

Well Name: GEORGETOWN FED COM	Well Location: T24S / R35E / SEC 9 / SWSW / 32.22568 / -103.377159	County or Parish/State: LEA / NM
Well Number: 601H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0001228, NMNM01228	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547264	Well Status: Drilling Well	Operator: FRANKLIN MOUNTAIN ENERGY LLC

Notice of Intent

Sundry ID: 2672716

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 05/20/2022	Time Sundry Submitted: 10:11
Date proposed operation will begin: 06/01/2022	

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: 3-string casing design with 4-string contingency. If losses are encountered the 4 string design would be utilized.

NOI Attachments

- Procedure Description**
- Georgetown_Fed_Com_601H___P3___WP_Report_20220523082052.pdf
 - GT601_3_string_with_4_string_cont_20220520101032.pdf

Received by OCD: 6/17/2022 8:08:33 AM

Page 2 of 21

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US Well Number: 3002547264	Well Status: Drilling Well	Operator: FRANKLIN MOUNTAIN ENERGY LLC

Conditions of Approval

Specialist Review

9_24_35_M_Sundry_ID_2672716_Georgetown_Fed_Com_601H_Lea_NM0001228_13_22b_4_29_2020_LV_Alt_20220523120322.pdf

Georgetown_Fed_Com_601H_Dr_COA_Sundry_ID_2672716_20220523120322.pdf

9_24_35_M_Sundry_ID_2672716_Georgetown_Fed_Com_601H_Lea_NM0001228_13_22b_4_29_2020_LV_20220523120322.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: MAY 23, 2022 08:23 AM
Name: FRANKLIN MOUNTAIN ENERGY LLC	
Title: Director – Operations Planning and Regulatory	
Street Address: 2401 E 2nd Avenue, Suite 300	
City: Denver	State: CO
Phone: (720) 414-7868	
Email address: roverbey@fmellc.com	

Field

Representative 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: 06/13/2022
Signature: Chris Walls	



Georgetown Fed Com 601H

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

Formations	PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
Cenozoic Alluvium (surface)	3,392'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2,748'	674'			Carbonates
Salado	2,135'	1,287'			Salt, Carbonate & Clastics
Base Salt	843'	2,579'			Shaley Carbonate & Shale
Potential Losses	-585'	4,007'			
Capitan Reef	-601'	4,023'			Carbonates
Lamar	-1,854'	5,276'			Carbonate & Clastics
Bell Canyon	-1,938'	5,360'			Sandstone - oil/gas/water
Cherry Canyon	-2,854'	6,276'			Sandstone - oil/gas/water
Brushy Canyon	-4,199'	7,621'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,518'	8,940'			Shale/Carbonates - oil/gas
Avalon	-5,545'	8,967'			Shale/Carbonates - oil/gas
Chert Zone	-5,733'	9,155'			Carbonates, chert
First Bone Spring Sand	-6,619'	10,041'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-6,809'	10,231'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7,210'	10,632'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-7,738'	11,160'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-8,193'	11,615'			Sandstone - oil/gas/water
HZ Target at SHL	-8,487'	11,909'			Overpressure shale/sand- Oil/Gas
Wolfcamp	-8,551'	11,973'			Overpressure shale/sand- Oil/Gas
Wolfcamp A	-8,592'	12,014'			Overpressure Shale - Oil/Gas
Wolfcamp B	-8,839'	12,261'			Overpressure Shale - Oil/Gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	5,361'	Oil
Bone Spring	10,043'	Oil
Wolfcamp	11,966'	Oil

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

4. Casing Program:

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

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length	API design factor			
								Burst	Collapse	Tension	Coupling
Surface 13 3/8"	54.5	J-55	2730	1130	853	BTC 909	1335	1.17	1.63	4.94	5.26
Intermediate 7 5/8"	29.7	HCP-110	8280	7150	827	Liberty 558	12261	1.08	1.25	1.78	1.20
Long string 5 1/2"	23	P-110	14520	14520	729	Eagle 606	21881	1.32	1.42	1.21	1.00
						TVD	11891				1.62

7 5/8" casing will be set at 12,261' MD/11,897' TVD at 91° Inc. Stress calculations on 5 1/2" casing performed assuming 21,881' depth. Actual max vertical depth is 11,891'.



Cementing program

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	1335	832	Extenda Cem, 13.5 ppg Class C, 3lb/sk Kol-Seal	1.728	9.06	0	330	Tail, 14.8 ppg, Class C, 1% CaCl ₂ , 0.125pps Celo-Flake	1.364	6.51	1035	100%
Int	12.25 8.75	7.625 7.625	5300 12261	1441	Lite Fill, 9.5 ppg, Class C 3lb/sk Bridgemaker Gel, 5% Salt, 5pps LCM, 0.25pps Cello-Flake	2.13	5.97	0	247	NeoCem 14.8 ppg, Class C 0.25 pps Cello-Flake, 2% CaCl ₂	1.33	6.29	9000	50%
Prod	6.75	5.5	21881	802	Tail, 14.5 ppg, Gas Migration Control	1.34	6.22	11261						20%

If drilling hazards are encountered during drilling of Intermediate section, it might be prudent to case off top portion of the hole to 5,300' with shoe being set in Lamar formation.

Below is FME's contingency plan.

5. Contingency 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	1335	1.17	1.63	4.94	5.26
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	BTC 1042	5300	1.75	1.71	2.94	3.34
Intermediate 7 5/8"	29.7	HCP-110	8280	7150	827	Liberty 558	12261	1.08	1.25	1.78	1.20
Long string 5 1/2"	23	P-110	14520	14520	729	Eagle 606	21881	1.32	1.42	1.21	1.00
						TVD	11891				1.62

7 5/8" casing will be set at 12,261' MD/11,897' TVD at 91° Inc. Stress calculations on 5 1/2" casing performed assuming 21,881' depth. Actual max vertical depth is 11,891'.



Contingency 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	1335	832	Extenda Cem, 13.5 ppg Class C, 3lb/sk Kol-Seal	1.728	9.06	0	330	Tail, 14.8 ppg, Class C,	1.364	6.51	1035	100%
Int1	12.25	9.625	5300	1553	0.125pps Poly-E-Flake Lead, 12.8 ppg, Class C 5% Salt,	1.79	9.74	0	154	1% CaCl ₂ , 0.125pps Celo-Flake Tail, 14.8 ppg, Class C,	1.33	6.37	5000	100%
Int2	8.75	7.625	12261	374	0.125 pps Poly-E-Flake, 3lb/sk Kol-Seal Lite Fill, 9.5 ppg, Class C 3lb/sk Bridgemaker Gel, 5% Salt, 5pps LCM, 0.25pps Cello-Flake	2.13	5.97	4300	94	NeoCem 14.8 ppg, Class C 0.25 pps Cello-Flake, 2% CaCl ₂	1.33	6.29	11261	50%
Prod	6.75	5.5	21881	802	Tail, 14.5 ppg, Gas Migration Control	1.34	6.22	11261						20%

6. 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.

7. 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 – 1,335'	Fresh - Gel	8.6-8.8	28-34	N/c
1,335' – 12,261'	Oil Base	9.2-9.8	45-55	3 - 6
12,261' – 21,881' Lateral	Oil Base	10.0-11.0	58-68	3 - 6

The highest mud weight needed to balance formation is expected to be 10-11 ppg. In order to maintain hole stability, mud weights up to 12 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.

8. 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.

9. 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.

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

The estimated bottom-hole temperature at 11,891' TVD (deepest point of the well) is 195F with an estimated maximum bottom-hole pressure (BHP) at the same point of 7,420 psig (based on 12 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:

11. 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/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. 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.

