

Well Name: EL PASO FED COM	Well Location: T25S / R35E / SEC 1 / LOT 1 / 32.16599 / -103.314821	County or Parish/State: LEA / NM
Well Number: 604H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM132081	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548913	Well Status: Drilling Well	Operator: FRANKLIN MOUNTAIN ENERGY LLC

Notice of Intent

Sundry ID: 2685608

Type of Submission: Notice of Intent	Type of Action: Drilling Operations
Date Sundry Submitted: 08/03/2022	Time Sundry Submitted: 10:57
Date proposed operation will begin: 08/04/2022	

Procedure Description: Franklin Mountain Energy, LLC (FME), Operator, respectfully requests expedited approval to make the following changes to the proposed drilling plan for the above referenced well. While drilling the originally permitted lateral, FME encountered operational issues. After multiple attempts to open-hole sidetrack, FME received permission to set a plug and attempt to sidetrack from further up hole. Please see previously approved sundries for details. FME requests approval to sidetrack via the attached plans. On 8/5/2022 a cement plug consisting of 156 sxs of 17 ppg Class H cmt (0.99 cu ft/sk yield, 3.75 gal/sk water req) was successfully placed. FME requests permission to cut a window from the 7 5/8" casing at 11,415 to 11,423 to drill 6 3/4" production hole section per attached directional plan. Stress calculations on 5 1/2" casing performed assuming 22,302' depth. Actual max vertical depth is 11,665'. Revised BHL will be 150 FNL 800 FEL T24S R35E Please see revised C-102, directional plan, and 14pt. plan attached.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

EP_604H_Sidetrack_20220822105554.pdf

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Well Number: 604H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM132081	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548913	Well Status: Drilling Well	Operator: FRANKLIN MOUNTAIN ENERGY LLC

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 22, 2022 10:56 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@fme LLC.com

Field

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

BLM Point of Contact

BLM POC Name: LONG VO **BLM POC Title:** Petroleum Engineer
BLM POC Phone: 5752345972 **BLM POC Email Address:** LVO@BLM.GOV
Disposition: Approved **Disposition Date:** 08/26/2022
Signature: Long Vo

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-48913	² Pool Code 98185	³ Pool Name WC-025 G-09 S253502B;LWR BONE SPRING
⁴ Property Code 330669	⁵ Property Name EL PASO FED COM	⁶ Well Number 604H
⁷ OGRID No. 373910	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY LLC	⁹ Elevation 3334.1'

¹⁰ Surface Location

UL or lot no. 1	Section 1	Township 25S	Range 35E	Lot Idn	Feet from the 263	North/South line NORTH	Feet from the 650	East/West line EAST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. A	Section 25	Township 24S	Range 35E	Lot Idn	Feet from the 150	North/South line NORTH	Feet from the 800	East/West line EAST	County LEA
¹² Dedicated Acres 320		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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

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- = SURFACE HOLE LOCATION
- ◆ = KICK OFF POINT/FTP/PPP
- = BHL/PTTD/LTP
- ▲ = SECTION CORNER LOCATED
- △ = SECTION CORNER RE-EST.

(Not Set on Ground.)

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S02°45'04"W	174.01'
L2	N12°24'15"W	447.33'
L3	N08°33'12"W	136.56'

NAD 83 (SURFACE HOLE LOCATION)
 LATITUDE = 32°09'57.56" (32.165990°)
 LONGITUDE = 103°18'53.36" (103.314821°)

NAD 27 (SURFACE HOLE LOCATION)
 LATITUDE = 32°09'57.11" (32.165863°)
 LONGITUDE = 103°18'51.68" (103.314357°)

STATE PLANE NAD 83 (N.M. EAST)
 N: 425613.46' E: 856501.19'

STATE PLANE NAD 27 (N.M. EAST)
 N: 425554.64' E: 815314.69'

NAD 83 (KICK OFF POINT)
 LATITUDE = 32°09'55.84" (32.165512°)
 LONGITUDE = 103°18'53.46" (103.314851°)

NAD 27 (KICK OFF POINT)
 LATITUDE = 32°09'55.39" (32.165385°)
 LONGITUDE = 103°18'51.79" (103.314387°)

STATE PLANE NAD 83 (N.M. EAST)
 N: 425439.65' E: 856493.56'

STATE PLANE NAD 27 (N.M. EAST)
 N: 425380.83' E: 815307.06'

NAD 83 (PPP #1)
 LATITUDE = 32°09'59.86" (32.166627°)
 LONGITUDE = 103°18'54.50" (103.315139°)

NAD 27 (PPP #1)
 LATITUDE = 32°09'59.40" (32.166501°)
 LONGITUDE = 103°18'52.83" (103.314674°)

STATE PLANE NAD 83 (N.M. EAST)
 N: 425844.50' E: 856400.85'

STATE PLANE NAD 27 (N.M. EAST)
 N: 425785.67' E: 815214.36'

NAD 83 (LP/FTP/PPP #2)
 LATITUDE = 32°10'01.51" (32.167086°)
 LONGITUDE = 103°18'54.78" (103.315218°)

NAD 27 (LP/FTP/PPP #2)
 LATITUDE = 32°10'01.05" (32.166959°)
 LONGITUDE = 103°18'53.11" (103.314753°)

STATE PLANE NAD 83 (N.M. EAST)
 N: 426011.01' E: 856374.79'

STATE PLANE NAD 27 (N.M. EAST)
 N: 425952.18' E: 815188.31'

NAD 83 (PPP #3)
 LATITUDE = 32°10'52.44" (32.181232°)
 LONGITUDE = 103°18'55.11" (103.315309°)

NAD 27 (PPP #3)
 LATITUDE = 32°10'51.98" (32.181106°)
 LONGITUDE = 103°18'53.44" (103.314843°)

STATE PLANE NAD 83 (N.M. EAST)
 N: 431157.37' E: 856297.83'

