.51	133.56	82.17	-7,623.44	-599.90	739.04	551.74	187.30	3.946			
19,600.00	12,174.27	19,719.98	12,072.34	135.08	135.13	81.98	-7,723.40	-598.89	740.08	550.66	189.42	3.907			
19,700.00	12,177.77	19,819.94	12,073.30	136.66	136.69	81.79	-7,823.35	-597.88	741.12	549.59	191.54	3.869			
19,800.00	12,181.27	19,919.91	12,074.26	138.23	138.26	81.61	-7,923.31	-596.87	742.17	548.52	193.65	3.832			
19,900.00	12,184.77	20,019.87	12,075.21	139.81	139.83	81.42	-8,023.26	-595.86	743.23	547.46	195.77	3.796			
20,000.00	12,188.26	20,119.84	12,076.17	141.39	141.40	81.24	-8,123.22	-594.85	744.30	546.42	197.89	3.761			
20,100.00	12,191.76	20,219.81	12,077.13	142.97	142.98	81.05	-8,223.18	-593.84	745.38	545.38	200.00	3.727			
20,200.00	12,195.26	20,319.77	12,078.08	144.55	144.55	80.87	-8,323.13	-592.83	746.46	544.35	202.11	3.693			
20,300.00	12,198.75	20,419.74	12,079.04	146.13	146.13	80.68	-8,423.09	-591.82	747.55	543.34	204.22	3.661			
20,400.00	12,202.25	20,519.70	12,080.00	147.71	147.71	80.50	-8,523.04	-590.81	748.65	542.33	206.32	3.629			
20,500.00	12,205.75	20,619.67	12,080.95	149.30	149.29	80.32	-8,623.00	-589.80	749.76	541.33	208.42	3.597			
20,600.00	12,209.25	20,719.63	12,081.91	150.89	150.87	80.14	-8,722.95	-588.78	750.87	540.35	210.52	3.567			
20,700.00	12,212.74	20,819.60	12,082.87	152.48	152.46	79.95	-8,822.91	-587.77	752.00	539.37	212.62	3.537			
20,800.00	12,216.24	20,919.56	12,083.82	154.07	154.04	79.77	-8,922.87	-586.76	753.12	538.41	214.72	3.508			
20,900.00	12,219.74	21,019.53	12,084.78	155.66	155.63	79.59	-9,022.82	-585.75	754.26	537.45	216.81	3.479			
21,000.00	12,223.24	21,119.49	12,085.74	157.25	157.22	79.41	-9,122.78	-584.74	755.41	536.51	218.90	3.451			
21,100.00	12,226.73	21,219.46	12,086.69	158.85	158.80	79.23	-9,222.73	-583.73	756.56	535.58	220.98	3.424			
21,200.00	12,230.23	21,319.42	12,087.65	160.44	160.39	79.05	-9,322.69	-582.72	757.72	534.65	223.06	3.397			
21,300.00	12,233.73	21,419.39	12,088.61	162.04	161.99	78.88	-9,422.64	-581.71	758.88	533.74	225.14	3.371			
21,400.00	12,237.22	21,519.35	12,089.57	163.64	163.58	78.70	-9,522.60	-580.70	760.06	532.84	227.22	3.345			
21,500.00	12,240.72	21,619.32	12,090.52	165.23	165.17	78.52	-9,622.55	-579.69	761.24	531.95	229.29	3.320			
21,600.00	12,244.22	21,719.29	12,091.48	166.83	166.77	78.34	-9,722.51	-578.68	762.43	531.07	231.35	3.295			
21,700.00	12,247.72	21,819.25	12,092.44	168.44	168.36	78.17	-9,822.47	-577.67	763.62	530.20	233.42	3.271			
21,800.00	12,251.21	21,919.22	12,093.39	170.04	169.96	77.99	-9,922.42	-576.66	764.83	529.35	235.48	3.248			
21,900.00	12,254.71	22,019.18	12,094.35	171.64	171.56	77.82	-10,022.38	-575.65	766.04	528.50	237.53	3.225			
22,000.00	12,258.21	22,119.15	12,095.31	173.24	173.16	77.64	-10,122.33	-574.64	767.25	527.67	239.58	3.202			
22,058.12	12,260.24	22,177.25	12,095.86	174.18	174.09	77.54	-10,180.43	-574.05	767.96	527.19	240.77	3.190			