12. Anticipated starting date and duration of operations:

The drilling operations on the well should be finished in approximately one month. However, in order to minimize disturbance in the area and to improve efficiency Franklin Mountain is planning to drill all the wells on the pad prior to commence completion operations. To even further reduce the time heavy machinery is used the "batch drilling" method may be used. A batch drilling sequence sundry will be submitted for BLM approval prior to spud. A drilling rig with walking/skidding capabilities will be used.

**13. Disposal/environmental concerns:**

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

14. Wellhead:

A multi-bowl wellhead system will be utilized.

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

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

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

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Cactus Multi-Bowl WH system has been sent to the BLM office in Carlsbad.

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

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

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

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

15. 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.

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: Colorado West Pad
Well: Georgetown Fed Com 601H
Wellbore: OH
Design: Plan #3



Azimuths to Grid North
True North: -0.51°
Magnetic North: 5.89°

**Magnetic Field
Strength: 47596.2nT
Dip Angle: 59.78°
Date: 1/24/2022
Model: HDGM2022**



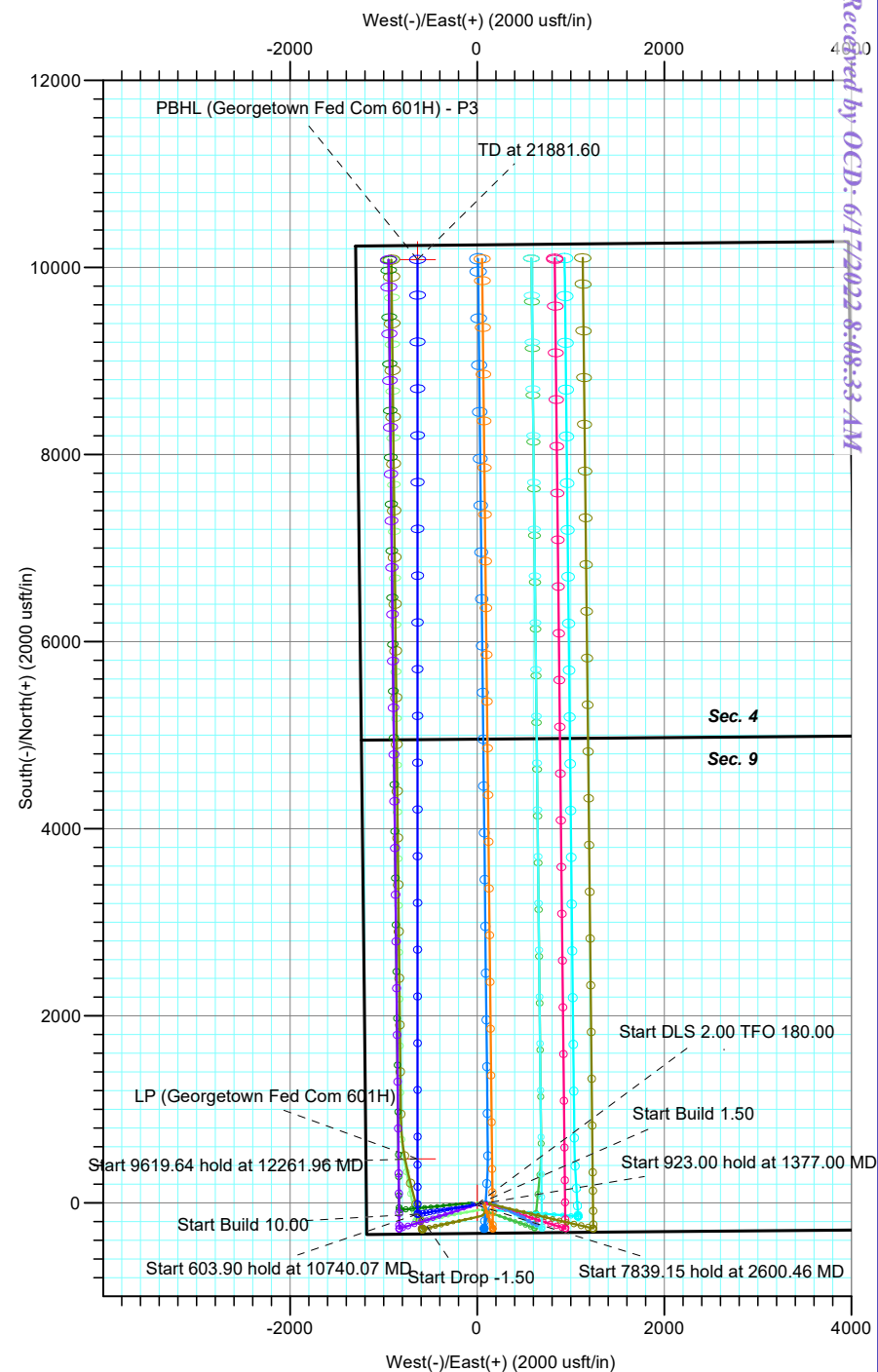
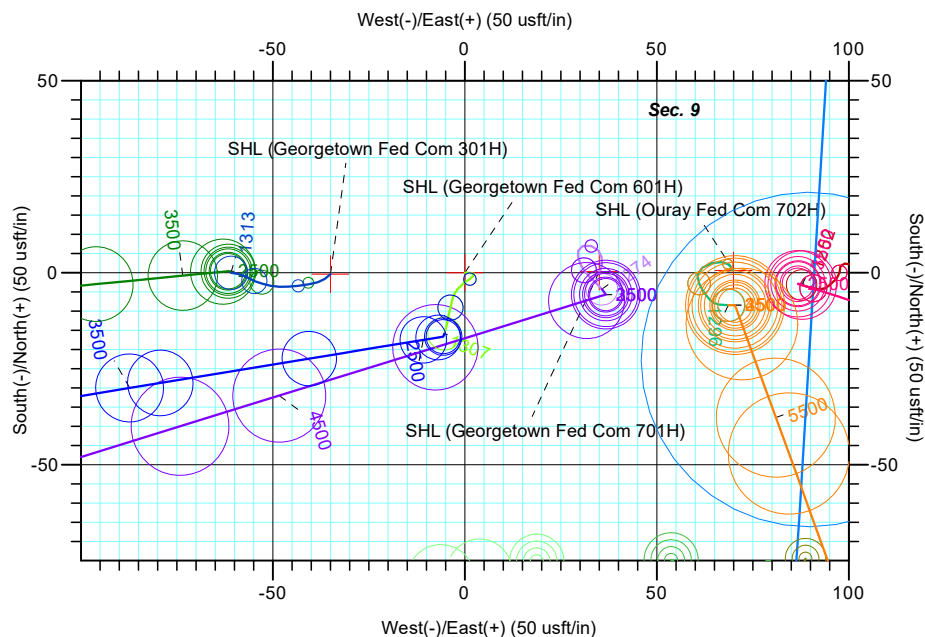
PROJECT DETAILS: Lea County, NM (NAD83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP (Georgetown Fed Com 601H)	11891.57	470.95	-636.83	447623.02	836381.00	32.226990	-103.379204
PBHL (Georgetown Fed Com 601H)	11899.41	10085.85	-636.83	457237.92	836381.00	32.253417	-103.378928
SHL (Georgetown Fed Com 601H)	0.00	0.00	0.00	447152.07	837017.83	32.225680	-103.377159

