

Well Name: TRIUMPH FED COM	Well Location: T24S / R35E / SEC 14 / NENE / 32.224073 / -103.333945	County or Parish/State: LEA / NM
Well Number: 706H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM138888	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548598	Well Status: Drilling Well	Operator: FRANKLIN MOUNTAIN ENERGY LLC

Notice of Intent

Sundry ID: 2745885

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 08/12/2023	Time Sundry Submitted: 10:45
Date proposed operation will begin: 08/01/2023	

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 350' FEL Sec 23 24S 35E. SHL remains the same. Please see attached Directional Plan, revised 14-point plan, geo prog and C-102.

NOI Attachments

Procedure Description

- Triumph_Fed_Com_706H_Updated_14PP_13_20230812104519.pdf
- Triumph_Fed_Com_706H_Plan_2_20230812104519.pdf
- C_102_Triumph_Fed_Com_706H_2023_Extend_20230812104502.pdf
- Triumph_Fed_Com_706H_GEOPROG_prelim_V2_20230812104502.pdf

Received by OCD: 8/29/2023 8:07:31 AM

Page 2 of 21

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Lease Number: NMNM138888	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548598	Well Status: Drilling Well	Operator: FRANKLIN MOUNTAIN ENERGY LLC

Conditions of Approval

Additional

14_24_35_A_Sundry_ID_2745885_Triumph_Fed_Com_706H_Lea_NM138888_Franklin_Mountain_Energy_LLC_13_2
2c_10_19_2020_LV_20230823080504.pdf
Triumph_Fed_Com_706H_Dr_COA_Sundry_ID_2677707_20230823080504.pdf

Operator

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

Operator Electronic Signature: RACHAEL OVERBEY	Signed on: AUG 12, 2023 10:45 AM
Name: FRANKLIN MOUNTAIN ENERGY LLC	
Title: Director – Operations Planning and Regulatory	
Street Address: 44 COOK STREET, SUITE 1000	
City: Denver	State: CO
Phone: (720) 414-7868	
Email address: roverbey@fmellc.com	

Field

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: 08/25/2023
Signature: Chris Walls	

☐ AMENDED REPORT

17 OPERATOR CERTIFICATION	
<i>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.</i>	
 Signature	7/20/2023 Date
Rachael Overbey Printed Name	
roverbey@fmc.com E-mail Address	
18 SURVEYOR CERTIFICATION	
<i>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.</i>	
January 17, 2023	
Date of Survey	
Signature and Seal of Professional Surveyor:	
	
Certificate Number:	
NAD 83 (PPP #3)	
LATITUDE = 32°12'50.10" (32.213918°)	
LONGITUDE = -103°19'51.37" (-103.330935°)	
NAD 27 (PPP #3)	
LATITUDE = 32°12'49.65" (32.213791°)	
LONGITUDE = -103°19'49.68" (-103.330467°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 443003.04' E: 851352.37'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 442943.79' E: 810166.66'	
NAD 83 (BOTTOM HOLE LOCATION)	
LATITUDE = 32°11'46.27" (32.196186°)	
LONGITUDE = -103°19'51.38" (-103.330940°)	
NAD 27 (BOTTOM HOLE LOCATION)	
LATITUDE = 32°11'45.82" (32.196060°)	
LONGITUDE = -103°19'49.70" (-103.330473°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 436552.23' E: 851411.05'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 436493.16' E: 810225.09'	

Geologic Prognosis



Well Name	Triumph Fed Com 706H
Operator	Franklin Mountain Energy, LLC
Project Area	Mirror Unit
Well Type	10,000' Upper Wolfcamp Lateral
API	30025485980000
Permit Number	
Rig	

State	NM	County	Lea						
SHL	Township	24S/35E	Section	14	1,282'	FEL	269'	FNL	
BHL	Township	24S/35E	Section	23	350'	FEL	150'	FSL	
Surface Latitude	NAD 83		32.224073						
Surface Longitude	NAD 83		103.333945						
Bottom Hole Latitude	NAD 83		32.196186						
Bottom Hole Longitude	NAD 83		103.33094						
Ground Level	3,425'	Rig KB	30'	KB	3,455'				

Formations	PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
Cenozoic Alluvium (surface)	3,425'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	1,924'	1,531'			Carbonates
Salado	1,496'	1,959'			Salt, Carbonate & Clastics
Base Salt	-351'	3,806'			Shaley Carbonate & Shale
Lamar	-2,044'	5,499'			Carbonate & Clastics
Bell Canyon	-2,659'	6,114'			Sandstone - oil/gas/water
Cherry Canyon	-4,007'	7,462'			Sandstone - oil/gas/water
Brushy Canyon	-5,322'	8,777'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,377'	8,832'			Shale/Carbonates - oil/gas
Avalon	-5,530'	8,985'			Shale/Carbonates - oil/gas
Chert Zone	-5,530'	8,985'			Carbonate/chert
First Bone Spring Sand	-6,404'	9,859'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-6,514'	9,969'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7,042'	10,497'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-7,587'	11,042'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-8,064'	11,519'			Sandstone - oil/gas/water
Wolfcamp	-8,461'	11,916'			Overpressure shale/sand- Oil/Gas
Wolfcamp A	-8,579'	12,034'			Overpressure Shale - Oil/Gas
HZ Target	-8,651'	12,106'			Overpressure shale/sand- Oil/Gas
Wolfcamp B	-8,680'	12,135'			Overpressure Shale - Oil/Gas

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

Target window tolerance is set at +/- 15'

Target Line: 12,106' KBTVD @ 0° VS w/ 90.0° inc.

Offset Log: Elevate 702H_PH (30025485980000)

Updated: 6/26/2023

FME Geologist		Ellen Wilcox		ewilcox@fmellc.com	
		Office		Cell	585.880.1737
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	
	Jenna Tavares (jtavares@fmellc.com)			email	
Cuttings/Samples Shipment Information					

Franklin Mountain Energy

Lea Co., NM (NAD-83)

Mirror MH Pad 1 & 2

Triumph Fed Com 706H

OH

Plan 2

Standard Planning Report

03 July, 2023





Project: Lea Co., NM (NAD-83)
 Site: Mirror MH Pad 1 & 2
 Well: Triumph Fed Com 706H
 Wellbore: OH
 Design: Plan 2
 Lat: 32.224073
 Long: -103.333945
 GL: 3424.70
 KB: 30' KB @ 3454.70usft

