

Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM
 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-025-51201
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Eagle State Com
8. Well Number 703H
9. OGRID Number 331595
10. Pool name or Wildcat [55640] SCHARB; WOLFCAMP
4. Well Location Unit Letter <u>C</u> : <u>325</u> feet from the <u>N</u> line and <u>1945</u> feet from the <u>W</u> line Section <u>35</u> Township <u>18S</u> Range <u>35E</u> NMPM County Lea
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3847

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Franklin Mountain Energy 3, LLC

3. Address of Operator
44 Cook Street, Suite 1000, Denver, CO 80206

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
 DOWNHOLE COMMINGLE ☐
 CLOSED-LOOP SYSTEM ☐
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐
 OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

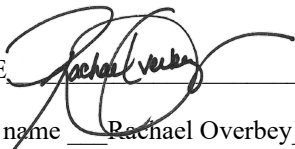
Franklin Mountain Energy 3, LLC (FME3), Operator, respectfully requests approval to make the following changes to the proposed drilling plan for the above referenced well.

BHL Change: FME3 requests approval to change the BHL for this well from 100' FNL 2590' FWL to **100 FSL 2180 FWL** Sec 10 19S 35E. SHL remains the same. Please see attached Plan #3, revised 14-point plan, geo prog and C-102.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE  TITLE Dir. Ops Planning & Regulatory DATE 4/28/2023

Type or print name Rachael Overbey E-mail address: roverbey@fmellc.com PHONE: 303-570-4057

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):



Eagle State Com 703H

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)	3,855'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2,077'	1,809'			Carbonates
Salado	1,841'	2,044'			Salt, Carbonate & Clastics
Base Salt	923'	2,962'			Shaley Carbonate & Shale
Yates	523'	3,362'			Carbonate & Clastics
Seven Rivers	75'	3,810'			Sandstone - oil/gas/water
Queen	-685'	4,570'			Sandstone - oil/gas/water
Cherry Canyon	-2,123'	6,009'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-3,580'	7,465'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-5,149'	9,035'			Shale/Carbonates - oil/gas
Second Bone Spring Carbonates	-5,415'	9,300'			Chert/Carbonate
Second Bone Spring Sand	-5,580'	9,465'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-6,008'	9,893'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-6,086'	9,971'			Sandstone - oil/gas/water
Wolfcamp	-6,243'	10,128'			Overpressure shale/sand- Oil/Gas
HZ Target	-6,384'	10,269'			Overpressure Shale - Oil/Gas
Wolfcamp B	-6,422'	10,307'			Overpressure Shale - Oil/Gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	6,009'	Oil
1 st Bone Spring Sand	9,035'	Oil
2 nd Bone Spring Sand	9,465'	Oil
3 rd Bone Spring Sand	9,971'	Oil
Wolfcamp	10,128'	Oil
Wolfcamp B	10,307'	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 1,900' and circulating cement back to surface.

4. Casing Program:

All casing strings will be run new.



Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length	API design factor			
								Burst	Collapse	Tension	Coupling
Surface 13 3/8" 0-1,900'	54.5	J-55	2730	1130	853	BTC 909	1900	1.02	1.14	4.19	4.47
Intermediate 9 5/8" 0-4,000'	40	HCL-80	7430	4230	916	BTC 1042	4000	2.08	2.26	3.52	4.01
Production 7" 0-9,700'	32	HCP-110	12460	10760	1025	CDC-HTQ 1053	9700	2.06	2.37	2.50	2.57
Production 5 1/2" 9,700'-20,391'	20	HCP-110	12640	12200	641	CDC-HTQ 667 TVD	10691 10269	1.15	2.44	2.04	2.13 2.18

Tapered production string will be ran with a X-over installed at the KOP of 9,700'.

Cementing Program:

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

To increase efficiency of drilling operations and minimize disturbance of the area the batch-drilling approach will be used.

Off-line cementing may be utilized for Surface and Intermediate strings to further optimization of drilling process and reduction of disturbance.

String Type	Hole Size	Casing Size	Setting Depth	Sacks	Type of cmt	Lead Yield ft3/sk	Water gal/sk	TOC ft	Sacks	Type of cmt	Tail Yield ft3/sk	Water gal/sk	TOC	Excess
Surf	17.5	13.375	1900	1016	85:15 Compass Poz, 12.8 ppg Class C, 5%Gel, 3#/sk Kol Seal, 4.64#/sk Salt Lead, 11.3 ppg, HSLD 82	2.05	11.12	0	441	Tail, 14.8 ppg, 100% Class C, 1%CaCl2, 0.1%	1.34	6.35	1500	100%
Int	12.25	9.625	4000	640	10% Gel, 4% STE, 2#/sk, Gyp Seal HSLD 9420,	2.74	16.31	0	201	Econolite Tail, 14.8 ppg, 100% Class C, 0.08% C-51	1.33	6.33	3600	100%
Prod	8.75	7	0-9700	469	10.5 ppg, Class C, 1#/sk Salt, 4% STE 1% C-45	3.99	25.51	3000						100%
Prod	8.75	5.5	9700-20391						2668	HSLD 80, 13.ppg , 32#/sk Salt, 4% STE, 1#/sk Gyp Seal	1.52	7.59	9700	50%

**Contingency plan:**

If adverse drilling conditions are encountered the drilling will pivot to contingency plan to deepen Intermediate casing string and run 2-stage cement job on it.

4.a Contingency Casing Program

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	1900	1.02	1.14	4.19	4.47
0-1,900'											
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	BTC 1042	8000	1.31	1.13	2.18	2.48
0-8,000'											
Production 7"	32	HCP-110	12460	10760	1025	CDC-HTQ 1053	9700	2.06	2.37	2.50	2.57
0-9,700'											
Production 5 1/2"	20	HCP-110	12640	12200	641	CDC-HTQ 667	10691	1.15	2.44	2.04	2.13
9,700'-20,391'						TVD 10269	10269				2.18

Contingency Cementing Program:

String Type	Hole Size	Casing Size	Setting Depth	Sacks	Type of cmt	Lead Yield ft3/sk	Water gal/sk	TOC ft	Sacks	Type of cmt	Tail Yield ft3/sk	Water gal/sk	TOC	Excess
Surf	17.5	13.375	1900	1016	85:15 Compass Poz, 12.8 ppg Class C, 5%Gel, 3#/sk Kol Seal, 4.64#/sk Salt	2.05	11.12	0	441	Tail, 14.8 ppg, 100% Class C, 1%CaCl2, 0.1%	1.34	6.35	1500	100%
Int St 1	12.25	9.625	8000	823	Lead, 11.3 ppg, HSLD 82 10% Gel, 4%STE, 2#/sk, Gyp Seal	2.74	16.31	4000	188	Econolite Tail, 14.8 ppg, 100% Class C, 0.08% C-51	1.33	6.33	7600	100%
Int St 2	12.25	9.625	4000	732	Lead, 11.3 ppg, HSLD 82 10% Gel, 4%STE, 2#/sk, Gyp Seal	2.74	16.31	0						100%
Prod	8.75	7	0-9700	168	HSLD 9420, 10.5 ppg, Class C, 1#/sk Salt, 4% STE 1% C-45	3.99	25.51	7000						100%
Prod	8.75	5.5	9700-20391						2668	HSLD 80, 13.ppg, 32#/sk Salt, 4% STE, 1#/sk Gyp Seal	1.52	7.59	9700	50%



5. Minimum Specifications for Pressure Control:

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

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

Before drilling out of the 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.