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



Total Directional Services

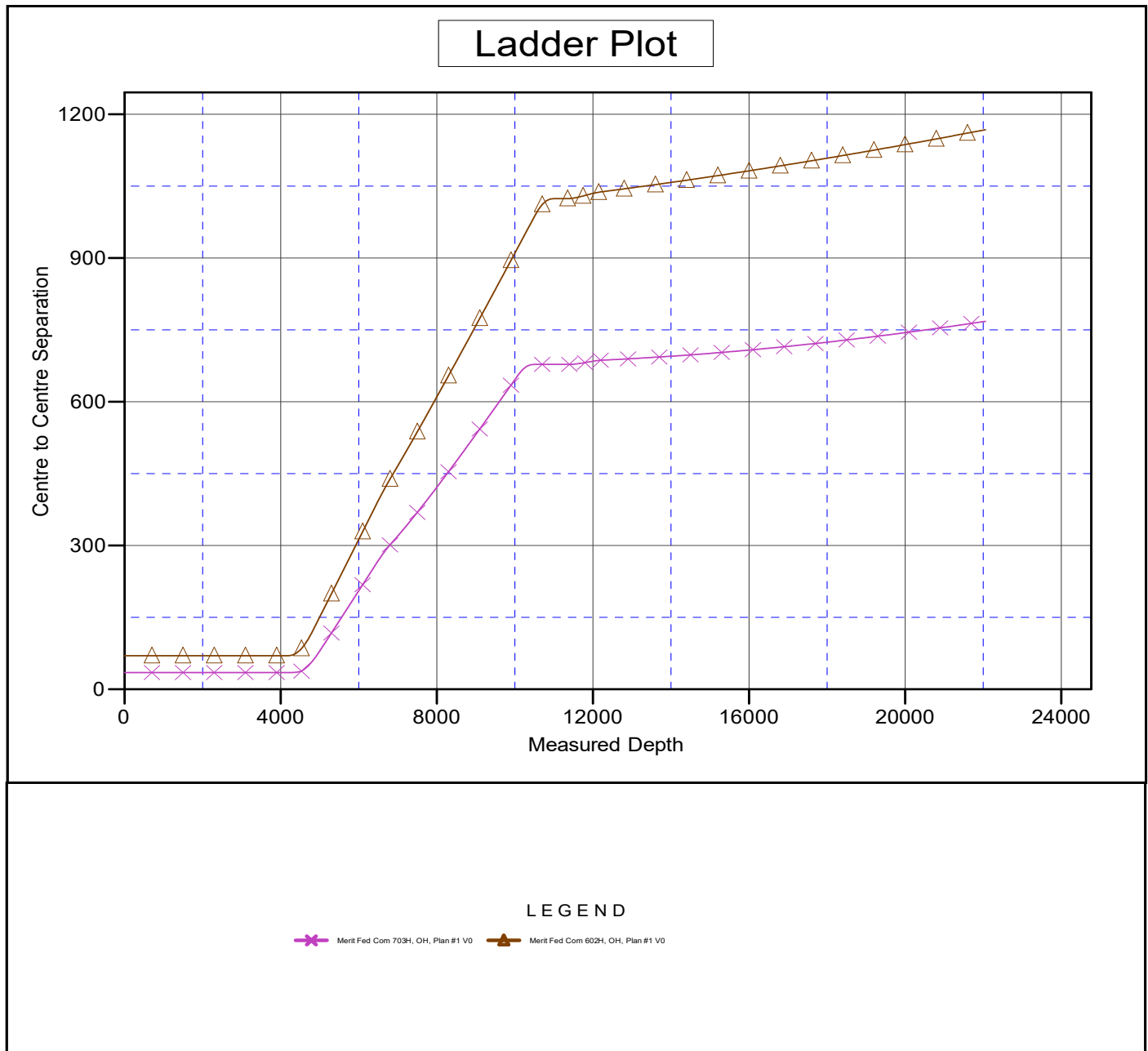
Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Mission Fed Com 704H
Project:	Lea County, NM (NAD83)	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Reference Site:	Merit/Mission Fed Com	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3323.4' GE + 30' KB @ 3353.40usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.333334

Coordinates are relative to: Mission Fed Com 704H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.54°