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSEct	Annotation
1307.00	1.40	201.10	1306.80	-15.82	-5.32	0.00	0.00	-15.45	Start DLS 2.00 TFO 180.00
1377.00	0.00	0.00	1376.79	-16.61	-5.62	2.00	180.00	-16.23	Start 923.00 hold at 1377.00 MD
2300.00	0.00	0.00	2299.79	-16.61	-5.62	0.00	0.00	-16.23	Start Build 1.50
2600.46	4.51	260.70	2599.94	-18.52	-17.28	1.50	260.70	-17.40	Start 7839.15 hold at 2600.46 MD
10439.61	4.51	260.70	10414.85	-118.09	-625.17	0.00	0.00	-78.46	Start Drop -1.50
10740.07	0.00	0.00	10715.00	-120.00	-636.83	1.50	180.00	-79.63	Start 603.90 hold at 10740.07 MD
11343.96	0.00	0.00	11318.90	-120.00	-636.83	0.00	0.00	-79.63	Start Build 10.00
12261.96	91.80	0.00	11891.57	470.95	-636.83	10.00	0.00	51.15	Start 9619.64 hold at 12261.96 MD
21881.60	91.80	0.00	1589.41	10085.85	-636.83	0.00	0.00	0105.93	TD at 21881.60



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

Plan: Plan #3 (Georgetown Fed Com 601H/OH)
Colorado West Pad

Created By: RDW Date: 16:02, February 03 2016
Date: _____
Approved: _____ Date: _____

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: Colorado West Pad
Well: Georgetown Fed Com 601H
Wellbore: OH
Design: Plan #3

RKB +30' @ 3422.00usft (HP 537)

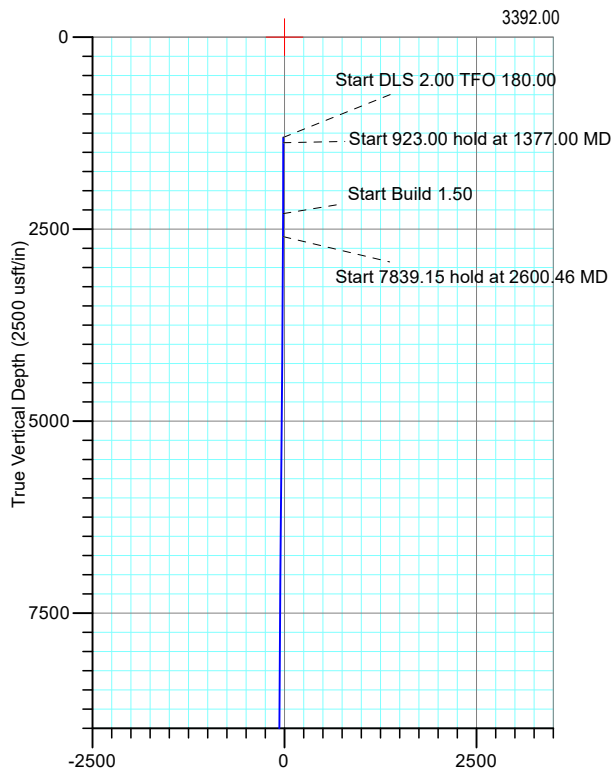


Azimuths to Grid North
True North: -0.51°
Magnetic North: 5.89°

Magnetic Field
Strength: 47596.2nT
Dip Angle: 59.78°
Date: 1/24/2022
Model: HDGM2022

PROJECT DETAILS: Lea County, NM (NAD83)

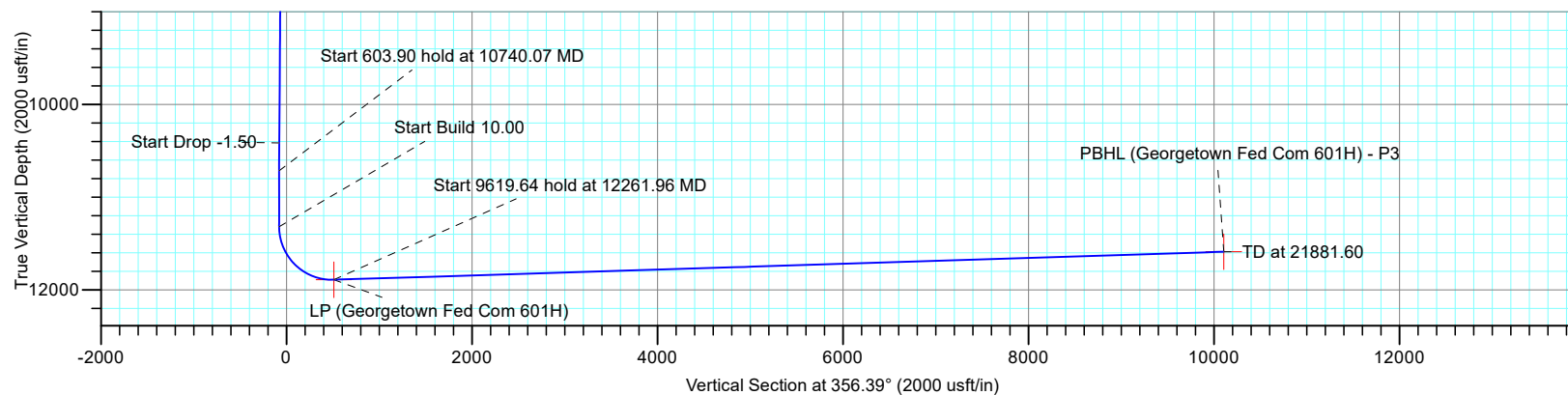
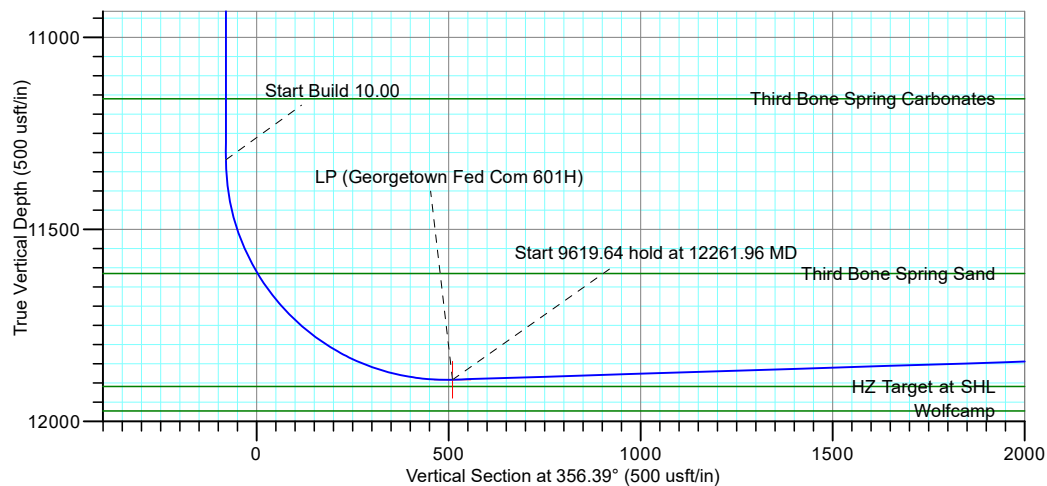
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone



MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1307.00	1.40	201.10	1306.80	-15.82	-5.32	0.00	0.00	-15.45	Start DLS 2.00 TFO 180.00
1377.00	0.00	0.00	1376.79	-16.61	-5.62	2.00	180.00	-16.23	Start 923.00 hold at 1377.00 MD
2300.00	0.00	0.00	2299.79	-16.61	-5.62	0.00	0.00	-16.23	Start Build 1.50
2600.46	4.51	260.70	2599.94	-18.52	-17.28	1.50	260.70	-17.40	Start 7839.15 hold at 2600.46 MD
10439.61	4.51	260.70	10414.85	-118.09	-625.17	0.00	0.00	-78.46	Start Drop -1.50
10740.07	0.00	0.00	10715.00	-120.00	-636.83	1.50	180.00	-79.63	Start 603.90 hold at 10740.07 MD
11343.96	0.00	0.00	11318.90	-120.00	-636.83	0.00	0.00	-79.63	Start Build 10.00
12261.96	91.80	0.00	11891.57	470.95	-636.83	10.00	0.00	510.15	Start 9619.64 hold at 12261.96 MD
21881.60	91.80	0.00	11589.41	10085.85	-636.83	0.00	0.00	10105.93	TD at 21881.60