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 – 1,900'	Fresh - Gel	8.6-8.8	28-34	N/c
1,900' – 4,000'	Brine	8.8-10.2	28-34	N/c
4,000' – 20,391' Lateral	Oil Base	9.0-11.0	58-68	3 - 6

Contingency mud system:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,900'	Fresh - Gel	8.6-8.8	28-34	N/c
1,900' – 8,000'	Brine	8.8-10.2	28-34	N/c
8,000' – 20,391' Lateral	Oil Base	9.0-11.0	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.

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 10,277' TVD (deepest point of the well) is 165F with an estimated maximum bottom-hole pressure (BHP) at the same point of 6,408 psig (based on 12 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 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.

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

11. Anticipated starting date and duration of operations:

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

12. Disposal/environmental concerns:

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

13. Wellhead:

A multi-bowl wellhead system will be utilized.

After running the 13 3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5,000 psi pressure test. This pressure test will be repeated at least every 21 days.

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

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 string. After installation of the first intermediate string the pack-off and lower flanges will be pressure tested to 5000 psi.



Both the surface and intermediate casing strings will be tested as per NMOCD Rules to the one-third of manufacture's rated yield pressure, no less than 600 psi, but not greater than 1,500 psi.

14. Additional variance requests

A. Casing.

1. Variance is requested to wave/reduce the centralizer requirements for the 7" and 5 ½" production casing due to the tight clearance with 8 ¾" hole.

Geologic Prognosis



Well Name	Eagle State Com 703H
Operator	Franklin Mountain Energy 3, LLC
Project Area	Eagle Unit
Well Type	10,000' Wolfcamp Lateral
API	
Permit Number	
Rig	

State	NM	County	Lea						
SHL	Township	19S/35E	Section	3	1,945'	FWL	325'	FNL	
BHL	Township	19S/35E	Section	10	2,180'	FEL	100'	FSL	
Surface Latitude	NAD 83	32.695728							
Surface Longitude	NAD 83	103.447474							
Bottom Hole Latitude	NAD 83	32.668124							
Bottom Hole Longitude	NAD 83	103.443627							
Ground Level	3,855'	Rig KB	30'	KB	3,885'				

Formations	PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
Cenozoic Alluvium (surface)	3,855'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2,077'	1,809'			Carbonates
Salado	1,841'	2,044'			Salt, Carbonate & Clastics
Base Salt	923'	2,962'			Shaley Carbonate & Shale
Yates	523'	3,362'			Carbonate & Clastics
Seven Rivers	75'	3,810'			Sandstone - oil/gas/water
Queen	-685'	4,570'			Sandstone - oil/gas/water
Cherry Canyon	-2,123'	6,009'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-3,580'	7,465'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-5,149'	9,035'			Shale/Carbonates - oil/gas
Second Bone Spring Carbonates	-5,415'	9,300'			Chert/Carbonate
Second Bone Spring Sand	-5,580'	9,465'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-6,008'	9,893'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-6,086'	9,971'			Sandstone - oil/gas/water
Wolfcamp	-6,243'	10,128'			Overpressure shale/sand- Oil/Gas
HZ Target	-6,384'	10,269'			Overpressure Shale - Oil/Gas
Wolfcamp B	-6,422'	10,307'			Overpressure Shale - Oil/Gas

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

Target window tolerance is set at +/- 10'

Target Line: 10,269' KBTVD @ 0' VS w/ 90.0° inc.

Offset Log: Scharb (30025272270000)

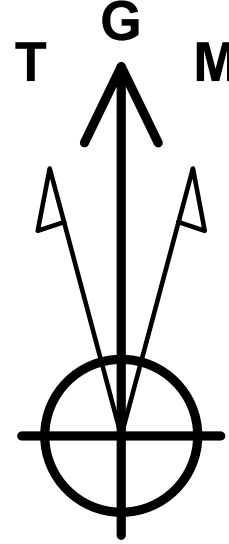
Updated 3/3/2023

FME Geologist	Ben Metz	bmetz@fmellc.com
Office	303.513.8590	Cell 303.513.8590

Electric Logs					From	To
Open-Hole						
	n/a					
MWD/LWD						
	MWD GR				Int. 1 Csg. Point	TD
Mud Log:						
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 Metz (bmetz@fmellc.com)				email	
Cuttings/Samples Shipment Information						

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: Sec 03-T19S-R35E
Well: Eagle State Com 703H
Wellbore: OH
Design: Plan #3
Rig:



Azimuths to Grid North
True North: -0.48°
Magnetic North: 5.74°

Magnetic Field
Strength: 47647.8nT
Dip Angle: 60.52°
Date: 2/17/2023
Model: HDGM2023

Total Magnetic Correction: 5.74°

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

Reference Datum: 3855' GL + 30' KB @ 3885.00usft

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
30.00	30.00	Cenozoic Alluvium (surface)
1809.00	1809.00	Rustler
2044.00	2044.00	Salado
2962.00	2964.19	Base Salt
3362.00	3370.01	Yates
3810.00	3825.41	Seven Rivers
4570.00	4597.97	Queen
6009.00	6060.75	Cherry Canyon
7465.00	7540.81	Bone Spring Lime
9035.00	9136.40	First Bone Spring Sand
9300.00	9403.14	Second Bone Spring Carbonates
9465.00	9568.41	Second Bone Spring Sand
9893.00	10000.54	Third Bone Spring Carbonates
9971.00	10086.26	Third Bone Spring Sand
10128.00	10288.78	Wolfcamp
10269.00	10699.48	HZ Target

SHL

RKB Elevation: 3855' GL + 30' KB @ 3885.00usft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	617975.30	813854.26	32.6957284	-103.4474735	