WELL DETAILS: Triumph Fed Com 706H

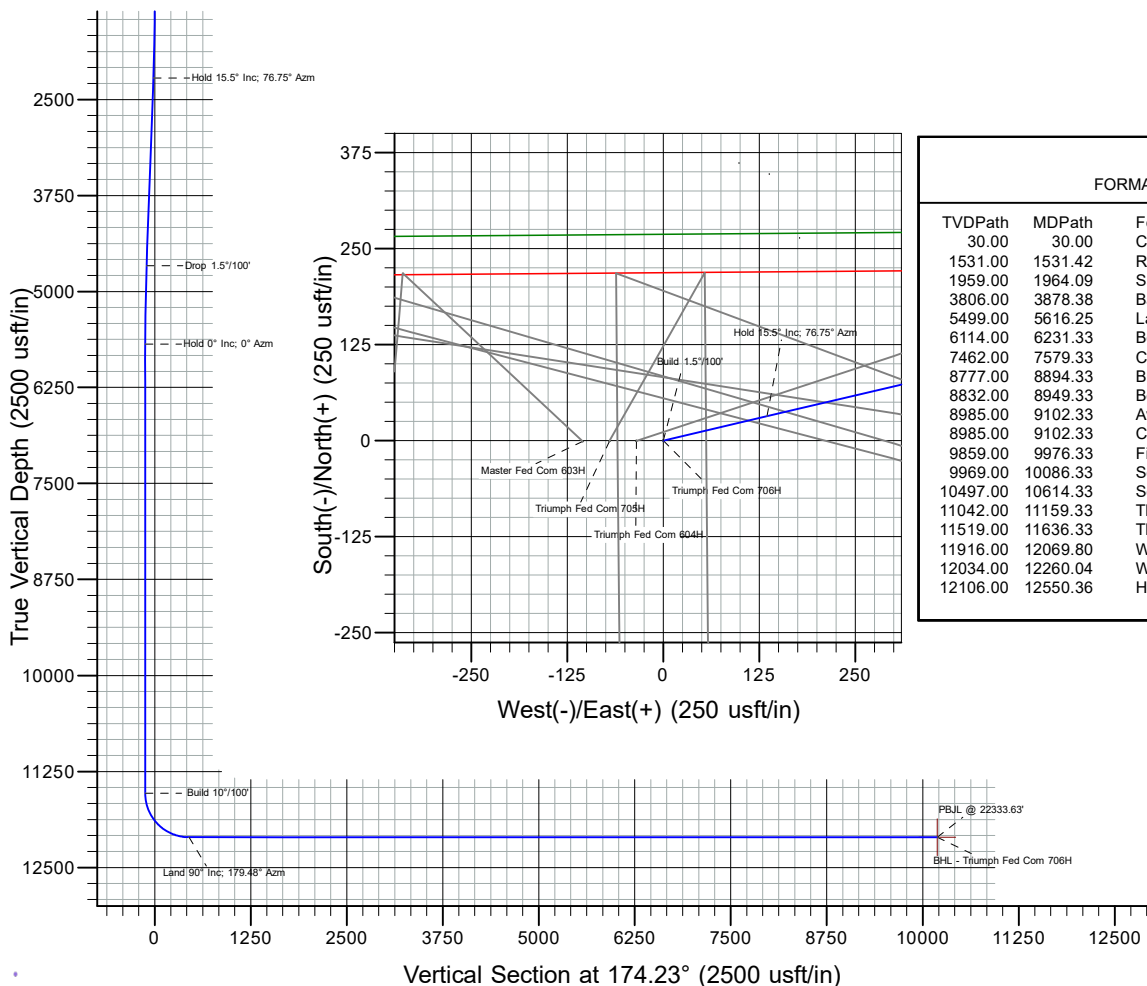
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	446689.02	850386.85	32.224073	-103.333945

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
KOP - Triumph Fed Com 706H	0.00	219.00	930.00	446908.02	851316.85	Point
BHL - Triumph Fed Com 706H	12106.00	-10136.79	1024.20	436552.23	851411.05	Point

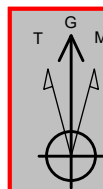
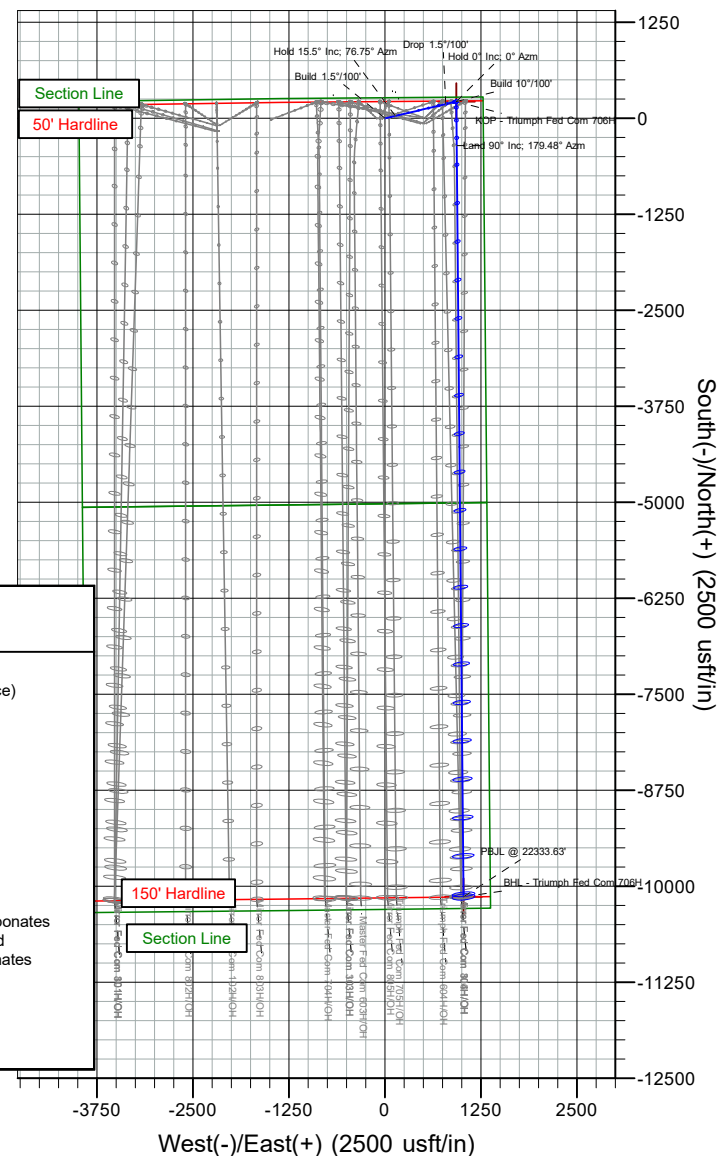
SECTION DETAILS