DESIGN TARGET DETAILS

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LP (Georgetown Fed Com 601H)	11891.57	470.95	-636.83	32.226990	-103.379204
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TOTAL DIRECTIONAL SERVICES LLC
671 Academy Ct, Windsor, CO 80550
Phone: (970) 460-9402

Plan: Plan #3 (Georgetown Fed Com 601H/OH)
Colorado West Pad
Created By: RDW
Date: 16:03, February 03 2022
Approved: _____
Date: _____



Franklin Mountain Energy

Lea County, NM (NAD83)

Colorado West Pad

Georgetown Fed Com 601H

OH

Plan: Plan #3

Standard Planning Report

03 February, 2022





Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Georgetown Fed Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	RKB +30' @ 3422.00usft (HP 537)
Project:	Lea County, NM (NAD83)	MD Reference:	RKB +30' @ 3422.00usft (HP 537)
Site:	Colorado West Pad	North Reference:	Grid
Well:	Georgetown Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3		

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		Colorado West Pad			
Site Position: From:	Map	Northing:	447,151.76 usft	Latitude:	32.225681
		Easting:	836,982.84 usft	Longitude:	-103.377272
		Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in

Well	Georgetown Fed Com 601H					
Well Position	+N/-S	0.00 usft	Northing:	447,152.07 usft	Latitude:	32.225681
	+E/-W	0.00 usft	Easting:	837,017.83 usft	Longitude:	-103.377159
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,392.00 usft
Grid Convergence:		0.51 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2022	1/24/2022	6.40	59.78	47,596.20000000

Design	Plan #3				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	1,307.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	356.39	

Plan Survey Tool Program	Date	2/3/2022			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	149.00	1,307.00	Survey #1 (OH)	OWSG (Rev2) MWD OWSG MWD - Standard	
2	1,307.00	21,881.61	Plan #3 (OH)	OWSG (Rev2) MWD+IFR1 OWSG MWD + IFR1 + Mult	



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Georgetown Fed Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	RKB +30' @ 3422.00usft (HP 537)
Project:	Lea County, NM (NAD83)	MD Reference:	RKB +30' @ 3422.00usft (HP 537)
Site:	Colorado West Pad	North Reference:	Grid
Well:	Georgetown Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
1,307.00	1.40	201.10	1,306.80	-15.82	-5.32	0.00	0.00	0.00	0.00	
1,377.00	0.00	0.00	1,376.79	-16.61	-5.62	2.00	-2.00	227.00	180.00	
2,300.00	0.00	0.00	2,299.79	-16.61	-5.62	0.00	0.00	0.00	0.00	
2,600.46	4.51	260.70	2,599.94	-18.52	-17.28	1.50	1.50	0.00	260.70	
10,439.61	4.51	260.70	10,414.85	-118.09	-625.17	0.00	0.00	0.00	0.00	
10,740.07	0.00	0.00	10,715.00	-120.00	-636.83	1.50	-1.50	0.00	180.00	
11,343.96	0.00	0.00	11,318.90	-120.00	-636.83	0.00	0.00	0.00	0.00	
12,261.96	91.80	0.00	11,891.57	470.95	-636.83	10.00	10.00	0.00	0.00	
21,881.61	91.80	0.00	11,589.41	10,085.85	-636.83	0.00	0.00	0.00	0.00	PBHL (Georgetown)



Planning Report



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Project:	Lea County, NM (NAD83)	MD Reference:	RKB +30' @ 3422.00usft (HP 537)
Site:	Colorado West Pad	North Reference:	Grid
Well:	Georgetown Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149.00	0.50	86.80	149.00	0.04	0.65	0.00	0.34	0.34	0.00
262.00	0.60	102.00	261.99	-0.06	1.72	-0.17	0.16	0.09	13.45
357.00	0.20	116.60	356.99	-0.24	2.35	-0.38	0.43	-0.42	15.37
452.00	0.60	208.50	451.99	-0.75	2.27	-0.89	0.67	0.42	96.74
547.00	1.00	236.90	546.98	-1.64	1.33	-1.72	0.58	0.42	29.89
642.00	1.30	236.30	641.96	-2.69	-0.26	-2.67	0.32	0.32	-0.63
737.00	1.50	215.50	736.93	-4.30	-1.88	-4.17	0.57	0.21	-21.89
831.00	0.80	210.00	830.91	-5.87	-2.92	-5.67	0.75	-0.74	-5.85
927.00	1.00	186.20	926.90	-7.28	-3.34	-7.06	0.44	0.21	-24.79
1,022.00	1.20	197.60	1,021.88	-9.05	-3.73	-8.80	0.31	0.21	12.00
1,117.00	1.50	190.10	1,116.86	-11.23	-4.25	-10.94	0.37	0.32	-7.89
1,212.00	1.40	190.60	1,211.83	-13.59	-4.68	-13.27	0.11	-0.11	0.53
1,307.00	1.40	201.10	1,306.80	-15.82	-5.32	-15.45	0.27	0.00	11.05
Start DLS 2.00 TFO 180.00									
1,377.00	0.00	0.00	1,376.79	-16.61	-5.62	-16.23	2.00	-2.00	227.00
Start 923.00 hold at 1377.00 MD									
1,400.00	0.00	0.00	1,399.79	-16.61	-5.62	-16.23	0.00	0.00	0.00
1,500.00	0.00	0.00	1,499.79	-16.61	-5.62	-16.23	0.00	0.00	0.00
1,600.00	0.00	0.00	1,599.79	-16.61	-5.62	-16.23	0.00	0.00	0.00
1,700.00	0.00	0.00	1,699.79	-16.61	-5.62	-16.23	0.00	0.00	0.00
1,800.00	0.00	0.00	1,799.79	-16.61	-5.62	-16.23	0.00	0.00	0.00
1,900.00	0.00	0.00	1,899.79	-16.61	-5.62	-16.23	0.00	0.00	0.00
2,000.00	0.00	0.00	1,999.79	-16.61	-5.62	-16.23	0.00	0.00	0.00
2,100.00	0.00	0.00	2,099.79	-16.61	-5.62	-16.23	0.00	0.00	0.00
2,200.00	0.00	0.00	2,199.79	-16.61	-5.62	-16.23	0.00	0.00	0.00
2,300.00	0.00	0.00	2,299.79	-16.61	-5.62	-16.23	0.00	0.00	0.00
Start Build 1.50									
2,400.00	1.50	260.70	2,399.78	-16.82	-6.92	-16.36	1.50	1.50	-99.30
2,500.00	3.00	260.70	2,499.70	-17.46	-10.79	-16.74	1.50	1.50	0.00
2,579.46	4.19	260.70	2,579.00	-18.26	-15.71	-17.24	1.50	1.50	0.00
Base Salt									
2,600.46	4.51	260.70	2,599.94	-18.52	-17.28	-17.40	1.50	1.50	0.00
Start 7839.15 hold at 2600.46 MD									
2,700.00	4.51	260.70	2,699.17	-19.79	-25.00	-18.17	0.00	0.00	0.00
2,800.00	4.51	260.70	2,798.87	-21.06	-32.75	-18.95	0.00	0.00	0.00
2,900.00	4.51	260.70	2,898.56	-22.33	-40.51	-19.73	0.00	0.00	0.00
3,000.00	4.51	260.70	2,998.25	-23.60	-48.26	-20.51	0.00	0.00	0.00
3,100.00	4.51	260.70	3,097.94	-24.87	-56.02	-21.29	0.00	0.00	0.00
3,200.00	4.51	260.70	3,197.63	-26.14	-63.77	-22.07	0.00	0.00	0.00
3,300.00	4.51	260.70	3,297.32	-27.41	-71.53	-22.85	0.00	0.00	0.00
3,400.00	4.51	260.70	3,397.01	-28.68	-79.28	-23.62	0.00	0.00	0.00
3,500.00	4.51	260.70	3,496.70	-29.95	-87.04	-24.40	0.00	0.00	0.00
3,600.00	4.51	260.70	3,596.39	-31.22	-94.79	-25.18	0.00	0.00	0.00
3,700.00	4.51	260.70	3,696.08	-32.49	-102.54	-25.96	0.00	0.00	0.00
3,800.00	4.51	260.70	3,795.77	-33.76	-110.30	-26.74	0.00	0.00	0.00
3,900.00	4.51	260.70	3,895.46	-35.03	-118.05	-27.52	0.00	0.00	0.00
4,000.00	4.51	260.70	3,995.15	-36.30	-125.81	-28.30	0.00	0.00	0.00
4,011.88	4.51	260.70	4,007.00	-36.45	-126.73	-28.39	0.00	0.00	0.00
Potential Losses									
4,027.93	4.51	260.70	4,023.00	-36.65	-127.97	-28.52	0.00	0.00	0.00
Capitan Reef									
4,100.00	4.51	260.70	4,094.85	-37.57	-133.56	-29.08	0.00	0.00	0.00