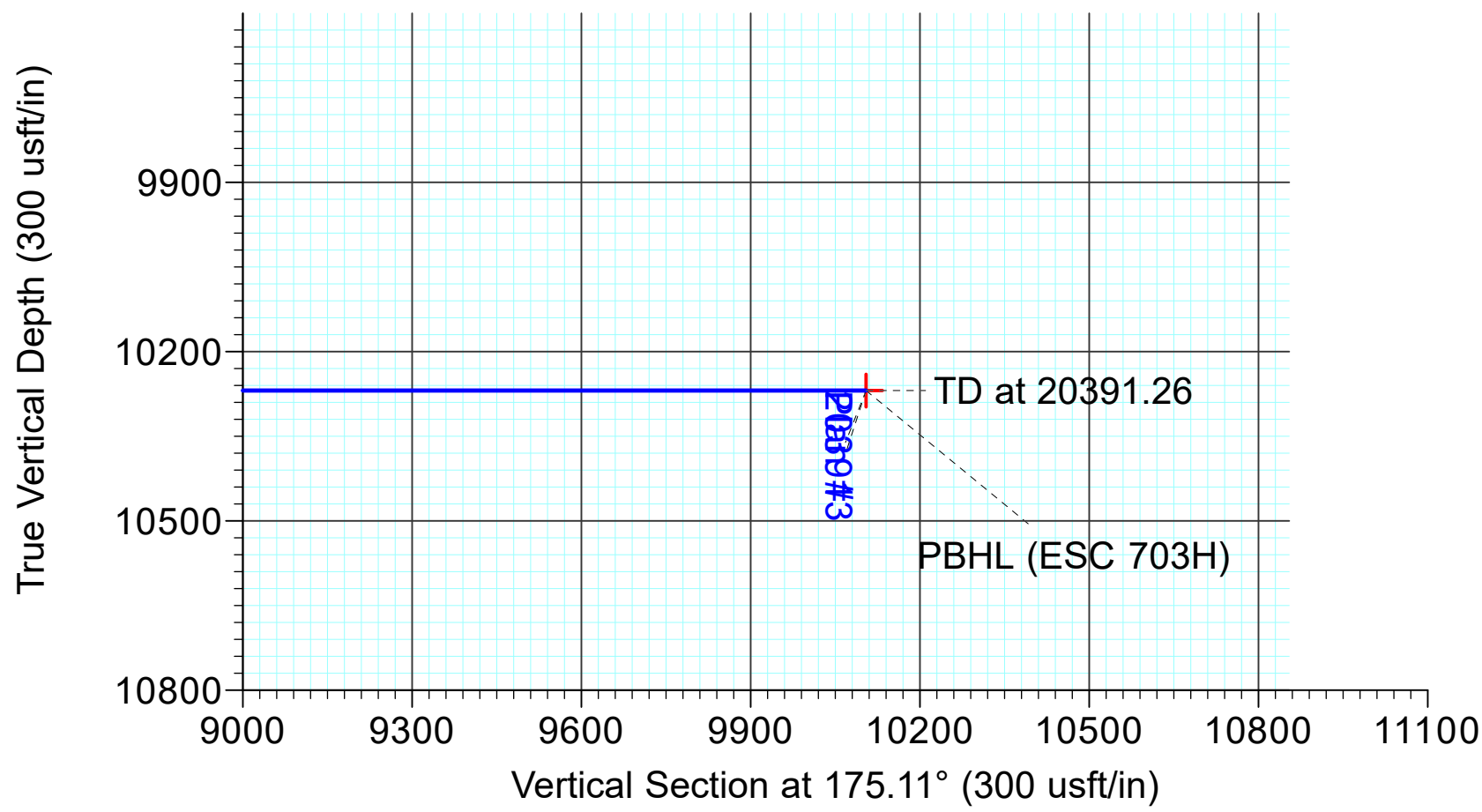
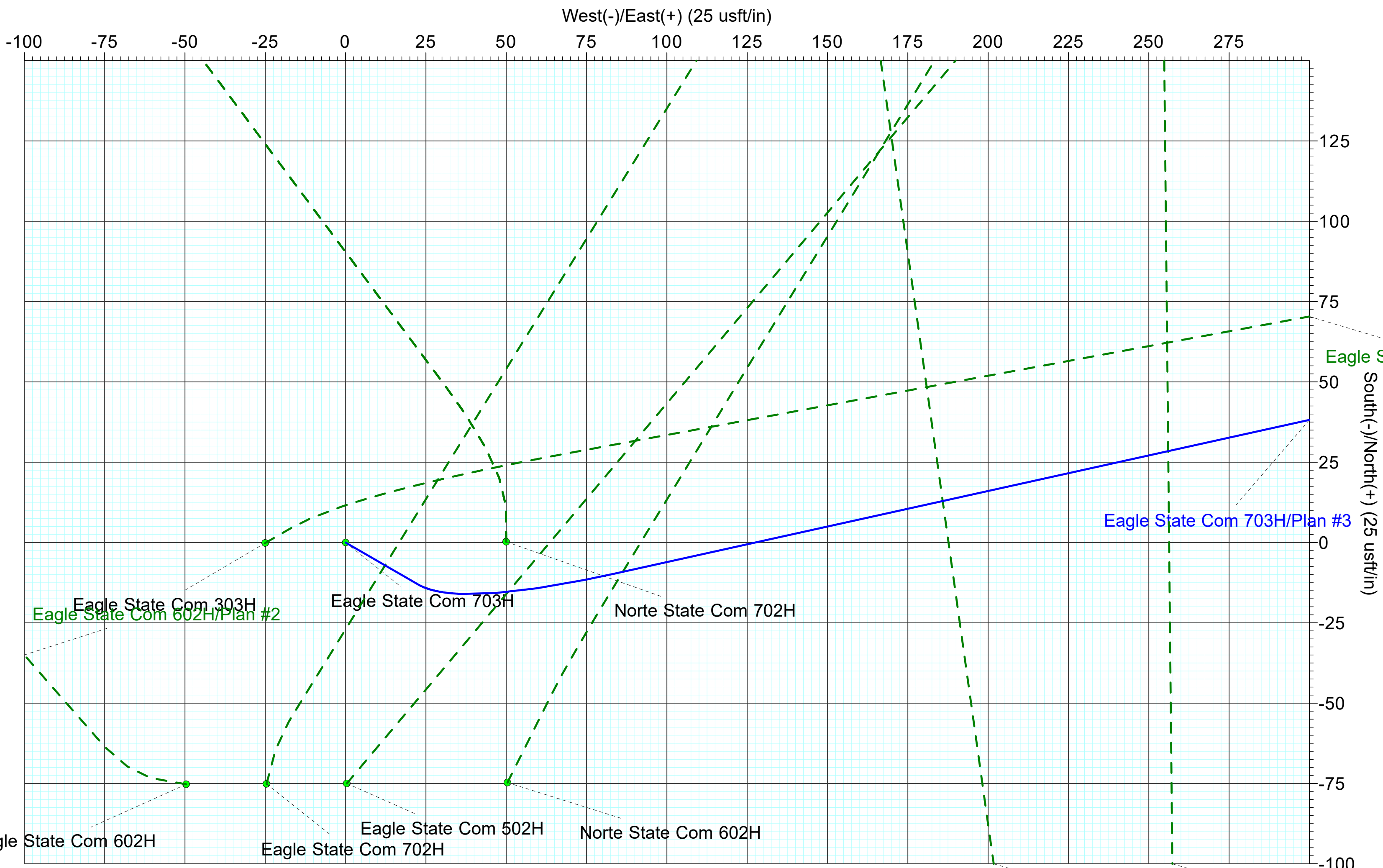
Target Line: 10,269' KBTVD @ 0' VS w/ 90.0° inc.