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 Mission Fed Com 704H
Project:	Lea County, NM (NAD83)	TVD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Reference Site:	Merit/Mission Fed Com	MD Reference:	3323.4' GE + 30' KB @ 3353.40usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Mission Fed Com 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3323.4' GE + 30' KB @ 3353.40usft

Offset Depths are relative to Offset Datum

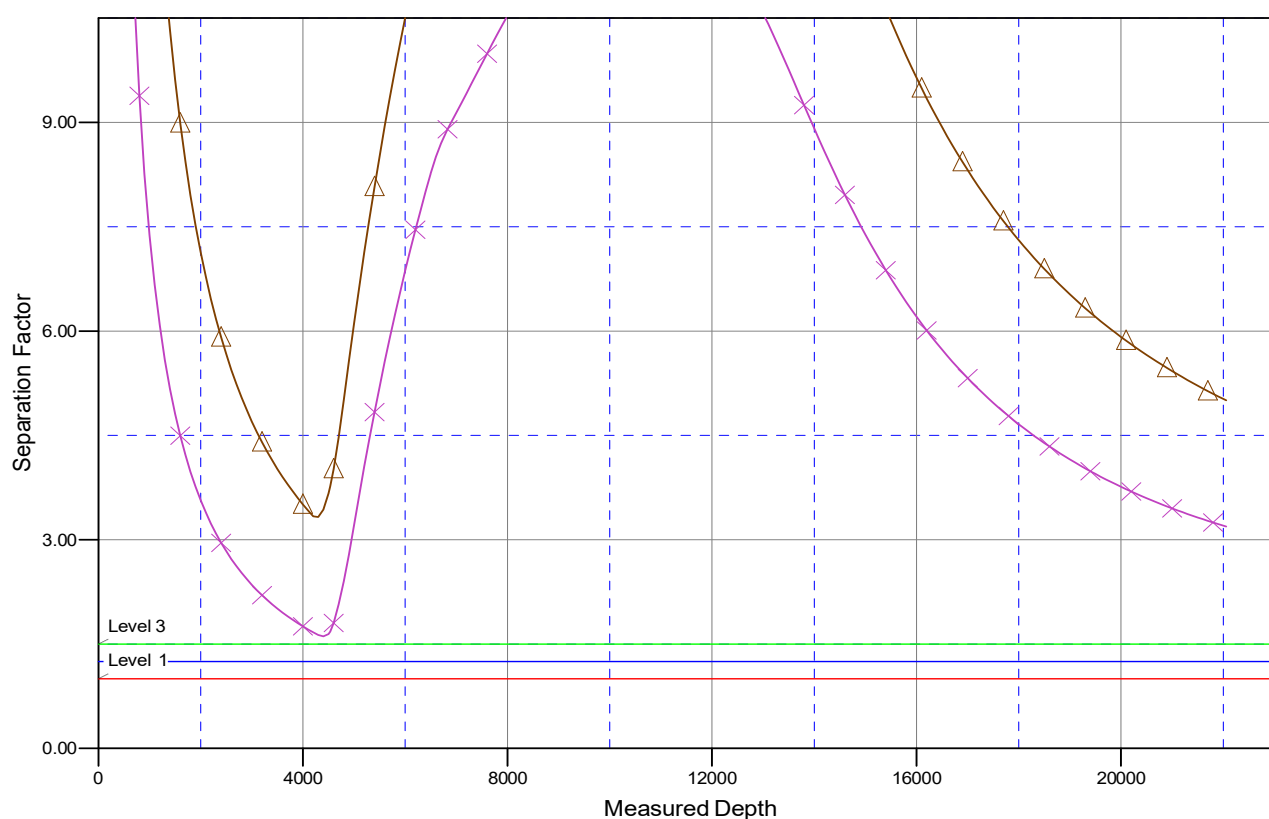
Central Meridian is -104.333334

Coordinates are relative to: Mission Fed Com 704H

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

Grid Convergence at Surface is: 0.54°

Separation Factor Plot



LEGEND

✕ Merit Fed Com 703H, OH, Plan #1 V0
 ▲ Merit Fed Com 602H, OH, Plan #1 V0



Mission Fed Com 704H

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)	3,324'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2,134'	1,220'			Carbonates
Salado	2,016'	1,338'			Salt, Carbonate & Clastics
Base Salt	-135'	3,489'			Carbonates
Capitan Reef Top	-1,253'	4,607'			Shaley Carbonate & Shale
Lamar	-1,700'	5,054'			Carbonate & Clastics
Bell Canyon	-1,758'	5,112'			Sandstone - oil/gas/water
Cherry Canyon	-2,646'	6,000'			Sandstone - oil/gas/water
Brushy Canyon	-4,067'	7,421'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,342'	8,696'			Shale/Carbonates - oil/gas
Avalon	-5,439'	8,793'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-6,631'	9,985'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-6,761'	10,115'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7,137'	10,491'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-7,685'	11,039'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-8,217'	11,571'			Sandstone - oil/gas/water
Wolfcamp	-8,534'	11,888'			Overpressure shale/sand- Oil/Gas
HZ Target	-8,550'	11,904'			Overpressure shale/sand- Oil/Gas
Wolfcamp A	-8,569'	11,923'			Overpressure Shale - Oil/Gas
Wolfcamp B	-8,761'	12,115'			Overpressure Shale - Oil/Gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	5,112'	Oil
Bone Spring	9,985'	Oil
Wolfcamp	11,888'	Oil

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

4. Casing Program:

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

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length	API design factor			
								Burst	Collapse	Tension	Coupling
Surface 13 3/8"	54.5	J-55	2730	1130	853	BTC 909	1300	1.18	1.67	4.99	5.32
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	BTC 1042	5400	1.72	1.67	2.90	3.30
Intermediate 7 5/8"	29.7	HCP-110	8280	7150	827	Stinger 564	12000	1.11	1.27	1.81	1.24
Long string 5 1/2"	23	P-110	14520	14520	729	Anaconda 656	22058	1.32	1.41	1.2	1.08