Planning Report



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Project:	Lea County, NM (NAD83)	MD Reference:	RKB +30' @ 3422.00usft (HP 537)
Site:	Colorado West Pad	North Reference:	Grid
Well:	Georgetown Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,200.00	4.51	260.70	4,194.54	-38.84	-141.32	-29.86	0.00	0.00	0.00
4,300.00	4.51	260.70	4,294.23	-40.11	-149.07	-30.64	0.00	0.00	0.00
4,400.00	4.51	260.70	4,393.92	-41.38	-156.83	-31.41	0.00	0.00	0.00
4,500.00	4.51	260.70	4,493.61	-42.65	-164.58	-32.19	0.00	0.00	0.00
4,600.00	4.51	260.70	4,593.30	-43.92	-172.34	-32.97	0.00	0.00	0.00
4,700.00	4.51	260.70	4,692.99	-45.19	-180.09	-33.75	0.00	0.00	0.00
4,800.00	4.51	260.70	4,792.68	-46.46	-187.84	-34.53	0.00	0.00	0.00
4,900.00	4.51	260.70	4,892.37	-47.73	-195.60	-35.31	0.00	0.00	0.00
5,000.00	4.51	260.70	4,992.06	-49.00	-203.35	-36.09	0.00	0.00	0.00
5,100.00	4.51	260.70	5,091.75	-50.27	-211.11	-36.87	0.00	0.00	0.00
5,200.00	4.51	260.70	5,191.44	-51.54	-218.86	-37.65	0.00	0.00	0.00
5,284.82	4.51	260.70	5,276.00	-52.62	-225.44	-38.31	0.00	0.00	0.00
Lamar									
5,300.00	4.51	260.70	5,291.13	-52.81	-226.62	-38.42	0.00	0.00	0.00
5,369.08	4.51	260.70	5,360.00	-53.69	-231.97	-38.96	0.00	0.00	0.00
Bell Canyon									
5,400.00	4.51	260.70	5,390.83	-54.08	-234.37	-39.20	0.00	0.00	0.00
5,500.00	4.51	260.70	5,490.52	-55.35	-242.13	-39.98	0.00	0.00	0.00
5,600.00	4.51	260.70	5,590.21	-56.62	-249.88	-40.76	0.00	0.00	0.00
5,700.00	4.51	260.70	5,689.90	-57.89	-257.64	-41.54	0.00	0.00	0.00
5,800.00	4.51	260.70	5,789.59	-59.16	-265.39	-42.32	0.00	0.00	0.00
5,900.00	4.51	260.70	5,889.28	-60.43	-273.15	-43.10	0.00	0.00	0.00
6,000.00	4.51	260.70	5,988.97	-61.70	-280.90	-43.88	0.00	0.00	0.00
6,100.00	4.51	260.70	6,088.66	-62.97	-288.65	-44.66	0.00	0.00	0.00
6,200.00	4.51	260.70	6,188.35	-64.24	-296.41	-45.44	0.00	0.00	0.00
6,287.92	4.51	260.70	6,276.00	-65.36	-303.23	-46.12	0.00	0.00	0.00
Cherry Canyon									
6,300.00	4.51	260.70	6,288.04	-65.51	-304.16	-46.21	0.00	0.00	0.00
6,400.00	4.51	260.70	6,387.73	-66.78	-311.92	-46.99	0.00	0.00	0.00
6,500.00	4.51	260.70	6,487.42	-68.05	-319.67	-47.77	0.00	0.00	0.00
6,600.00	4.51	260.70	6,587.12	-69.32	-327.43	-48.55	0.00	0.00	0.00
6,700.00	4.51	260.70	6,686.81	-70.59	-335.18	-49.33	0.00	0.00	0.00
6,800.00	4.51	260.70	6,786.50	-71.86	-342.94	-50.11	0.00	0.00	0.00
6,900.00	4.51	260.70	6,886.19	-73.13	-350.69	-50.89	0.00	0.00	0.00
7,000.00	4.51	260.70	6,985.88	-74.40	-358.45	-51.67	0.00	0.00	0.00
7,100.00	4.51	260.70	7,085.57	-75.67	-366.20	-52.45	0.00	0.00	0.00
7,200.00	4.51	260.70	7,185.26	-76.94	-373.96	-53.23	0.00	0.00	0.00
7,300.00	4.51	260.70	7,284.95	-78.21	-381.71	-54.00	0.00	0.00	0.00
7,400.00	4.51	260.70	7,384.64	-79.48	-389.46	-54.78	0.00	0.00	0.00
7,500.00	4.51	260.70	7,484.33	-80.75	-397.22	-55.56	0.00	0.00	0.00
7,600.00	4.51	260.70	7,584.02	-82.02	-404.97	-56.34	0.00	0.00	0.00
7,637.09	4.51	260.70	7,621.00	-82.49	-407.85	-56.63	0.00	0.00	0.00
Brushy Canyon									
7,700.00	4.51	260.70	7,683.71	-83.29	-412.73	-57.12	0.00	0.00	0.00
7,800.00	4.51	260.70	7,783.40	-84.56	-420.48	-57.90	0.00	0.00	0.00
7,900.00	4.51	260.70	7,883.10	-85.83	-428.24	-58.68	0.00	0.00	0.00
8,000.00	4.51	260.70	7,982.79	-87.10	-435.99	-59.46	0.00	0.00	0.00
8,100.00	4.51	260.70	8,082.48	-88.37	-443.75	-60.24	0.00	0.00	0.00
8,200.00	4.51	260.70	8,182.17	-89.64	-451.50	-61.01	0.00	0.00	0.00
8,300.00	4.51	260.70	8,281.86	-90.91	-459.26	-61.79	0.00	0.00	0.00
8,400.00	4.51	260.70	8,381.55	-92.18	-467.01	-62.57	0.00	0.00	0.00
8,500.00	4.51	260.70	8,481.24	-93.45	-474.77	-63.35	0.00	0.00	0.00
8,600.00	4.51	260.70	8,580.93	-94.73	-482.52	-64.13	0.00	0.00	0.00