SECTION DETAILS for: Plan #3

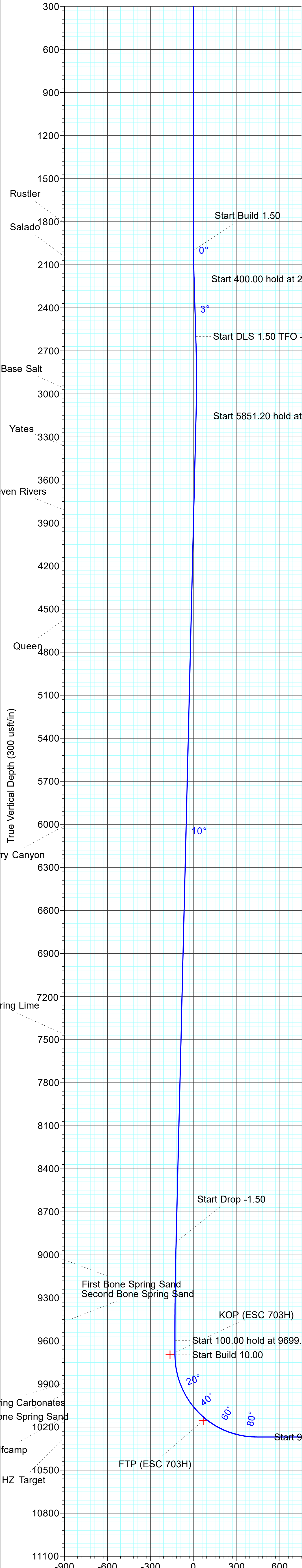
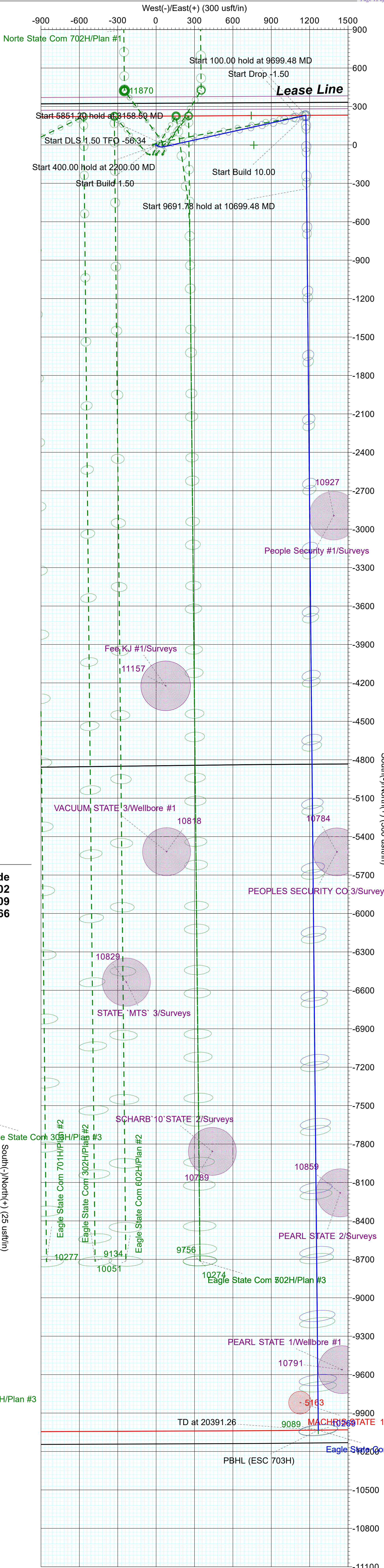
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	
2200.00	3.00	120.00	2199.91	-2.62	4.53	1.50	120.00	2.99	
2600.00	3.00	120.00	2599.36	-13.08	22.66	0.00	0.00	14.97	
3158.59	10.35	77.52	3154.01	-9.55	84.40	1.50	-56.34	16.70	
9009.79	10.35	77.52	8910.10	217.59	1110.32	0.00	0.00	-122.24	
9699.48	0.00	179.46	9596.04	231.01	1170.95	1.50	180.00	-130.45	
9799.48	0.00	179.46	9696.04	231.01	1170.95	0.00	0.00	-130.45	
10699.48	90.00	179.46	10269.00	-341.92	1176.35	10.00	0.00	440.86	
20391.26	90.00	179.46	10269.00	-10033.27	1267.69	0.00	0.00	10104.78	PBHL (ESC 703H)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP (ESC 703H)	9696.04	228.80	743.64	618204.10	814597.90	32.6963401	-103.4450502
FTP (ESC 703H)	10154.99	-1.19	763.80	617974.11	814618.06	32.6957075	-103.4449909
PBHL (ESC 703H)	10269.00	-10033.27	1267.69	607942.03	815121.95	32.6681240	-103.4436266



Sec 03-T19S-R35E Eagle State Com 703H Plan #3 (Eagle State Com 703H/OH)
Created By: Tom Thompson Date: 15/06, April 21 2023
Checked: Date:



Franklin Mountain Energy

Lea County, NM (NAD83)

Sec 03-T19S-R35E

Eagle State Com 703H

1945 FWL, 325 FNL Sec 3

OH

Plan: Plan #3



Standard Survey Report

21 April, 2023

Total Report Version 1.10

COMPASS 5000.16 Build 97



Total Directional Services, LLC

Survey Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Eagle State Com 703H
Project:	Lea County, NM (NAD83)	TVD Reference:	3855' GL + 30' KB @ 3885.00usft
Site:	Sec 03-T19S-R35E	MD Reference:	3855' GL + 30' KB @ 3885.00usft
Well:	Eagle State Com 703H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	EDM 5000.1 Single User Db

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

Site	Sec 03-T19S-R35E				
Site Position:		Northing:	617,968.58 usft	Latitude:	32.6957397
From:	Map	Easting:	812,554.48 usft	Longitude:	-103.4516984
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	Eagle State Com 703H					
Well Position	+N/-S	0.00 usft	Northing:	617,975.30 usft	Latitude:	32.6957284
	+E/-W	0.00 usft	Easting:	813,854.26 usft	Longitude:	-103.4474735
Position Uncertainty		0.50 usft	Wellhead Elevation:	usft	Ground Level:	3,855.00 usft
Grid Convergence:		0.48 °				

Wellbore	OH					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength	
	HDGM2023	2/17/2023	(°)	(°)	(nT)	
			6.22	60.52	47,647.80000000	

Design	Plan #3					
Audit Notes:						
Version:		Phase:	PLAN	Tie On Depth:		0.00
Vertical Section:		Depth From (TVD)	+N/-S	+E/-W	Direction	
		(usft)	(usft)	(usft)	(°)	
		0.00	0.00	0.00	175.11	

Survey Tool Program	Date	4/21/2023			
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
0.00	20,391.26	Plan #3 (OH)	MWD+HDGM	OWSG MWD + HDGM	

Planned Survey													
Measured	Vertical	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical	Dogleg	Build	Turn		
Depth	INC	AZI	Depth	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(°)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
30.00	0.00	0.00	30.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
Cenozoic Alluvium (surface)													
100.00	0.00	0.00	100.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00