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	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	Build 1.5"/100'
2233.28	15.50	76.75	2220.73	31.84	135.21	1.50	76.75	-18.09	Hold 15.5" Inc; 76.75° Azm
4769.04	15.50	76.75	4664.27	187.16	794.79	0.00	0.00	-106.32	Drop 1.5"/100'
5802.33	0.00	0.00	5685.00	219.00	930.00	1.50	180.00	-124.41	Hold 0° Inc; 0° Azm
11650.37	0.00	0.00	11533.04	219.00	930.00	0.00	0.00	-124.41	Build 10"/100'
12550.37	90.00	179.48	12106.00	-353.93	935.21	10.00	179.48	446.15	Land 90° Inc; 179.48° Azm
22333.63	90.00	179.48	12106.00	-10136.79	1024.20	0.00	0.00	10188.40	PBJL @ 22333.63'



FORMATION TOPS

TVDPath	MDPath	Formation
30.00	30.00	Cenozoic Alluvium (surface)
1531.00	1531.42	Rustler
1959.00	1964.09	Salado
3806.00	3878.38	Base Salt
5499.00	5616.25	Lamar
6114.00	6231.33	Bell Canyon
7462.00	7579.33	Cherry Canyon
8777.00	8894.33	Brushy Canyon
8832.00	8949.33	Bone Spring Lime
8985.00	9102.33	Avalon
8985.00	9102.33	Chert Zone
9859.00	9976.33	First Bone Spring Sand
9969.00	10086.33	Second Bone Spring Carbonates
10497.00	10614.33	Second Bone Spring Sand
11042.00	11159.33	Third Bone Spring Carbonates
11519.00	11636.33	Third Bone Spring Sand
11916.00	12069.80	Wolfcamp
12034.00	12260.04	Wolfcamp A
12106.00	12550.36	HZ Target



Azimuths to Grid North
 True North: -0.53°
 Magnetic North: 5.76°

Magnetic Field
 Strength: 47453.8nT
 Dip Angle: 59.72°
 Date: 7/2/2023
 Model: HRGM



Plan: Plan 2 (Triumph Fed Com 706H/OH)

Created By: Dusty Moyer

Date: 20:44, July 03 2023

Planning Report



Database:	EDM 5000.17 Single User Db	Local Co-ordinate Reference:	Well Triumph Fed Com 706H
Company:	Franklin Mountain Energy	TVD Reference:	30' KB @ 3454.70usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	30' KB @ 3454.70usft
Site:	Mirror MH Pad 1 & 2	North Reference:	Grid
Well:	Triumph Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2		

Project	Lea Co., NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Mirror MH Pad 1 & 2			
Site Position:		Northing:	446,622.75 usft	Latitude:	32.223879
From:	Map	Easting:	850,849.76 usft	Longitude:	-103.332451
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	Triumph Fed Com 706H					
Well Position	+N/-S	0.00 usft	Northing:	446,689.02 usft	Latitude:	32.224073
	+E/-W	0.00 usft	Easting:	850,386.85 usft	Longitude:	-103.333946
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,424.70 usft
Grid Convergence:		0.53 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	7/2/2023	6.30	59.72	47,453.75555663

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	174.23	

Plan Survey Tool Program	Date	7/3/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	22,333.63 Plan 2 (OH)	MWD+HDGM		
			OWSG MWD + HRGM		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,233.28	15.50	76.75	2,220.73	31.84	135.21	1.50	1.50	0.00	76.75	
4,769.04	15.50	76.75	4,664.27	187.16	794.79	0.00	0.00	0.00	0.00	
5,802.33	0.00	0.00	5,685.00	219.00	930.00	1.50	-1.50	0.00	180.00	
11,650.37	0.00	0.00	11,533.04	219.00	930.00	0.00	0.00	0.00	0.00	
12,550.37	90.00	179.48	12,106.00	-353.93	935.21	10.00	10.00	0.00	179.48	
22,333.63	90.00	179.48	12,106.00	-10,136.79	1,024.20	0.00	0.00	0.00	0.00	

Planning Report



Database:	EDM 5000.17 Single User Db	Local Co-ordinate Reference:	Well Triumph Fed Com 706H
Company:	Franklin Mountain Energy	TVD Reference:	30' KB @ 3454.70usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	30' KB @ 3454.70usft
Site:	Mirror MH Pad 1 & 2	North Reference:	Grid
Well:	Triumph Fed Com 706H	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
30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00
Cenozoic Alluvium (surface)									
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
Build 1.5°/100'									
1,300.00	1.50	76.75	1,299.99	0.30	1.27	-0.17	1.50	1.50	0.00
1,400.00	3.00	76.75	1,399.91	1.20	5.10	-0.68	1.50	1.50	0.00
1,500.00	4.50	76.75	1,499.69	2.70	11.46	-1.53	1.50	1.50	0.00
1,531.42	4.97	76.75	1,531.00	3.29	13.99	-1.87	1.50	1.50	0.00
Rustler									
1,600.00	6.00	76.75	1,599.27	4.80	20.37	-2.72	1.50	1.50	0.00
1,700.00	7.50	76.75	1,698.57	7.49	31.81	-4.25	1.50	1.50	0.00
1,800.00	9.00	76.75	1,797.54	10.78	45.78	-6.12	1.50	1.50	0.00
1,900.00	10.50	76.75	1,896.09	14.66	62.26	-8.33	1.50	1.50	0.00
1,964.09	11.46	76.75	1,959.00	17.46	74.14	-9.92	1.50	1.50	0.00
Salado									
2,000.00	12.00	76.75	1,994.16	19.13	81.25	-10.87	1.50	1.50	0.00
2,100.00	13.50	76.75	2,091.70	24.19	102.73	-13.74	1.50	1.50	0.00
2,200.00	15.00	76.75	2,188.62	29.83	126.69	-16.95	1.50	1.50	0.00
2,233.28	15.50	76.75	2,220.73	31.84	135.21	-18.09	1.50	1.50	0.00
Hold 15.5° Inc; 76.75° Azm									
2,300.00	15.50	76.75	2,285.02	35.93	152.56	-20.41	0.00	0.00	0.00
2,400.00	15.50	76.75	2,381.38	42.05	178.57	-23.89	0.00	0.00	0.00
2,500.00	15.50	76.75	2,477.74	48.18	204.59	-27.37	0.00	0.00	0.00
2,600.00	15.50	76.75	2,574.11	54.30	230.60	-30.85	0.00	0.00	0.00
2,700.00	15.50	76.75	2,670.47	60.43	256.61	-34.33	0.00	0.00	0.00
2,800.00	15.50	76.75	2,766.83	66.55	282.62	-37.81	0.00	0.00	0.00
2,900.00	15.50	76.75	2,863.20	72.68	308.63	-41.29	0.00	0.00	0.00
3,000.00	15.50	76.75	2,959.56	78.80	334.64	-44.76	0.00	0.00	0.00
3,100.00	15.50	76.75	3,055.92	84.93	360.65	-48.24	0.00	0.00	0.00
3,200.00	15.50	76.75	3,152.29	91.05	386.66	-51.72	0.00	0.00	0.00
3,300.00	15.50	76.75	3,248.65	97.18	412.67	-55.20	0.00	0.00	0.00
3,400.00	15.50	76.75	3,345.02	103.30	438.69	-58.68	0.00	0.00	0.00
3,500.00	15.50	76.75	3,441.38	109.43	464.70	-62.16	0.00	0.00	0.00
3,600.00	15.50	76.75	3,537.74	115.55	490.71	-65.64	0.00	0.00	0.00
3,700.00	15.50	76.75	3,634.11	121.68	516.72	-69.12	0.00	0.00	0.00
3,800.00	15.50	76.75	3,730.47	127.80	542.73	-72.60	0.00	0.00	0.00
3,878.38	15.50	76.75	3,806.00	132.61	563.12	-75.33	0.00	0.00	0.00
Base Salt									
3,900.00	15.50	76.75	3,826.83	133.93	568.74	-76.08	0.00	0.00	0.00
4,000.00	15.50	76.75	3,923.20	140.05	594.75	-79.56	0.00	0.00	0.00
4,100.00	15.50	76.75	4,019.56	146.18	620.76	-83.04	0.00	0.00	0.00