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Project:	Lea County, NM (NAD83)	MD Reference:	RKB +30' @ 3422.00usft (HP 537)
Site:	Colorado West Pad	North Reference:	Grid
Well:	Georgetown Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,700.00	4.51	260.70	8,680.62	-96.00	-490.27	-64.91	0.00	0.00	0.00
8,800.00	4.51	260.70	8,780.31	-97.27	-498.03	-65.69	0.00	0.00	0.00
8,900.00	4.51	260.70	8,880.00	-98.54	-505.78	-66.47	0.00	0.00	0.00
8,960.18	4.51	260.70	8,940.00	-99.30	-510.45	-66.94	0.00	0.00	0.00
Bone Spring Lime									
8,987.27	4.51	260.70	8,967.00	-99.64	-512.55	-67.15	0.00	0.00	0.00
Avalon									
9,000.00	4.51	260.70	8,979.69	-99.81	-513.54	-67.25	0.00	0.00	0.00
9,100.00	4.51	260.70	9,079.38	-101.08	-521.29	-68.03	0.00	0.00	0.00
9,175.85	4.51	260.70	9,155.00	-102.04	-527.17	-68.62	0.00	0.00	0.00
Chert Zone									
9,200.00	4.51	260.70	9,179.08	-102.35	-529.05	-68.80	0.00	0.00	0.00
9,300.00	4.51	260.70	9,278.77	-103.62	-536.80	-69.58	0.00	0.00	0.00
9,400.00	4.51	260.70	9,378.46	-104.89	-544.56	-70.36	0.00	0.00	0.00
9,500.00	4.51	260.70	9,478.15	-106.16	-552.31	-71.14	0.00	0.00	0.00
9,600.00	4.51	260.70	9,577.84	-107.43	-560.07	-71.92	0.00	0.00	0.00
9,700.00	4.51	260.70	9,677.53	-108.70	-567.82	-72.70	0.00	0.00	0.00
9,800.00	4.51	260.70	9,777.22	-109.97	-575.58	-73.48	0.00	0.00	0.00
9,900.00	4.51	260.70	9,876.91	-111.24	-583.33	-74.26	0.00	0.00	0.00
10,000.00	4.51	260.70	9,976.60	-112.51	-591.08	-75.04	0.00	0.00	0.00
10,064.60	4.51	260.70	10,041.00	-113.33	-596.09	-75.54	0.00	0.00	0.00
First Bone Spring Sand									
10,100.00	4.51	260.70	10,076.29	-113.78	-598.84	-75.82	0.00	0.00	0.00
10,200.00	4.51	260.70	10,175.98	-115.05	-606.59	-76.59	0.00	0.00	0.00
10,255.19	4.51	260.70	10,231.00	-115.75	-610.87	-77.02	0.00	0.00	0.00
Second Bone Spring Carbonates									
10,300.00	4.51	260.70	10,275.67	-116.32	-614.35	-77.37	0.00	0.00	0.00
10,400.00	4.51	260.70	10,375.37	-117.59	-622.10	-78.15	0.00	0.00	0.00
10,439.61	4.51	260.70	10,414.85	-118.09	-625.17	-78.46	0.00	0.00	0.00
Start Drop -1.50									
10,500.00	3.60	260.70	10,475.09	-118.78	-629.39	-78.88	1.50	-1.50	0.00
10,600.00	2.10	260.70	10,574.96	-119.58	-634.30	-79.38	1.50	-1.50	0.00
10,657.06	1.25	260.70	10,632.00	-119.85	-635.94	-79.54	1.50	-1.50	0.00
Second Bone Spring Sand									
10,700.00	0.60	260.70	10,674.93	-119.97	-636.62	-79.61	1.50	-1.50	0.00
10,740.07	0.00	0.00	10,715.00	-120.00	-636.83	-79.63	1.50	-1.50	0.00
Start 603.90 hold at 10740.07 MD									
10,800.00	0.00	0.00	10,774.93	-120.00	-636.83	-79.63	0.00	0.00	0.00
10,900.00	0.00	0.00	10,874.93	-120.00	-636.83	-79.63	0.00	0.00	0.00
11,000.00	0.00	0.00	10,974.93	-120.00	-636.83	-79.63	0.00	0.00	0.00
11,100.00	0.00	0.00	11,074.93	-120.00	-636.83	-79.63	0.00	0.00	0.00
11,185.07	0.00	0.00	11,160.00	-120.00	-636.83	-79.63	0.00	0.00	0.00
Third Bone Spring Carbonates									
11,200.00	0.00	0.00	11,174.93	-120.00	-636.83	-79.63	0.00	0.00	0.00
11,300.00	0.00	0.00	11,274.93	-120.00	-636.83	-79.63	0.00	0.00	0.00
11,343.96	0.00	0.00	11,318.90	-120.00	-636.83	-79.63	0.00	0.00	0.00
Start Build 10.00									
11,350.00	0.60	0.00	11,324.93	-119.97	-636.83	-79.60	10.00	10.00	0.00
11,400.00	5.60	0.00	11,374.84	-117.26	-636.83	-76.90	10.00	10.00	0.00
11,450.00	10.60	0.00	11,424.33	-110.22	-636.83	-69.87	10.00	10.00	0.00
11,500.00	15.60	0.00	11,473.01	-98.88	-636.83	-58.56	10.00	10.00	0.00
11,550.00	20.60	0.00	11,520.52	-83.35	-636.83	-43.06	10.00	10.00	0.00
11,600.00	25.60	0.00	11,566.50	-63.74	-636.83	-23.48	10.00	10.00	0.00