Total Directional Services, LLC

Survey Report



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Project:	Lea County, NM (NAD83)	TVD Reference:	3855' GL + 30' KB @ 3885.00usft
Site:	Sec 03-T19S-R35E	MD Reference:	3855' GL + 30' KB @ 3885.00usft
Well:	Eagle State Com 703H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
400.00	0.00	0.00	400.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
1,809.00	0.00	0.00	1,809.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
Rustler													
1,900.00	0.00	0.00	1,900.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	617,975.30	813,854.26	32.6957284	-103.4474735	0.00	0.00	0.00	0.00
Start Build 1.50													
2,044.00	0.66	120.00	2,044.00	-0.13	0.22	617,975.17	813,854.48	32.6957280	-103.4474728	0.14	1.50	1.50	0.00
Salado													
2,100.00	1.50	120.00	2,099.99	-0.65	1.13	617,974.65	813,855.39	32.6957266	-103.4474698	0.75	1.50	1.50	0.00
2,200.00	3.00	120.00	2,199.91	-2.62	4.53	617,972.68	813,858.79	32.6957211	-103.4474588	2.99	1.50	1.50	0.00
Start 400.00 hold at 2200.00 MD													
2,300.00	3.00	120.00	2,299.77	-5.23	9.07	617,970.07	813,863.33	32.6957138	-103.4474442	5.99	0.00	0.00	0.00
2,400.00	3.00	120.00	2,399.63	-7.85	13.60	617,967.45	813,867.86	32.6957065	-103.4474295	8.98	0.00	0.00	0.00
2,500.00	3.00	120.00	2,499.50	-10.47	18.13	617,964.83	813,872.39	32.6956992	-103.4474149	11.97	0.00	0.00	0.00
2,600.00	3.00	120.00	2,599.36	-13.08	22.66	617,962.22	813,876.92	32.6956919	-103.4474002	14.97	0.00	0.00	0.00
Start DLS 1.50 TFO -56.34													
2,700.00	4.03	101.94	2,699.17	-15.12	28.37	617,960.18	813,882.63	32.6956862	-103.4473817	17.48	1.50	1.03	-18.06
2,800.00	5.29	91.80	2,798.84	-15.99	36.41	617,959.31	813,890.67	32.6956836	-103.4473556	19.03	1.50	1.26	-10.14
2,900.00	6.65	85.66	2,898.30	-15.70	46.79	617,959.60	813,901.05	32.6956842	-103.4473218	19.63	1.50	1.36	-6.13
2,964.19	7.55	82.91	2,962.00	-14.90	54.68	617,960.40	813,908.94	32.6956862	-103.4472962	19.50	1.50	1.40	-4.30
Base Salt													
3,000.00	8.06	81.64	2,997.48	-14.24	59.50	617,961.06	813,913.76	32.6956879	-103.4472805	19.26	1.50	1.42	-3.55
3,100.00	9.50	78.81	3,096.30	-11.62	74.52	617,963.68	813,928.78	32.6956947	-103.4472316	17.92	1.50	1.44	-2.83
3,158.59	10.35	77.52	3,154.02	-9.55	84.40	617,965.75	813,938.66	32.6957002	-103.4471994	16.70	1.50	1.45	-2.21
Start 5851.20 hold at 3158.59 MD													



Total Directional Services, LLC

Survey Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Eagle State Com 703H
Project:	Lea County, NM (NAD83)	TVD Reference:	3855' GL + 30' KB @ 3885.00usft
Site:	Sec 03-T19S-R35E	MD Reference:	3855' GL + 30' KB @ 3885.00usft
Well:	Eagle State Com 703H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,200.00	10.35	77.52	3,194.75	-7.94	91.66	617,967.36	813,945.92	32.6957045	-103.4471758	15.72	0.00	0.00	0.00
3,300.00	10.35	77.52	3,293.13	-4.06	109.20	617,971.24	813,963.46	32.6957147	-103.4471187	13.34	0.00	0.00	0.00
3,370.01	10.35	77.52	3,362.00	-1.34	121.47	617,973.96	813,975.73	32.6957219	-103.4470787	11.68	0.00	0.00	0.00
Yates													
3,400.00	10.35	77.52	3,391.50	-0.17	126.73	617,975.13	813,980.99	32.6957250	-103.4470616	10.97	0.00	0.00	0.00
3,500.00	10.35	77.52	3,489.88	3.71	144.26	617,979.01	813,998.52	32.6957353	-103.4470045	8.59	0.00	0.00	0.00
3,600.00	10.35	77.52	3,588.25	7.59	161.80	617,982.89	814,016.06	32.6957455	-103.4469474	6.22	0.00	0.00	0.00
3,700.00	10.35	77.52	3,686.62	11.47	179.33	617,986.77	814,033.59	32.6957558	-103.4468903	3.84	0.00	0.00	0.00
3,800.00	10.35	77.52	3,785.00	15.35	196.86	617,990.65	814,051.12	32.6957661	-103.4468332	1.47	0.00	0.00	0.00
3,825.41	10.35	77.52	3,810.00	16.34	201.32	617,991.64	814,055.58	32.6957687	-103.4468187	0.86	0.00	0.00	0.00
Seven Rivers													
3,900.00	10.35	77.52	3,883.37	19.24	214.40	617,994.54	814,068.66	32.6957763	-103.4467761	-0.91	0.00	0.00	0.00
4,000.00	10.35	77.52	3,981.75	23.12	231.93	617,998.42	814,086.19	32.6957866	-103.4467190	-3.28	0.00	0.00	0.00
4,100.00	10.35	77.52	4,080.12	27.00	249.46	618,002.30	814,103.72	32.6957969	-103.4466619	-5.66	0.00	0.00	0.00
4,200.00	10.35	77.52	4,178.50	30.88	267.00	618,006.18	814,121.26	32.6958071	-103.4466048	-8.03	0.00	0.00	0.00
4,300.00	10.35	77.52	4,276.87	34.76	284.53	618,010.06	814,138.79	32.6958174	-103.4465477	-10.40	0.00	0.00	0.00
4,400.00	10.35	77.52	4,375.24	38.64	302.06	618,013.94	814,156.32	32.6958277	-103.4464906	-12.78	0.00	0.00	0.00
4,500.00	10.35	77.52	4,473.62	42.53	319.60	618,017.83	814,173.86	32.6958379	-103.4464335	-15.15	0.00	0.00	0.00
4,597.97	10.35	77.52	4,570.00	46.33	336.78	618,021.63	814,191.04	32.6958480	-103.4463776	-17.48	0.00	0.00	0.00
Queen													
4,600.00	10.35	77.52	4,571.99	46.41	337.13	618,021.71	814,191.39	32.6958482	-103.4463765	-17.53	0.00	0.00	0.00
4,700.00	10.35	77.52	4,670.37	50.29	354.66	618,025.59	814,208.92	32.6958585	-103.4463194	-19.90	0.00	0.00	0.00
4,800.00	10.35	77.52	4,768.74	54.17	372.20	618,029.47	814,226.46	32.6958687	-103.4462623	-22.28	0.00	0.00	0.00
4,900.00	10.35	77.52	4,867.12	58.05	389.73	618,033.35	814,243.99	32.6958790	-103.4462052	-24.65	0.00	0.00	0.00
5,000.00	10.35	77.52	4,965.49	61.94	407.27	618,037.24	814,261.53	32.6958893	-103.4461481	-27.03	0.00	0.00	0.00
5,100.00	10.35	77.52	5,063.87	65.82	424.80	618,041.12	814,279.06	32.6958995	-103.4460910	-29.40	0.00	0.00	0.00
5,200.00	10.35	77.52	5,162.24	69.70	442.33	618,045.00	814,296.59	32.6959098	-103.4460339	-31.77	0.00	0.00	0.00
5,300.00	10.35	77.52	5,260.61	73.58	459.87	618,048.88	814,314.13	32.6959200	-103.4459768	-34.15	0.00	0.00	0.00
5,400.00	10.35	77.52	5,358.99	77.46	477.40	618,052.76	814,331.66	32.6959303	-103.4459197	-36.52	0.00	0.00	0.00
5,500.00	10.35	77.52	5,457.36	81.34	494.93	618,056.64	814,349.19	32.6959406	-103.4458626	-38.90	0.00	0.00	0.00
5,600.00	10.35	77.52	5,555.74	85.23	512.47	618,060.53	814,366.73	32.6959508	-103.4458055	-41.27	0.00	0.00	0.00
5,700.00	10.35	77.52	5,654.11	89.11	530.00	618,064.41	814,384.26	32.6959611	-103.4457484	-43.65	0.00	0.00	0.00
5,800.00	10.35	77.52	5,752.49	92.99	547.53	618,068.29	814,401.79	32.6959714	-103.4456913	-46.02	0.00	0.00	0.00
5,900.00	10.35	77.52	5,850.86	96.87	565.07	618,072.17	814,419.33	32.6959816	-103.4456342	-48.40	0.00	0.00	0.00
6,000.00	10.35	77.52	5,949.23	100.75	582.60	618,076.05	814,436.86	32.6959919	-103.4455771	-50.77	0.00	0.00	0.00
6,060.75	10.35	77.52	6,009.00	103.11	593.25	618,078.41	814,447.51	32.6959981	-103.4455424	-52.21	0.00	0.00	0.00
Cherry Canyon													
6,100.00	10.35	77.52	6,047.61	104.64	600.13	618,079.94	814,454.39	32.6960022	-103.4455200	-53.15	0.00	0.00	0.00