Planning Report



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Project:	Lea Co., NM (NAD-83)	MD Reference:	30' KB @ 3454.70usft
Site:	Mirror MH Pad 1 & 2	North Reference:	Grid
Well:	Triumph Fed Com 706H	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)
4,200.00	15.50	76.75	4,115.92	152.31	646.78	-86.52	0.00	0.00	0.00
4,300.00	15.50	76.75	4,212.29	158.43	672.79	-90.00	0.00	0.00	0.00
4,400.00	15.50	76.75	4,308.65	164.56	698.80	-93.48	0.00	0.00	0.00
4,500.00	15.50	76.75	4,405.01	170.68	724.81	-96.96	0.00	0.00	0.00
4,600.00	15.50	76.75	4,501.38	176.81	750.82	-100.44	0.00	0.00	0.00
4,700.00	15.50	76.75	4,597.74	182.93	776.83	-103.92	0.00	0.00	0.00
4,769.04	15.50	76.75	4,664.27	187.16	794.79	-106.32	0.00	0.00	0.00
Drop 1.5°/100'									
4,800.00	15.03	76.75	4,694.14	189.03	802.72	-107.38	1.50	-1.50	0.00
4,900.00	13.53	76.75	4,791.04	194.68	826.74	-110.59	1.50	-1.50	0.00
5,000.00	12.03	76.75	4,888.56	199.76	848.28	-113.47	1.50	-1.50	0.00
5,100.00	10.53	76.75	4,986.62	204.24	867.33	-116.02	1.50	-1.50	0.00
5,200.00	9.03	76.75	5,085.17	208.14	883.87	-118.24	1.50	-1.50	0.00
5,300.00	7.53	76.75	5,184.12	211.44	897.90	-120.11	1.50	-1.50	0.00
5,400.00	6.03	76.75	5,283.42	214.15	909.39	-121.65	1.50	-1.50	0.00
5,500.00	4.53	76.75	5,382.99	216.26	918.36	-122.85	1.50	-1.50	0.00
5,600.00	3.03	76.75	5,482.77	217.77	924.79	-123.71	1.50	-1.50	0.00
5,616.25	2.79	76.75	5,499.00	217.96	925.59	-123.82	1.50	-1.50	0.00
Lamar									
5,700.00	1.53	76.75	5,582.68	218.69	928.67	-124.23	1.50	-1.50	0.00
5,800.00	0.03	76.75	5,682.67	219.00	930.00	-124.41	1.50	-1.50	0.00
5,802.33	0.00	0.00	5,685.00	219.00	930.00	-124.41	1.50	-1.50	0.00
Hold 0° Inc; 0° Azm									
5,900.00	0.00	0.00	5,782.67	219.00	930.00	-124.41	0.00	0.00	0.00
6,000.00	0.00	0.00	5,882.67	219.00	930.00	-124.41	0.00	0.00	0.00
6,100.00	0.00	0.00	5,982.67	219.00	930.00	-124.41	0.00	0.00	0.00
6,200.00	0.00	0.00	6,082.67	219.00	930.00	-124.41	0.00	0.00	0.00
6,231.33	0.00	0.00	6,114.00	219.00	930.00	-124.41	0.00	0.00	0.00
Bell Canyon									
6,300.00	0.00	0.00	6,182.67	219.00	930.00	-124.41	0.00	0.00	0.00
6,400.00	0.00	0.00	6,282.67	219.00	930.00	-124.41	0.00	0.00	0.00
6,500.00	0.00	0.00	6,382.67	219.00	930.00	-124.41	0.00	0.00	0.00
6,600.00	0.00	0.00	6,482.67	219.00	930.00	-124.41	0.00	0.00	0.00
6,700.00	0.00	0.00	6,582.67	219.00	930.00	-124.41	0.00	0.00	0.00
6,800.00	0.00	0.00	6,682.67	219.00	930.00	-124.41	0.00	0.00	0.00
6,900.00	0.00	0.00	6,782.67	219.00	930.00	-124.41	0.00	0.00	0.00
7,000.00	0.00	0.00	6,882.67	219.00	930.00	-124.41	0.00	0.00	0.00
7,100.00	0.00	0.00	6,982.67	219.00	930.00	-124.41	0.00	0.00	0.00
7,200.00	0.00	0.00	7,082.67	219.00	930.00	-124.41	0.00	0.00	0.00
7,300.00	0.00	0.00	7,182.67	219.00	930.00	-124.41	0.00	0.00	0.00
7,400.00	0.00	0.00	7,282.67	219.00	930.00	-124.41	0.00	0.00	0.00
7,500.00	0.00	0.00	7,382.67	219.00	930.00	-124.41	0.00	0.00	0.00
7,579.33	0.00	0.00	7,462.00	219.00	930.00	-124.41	0.00	0.00	0.00
Cherry Canyon									
7,600.00	0.00	0.00	7,482.67	219.00	930.00	-124.41	0.00	0.00	0.00
7,700.00	0.00	0.00	7,582.67	219.00	930.00	-124.41	0.00	0.00	0.00
7,800.00	0.00	0.00	7,682.67	219.00	930.00	-124.41	0.00	0.00	0.00
7,900.00	0.00	0.00	7,782.67	219.00	930.00	-124.41	0.00	0.00	0.00
8,000.00	0.00	0.00	7,882.67	219.00	930.00	-124.41	0.00	0.00	0.00
8,100.00	0.00	0.00	7,982.67	219.00	930.00	-124.41	0.00	0.00	0.00
8,200.00	0.00	0.00	8,082.67	219.00	930.00	-124.41	0.00	0.00	0.00
8,300.00	0.00	0.00	8,182.67	219.00	930.00	-124.41	0.00	0.00	0.00
8,400.00	0.00	0.00	8,282.67	219.00	930.00	-124.41	0.00	0.00	0.00