STATE PLANE NAD 27 (N.M. EAST)
 N: 431098.40' E: 815111.55'

NAD 83 (BHL/PTTD/LTP)
 LATITUDE = 32°11'43.19" (32.195332°)
 LONGITUDE = 103°18'55.10" (103.315307°)

NAD 27 (BHL/PTTD/LTP)
 LATITUDE = 32°11'42.74" (32.195205°)
 LONGITUDE = 103°18'53.43" (103.314840°)

STATE PLANE NAD 83 (N.M. EAST)
 N: 436286.86' E: 856249.99'

STATE PLANE NAD 27 (N.M. EAST)
 N: 436227.75' E: 815063.91'

NOTE:

- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

Re-Established by Single Proportion Method

Detail "A"
 No Scale
 LP/FTP/PPP #2
 PPP #1
 SHL
 KOP
 Section Line
 SCALE

17 OPERATOR CERTIFICATION

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

Signature _____ Date 8/3/2022

Rachael Overbey
Printed Name

roverbey@fmlc.com
E-mail Address

18 SURVEYOR CERTIFICATION

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

February 13, 2020

Date of Survey

Signature and Seal of Professional Surveyor:

PAUL BUCHELE
NEW MEXICO
PROFESSIONAL SURVEYOR
 23782
 08-02-22

Certificate Number:

19

SE Cor. Sec. 12

SCALE

DRAWN BY: T.A. 02-24-20
REV:3 08-02-22 E.C.
(UPDATE WELL BORE)



El Paso Fed Com 604H

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

Formations	PROG SS	ACTUAL TVD
Cenozoic Alluvium (surface)	3334	30
Rustler	2332	1470
Salado	2214	2129
Base Salt	63	3590
Lamar	-1502	5204
Bell Canyon	-1560	5315
Cherry Canyon	-2448	5995
Brushy Canyon	-3869	7314
Bone Spring Lime	-5144	8634
Avalon	-5241	8714
First Bone Spring Sand	-6433	9856
Second Bone Spring Carbonates	-6563	9951
Second Bone Spring Sand	-6939	10320
Third Bone Spring Carbonates	-7487	10960
Third Bone Spring Sand	-8019	11569
HZ Target at SHL	-8191	11601

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	5,315'	Oil
Bone Spring	9,856'	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 1,346' and circulating cement back to surface.

4. Casing Program:

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

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length	API design factor			
								Burst	Collapse	Tension	Coupling
Surface 13 3/8"	54.5	J-55	2730	1130	853	BTC 909	1346	1.17	1.61	4.92	5.24
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	BTC 1042	5216	1.76	1.73	2.97	3.38
Intermediate 7 5/8"	29.7	HCP-110	8280	7150	827	Liberty 558	11890	1.12	1.28	1.83	1.23
Long string 5 1/2"	23	P-110	14520	14520	729	Eagle 606	22302 11665	1.32	1.39	1.19	0.99 1.65



7 5/8" casing is set at 11,890' MD/11,615' TVD at 91° Inc.

A cmt plug consisted of 156 sxs of 17 ppg Class H cmt (0.99 cu ft/sk yield, 3.75 gal/sk water req) was placed as per approved sundry.

A window from the 7 5/8" casing will be cut at 11,415 to 11,423 to drill 6 3/4" production hole section per attached Directional plan.

Stress calculations on 5 1/2" casing performed assuming 22,302' depth. Actual max vertical depth is 11,665'.

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	1346	831	Extenda Cem, 13.5 ppg Class C, 3lb/sk Kol-Seal	1.747	9.06	0	334	HalCem TM, 14.8 ppg, Class C, 1% CaCl ₂ , 0.125pps Celo-Flake	1.349	6.51	1000	100%
Int1	12.25	9.625	5216	1522	0.125pps Poly-E-Flake									
					Lead, 12.8 ppg, Class C 5% Salt,	1.79	9.74	0	154	HalCem TM, 14.8 ppg, Class C, 0.1% HR 800 .125 pps Poly-E-Flake	1.33	6.37	4916	100%
Int2	8.75	7.625	11890	452	0.125 pps Poly-E-Flake, 3lb/sk Kol-Seal									
					Lite Fill, 9.5 ppg, Class C 3lb/sk	2.13	5.97	4216	121	NeoCem 14.8 ppg, Class C	1.33	6.29	10890	50%
					Bridgemaker Gel, 5%									
					Salt, 5pps LCM, 0.25pps Cello-Flake					0.25 pps Cello-Flake, 2% CaCl ₂				
Prod	6.75	5.5	22302	851	Tail, 14.5 ppg, Gas Migration Control	1.34	6.22	10890						20%

5. Minimum Specifications for Pressure Control:

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

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

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.

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 – 1,346'	Fresh - Gel	8.6-8.8	28-34	N/c
1,346' – 11,890'	Brine	8.8-10.2	28-34	N/c
11,890' – 22,302'	Oil Base	10.0-11.0	58-68	3 - 6
Lateral				

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.

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 11,665' TVD (deepest point of the well) is 195F with an estimated maximum bottom-hole pressure (BHP) at the same point of 7,279 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:



10. Hydrogen Sulfide Plan:

- A. All personnel shall receive proper awareness H₂S training.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment
 - a. Well Control Equipment
 - i. Flare line 150' from wellhead to be ignited by auto ignition sparking system.
 - ii. Choke manifold with a remotely operated hydraulic choke.
 - iii. Mud/gas separator
 - b. Protective equipment for essential personnel
 - i. Breathing Apparatus
 - 1. Rescue packs (SCBA) – 1 unit shall be placed at each briefing area, 2 shall be stored in a safety trailer on site.
 - 2. Work/Escapes packs – 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity
 - 3. Emergency Escape Packs – 4 packs shall be stored in the doghouse for emergency evacuation
 - ii. Auxiliary Rescue Equipment
 - 1. Stretcher
 - 2. Two OSHA full body harnesses
 - 3. 100 feet of 5/8 inches OSHA approved rope
 - 4. 1-20# class ABC fire extinguisher
 - c. H₂S Detection and Monitoring Equipment
 - i. A stationary detector with three sensors will be placed in the doghouse if equipped, set to visually alarm at 10 ppm and audible at 14 ppm. The detector will be calibrated a minimum of every 30 days or as needed. The sensors will be placed in the following places:
 - 1. Rig Floor
 - 2. Below Rig Floor / Near BOPs
 - 3. End of flow line or where well bore fluid is being discharged (near shakers)
 - ii. If H₂S is encountered, measured values and formations will be provided to the BLM.
 - d. Visual Warning Systems
 - i. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - ii. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - iii. Two windsocks will be placed in strategic locations, visible from all angles.
 - e. Mud Program
 - i. The Mud program will be designed to minimize the volume of H₂S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H₂S bearing zones.
 - f. Metallurgy
 - i. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service at the anticipated operating pressures to prevent sour sulfide stress cracking.
 - g. Communication



- i. Communication will be via cell phones and walkie talkies on location.

Franklin Mountain Energy has conducted a review of offset operated wells to determine if an H2S contingency plan is required for the proposed well. Based on concentrations of offset wells, proximity to main roads, and distance to populated areas, the radius of exposure created by a potential release was determined to be minimal and low enough to not necessitate an H2S contingency plan. This will be reevaluated during wellbore construction if H2S is observed and after the well is on production.

11. Anticipated starting date and duration of operations:

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

12. Disposal/environmental concerns:

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

13. Wellhead:

A multi-bowl wellhead system will be utilized.

After running the 13 3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5,000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2

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

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

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

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

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

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

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



14. Additional variance requests

A. Casing.

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

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



FRANKLIN MOUNTAIN ENERGY

LEA COUNTY, NM (NAD 83)

SEC 1, T25S, R35E

EL PASO FED COM 604H

STK 1

PLAN #1 (08.01.22)

Standard Planning Report

01 August, 2022



CATHEDRAL

Project: LEA COUNTY, NM (NAD 83)
 Site: SEC 1, T25S, R35E
 Well: EL PASO FED COM 604H
 Wellbore: STK 1
 PLAN #1 (08.01.22)

WELL DETAILS: EL PASO FED COM 604H

25' KB @ 3359.10usft (H&P 602)
 Ground Level: 3334.10
 Gravity: 0.99849

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	425613.46	856501.19	32° 9' 57.563 N	103° 18' 53.357 W
US State Plane 1983 New Mexico Eastern Zone					



Total Azimuth to Grid North
 True North: -0.54°
 Magnetic North: 5.78°

Magnetic Field
 Strength: 47489.2nT
 Dip Angle: 59.69°
 Date: 8/1/2022
 Model: HRGM

SECTION DETAILS

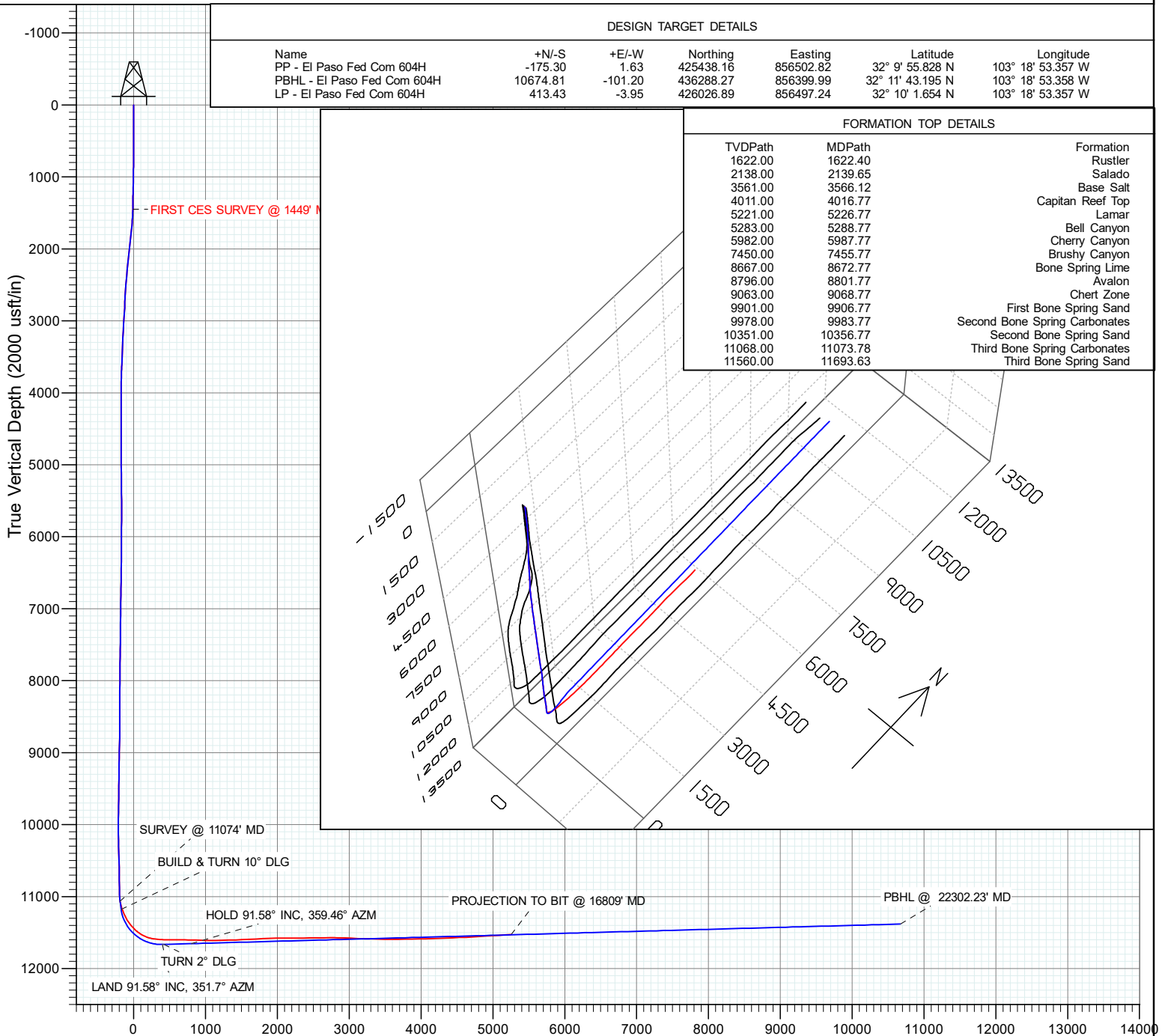
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1310.00	1.70	227.82	1309.84	-9.12	-13.93	0.00	0.00	-8.99	TIE-IN @ 1310' MD
1430.00	1.70	227.82	1429.79	-11.51	-16.57	0.00	0.00	-11.35	BUILD 1.5° DLG
1652.02	4.00	172.72	1651.55	-21.40	-18.03	1.50	-79.81	-21.23	HOLD 4° INC; 172.72° AZM
3744.27	4.00	172.72	3738.71	-166.08	0.45	0.00	0.00	-166.08	DROP 1.5° DLG
4010.77	0.00	0.00	4005.00	-175.30	1.63	1.50	180.00	-175.31	HOLD 0° INC; 0° AZM
11048.63	0.00	0.00	11042.85	-175.30	1.63	0.00	0.00	-175.31	BUILD 10° DLG
11964.43	91.58	359.46	11615.59	413.43	-3.95	10.00	359.46	413.45	LAND 91.58° INC; 359.46° AZM
22230.17	91.58	359.46	11332.54	10674.81	-101.20	0.00	0.00	10675.29	PBHL @ 22230.17' MD

DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PP - El Paso Fed Com 604H	-175.30	1.63	425438.16	856502.82	32° 9' 55.828 N	103° 18' 53.357 W
PBHL - El Paso Fed Com 604H	10674.81	-101.20	436288.27	856399.99	32° 11' 43.195 N	103° 18' 53.358 W
LP - El Paso Fed Com 604H	413.43	-3.95	426026.89	856497.24	32° 10' 1.654 N	103° 18' 53.357 W

FORMATION TOP DETAILS

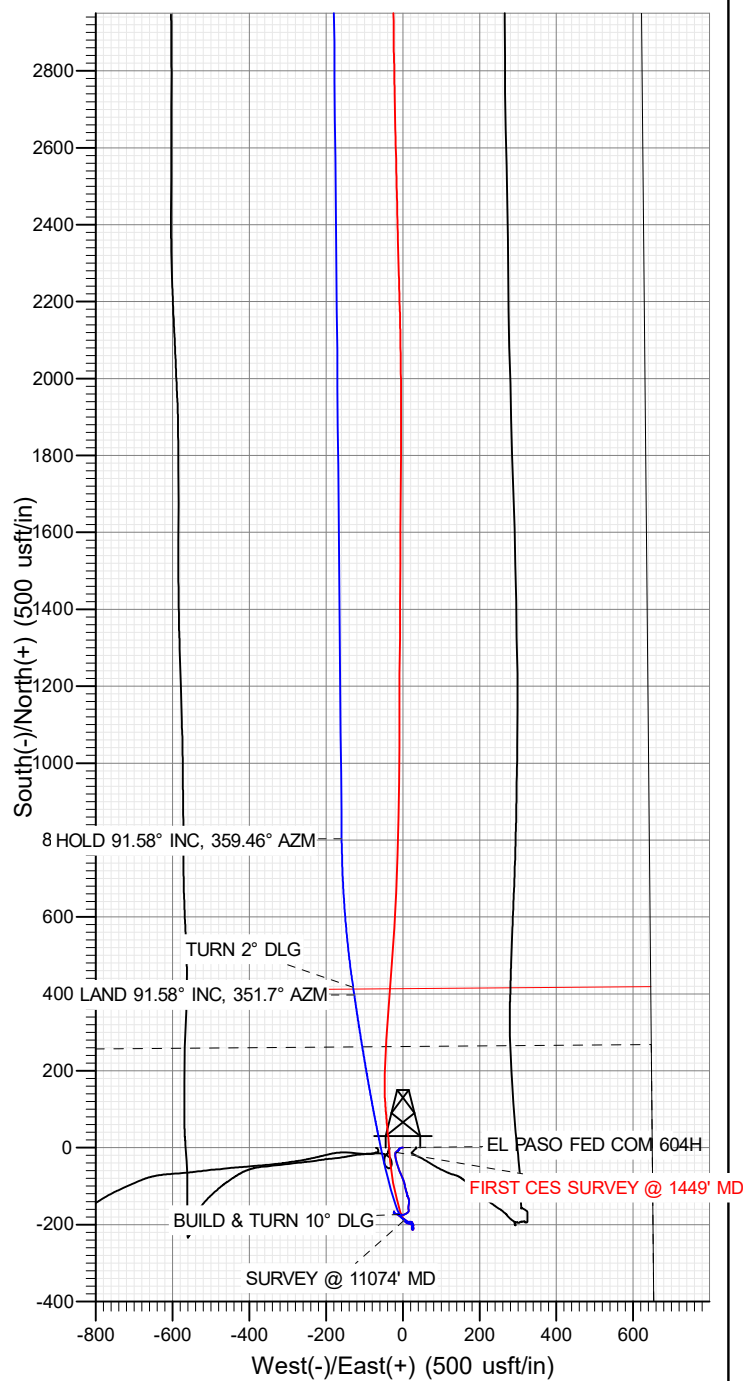
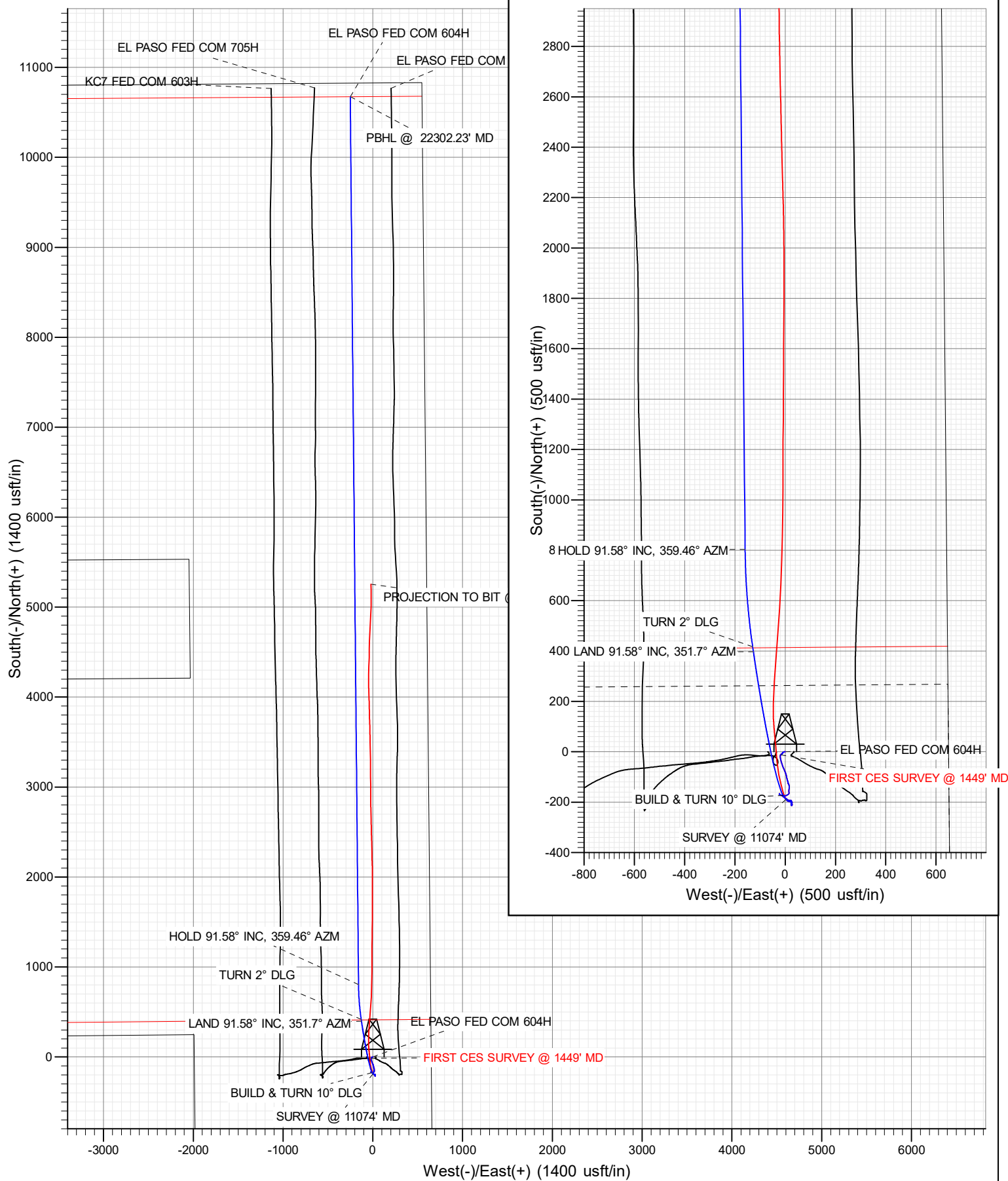
TVDPath	MDPath	Formation
1622.00	1622.40	Rustler
2138.00	2139.65	Salado
3561.00	3566.12	Base Salt
4011.00	4016.77	Capitan Reef Top
5221.00	5226.77	Lamar
5283.00	5288.77	Bell Canyon
5982.00	5987.77	Cherry Canyon
7450.00	7455.77	Brushy Canyon
8667.00	8672.77	Bone Spring Lime
8796.00	8801.77	Avalon
9063.00	9068.77	Chert Zone
9901.00	9906.77	First Bone Spring Sand
9978.00	9983.77	Second Bone Spring Carbonates
10351.00	10356.77	Second Bone Spring Sand
11068.00	11073.78	Third Bone Spring Carbonates
11560.00	11693.63	Third Bone Spring Sand



Vertical Section at 359.46° (2000 usft/in)



US State Plane 1983
New Mexico Eastern Zone
Project: LEA COUNTY, NM (NAD 83)
Site: SEC 1, T25S, R35E
Well: EL PASO FED COM 604H
Wellbore: STK 1
25' KB @ 3359.10usft (H&P 602)
Ground Elevation: 3334.10
PLAN #1 (08.01.22)





Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well EL PASO FED COM 604H
Company:	FRANKLIN MOUNTAIN ENERGY	TVD Reference:	25' KB @ 3359.10usft (H&P 602)
Project:	LEA COUNTY, NM (NAD 83)	MD Reference:	25' KB @ 3359.10usft (H&P 602)
Site:	SEC 1, T25S, R35E	North Reference:	Grid
Well:	EL PASO FED COM 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	STK 1		
Design:	PLAN #1 (08.01.22)		

Project	LEA COUNTY, 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		SEC 1, T25S, R35E, Gravity: 0.99849			
Site Position:		Northing:	425,613.46 usft	Latitude:	32° 9' 57.563 N
From:	Map	Easting:	856,501.19 usft	Longitude:	103° 18' 53.357 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.54