Total Directional Services, LLC

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Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,200.00	10.35	77.52	6,145.98	108.52	617.67	618,083.82	814,471.93	32.6960124	-103.4454629	-55.52	0.00	0.00	0.00
6,300.00	10.35	77.52	6,244.36	112.40	635.20	618,087.70	814,489.46	32.6960227	-103.4454058	-57.89	0.00	0.00	0.00
6,400.00	10.35	77.52	6,342.73	116.28	652.73	618,091.58	814,506.99	32.6960330	-103.4453487	-60.27	0.00	0.00	0.00
6,500.00	10.35	77.52	6,441.11	120.16	670.27	618,095.46	814,524.53	32.6960432	-103.4452916	-62.64	0.00	0.00	0.00
6,600.00	10.35	77.52	6,539.48	124.04	687.80	618,099.34	814,542.06	32.6960535	-103.4452346	-65.02	0.00	0.00	0.00
6,700.00	10.35	77.52	6,637.85	127.93	705.33	618,103.23	814,559.59	32.6960638	-103.4451775	-67.39	0.00	0.00	0.00
6,800.00	10.35	77.52	6,736.23	131.81	722.87	618,107.11	814,577.13	32.6960740	-103.4451204	-69.77	0.00	0.00	0.00
6,900.00	10.35	77.52	6,834.60	135.69	740.40	618,110.99	814,594.66	32.6960843	-103.4450633	-72.14	0.00	0.00	0.00
7,000.00	10.35	77.52	6,932.98	139.57	757.93	618,114.87	814,612.19	32.6960946	-103.4450062	-74.52	0.00	0.00	0.00
7,100.00	10.35	77.52	7,031.35	143.45	775.47	618,118.75	814,629.73	32.6961048	-103.4449491	-76.89	0.00	0.00	0.00
7,200.00	10.35	77.52	7,129.73	147.34	793.00	618,122.64	814,647.26	32.6961151	-103.4448920	-79.26	0.00	0.00	0.00
7,300.00	10.35	77.52	7,228.10	151.22	810.54	618,126.52	814,664.80	32.6961254	-103.4448349	-81.64	0.00	0.00	0.00
7,400.00	10.35	77.52	7,326.47	155.10	828.07	618,130.40	814,682.33	32.6961356	-103.4447778	-84.01	0.00	0.00	0.00
7,500.00	10.35	77.52	7,424.85	158.98	845.60	618,134.28	814,699.86	32.6961459	-103.4447207	-86.39	0.00	0.00	0.00
7,540.81	10.35	77.52	7,465.00	160.57	852.76	618,135.87	814,707.02	32.6961501	-103.4446974	-87.36	0.00	0.00	0.00
Bone Spring Lime													
7,600.00	10.35	77.52	7,523.22	162.86	863.14	618,138.16	814,717.40	32.6961562	-103.4446636	-88.76	0.00	0.00	0.00
7,700.00	10.35	77.52	7,621.60	166.75	880.67	618,142.05	814,734.93	32.6961664	-103.4446065	-91.14	0.00	0.00	0.00
7,800.00	10.35	77.52	7,719.97	170.63	898.20	618,145.93	814,752.46	32.6961767	-103.4445494	-93.51	0.00	0.00	0.00
7,900.00	10.35	77.52	7,818.35	174.51	915.74	618,149.81	814,770.00	32.6961869	-103.4444923	-95.89	0.00	0.00	0.00
8,000.00	10.35	77.52	7,916.72	178.39	933.27	618,153.69	814,787.53	32.6961972	-103.4444352	-98.26	0.00	0.00	0.00
8,100.00	10.35	77.52	8,015.10	182.27	950.80	618,157.57	814,805.06	32.6962075	-103.4443781	-100.64	0.00	0.00	0.00
8,200.00	10.35	77.52	8,113.47	186.15	968.34	618,161.45	814,822.60	32.6962177	-103.4443210	-103.01	0.00	0.00	0.00
8,300.00	10.35	77.52	8,211.84	190.04	985.87	618,165.34	814,840.13	32.6962280	-103.4442639	-105.38	0.00	0.00	0.00
8,400.00	10.35	77.52	8,310.22	193.92	1,003.40	618,169.22	814,857.66	32.6962383	-103.4442068	-107.76	0.00	0.00	0.00
8,500.00	10.35	77.52	8,408.59	197.80	1,020.94	618,173.10	814,875.20	32.6962485	-103.4441497	-110.13	0.00	0.00	0.00
8,600.00	10.35	77.52	8,506.97	201.68	1,038.47	618,176.98	814,892.73	32.6962588	-103.4440926	-112.51	0.00	0.00	0.00
8,700.00	10.35	77.52	8,605.34	205.56	1,056.00	618,180.86	814,910.26	32.6962691	-103.4440355	-114.88	0.00	0.00	0.00
8,800.00	10.35	77.52	8,703.72	209.45	1,073.54	618,184.75	814,927.80	32.6962793	-103.4439785	-117.26	0.00	0.00	0.00
8,900.00	10.35	77.52	8,802.09	213.33	1,091.07	618,188.63	814,945.33	32.6962896	-103.4439214	-119.63	0.00	0.00	0.00
9,009.79	10.35	77.52	8,910.10	217.59	1,110.32	618,192.89	814,964.58	32.6963009	-103.4438587	-122.24	0.00	0.00	0.00
Start Drop -1.50													
9,100.00	8.99	77.52	8,999.02	220.86	1,125.11	618,196.16	814,979.37	32.6963095	-103.4438105	-124.24	1.50	-1.50	0.00
9,136.40	8.45	77.52	9,035.00	222.06	1,130.50	618,197.36	814,984.76	32.6963127	-103.4437930	-124.97	1.50	-1.50	0.00
First Bone Spring Sand													
9,200.00	7.49	77.52	9,097.99	223.96	1,139.11	618,199.26	814,993.37	32.6963177	-103.4437649	-126.14	1.50	-1.50	0.00
9,300.00	5.99	77.52	9,197.29	226.50	1,150.57	618,201.80	815,004.83	32.6963244	-103.4437276	-127.69	1.50	-1.50	0.00
9,400.00	4.49	77.52	9,296.87	228.48	1,159.49	618,203.78	815,013.75	32.6963296	-103.4436985	-128.90	1.50	-1.50	0.00