Planning Report



Database:	EDM 5000.17 Single User Db	Local Co-ordinate Reference:	Well Triumph Fed Com 706H
Company:	Franklin Mountain Energy	TVD Reference:	30' KB @ 3454.70usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	30' KB @ 3454.70usft
Site:	Mirror MH Pad 1 & 2	North Reference:	Grid
Well:	Triumph Fed Com 706H	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)	
8,500.00	0.00	0.00	8,382.67	219.00	930.00	-124.41	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,482.67	219.00	930.00	-124.41	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,582.67	219.00	930.00	-124.41	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,682.67	219.00	930.00	-124.41	0.00	0.00	0.00	
8,894.33	0.00	0.00	8,777.00	219.00	930.00	-124.41	0.00	0.00	0.00	
Brushy Canyon										
8,900.00	0.00	0.00	8,782.67	219.00	930.00	-124.41	0.00	0.00	0.00	
8,949.33	0.00	0.00	8,832.00	219.00	930.00	-124.41	0.00	0.00	0.00	
Bone Spring Lime										
9,000.00	0.00	0.00	8,882.67	219.00	930.00	-124.41	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,982.67	219.00	930.00	-124.41	0.00	0.00	0.00	
9,102.33	0.00	0.00	8,985.00	219.00	930.00	-124.41	0.00	0.00	0.00	
Avalon - Chert Zone										
9,200.00	0.00	0.00	9,082.67	219.00	930.00	-124.41	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,182.67	219.00	930.00	-124.41	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,282.67	219.00	930.00	-124.41	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,382.67	219.00	930.00	-124.41	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,482.67	219.00	930.00	-124.41	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,582.67	219.00	930.00	-124.41	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,682.67	219.00	930.00	-124.41	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,782.67	219.00	930.00	-124.41	0.00	0.00	0.00	
9,976.33	0.00	0.00	9,859.00	219.00	930.00	-124.41	0.00	0.00	0.00	
First Bone Spring Sand										
10,000.00	0.00	0.00	9,882.67	219.00	930.00	-124.41	0.00	0.00	0.00	
10,086.33	0.00	0.00	9,969.00	219.00	930.00	-124.41	0.00	0.00	0.00	
Second Bone Spring Carbonates										
10,100.00	0.00	0.00	9,982.67	219.00	930.00	-124.41	0.00	0.00	0.00	
10,200.00	0.00	0.00	10,082.67	219.00	930.00	-124.41	0.00	0.00	0.00	
10,300.00	0.00	0.00	10,182.67	219.00	930.00	-124.41	0.00	0.00	0.00	
10,400.00	0.00	0.00	10,282.67	219.00	930.00	-124.41	0.00	0.00	0.00	
10,500.00	0.00	0.00	10,382.67	219.00	930.00	-124.41	0.00	0.00	0.00	
10,600.00	0.00	0.00	10,482.67	219.00	930.00	-124.41	0.00	0.00	0.00	
10,614.33	0.00	0.00	10,497.00	219.00	930.00	-124.41	0.00	0.00	0.00	
Second Bone Spring Sand										
10,700.00	0.00	0.00	10,582.67	219.00	930.00	-124.41	0.00	0.00	0.00	
10,800.00	0.00	0.00	10,682.67	219.00	930.00	-124.41	0.00	0.00	0.00	
10,900.00	0.00	0.00	10,782.67	219.00	930.00	-124.41	0.00	0.00	0.00	
11,000.00	0.00	0.00	10,882.67	219.00	930.00	-124.41	0.00	0.00	0.00	
11,100.00	0.00	0.00	10,982.67	219.00	930.00	-124.41	0.00	0.00	0.00	
11,159.33	0.00	0.00	11,042.00	219.00	930.00	-124.41	0.00	0.00	0.00	
Third Bone Spring Carbonates										
11,200.00	0.00	0.00	11,082.67	219.00	930.00	-124.41	0.00	0.00	0.00	
11,300.00	0.00	0.00	11,182.67	219.00	930.00	-124.41	0.00	0.00	0.00	
11,400.00	0.00	0.00	11,282.67	219.00	930.00	-124.41	0.00	0.00	0.00	
11,500.00	0.00	0.00	11,382.67	219.00	930.00	-124.41	0.00	0.00	0.00	
11,600.00	0.00	0.00	11,482.67	219.00	930.00	-124.41	0.00	0.00	0.00	
11,636.33	0.00	0.00	11,519.00	219.00	930.00	-124.41	0.00	0.00	0.00	
Third Bone Spring Sand										
11,650.37	0.00	0.00	11,533.04	219.00	930.00	-124.41	0.00	0.00	0.00	
Build 10°/100'										
11,700.00	4.96	179.48	11,582.61	216.85	930.02	-122.27	10.00	10.00	0.00	
11,800.00	14.96	179.48	11,680.98	199.57	930.18	-105.06	10.00	10.00	0.00	
11,900.00	24.96	179.48	11,774.85	165.48	930.49	-71.11	10.00	10.00	0.00	