Well	EL PASO FED COM 604H					
Well Position	+N/-S	0.00 usft	Northing:	425,613.46 usft	Latitude:	32° 9' 57.563 N
	+E/-W	0.00 usft	Easting:	856,501.19 usft	Longitude:	103° 18' 53.357 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,334.10 usft

Wellbore	STK 1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	8/1/2022	6.33	59.69	47,489.15253062

Design	PLAN #1 (08.01.22)				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	11,074.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.46	

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
11,074.00	9.33	326.52	11,064.39	-189.36	2.66	0.00	0.00	0.00	0.00	
11,189.00	9.33	326.52	11,177.87	-173.81	-7.62	0.00	0.00	0.00	0.00	
12,020.40	91.58	351.70	11,665.29	397.54	-126.40	10.00	9.89	3.03	25.36	
12,040.40	91.58	351.70	11,664.74	417.32	-129.28	0.00	0.00	0.00	0.00	
12,428.53	91.58	359.47	11,654.04	803.86	-159.14	2.00	0.00	2.00	89.92	
22,302.23	91.58	359.47	11,382.54	10,673.40	-251.20	0.00	0.00	0.00	0.00	



Planning Report

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Company:	FRANKLIN MOUNTAIN ENERGY	TVD Reference:	25' KB @ 3359.10usft (H&P 602)
Project:	LEA COUNTY, NM (NAD 83)	MD Reference:	25' KB @ 3359.10usft (H&P 602)
Site:	SEC 1, T25S, R35E	North Reference:	Grid
Well:	EL PASO FED COM 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	STK 1		
Design:	PLAN #1 (08.01.22)		

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)
11,074.00	9.33	326.52	11,064.39	-189.36	2.66	-189.38	0.00	0.00	0.00
SURVEY @ 11074' MD									
11,100.00	9.33	326.52	11,090.05	-185.85	0.34	-185.84	0.00	0.00	0.00
11,189.00	9.33	326.52	11,177.87	-173.81	-7.62	-173.73	0.00	0.00	0.00
BUILD & TURN 10° DLG									
11,200.00	10.33	329.15	11,188.71	-172.22	-8.62	-172.13	10.00	9.13	23.89
11,300.00	19.93	340.52	11,285.15	-148.39	-18.93	-148.21	10.00	9.60	11.37
11,400.00	29.79	344.60	11,375.78	-108.28	-31.24	-107.98	10.00	9.86	4.08
11,500.00	39.71	346.78	11,457.84	-53.09	-45.17	-52.66	10.00	9.92	2.18
11,600.00	49.66	348.20	11,528.85	15.49	-60.31	16.06	10.00	9.95	1.42
11,700.00	59.63	349.25	11,586.65	95.38	-76.19	96.10	10.00	9.96	1.05
11,800.00	69.60	350.11	11,629.47	184.15	-92.33	185.02	10.00	9.97	0.85
11,900.00	79.57	350.86	11,656.02	279.11	-108.24	280.12	10.00	9.97	0.75
12,000.00	89.55	351.56	11,665.49	377.36	-123.43	378.51	10.00	9.98	0.70
12,020.40	91.58	351.70	11,665.29	397.55	-126.40	398.72	10.00	9.97	0.69
LAND 91.58° INC, 351.7° AZM									
12,040.40	91.58	351.70	11,664.74	417.33	-129.28	418.53	0.00	0.00	0.00
TURN 2° DLG									
12,100.00	91.58	352.89	11,663.10	476.37	-137.27	477.64	2.00	0.00	2.00
12,200.00	91.58	354.89	11,660.34	575.76	-147.90	577.12	2.00	0.00	2.00
12,300.00	91.58	356.89	11,657.58	675.46	-155.06	676.89	2.00	0.00	2.00
12,400.00	91.58	358.89	11,654.82	775.35	-158.73	776.81	2.00	0.00	2.00
12,428.53	91.58	359.47	11,654.04	803.86	-159.14	805.33	2.00	0.00	2.00
HOLD 91.58° INC, 359.46° AZM									
12,500.00	91.58	359.47	11,652.07	875.30	-159.81	876.77	0.00	0.00	0.00
12,600.00	91.58	359.47	11,649.32	975.26	-160.74	976.73	0.00	0.00	0.00
12,700.00	91.58	359.47	11,646.57	1,075.22	-161.67	1,076.69	0.00	0.00	0.00
12,800.00	91.58	359.47	11,643.82	1,175.18	-162.61	1,176.66	0.00	0.00	0.00
12,900.00	91.58	359.47	11,641.07	1,275.13	-163.54	1,276.62	0.00	0.00	0.00
13,000.00	91.58	359.47	11,638.32	1,375.09	-164.47	1,376.58	0.00	0.00	0.00
13,100.00	91.58	359.47	11,635.57	1,475.05	-165.40	1,476.54	0.00	0.00	0.00
13,200.00	91.58	359.47	11,632.82	1,575.01	-166.34	1,576.50	0.00	0.00	0.00
13,300.00	91.58	359.47	11,630.08	1,674.96	-167.27	1,676.47	0.00	0.00	0.00
13,400.00	91.58	359.47	11,627.33	1,774.92	-168.20	1,776.43	0.00	0.00	0.00
13,500.00	91.58	359.47	11,624.58	1,874.88	-169.13	1,876.39	0.00	0.00	0.00
13,600.00	91.58	359.47	11,621.83	1,974.84	-170.06	1,976.35	0.00	0.00	0.00
13,700.00	91.58	359.47	11,619.08	2,074.80	-171.00	2,076.32	0.00	0.00	0.00
13,800.00	91.58	359.47	11,616.33	2,174.75	-171.93	2,176.28	0.00	0.00	0.00
13,900.00	91.58	359.47	11,613.58	2,274.71	-172.86	2,276.24	0.00	0.00	0.00
14,000.00	91.58	359.47	11,610.83	2,374.67	-173.79	2,376.20	0.00	0.00	0.00
14,100.00	91.58	359.47	11,608.08	2,474.63	-174.73	2,476.16	0.00	0.00	0.00
14,200.00	91.58	359.47	11,605.33	2,574.59	-175.66	2,576.13	0.00	0.00	0.00
14,300.00	91.58	359.47	11,602.58	2,674.54	-176.59	2,676.09	0.00	0.00	0.00
14,400.00	91.58	359.47	11,599.83	2,774.50	-177.52	2,776.05	0.00	0.00	0.00
14,500.00	91.58	359.47	11,597.08	2,874.46	-178.46	2,876.01	0.00	0.00	0.00
14,600.00	91.58	359.47	11,594.33	2,974.42	-179.39	2,975.98	0.00	0.00	0.00
14,700.00	91.58	359.47	11,591.58	3,074.37	-180.32	3,075.94	0.00	0.00	0.00
14,800.00	91.58	359.47	11,588.83	3,174.33	-181.25	3,175.90	0.00	0.00	0.00
14,900.00	91.58	359.47	11,586.08	3,274.29	-182.19	3,275.86	0.00	0.00	0.00
15,000.00	91.58	359.47	11,583.33	3,374.25	-183.12	3,375.82	0.00	0.00	0.00
15,100.00	91.58	359.47	11,580.58	3,474.21	-184.05	3,475.79	0.00	0.00	0.00
15,200.00	91.58	359.47	11,577.83	3,574.16	-184.98	3,575.75	0.00	0.00	0.00
15,300.00	91.58	359.47	11,575.08	3,674.12	-185.91	3,675.71	0.00	0.00	0.00
15,400.00	91.58	359.47	11,572.33	3,774.08	-186.85	3,775.67	0.00	0.00	0.00