Total Directional Services, LLC

Survey Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Eagle State Com 703H
Project:	Lea County, NM (NAD83)	TVD Reference:	3855' GL + 30' KB @ 3885.00usft
Site:	Sec 03-T19S-R35E	MD Reference:	3855' GL + 30' KB @ 3885.00usft
Well:	Eagle State Com 703H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,403.14	4.45	77.52	9,300.00	228.53	1,159.73	618,203.83	815,013.99	32.6963298	-103.4436978	-128.93	1.50	-1.50	0.00
Second Bone Spring Carbonates													
9,500.00	2.99	77.52	9,396.65	229.89	1,165.86	618,205.19	815,020.12	32.6963334	-103.4436778	-129.76	1.50	-1.50	0.00
9,568.41	1.97	77.52	9,465.00	230.53	1,168.75	618,205.83	815,023.01	32.6963351	-103.4436684	-130.15	1.50	-1.50	0.00
Second Bone Spring Sand													
9,600.00	1.49	77.52	9,496.57	230.73	1,169.68	618,206.03	815,023.94	32.6963356	-103.4436654	-130.28	1.50	-1.50	0.00
9,699.48	0.00	179.46	9,596.04	231.01	1,170.95	618,206.31	815,025.21	32.6963364	-103.4436612	-130.45	1.50	-1.50	0.00
Start 100.00 hold at 9699.48 MD													
9,799.48	0.00	0.00	9,696.04	231.01	1,170.95	618,206.31	815,025.21	32.6963364	-103.4436612	-130.45	0.00	0.00	0.00
Start Build 10.00													
9,850.00	5.05	179.46	9,746.50	228.79	1,170.97	618,204.09	815,025.23	32.6963302	-103.4436612	-128.23	10.00	10.00	0.00
9,900.00	10.05	179.46	9,796.05	222.22	1,171.03	618,197.52	815,025.29	32.6963122	-103.4436612	-121.68	10.00	10.00	0.00
9,950.00	15.05	179.46	9,844.84	211.35	1,171.13	618,186.65	815,025.39	32.6962823	-103.4436612	-110.85	10.00	10.00	0.00
10,000.00	20.05	179.46	9,892.50	196.28	1,171.28	618,171.58	815,025.54	32.6962409	-103.4436611	-95.82	10.00	10.00	0.00
10,000.54	20.11	179.46	9,893.00	196.10	1,171.28	618,171.40	815,025.54	32.6962404	-103.4436611	-95.63	10.00	10.00	0.00
Third Bone Spring Carbonates													
10,050.00	25.05	179.46	9,938.66	177.11	1,171.46	618,152.41	815,025.72	32.6961882	-103.4436611	-76.70	10.00	10.00	0.00
10,086.26	28.68	179.46	9,971.00	160.73	1,171.61	618,136.03	815,025.87	32.6961432	-103.4436610	-60.36	10.00	10.00	0.00
Third Bone Spring Sand													
10,100.00	30.05	179.46	9,982.97	153.99	1,171.67	618,129.29	815,025.93	32.6961247	-103.4436610	-53.65	10.00	10.00	0.00
10,150.00	35.05	179.46	10,025.10	127.10	1,171.93	618,102.40	815,026.19	32.6960507	-103.4436609	-26.83	10.00	10.00	0.00
10,200.00	40.05	179.46	10,064.73	96.64	1,172.22	618,071.94	815,026.48	32.6959670	-103.4436608	3.55	10.00	10.00	0.00
10,250.00	45.05	179.46	10,101.55	62.84	1,172.53	618,038.14	815,026.79	32.6958741	-103.4436607	37.25	10.00	10.00	0.00
10,288.78	48.93	179.46	10,128.00	34.48	1,172.80	618,009.78	815,027.06	32.6957962	-103.4436606	65.52	10.00	10.00	0.00
Wolfcamp													
10,300.00	50.05	179.46	10,135.29	25.95	1,172.88	618,001.25	815,027.14	32.6957727	-103.4436606	74.03	10.00	10.00	0.00
10,350.00	55.05	179.46	10,165.68	-13.73	1,173.26	617,961.57	815,027.52	32.6956637	-103.4436604	113.60	10.00	10.00	0.00
10,400.00	60.05	179.46	10,192.50	-55.91	1,173.65	617,919.39	815,027.91	32.6955477	-103.4436603	155.66	10.00	10.00	0.00
10,450.00	65.05	179.46	10,215.54	-100.26	1,174.07	617,875.04	815,028.33	32.6954258	-103.4436601	199.89	10.00	10.00	0.00
10,500.00	70.05	179.46	10,234.62	-146.46	1,174.51	617,828.84	815,028.77	32.6952989	-103.4436600	245.95	10.00	10.00	0.00
10,550.00	75.05	179.46	10,249.61	-194.14	1,174.96	617,781.16	815,029.22	32.6951678	-103.4436598	293.50	10.00	10.00	0.00
10,600.00	80.05	179.46	10,260.39	-242.95	1,175.42	617,732.35	815,029.68	32.6950336	-103.4436596	342.17	10.00	10.00	0.00
10,650.00	85.05	179.46	10,266.87	-292.51	1,175.88	617,682.79	815,030.14	32.6948974	-103.4436595	391.59	10.00	10.00	0.00
10,699.48	90.00	179.46	10,269.00	-341.92	1,176.35	617,633.38	815,030.61	32.6947616	-103.4436593	440.86	10.00	10.00	0.00
Start 9691.78 hold at 10699.48 MD - HZ Target													
10,800.00	90.00	179.46	10,269.00	-442.44	1,177.30	617,532.86	815,031.56	32.6944853	-103.4436590	541.09	0.00	0.00	0.00
10,900.00	90.00	179.46	10,269.00	-542.43	1,178.24	617,432.87	815,032.50	32.6942105	-103.4436586	640.81	0.00	0.00	0.00
11,000.00	90.00	179.46	10,269.00	-642.43	1,179.18	617,332.87	815,033.44	32.6939356	-103.4436583	740.52	0.00	0.00	0.00
11,100.00	90.00	179.46	10,269.00	-742.42	1,180.12	617,232.88	815,034.38	32.6936608	-103.4436580	840.23	0.00	0.00	0.00