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Georgetown Fed Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	RKB +30' @ 3422.00usft (HP 537)
Project:	Lea County, NM (NAD83)	MD Reference:	RKB +30' @ 3422.00usft (HP 537)
Site:	Colorado West Pad	North Reference:	Grid
Well:	Georgetown Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,650.00	30.60	0.00	11,610.59	-40.19	-636.83	0.02	10.00	10.00	0.00
11,655.14	31.12	0.00	11,615.00	-37.56	-636.83	2.65	10.00	10.00	0.00
Third Bone Spring Sand									
11,700.00	35.60	0.00	11,652.46	-12.89	-636.83	27.26	10.00	10.00	0.00
11,750.00	40.60	0.00	11,691.79	17.95	-636.83	58.05	10.00	10.00	0.00
11,800.00	45.60	0.00	11,728.28	52.11	-636.83	92.13	10.00	10.00	0.00
11,850.00	50.60	0.00	11,761.66	89.31	-636.83	129.26	10.00	10.00	0.00
11,900.00	55.60	0.00	11,791.67	129.29	-636.83	169.16	10.00	10.00	0.00
11,950.00	60.60	0.00	11,818.08	171.72	-636.83	211.51	10.00	10.00	0.00
12,000.00	65.60	0.00	11,840.69	216.30	-636.83	256.00	10.00	10.00	0.00
12,050.00	70.60	0.00	11,859.33	262.68	-636.83	302.29	10.00	10.00	0.00
12,100.00	75.60	0.00	11,873.86	310.50	-636.83	350.02	10.00	10.00	0.00
12,150.00	80.60	0.00	11,884.17	359.42	-636.83	398.83	10.00	10.00	0.00
12,200.00	85.60	0.00	11,890.17	409.04	-636.83	448.35	10.00	10.00	0.00
12,250.00	90.60	0.00	11,891.82	458.99	-636.83	498.21	10.00	10.00	0.00
12,261.96	91.80	0.00	11,891.57	470.95	-636.83	510.15	10.00	10.00	0.00
Start 9619.64 hold at 12261.96 MD									
12,300.00	91.80	0.00	11,890.38	508.97	-636.83	548.09	0.00	0.00	0.00
12,400.00	91.80	0.00	11,887.23	608.92	-636.83	647.84	0.00	0.00	0.00
12,500.00	91.80	0.00	11,884.09	708.87	-636.83	747.60	0.00	0.00	0.00
12,600.00	91.80	0.00	11,880.95	808.83	-636.83	847.35	0.00	0.00	0.00
12,700.00	91.80	0.00	11,877.81	908.78	-636.83	947.10	0.00	0.00	0.00
12,800.00	91.80	0.00	11,874.67	1,008.73	-636.83	1,046.85	0.00	0.00	0.00
12,900.00	91.80	0.00	11,871.53	1,108.68	-636.83	1,146.60	0.00	0.00	0.00
13,000.00	91.80	0.00	11,868.39	1,208.63	-636.83	1,246.36	0.00	0.00	0.00
13,100.00	91.80	0.00	11,865.25	1,308.58	-636.83	1,346.11	0.00	0.00	0.00
13,200.00	91.80	0.00	11,862.11	1,408.53	-636.83	1,445.86	0.00	0.00	0.00
13,300.00	91.80	0.00	11,858.96	1,508.48	-636.83	1,545.61	0.00	0.00	0.00
13,400.00	91.80	0.00	11,855.82	1,608.43	-636.83	1,645.36	0.00	0.00	0.00
13,500.00	91.80	0.00	11,852.68	1,708.38	-636.83	1,745.12	0.00	0.00	0.00
13,600.00	91.80	0.00	11,849.54	1,808.33	-636.83	1,844.87	0.00	0.00	0.00
13,700.00	91.80	0.00	11,846.40	1,908.28	-636.83	1,944.62	0.00	0.00	0.00
13,800.00	91.80	0.00	11,843.26	2,008.23	-636.83	2,044.37	0.00	0.00	0.00
13,900.00	91.80	0.00	11,840.12	2,108.18	-636.83	2,144.12	0.00	0.00	0.00
14,000.00	91.80	0.00	11,836.98	2,208.13	-636.83	2,243.88	0.00	0.00	0.00
14,100.00	91.80	0.00	11,833.84	2,308.08	-636.83	2,343.63	0.00	0.00	0.00
14,200.00	91.80	0.00	11,830.70	2,408.04	-636.83	2,443.38	0.00	0.00	0.00
14,300.00	91.80	0.00	11,827.55	2,507.99	-636.83	2,543.13	0.00	0.00	0.00
14,400.00	91.80	0.00	11,824.41	2,607.94	-636.83	2,642.88	0.00	0.00	0.00
14,500.00	91.80	0.00	11,821.27	2,707.89	-636.83	2,742.64	0.00	0.00	0.00
14,600.00	91.80	0.00	11,818.13	2,807.84	-636.83	2,842.39	0.00	0.00	0.00
14,700.00	91.80	0.00	11,814.99	2,907.79	-636.83	2,942.14	0.00	0.00	0.00
14,800.00	91.80	0.00	11,811.85	3,007.74	-636.83	3,041.89	0.00	0.00	0.00
14,900.00	91.80	0.00	11,808.71	3,107.69	-636.83	3,141.64	0.00	0.00	0.00
15,000.00	91.80	0.00	11,805.57	3,207.64	-636.83	3,241.40	0.00	0.00	0.00
15,100.00	91.80	0.00	11,802.43	3,307.59	-636.83	3,341.15	0.00	0.00	0.00
15,200.00	91.80	0.00	11,799.28	3,407.54	-636.83	3,440.90	0.00	0.00	0.00
15,300.00	91.80	0.00	11,796.14	3,507.49	-636.83	3,540.65	0.00	0.00	0.00
15,400.00	91.80	0.00	11,793.00	3,607.44	-636.83	3,640.40	0.00	0.00	0.00
15,500.00	91.80	0.00	11,789.86	3,707.39	-636.83	3,740.16	0.00	0.00	0.00
15,600.00	91.80	0.00	11,786.72	3,807.34	-636.83	3,839.91	0.00	0.00	0.00
15,700.00	91.80	0.00	11,783.58	3,907.30	-636.83	3,939.66	0.00	0.00	0.00
15,800.00	91.80	0.00	11,780.44	4,007.25	-636.83	4,039.41	0.00	0.00	0.00
15,900.00	91.80	0.00	11,777.30	4,107.20	-636.83	4,139.16	0.00	0.00	0.00