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Project:	LEA COUNTY, NM (NAD 83)	MD Reference:	25' KB @ 3359.10usft (H&P 602)
Site:	SEC 1, T25S, R35E	North Reference:	Grid
Well:	EL PASO FED COM 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	STK 1		
Design:	PLAN #1 (08.01.22)		

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)	
15,500.00	91.58	359.47	11,569.58	3,874.04	-187.78	3,875.63	0.00	0.00	0.00	
15,600.00	91.58	359.47	11,566.83	3,974.00	-188.71	3,975.60	0.00	0.00	0.00	
15,700.00	91.58	359.47	11,564.08	4,073.95	-189.64	4,075.56	0.00	0.00	0.00	
15,800.00	91.58	359.47	11,561.33	4,173.91	-190.58	4,175.52	0.00	0.00	0.00	
15,900.00	91.58	359.47	11,558.58	4,273.87	-191.51	4,275.48	0.00	0.00	0.00	
16,000.00	91.58	359.47	11,555.83	4,373.83	-192.44	4,375.45	0.00	0.00	0.00	
16,100.00	91.58	359.47	11,553.08	4,473.78	-193.37	4,475.41	0.00	0.00	0.00	
16,200.00	91.58	359.47	11,550.33	4,573.74	-194.31	4,575.37	0.00	0.00	0.00	
16,300.00	91.58	359.47	11,547.58	4,673.70	-195.24	4,675.33	0.00	0.00	0.00	
16,400.00	91.58	359.47	11,544.83	4,773.66	-196.17	4,775.29	0.00	0.00	0.00	
16,500.00	91.58	359.47	11,542.08	4,873.62	-197.10	4,875.26	0.00	0.00	0.00	
16,600.00	91.58	359.47	11,539.33	4,973.57	-198.04	4,975.22	0.00	0.00	0.00	
16,700.00	91.58	359.47	11,536.59	5,073.53	-198.97	5,075.18	0.00	0.00	0.00	
16,800.00	91.58	359.47	11,533.84	5,173.49	-199.90	5,175.14	0.00	0.00	0.00	
16,900.00	91.58	359.47	11,531.09	5,273.45	-200.83	5,275.11	0.00	0.00	0.00	
17,000.00	91.58	359.47	11,528.34	5,373.40	-201.76	5,375.07	0.00	0.00	0.00	
17,100.00	91.58	359.47	11,525.59	5,473.36	-202.70	5,475.03	0.00	0.00	0.00	
17,200.00	91.58	359.47	11,522.84	5,573.32	-203.63	5,574.99	0.00	0.00	0.00	
17,300.00	91.58	359.47	11,520.09	5,673.28	-204.56	5,674.95	0.00	0.00	0.00	
17,400.00	91.58	359.47	11,517.34	5,773.24	-205.49	5,774.92	0.00	0.00	0.00	
17,500.00	91.58	359.47	11,514.59	5,873.19	-206.43	5,874.88	0.00	0.00	0.00	
17,600.00	91.58	359.47	11,511.84	5,973.15	-207.36	5,974.84	0.00	0.00	0.00	
17,700.00	91.58	359.47	11,509.09	6,073.11	-208.29	6,074.80	0.00	0.00	0.00	
17,800.00	91.58	359.47	11,506.34	6,173.07	-209.22	6,174.77	0.00	0.00	0.00	
17,900.00	91.58	359.47	11,503.59	6,273.03	-210.16	6,274.73	0.00	0.00	0.00	
18,000.00	91.58	359.47	11,500.84	6,372.98	-211.09	6,374.69	0.00	0.00	0.00	
18,100.00	91.58	359.47	11,498.09	6,472.94	-212.02	6,474.65	0.00	0.00	0.00	
18,200.00	91.58	359.47	11,495.34	6,572.90	-212.95	6,574.61	0.00	0.00	0.00	
18,300.00	91.58	359.47	11,492.59	6,672.86	-213.89	6,674.58	0.00	0.00	0.00	
18,400.00	91.58	359.47	11,489.84	6,772.81	-214.82	6,774.54	0.00	0.00	0.00	
18,500.00	91.58	359.47	11,487.09	6,872.77	-215.75	6,874.50	0.00	0.00	0.00	
18,600.00	91.58	359.47	11,484.34	6,972.73	-216.68	6,974.46	0.00	0.00	0.00	
18,700.00	91.58	359.47	11,481.59	7,072.69	-217.61	7,074.43	0.00	0.00	0.00	
18,800.00	91.58	359.47	11,478.84	7,172.65	-218.55	7,174.39	0.00	0.00	0.00	
18,900.00	91.58	359.47	11,476.09	7,272.60	-219.48	7,274.35	0.00	0.00	0.00	
19,000.00	91.58	359.47	11,473.34	7,372.56	-220.41	7,374.31	0.00	0.00	0.00	
19,100.00	91.58	359.47	11,470.59	7,472.52	-221.34	7,474.27	0.00	0.00	0.00	
19,200.00	91.58	359.47	11,467.84	7,572.48	-222.28	7,574.24	0.00	0.00	0.00	
19,300.00	91.58	359.47	11,465.09	7,672.44	-223.21	7,674.20	0.00	0.00	0.00	
19,400.00	91.58	359.47	11,462.34	7,772.39	-224.14	7,774.16	0.00	0.00	0.00	
19,500.00	91.58	359.47	11,459.59	7,872.35	-225.07	7,874.12	0.00	0.00	0.00	
19,600.00	91.58	359.47	11,456.84	7,972.31	-226.01	7,974.08	0.00	0.00	0.00	
19,700.00	91.58	359.47	11,454.09	8,072.27	-226.94	8,074.05	0.00	0.00	0.00	
19,800.00	91.58	359.47	11,451.34	8,172.22	-227.87	8,174.01	0.00	0.00	0.00	
19,900.00	91.58	359.47	11,448.59	8,272.18	-228.80	8,273.97	0.00	0.00	0.00	
20,000.00	91.58	359.47	11,445.84	8,372.14	-229.74	8,373.93	0.00	0.00	0.00	
20,100.00	91.58	359.47	11,443.10	8,472.10	-230.67	8,473.90	0.00	0.00	0.00	
20,200.00	91.58	359.47	11,440.35	8,572.06	-231.60	8,573.86	0.00	0.00	0.00	
20,300.00	91.58	359.47	11,437.60	8,672.01	-232.53	8,673.82	0.00	0.00	0.00	
20,400.00	91.58	359.47	11,434.85	8,771.97	-233.46	8,773.78	0.00	0.00	0.00	
20,500.00	91.58	359.47	11,432.10	8,871.93	-234.40	8,873.74	0.00	0.00	0.00	
20,600.00	91.58	359.47	11,429.35	8,971.89	-235.33	8,973.71	0.00	0.00	0.00	
20,700.00	91.58	359.47	11,426.60	9,071.85	-236.26	9,073.67	0.00	0.00	0.00	
20,800.00	91.58	359.47	11,423.85	9,171.80	-237.19	9,173.63	0.00	0.00	0.00	