Planning Report



Database:	EDM 5000.17 Single User Db	Local Co-ordinate Reference:	Well Triumph Fed Com 706H
Company:	Franklin Mountain Energy	TVD Reference:	30' KB @ 3454.70usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	30' KB @ 3454.70usft
Site:	Mirror MH Pad 1 & 2	North Reference:	Grid
Well:	Triumph Fed Com 706H	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)
12,000.00	34.96	179.48	11,861.37	115.60	930.94	-21.43	10.00	10.00	0.00
12,069.80	41.94	179.48	11,916.00	72.22	931.34	21.76	10.00	10.00	0.00
Wolfcamp									
12,100.00	44.96	179.48	11,937.92	51.45	931.52	42.45	10.00	10.00	0.00
12,200.00	54.96	179.48	12,002.17	-25.01	932.22	118.59	10.00	10.00	0.00
12,260.04	60.97	179.48	12,034.00	-75.88	932.68	169.25	10.00	10.00	0.00
Wolfcamp A									
12,300.00	64.96	179.48	12,052.16	-111.47	933.01	204.69	10.00	10.00	0.00
12,400.00	74.96	179.48	12,086.38	-205.29	933.86	298.12	10.00	10.00	0.00
12,500.00	84.96	179.48	12,103.79	-303.63	934.75	396.06	10.00	10.00	0.00
12,550.36	90.00	179.48	12,106.00	-353.92	935.21	446.14	10.00	10.00	0.00
HZ Target									
12,550.37	90.00	179.48	12,106.00	-353.93	935.21	446.15	10.00	10.00	0.00
Land 90° Inc; 179.48° Azm									
12,600.00	90.00	179.48	12,106.00	-403.56	935.66	495.57	0.00	0.00	0.00
12,700.00	90.00	179.48	12,106.00	-503.56	936.57	595.15	0.00	0.00	0.00
12,800.00	90.00	179.48	12,106.00	-603.55	937.48	694.73	0.00	0.00	0.00
12,900.00	90.00	179.48	12,106.00	-703.55	938.39	794.31	0.00	0.00	0.00
13,000.00	90.00	179.48	12,106.00	-803.55	939.30	893.89	0.00	0.00	0.00
13,100.00	90.00	179.48	12,106.00	-903.54	940.21	993.48	0.00	0.00	0.00
13,200.00	90.00	179.48	12,106.00	-1,003.54	941.12	1,093.06	0.00	0.00	0.00
13,300.00	90.00	179.48	12,106.00	-1,103.53	942.03	1,192.64	0.00	0.00	0.00
13,400.00	90.00	179.48	12,106.00	-1,203.53	942.94	1,292.22	0.00	0.00	0.00
13,500.00	90.00	179.48	12,106.00	-1,303.52	943.85	1,391.80	0.00	0.00	0.00
13,600.00	90.00	179.48	12,106.00	-1,403.52	944.76	1,491.38	0.00	0.00	0.00
13,700.00	90.00	179.48	12,106.00	-1,503.52	945.67	1,590.96	0.00	0.00	0.00
13,800.00	90.00	179.48	12,106.00	-1,603.51	946.58	1,690.54	0.00	0.00	0.00
13,900.00	90.00	179.48	12,106.00	-1,703.51	947.49	1,790.12	0.00	0.00	0.00
14,000.00	90.00	179.48	12,106.00	-1,803.50	948.40	1,889.70	0.00	0.00	0.00
14,100.00	90.00	179.48	12,106.00	-1,903.50	949.31	1,989.28	0.00	0.00	0.00
14,200.00	90.00	179.48	12,106.00	-2,003.50	950.22	2,088.86	0.00	0.00	0.00
14,300.00	90.00	179.48	12,106.00	-2,103.49	951.13	2,188.45	0.00	0.00	0.00
14,400.00	90.00	179.48	12,106.00	-2,203.49	952.04	2,288.03	0.00	0.00	0.00
14,500.00	90.00	179.48	12,106.00	-2,303.48	952.95	2,387.61	0.00	0.00	0.00
14,600.00	90.00	179.48	12,106.00	-2,403.48	953.86	2,487.19	0.00	0.00	0.00
14,700.00	90.00	179.48	12,106.00	-2,503.47	954.76	2,586.77	0.00	0.00	0.00
14,800.00	90.00	179.48	12,106.00	-2,603.47	955.67	2,686.35	0.00	0.00	0.00
14,900.00	90.00	179.48	12,106.00	-2,703.47	956.58	2,785.93	0.00	0.00	0.00
15,000.00	90.00	179.48	12,106.00	-2,803.46	957.49	2,885.51	0.00	0.00	0.00
15,100.00	90.00	179.48	12,106.00	-2,903.46	958.40	2,985.09	0.00	0.00	0.00
15,200.00	90.00	179.48	12,106.00	-3,003.45	959.31	3,084.67	0.00	0.00	0.00
15,300.00	90.00	179.48	12,106.00	-3,103.45	960.22	3,184.25	0.00	0.00	0.00
15,400.00	90.00	179.48	12,106.00	-3,203.45	961.13	3,283.83	0.00	0.00	0.00
15,500.00	90.00	179.48	12,106.00	-3,303.44	962.04	3,383.42	0.00	0.00	0.00
15,600.00	90.00	179.48	12,106.00	-3,403.44	962.95	3,483.00	0.00	0.00	0.00
15,700.00	90.00	179.48	12,106.00	-3,503.43	963.86	3,582.58	0.00	0.00	0.00
15,800.00	90.00	179.48	12,106.00	-3,603.43	964.77	3,682.16	0.00	0.00	0.00
15,900.00	90.00	179.48	12,106.00	-3,703.43	965.68	3,781.74	0.00	0.00	0.00
16,000.00	90.00	179.48	12,106.00	-3,803.42	966.59	3,881.32	0.00	0.00	0.00
16,100.00	90.00	179.48	12,106.00	-3,903.42	967.50	3,980.90	0.00	0.00	0.00
16,200.00	90.00	179.48	12,106.00	-4,003.41	968.41	4,080.48	0.00	0.00	0.00
16,300.00	90.00	179.48	12,106.00	-4,103.41	969.32	4,180.06	0.00	0.00	0.00
16,400.00	90.00	179.48	12,106.00	-4,203.40	970.23	4,279.64	0.00	0.00	0.00