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Georgetown Fed Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	RKB +30' @ 3422.00usft (HP 537)
Project:	Lea County, NM (NAD83)	MD Reference:	RKB +30' @ 3422.00usft (HP 537)
Site:	Colorado West Pad	North Reference:	Grid
Well:	Georgetown Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,000.00	91.80	0.00	11,774.16	4,207.15	-636.83	4,238.92	0.00	0.00	0.00
16,100.00	91.80	0.00	11,771.01	4,307.10	-636.83	4,338.67	0.00	0.00	0.00
16,200.00	91.80	0.00	11,767.87	4,407.05	-636.83	4,438.42	0.00	0.00	0.00
16,300.00	91.80	0.00	11,764.73	4,507.00	-636.83	4,538.17	0.00	0.00	0.00
16,400.00	91.80	0.00	11,761.59	4,606.95	-636.83	4,637.92	0.00	0.00	0.00
16,500.00	91.80	0.00	11,758.45	4,706.90	-636.83	4,737.68	0.00	0.00	0.00
16,600.00	91.80	0.00	11,755.31	4,806.85	-636.83	4,837.43	0.00	0.00	0.00
16,700.00	91.80	0.00	11,752.17	4,906.80	-636.83	4,937.18	0.00	0.00	0.00
16,800.00	91.80	0.00	11,749.03	5,006.75	-636.83	5,036.93	0.00	0.00	0.00
16,900.00	91.80	0.00	11,745.89	5,106.70	-636.83	5,136.68	0.00	0.00	0.00
17,000.00	91.80	0.00	11,742.75	5,206.65	-636.83	5,236.44	0.00	0.00	0.00
17,100.00	91.80	0.00	11,739.60	5,306.60	-636.83	5,336.19	0.00	0.00	0.00
17,200.00	91.80	0.00	11,736.46	5,406.56	-636.83	5,435.94	0.00	0.00	0.00
17,300.00	91.80	0.00	11,733.32	5,506.51	-636.83	5,535.69	0.00	0.00	0.00
17,400.00	91.80	0.00	11,730.18	5,606.46	-636.83	5,635.44	0.00	0.00	0.00
17,500.00	91.80	0.00	11,727.04	5,706.41	-636.83	5,735.20	0.00	0.00	0.00
17,600.00	91.80	0.00	11,723.90	5,806.36	-636.83	5,834.95	0.00	0.00	0.00
17,700.00	91.80	0.00	11,720.76	5,906.31	-636.83	5,934.70	0.00	0.00	0.00
17,800.00	91.80	0.00	11,717.62	6,006.26	-636.83	6,034.45	0.00	0.00	0.00
17,900.00	91.80	0.00	11,714.48	6,106.21	-636.83	6,134.20	0.00	0.00	0.00
18,000.00	91.80	0.00	11,711.33	6,206.16	-636.83	6,233.96	0.00	0.00	0.00
18,100.00	91.80	0.00	11,708.19	6,306.11	-636.83	6,333.71	0.00	0.00	0.00
18,200.00	91.80	0.00	11,705.05	6,406.06	-636.83	6,433.46	0.00	0.00	0.00
18,300.00	91.80	0.00	11,701.91	6,506.01	-636.83	6,533.21	0.00	0.00	0.00
18,400.00	91.80	0.00	11,698.77	6,605.96	-636.83	6,632.96	0.00	0.00	0.00
18,500.00	91.80	0.00	11,695.63	6,705.91	-636.83	6,732.72	0.00	0.00	0.00
18,600.00	91.80	0.00	11,692.49	6,805.86	-636.83	6,832.47	0.00	0.00	0.00
18,700.00	91.80	0.00	11,689.35	6,905.82	-636.83	6,932.22	0.00	0.00	0.00
18,800.00	91.80	0.00	11,686.21	7,005.77	-636.83	7,031.97	0.00	0.00	0.00
18,900.00	91.80	0.00	11,683.06	7,105.72	-636.83	7,131.72	0.00	0.00	0.00
19,000.00	91.80	0.00	11,679.92	7,205.67	-636.83	7,231.48	0.00	0.00	0.00
19,100.00	91.80	0.00	11,676.78	7,305.62	-636.83	7,331.23	0.00	0.00	0.00
19,200.00	91.80	0.00	11,673.64	7,405.57	-636.83	7,430.98	0.00	0.00	0.00
19,300.00	91.80	0.00	11,670.50	7,505.52	-636.83	7,530.73	0.00	0.00	0.00
19,400.00	91.80	0.00	11,667.36	7,605.47	-636.83	7,630.48	0.00	0.00	0.00
19,500.00	91.80	0.00	11,664.22	7,705.42	-636.83	7,730.24	0.00	0.00	0.00
19,600.00	91.80	0.00	11,661.08	7,805.37	-636.83	7,829.99	0.00	0.00	0.00
19,700.00	91.80	0.00	11,657.94	7,905.32	-636.83	7,929.74	0.00	0.00	0.00
19,800.00	91.80	0.00	11,654.80	8,005.27	-636.83	8,029.49	0.00	0.00	0.00
19,900.00	91.80	0.00	11,651.65	8,105.22	-636.83	8,129.24	0.00	0.00	0.00
20,000.00	91.80	0.00	11,648.51	8,205.17	-636.83	8,229.00	0.00	0.00	0.00
20,100.00	91.80	0.00	11,645.37	8,305.12	-636.83	8,328.75	0.00	0.00	0.00
20,200.00	91.80	0.00	11,642.23	8,405.08	-636.83	8,428.50	0.00	0.00	0.00
20,300.00	91.80	0.00	11,639.09	8,505.03	-636.83	8,528.25	0.00	0.00	0.00
20,400.00	91.80	0.00	11,635.95	8,604.98	-636.83	8,628.00	0.00	0.00	0.00
20,500.00	91.80	0.00	11,632.81	8,704.93	-636.83	8,727.76	0.00	0.00	0.00
20,600.00	91.80	0.00	11,629.67	8,804.88	-636.83	8,827.51	0.00	0.00	0.00
20,700.00	91.80	0.00	11,626.53	8,904.83	-636.83	8,927.26	0.00	0.00	0.00
20,800.00	91.80	0.00	11,623.38	9,004.78	-636.83	9,027.01	0.00	0.00	0.00
20,900.00	91.80	0.00	11,620.24	9,104.73	-636.83	9,126.76	0.00	0.00	0.00
21,000.00	91.80	0.00	11,617.10	9,204.68	-636.83	9,226.52	0.00	0.00	0.00
21,100.00	91.80	0.00	11,613.96	9,304.63	-636.83	9,326.27	0.00	0.00	0.00
21,200.00	91.80	0.00	11,610.82	9,404.58	-636.83	9,426.02	0.00	0.00	0.00
21,300.00	91.80	0.00	11,607.68	9,504.53	-636.83	9,525.77	0.00	0.00	0.00



Planning Report



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Company:	Franklin Mountain Energy	TVD Reference:	RKB +30' @ 3422.00usft (HP 537)
Project:	Lea County, NM (NAD83)	MD Reference:	RKB +30' @ 3422.00usft (HP 537)
Site:	Colorado West Pad	North Reference:	Grid
Well:	Georgetown Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
21,400.00	91.80	0.00	11,604.54	9,604.48	-636.83	9,625.52	0.00	0.00	0.00
21,500.00	91.80	0.00	11,601.40	9,704.43	-636.83	9,725.28	0.00	0.00	0.00
21,600.00	91.80	0.00	11,598.26	9,804.38	-636.83	9,825.03	0.00	0.00	0.00
21,700.00	91.80	0.00	11,595.11	9,904.33	-636.83	9,924.78	0.00	0.00	0.00
21,800.00	91.80	0.00	11,591.97	10,004.29	-636.83	10,024.53	0.00	0.00	0.00
21,881.61	91.80	0.00	11,589.41	10,085.85	-636.83	10,105.94	0.00	0.00	0.00
TD at 21881.60									

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 (Georgetown Fed Com 601H) - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	447,152.07	837,017.83	32.225681	-103.377159
PBHL (Georgetown Fed Com 601H) - plan hits target center - Point	0.00	0.00	11,589.41	10,085.85	-636.83	457,237.92	836,381.00	32.253417	-103.378928
LP (Georgetown Fed Com 601H) - plan hits target center - Point	0.00	0.00	11,891.57	470.95	-636.83	447,623.02	836,381.00	32.226991	-103.379205

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
30.00	30.00	Cenozoic Alluvium (surface)				
674.05	674.00	Rustler				
1,287.20	1,287.00	Salado				
2,579.46	2,579.00	Base Salt				
4,011.88	4,007.00	Potential Losses				
4,027.93	4,023.00	Capitan Reef				
5,284.82	5,276.00	Lamar				
5,369.08	5,360.00	Bell Canyon				
6,287.92	6,276.00	Cherry Canyon				
7,637.09	7,621.00	Brushy Canyon				
8,960.18	8,940.00	Bone Spring Lime				
8,987.27	8,967.00	Avalon				
9,175.85	9,155.00	Chert Zone				
10,064.60	10,041.00	First Bone Spring Sand				
10,255.19	10,231.00	Second Bone Spring Carbonates				
10,657.06	10,632.00	Second Bone Spring Sand				
11,185.07	11,160.00	Third Bone Spring Carbonates				
11,655.14	11,615.00	Third Bone Spring Sand				



Planning Report



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Company:	Franklin Mountain Energy	TVD Reference:	RKB +30' @ 3422.00usft (HP 537)
Project:	Lea County, NM (NAD83)	MD Reference:	RKB +30' @ 3422.00usft (HP 537)
Site:	Colorado West Pad	North Reference:	Grid
Well:	Georgetown Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,307.00	1,306.80	-15.82	-5.32	Start DLS 2.00 TFO 180.00
1,377.00	1,376.79	-16.61	-5.62	Start 923.00 hold at 1377.00 MD
2,300.00	2,299.79	-16.61	-5.62	Start Build 1.50
2,600.46	2,599.94	-18.52	-17.28	Start 7839.15 hold at 2600.46 MD
10,439.61	10,414.85	-118.09	-625.17	Start Drop -1.50
10,740.07	10,715.00	-120.00	-636.83	Start 603.90 hold at 10740.07 MD
11,343.96	11,318.90	-120.00	-636.83	Start Build 10.00
12,261.96	11,891.57	470.95	-636.83	Start 9619.64 hold at 12261.96 MD
21,881.61	11,589.41	10,085.85	-636.83	TD at 21881.60

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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District III
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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 118266

CONDITIONS

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 118266
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	6/17/2022