Preliminary plan is to set 7 5/8" string before entering Wolfcamp formation at 11,862'TVD/12,000'MD at 64° Inc due too potential overpressure. Safety factors calculated assuming the well is vertical.

Cementing Program:

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

String Type	Hole Size	Casing Size	Setting Depth	Sacks	Type of cmt	Lead Yield ft ³ /sk	Water gal/sk	TOC ft	Sacks	Type of cmt	Tail Yield ft ³ /sk	Water gal/sk	TOC	Excess
Surf	17.5	13.375	1300	795	Extenda Cem, 13.5 ppg Class C, 3lb/sk Kol-Seal	1.747	9.06	0	334	HalCem TM, 14.8 ppg, Class C, 1% CaCl ₂ , 0.125pps Celo-Flake	1.349	6.51	1000	100%
Int1	12.25	9.625	5400	1167	0.125pps Poly-E-Flake Neocem TM, 11.5 ppg, Class C 5% Salt,	2.444	14.32	0	153	0.125 pps Poly-E-Flake, 3lb/sk Kol-Seal HalCem TM, 14.8 ppg, Class C, 0.1% HR 800 .125 pps Poly-E-Flake	1.334	6.42	5100	100%
Int2	8.75	7.625	12000	340	NeoCem, 11 ppg, Class C 3lb/sk Bridgemaker Gel, 5% Salt, 5pps LCM, 0.25pps Cello-Flake	2.798	17.15	4400	112	NeoCem 13.2 ppg, Class C 0.25 pps Cello-Flake, 2% CaCl ₂	1.44	7.29	11000	50%
Prod	6.75	5.5	22058	814	NeoCem, 13.5 ppg, Gas Migration Control	1.357	6.65	11000						20%

5. Minimum Specifications for Pressure Control:

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated, and the ram-type will be equipped with blind rams on bottom and 4 ½" x 7" variable pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

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

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

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

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



6. Types and characteristics of the proposed mud system:

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

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,300'	Fresh - Gel	8.6-8.8	28-34	N/c
1,300' – 12,00'	Brine	8.8-10.2	28-34	N/c
12,000' – 22,058' 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 12,260' TVD (deepest point of the well) is 195F with an estimated maximum bottom-hole pressure (BHP) at the same point of 7,969 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. The drilling rig with walking/skidding capabilities will be used.

**12. Disposal/environmental concerns:**

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

13. Wellhead:

A multi-bowl wellhead system will be utilized.

After running the 13 3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5,000 psi pressure test. This pressure test will be repeated at least every 30 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.

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 45723

CONDITIONS

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 45723
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	9/30/2021