Planning Report



Database:	EDM 5000.17 Single User Db	Local Co-ordinate Reference:	Well Triumph Fed Com 706H
Company:	Franklin Mountain Energy	TVD Reference:	30' KB @ 3454.70usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	30' KB @ 3454.70usft
Site:	Mirror MH Pad 1 & 2	North Reference:	Grid
Well:	Triumph Fed Com 706H	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)	
16,500.00	90.00	179.48	12,106.00	-4,303.40	971.14	4,379.22	0.00	0.00	0.00	
16,600.00	90.00	179.48	12,106.00	-4,403.40	972.05	4,478.80	0.00	0.00	0.00	
16,700.00	90.00	179.48	12,106.00	-4,503.39	972.96	4,578.38	0.00	0.00	0.00	
16,800.00	90.00	179.48	12,106.00	-4,603.39	973.87	4,677.97	0.00	0.00	0.00	
16,900.00	90.00	179.48	12,106.00	-4,703.38	974.78	4,777.55	0.00	0.00	0.00	
17,000.00	90.00	179.48	12,106.00	-4,803.38	975.69	4,877.13	0.00	0.00	0.00	
17,100.00	90.00	179.48	12,106.00	-4,903.38	976.59	4,976.71	0.00	0.00	0.00	
17,200.00	90.00	179.48	12,106.00	-5,003.37	977.50	5,076.29	0.00	0.00	0.00	
17,300.00	90.00	179.48	12,106.00	-5,103.37	978.41	5,175.87	0.00	0.00	0.00	
17,400.00	90.00	179.48	12,106.00	-5,203.36	979.32	5,275.45	0.00	0.00	0.00	
17,500.00	90.00	179.48	12,106.00	-5,303.36	980.23	5,375.03	0.00	0.00	0.00	
17,600.00	90.00	179.48	12,106.00	-5,403.36	981.14	5,474.61	0.00	0.00	0.00	
17,700.00	90.00	179.48	12,106.00	-5,503.35	982.05	5,574.19	0.00	0.00	0.00	
17,800.00	90.00	179.48	12,106.00	-5,603.35	982.96	5,673.77	0.00	0.00	0.00	
17,900.00	90.00	179.48	12,106.00	-5,703.34	983.87	5,773.35	0.00	0.00	0.00	
18,000.00	90.00	179.48	12,106.00	-5,803.34	984.78	5,872.94	0.00	0.00	0.00	
18,100.00	90.00	179.48	12,106.00	-5,903.33	985.69	5,972.52	0.00	0.00	0.00	
18,200.00	90.00	179.48	12,106.00	-6,003.33	986.60	6,072.10	0.00	0.00	0.00	
18,300.00	90.00	179.48	12,106.00	-6,103.33	987.51	6,171.68	0.00	0.00	0.00	
18,400.00	90.00	179.48	12,106.00	-6,203.32	988.42	6,271.26	0.00	0.00	0.00	
18,500.00	90.00	179.48	12,106.00	-6,303.32	989.33	6,370.84	0.00	0.00	0.00	
18,600.00	90.00	179.48	12,106.00	-6,403.31	990.24	6,470.42	0.00	0.00	0.00	
18,700.00	90.00	179.48	12,106.00	-6,503.31	991.15	6,570.00	0.00	0.00	0.00	
18,800.00	90.00	179.48	12,106.00	-6,603.31	992.06	6,669.58	0.00	0.00	0.00	
18,900.00	90.00	179.48	12,106.00	-6,703.30	992.97	6,769.16	0.00	0.00	0.00	
19,000.00	90.00	179.48	12,106.00	-6,803.30	993.88	6,868.74	0.00	0.00	0.00	
19,100.00	90.00	179.48	12,106.00	-6,903.29	994.79	6,968.32	0.00	0.00	0.00	
19,200.00	90.00	179.48	12,106.00	-7,003.29	995.70	7,067.91	0.00	0.00	0.00	
19,300.00	90.00	179.48	12,106.00	-7,103.28	996.61	7,167.49	0.00	0.00	0.00	
19,400.00	90.00	179.48	12,106.00	-7,203.28	997.52	7,267.07	0.00	0.00	0.00	
19,500.00	90.00	179.48	12,106.00	-7,303.28	998.43	7,366.65	0.00	0.00	0.00	
19,600.00	90.00	179.48	12,106.00	-7,403.27	999.33	7,466.23	0.00	0.00	0.00	
19,700.00	90.00	179.48	12,106.00	-7,503.27	1,000.24	7,565.81	0.00	0.00	0.00	
19,800.00	90.00	179.48	12,106.00	-7,603.26	1,001.15	7,665.39	0.00	0.00	0.00	
19,900.00	90.00	179.48	12,106.00	-7,703.26	1,002.06	7,764.97	0.00	0.00	0.00	
20,000.00	90.00	179.48	12,106.00	-7,803.26	1,002.97	7,864.55	0.00	0.00	0.00	
20,100.00	90.00	179.48	12,106.00	-7,903.25	1,003.88	7,964.13	0.00	0.00	0.00	
20,200.00	90.00	179.48	12,106.00	-8,003.25	1,004.79	8,063.71	0.00	0.00	0.00	
20,300.00	90.00	179.48	12,106.00	-8,103.24	1,005.70	8,163.29	0.00	0.00	0.00	
20,400.00	90.00	179.48	12,106.00	-8,203.24	1,006.61	8,262.87	0.00	0.00	0.00	
20,500.00	90.00	179.48	12,106.00	-8,303.24	1,007.52	8,362.46	0.00	0.00	0.00	
20,600.00	90.00	179.48	12,106.00	-8,403.23	1,008.43	8,462.04	0.00	0.00	0.00	
20,700.00	90.00	179.48	12,106.00	-8,503.23	1,009.34	8,561.62	0.00	0.00	0.00	
20,800.00	90.00	179.48	12,106.00	-8,603.22	1,010.25	8,661.20	0.00	0.00	0.00	
20,900.00	90.00	179.48	12,106.00	-8,703.22	1,011.16	8,760.78	0.00	0.00	0.00	
21,000.00	90.00	179.48	12,106.00	-8,803.21	1,012.07	8,860.36	0.00	0.00	0.00	
21,100.00	90.00	179.48	12,106.00	-8,903.21	1,012.98	8,959.94	0.00	0.00	0.00	
21,200.00	90.00	179.48	12,106.00	-9,003.21	1,013.89	9,059.52	0.00	0.00	0.00	
21,300.00	90.00	179.48	12,106.00	-9,103.20	1,014.80	9,159.10	0.00	0.00	0.00	
21,400.00	90.00	179.48	12,106.00	-9,203.20	1,015.71	9,258.68	0.00	0.00	0.00	
21,500.00	90.00	179.48	12,106.00	-9,303.19	1,016.62	9,358.26	0.00	0.00	0.00	
21,600.00	90.00	179.48	12,106.00	-9,403.19	1,017.53	9,457.84	0.00	0.00	0.00	
21,700.00	90.00	179.48	12,106.00	-9,503.19	1,018.44	9,557.43	0.00	0.00	0.00	
21,800.00	90.00	179.48	12,106.00	-9,603.18	1,019.35	9,657.01	0.00	0.00	0.00	

Planning Report



Database:	EDM 5000.17 Single User Db	Local Co-ordinate Reference:	Well Triumph Fed Com 706H
Company:	Franklin Mountain Energy	TVD Reference:	30' KB @ 3454.70usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	30' KB @ 3454.70usft
Site:	Mirror MH Pad 1 & 2	North Reference:	Grid
Well:	Triumph Fed Com 706H	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)
21,900.00	90.00	179.48	12,106.00	-9,703.18	1,020.26	9,756.59	0.00	0.00	0.00
22,000.00	90.00	179.48	12,106.00	-9,803.17	1,021.17	9,856.17	0.00	0.00	0.00
22,100.00	90.00	179.48	12,106.00	-9,903.17	1,022.07	9,955.75	0.00	0.00	0.00
22,200.00	90.00	179.48	12,106.00	-10,003.16	1,022.98	10,055.33	0.00	0.00	0.00
22,300.00	90.00	179.48	12,106.00	-10,103.16	1,023.89	10,154.91	0.00	0.00	0.00
22,333.63	90.00	179.48	12,106.00	-10,136.79	1,024.20	10,188.40	0.00	0.00	0.00
PBJL @ 22333.63'									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
KOP - Triumph Fed Corr	0.00	0.00	0.00	219.00	930.00	446,908.02	851,316.85	32.224652	-103.330932
- plan misses target center by 955.44usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
BHL - Triumph Fed Com	0.00	0.00	12,106.00	-10,136.79	1,024.20	436,552.23	851,411.05	32.196186	-103.330940
- plan hits target center									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
30.00	30.00	Cenozoic Alluvium (surface)				
1,531.42	1,531.00	Rustler				
1,964.09	1,959.00	Salado				
3,878.38	3,806.00	Base Salt				
5,616.25	5,499.00	Lamar				
6,231.33	6,114.00	Bell Canyon				
7,579.33	7,462.00	Cherry Canyon				
8,894.33	8,777.00	Brushy Canyon				
8,949.33	8,832.00	Bone Spring Lime				
9,102.33	8,985.00	Avalon				
9,102.33	8,985.00	Chert Zone				
9,976.33	9,859.00	First Bone Spring Sand				
10,086.33	9,969.00	Second Bone Spring Carbonates				
10,614.33	10,497.00	Second Bone Spring Sand				
11,159.33	11,042.00	Third Bone Spring Carbonates				
11,636.33	11,519.00	Third Bone Spring Sand				
12,069.80	11,916.00	Wolfcamp				
12,260.04	12,034.00	Wolfcamp A				
12,550.36	12,106.00	HZ Target				