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Project:	LEA COUNTY, NM (NAD 83)	MD Reference:	25' KB @ 3359.10usft (H&P 602)
Site:	SEC 1, T25S, R35E	North Reference:	Grid
Well:	EL PASO FED COM 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	STK 1		
Design:	PLAN #1 (08.01.22)		

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)	
20,900.00	91.58	359.47	11,421.10	9,271.76	-238.13	9,273.59	0.00	0.00	0.00	
21,000.00	91.58	359.47	11,418.35	9,371.72	-239.06	9,373.56	0.00	0.00	0.00	
21,100.00	91.58	359.47	11,415.60	9,471.68	-239.99	9,473.52	0.00	0.00	0.00	
21,200.00	91.58	359.47	11,412.85	9,571.63	-240.92	9,573.48	0.00	0.00	0.00	
21,300.00	91.58	359.47	11,410.10	9,671.59	-241.86	9,673.44	0.00	0.00	0.00	
21,400.00	91.58	359.47	11,407.35	9,771.55	-242.79	9,773.40	0.00	0.00	0.00	
21,500.00	91.58	359.47	11,404.60	9,871.51	-243.72	9,873.37	0.00	0.00	0.00	
21,600.00	91.58	359.47	11,401.85	9,971.47	-244.65	9,973.33	0.00	0.00	0.00	
21,700.00	91.58	359.47	11,399.10	10,071.42	-245.59	10,073.29	0.00	0.00	0.00	
21,800.00	91.58	359.47	11,396.35	10,171.38	-246.52	10,173.25	0.00	0.00	0.00	
21,900.00	91.58	359.47	11,393.60	10,271.34	-247.45	10,273.22	0.00	0.00	0.00	
22,000.00	91.58	359.47	11,390.85	10,371.30	-248.38	10,373.18	0.00	0.00	0.00	
22,100.00	91.58	359.47	11,388.10	10,471.25	-249.31	10,473.14	0.00	0.00	0.00	
22,200.00	91.58	359.47	11,385.35	10,571.21	-250.25	10,573.10	0.00	0.00	0.00	
22,300.00	91.58	359.47	11,382.60	10,671.17	-251.18	10,673.06	0.00	0.00	0.00	
22,302.23	91.58	359.47	11,382.54	10,673.40	-251.20	10,675.29	0.00	0.00	0.00	
PBHL @ 22302.23' MD										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
11,074.00	11,064.39	-189.36	2.66	SURVEY @ 11074' MD	
11,189.00	11,177.87	-173.81	-7.62	BUILD & TURN 10° DLG	
12,020.40	11,665.29	397.55	-126.40	LAND 91.58° INC, 351.7° AZM	
12,040.40	11,664.74	417.33	-129.28	TURN 2° DLG	
12,428.53	11,654.04	803.86	-159.14	HOLD 91.58° INC, 359.46° AZM	
22,302.23	11,382.54	10,673.40	-251.20	PBHL @ 22302.23' MD	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 141852

CONDITIONS

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 141852
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	9/15/2022