Planning Report



Database:	EDM 5000.17 Single User Db	Local Co-ordinate Reference:	Well Triumph Fed Com 706H
Company:	Franklin Mountain Energy	TVD Reference:	30' KB @ 3454.70usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	30' KB @ 3454.70usft
Site:	Mirror MH Pad 1 & 2	North Reference:	Grid
Well:	Triumph Fed Com 706H	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)		
1,200.00	1,200.00	0.00	0.00	Build 1.5°/100'	
2,233.28	2,220.73	31.84	135.21	Hold 15.5° Inc; 76.75° Azm	
4,769.04	4,664.27	187.16	794.79	Drop 1.5°/100'	
5,802.33	5,685.00	219.00	930.00	Hold 0° Inc; 0° Azm	
11,650.37	11,533.04	219.00	930.00	Build 10°/100'	
12,550.37	12,106.00	-353.93	935.21	Land 90° Inc; 179.48° Azm	
22,333.63	12,106.00	-10,136.79	1,024.20	PBJL @ 22333.63'	



Triumph Fed Com 706H

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)	3,425'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	1,924'	1,531'			Carbonates
Salado	1,496'	1,959'			Salt, Carbonate & Clastics
Base Salt	-351'	3,806'			Shaley Carbonate & Shale
Lamar	-2,044'	5,499'			Carbonate & Clastics
Bell Canyon	-2,659'	6,114'			Sandstone - oil/gas/water
Cherry Canyon	-4,007'	7,462'			Sandstone - oil/gas/water
Brushy Canyon	-5,322'	8,777'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,377'	8,832'			Shale/Carbonates - oil/gas
Avalon	-5,530'	8,985'			Shale/Carbonates - oil/gas
Chert Zone	-5,530'	8,985'			Carbonate/chert
First Bone Spring Sand	-6,404'	9,859'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-6,514'	9,969'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7,042'	10,497'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-7,587'	11,042'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-8,064'	11,519'			Sandstone - oil/gas/water
Wolfcamp	-8,461'	11,916'			Overpressure shale/sand- Oil/Gas
Wolfcamp A	-8,579'	12,034'			Overpressure Shale - Oil/Gas
HZ Target	-8,651'	12,106'			Overpressure shale/sand- Oil/Gas
Wolfcamp B	-8,680'	12,135'			Overpressure Shale - Oil/Gas

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

Upper Permian Sands	0-400'	Fresh Water
Delaware Sands	6,114'	Oil
Avalon	8,985'	Oil
Bone Spring	9,859'	Oil
Wolfcamp	11,916'	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 1,550' and circulating cement back to surface.

4. Casing Program:

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

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length	API design factor			
								Burst	Collapse	Tension	Coupling
Surface 13 3/8"	54.5	J-55	2730	1130	853	BTC 909	1,550	1.11	1.40	4.62	4.93
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	BTC 1042	5,650	1.67	1.60	2.81	3.20
Intermediate 7 5/8"	29.7	HCP-110	8280	7150	827	Liberty 558	11,500	1.15	1.33	1.87	1.26
Long string 5 1/2"	23	P-110	14520	14520	729	Eagle 606	22,333 12,106	1.32	1.39	1.19	0.99 1.60



7-5/8" casing will be set at 11,500' MD / 11,382' TVD at 0° inclination. Stress calculations on 5-1/2" casing performed assuming 22,333' depth. Actual max vertical depth is 12,106'.

Cementing Program:

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

String Type	Hole Size	Casing		Sacks	Type of cmt	Lead			TOC ft	Sacks	Type of cmt	Tail			TOC	Excess
		Size	Setting Depth			Yield ft ³ /sk	Water gal/sk					Yield ft ³ /sk	Water gal/sk			
Surf	17.5	13.375	1,550	994	Extenda Cem, 13.5 ppg Class C, 3lb/sk Kol-Seal 0.125pps Poly-E-Flake	1.747	9.06		0	335	Tail, 14.8 ppg, Class C, 1% CaCl ₂ , 0.125pps Celo-Flake	1.349	6.51		1,250	100%
Int1	12.25	9.625	5,650	2029	Lead, 12.8 ppg, Class C, 5% Salt 0.125 pps Poly-E-Flake, 3lb/sk Kol-Seal	1.45	6.9		0	154	Tail, 14.8 ppg, Class C, 0.1% HR 800 .125 pps Poly-E-Flake	1.33	6.3		5,350	100%
Int2	8.75	7.625	11,500	69	Lite Fill, 9.5 ppg, Class C 3lb/sk Bridgemaker Gel, 5% Salt, 5pps LCM, 0.25pps IntegraSeal	5.1	27.2		4,650	401	IntegraCem 14.8 ppg, Class H, P50H; 0.15% ASA 301; 0.5% FL-66; 0.25% R-21	1.33	6.31		7,500	30%
Prod	6.75	5.5	22,333	827	Tail, 13.5 ppg, Class HSLD 82H; 0.4% CFL-2; 4% STE; 0.07% CSA-1000; .29#/sk Salt; .29#/sk Gypseal	1.43	6.87		10,500							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 for 30 minutes to 0.22 psi/ft or 1500 psi, whichever is greater, but not to exceed 70% of Internal yield.

Before drilling out of the 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 intermediate casing will be for 30 minutes to 0.22 psi/ft or 1500 psi, whichever is greater, but not to exceed 70% of Internal yield prior to drill-out.

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 – 1,550'	Fresh - Gel	8.6-8.8	28-34	N/c
1,550' –11,500'	Brine	8.8-10.2	28-34	N/c
11,500' –22,333' 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 12,106' TVD (deepest point of the well) is 190°F with an estimated maximum bottom-hole pressure (BHP) at the same point of 7,869 psig (based on 12.5 ppg MW).

Hydrogen sulfide 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 100' 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 / Escape 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.
 - ii. 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 5,000 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 1,500 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 waive the centralizer requirements for the 7-5/8" casing due to the tight clearance with 9-5/8" string.
2. Variance is requested to waive/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
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 258461

CONDITIONS

Operator: Franklin Mountain Energy LLC 44 Cook Street, Suite 1000 Denver, CO 80206	OGRID: 373910
	Action Number: 258461
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	9/8/2023