Total Directional Services, LLC

Survey Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Eagle State Com 703H
Project:	Lea County, NM (NAD83)	TVD Reference:	3855' GL + 30' KB @ 3885.00usft
Site:	Sec 03-T19S-R35E	MD Reference:	3855' GL + 30' KB @ 3885.00usft
Well:	Eagle State Com 703H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,200.00	90.00	179.46	10,269.00	-842.42	1,181.07	617,132.88	815,035.33	32.6933859	-103.4436576	939.94	0.00	0.00	0.00
11,300.00	90.00	179.46	10,269.00	-942.42	1,182.01	617,032.89	815,036.27	32.6931111	-103.4436573	1,039.66	0.00	0.00	0.00
11,400.00	90.00	179.46	10,269.00	-1,042.41	1,182.95	616,932.89	815,037.21	32.6928362	-103.4436570	1,139.37	0.00	0.00	0.00
11,500.00	90.00	179.46	10,269.00	-1,142.41	1,183.89	616,832.89	815,038.15	32.6925614	-103.4436566	1,239.08	0.00	0.00	0.00
11,600.00	90.00	179.46	10,269.00	-1,242.40	1,184.84	616,732.90	815,039.10	32.6922866	-103.4436563	1,338.79	0.00	0.00	0.00
11,700.00	90.00	179.46	10,269.00	-1,342.40	1,185.78	616,632.90	815,040.04	32.6920117	-103.4436559	1,438.51	0.00	0.00	0.00
11,800.00	90.00	179.46	10,269.00	-1,442.39	1,186.72	616,532.91	815,040.98	32.6917369	-103.4436556	1,538.22	0.00	0.00	0.00
11,900.00	90.00	179.46	10,269.00	-1,542.39	1,187.66	616,432.91	815,041.92	32.6914620	-103.4436553	1,637.93	0.00	0.00	0.00
12,000.00	90.00	179.46	10,269.00	-1,642.38	1,188.61	616,332.92	815,042.87	32.6911872	-103.4436549	1,737.64	0.00	0.00	0.00
12,100.00	90.00	179.46	10,269.00	-1,742.38	1,189.55	616,232.92	815,043.81	32.6909123	-103.4436546	1,837.36	0.00	0.00	0.00
12,200.00	90.00	179.46	10,269.00	-1,842.38	1,190.49	616,132.92	815,044.75	32.6906375	-103.4436543	1,937.07	0.00	0.00	0.00
12,300.00	90.00	179.46	10,269.00	-1,942.37	1,191.43	616,032.93	815,045.69	32.6903626	-103.4436539	2,036.78	0.00	0.00	0.00
12,400.00	90.00	179.46	10,269.00	-2,042.37	1,192.38	615,932.93	815,046.64	32.6900878	-103.4436536	2,136.49	0.00	0.00	0.00
12,500.00	90.00	179.46	10,269.00	-2,142.36	1,193.32	615,832.94	815,047.58	32.6898129	-103.4436532	2,236.21	0.00	0.00	0.00
12,600.00	90.00	179.46	10,269.00	-2,242.36	1,194.26	615,732.94	815,048.52	32.6895381	-103.4436529	2,335.92	0.00	0.00	0.00
12,700.00	90.00	179.46	10,269.00	-2,342.35	1,195.20	615,632.95	815,049.46	32.6892632	-103.4436526	2,435.63	0.00	0.00	0.00
12,800.00	90.00	179.46	10,269.00	-2,442.35	1,196.15	615,532.95	815,050.41	32.6889884	-103.4436522	2,535.34	0.00	0.00	0.00
12,900.00	90.00	179.46	10,269.00	-2,542.34	1,197.09	615,432.96	815,051.35	32.6887135	-103.4436519	2,635.06	0.00	0.00	0.00
13,000.00	90.00	179.46	10,269.00	-2,642.34	1,198.03	615,332.96	815,052.29	32.6884387	-103.4436516	2,734.77	0.00	0.00	0.00
13,100.00	90.00	179.46	10,269.00	-2,742.34	1,198.97	615,232.96	815,053.23	32.6881639	-103.4436512	2,834.48	0.00	0.00	0.00
13,200.00	90.00	179.46	10,269.00	-2,842.33	1,199.92	615,132.97	815,054.17	32.6878890	-103.4436509	2,934.19	0.00	0.00	0.00
13,300.00	90.00	179.46	10,269.00	-2,942.33	1,200.86	615,032.97	815,055.12	32.6876142	-103.4436505	3,033.91	0.00	0.00	0.00
13,400.00	90.00	179.46	10,269.00	-3,042.32	1,201.80	614,932.98	815,056.06	32.6873393	-103.4436502	3,133.62	0.00	0.00	0.00
13,500.00	90.00	179.46	10,269.00	-3,142.32	1,202.74	614,832.98	815,057.00	32.6870645	-103.4436499	3,233.33	0.00	0.00	0.00
13,600.00	90.00	179.46	10,269.00	-3,242.31	1,203.68	614,732.99	815,057.94	32.6867896	-103.4436495	3,333.04	0.00	0.00	0.00
13,700.00	90.00	179.46	10,269.00	-3,342.31	1,204.63	614,632.99	815,058.89	32.6865148	-103.4436492	3,432.76	0.00	0.00	0.00
13,800.00	90.00	179.46	10,269.00	-3,442.30	1,205.57	614,533.00	815,059.83	32.6862399	-103.4436489	3,532.47	0.00	0.00	0.00
13,900.00	90.00	179.46	10,269.00	-3,542.30	1,206.51	614,433.00	815,060.77	32.6859651	-103.4436485	3,632.18	0.00	0.00	0.00
14,000.00	90.00	179.46	10,269.00	-3,642.30	1,207.45	614,333.00	815,061.71	32.6856902	-103.4436482	3,731.89	0.00	0.00	0.00
14,100.00	90.00	179.46	10,269.00	-3,742.29	1,208.40	614,233.01	815,062.66	32.6854154	-103.4436478	3,831.61	0.00	0.00	0.00
14,200.00	90.00	179.46	10,269.00	-3,842.29	1,209.34	614,133.01	815,063.60	32.6851405	-103.4436475	3,931.32	0.00	0.00	0.00
14,300.00	90.00	179.46	10,269.00	-3,942.28	1,210.28	614,033.02	815,064.54	32.6848657	-103.4436472	4,031.03	0.00	0.00	0.00
14,400.00	90.00	179.46	10,269.00	-4,042.28	1,211.22	613,933.02	815,065.48	32.6845908	-103.4436468	4,130.75	0.00	0.00	0.00
14,500.00	90.00	179.46	10,269.00	-4,142.27	1,212.17	613,833.03	815,066.43	32.6843160	-103.4436465	4,230.46	0.00	0.00	0.00
14,600.00	90.00	179.46	10,269.00	-4,242.27	1,213.11	613,733.03	815,067.37	32.6840412	-103.4436462	4,330.17	0.00	0.00	0.00
14,700.00	90.00	179.46	10,269.00	-4,342.26	1,214.05	613,633.04	815,068.31	32.6837663	-103.4436458	4,429.88	0.00	0.00	0.00
14,800.00	90.00	179.46	10,269.00	-4,442.26	1,214.99	613,533.04	815,069.25	32.6834915	-103.4436455	4,529.60	0.00	0.00	0.00
14,900.00	90.00	179.46	10,269.00	-4,542.26	1,215.94	613,433.04	815,070.20	32.6832166	-103.4436451	4,629.31	0.00	0.00	0.00



Total Directional Services, LLC

Survey Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Eagle State Com 703H
Project:	Lea County, NM (NAD83)	TVD Reference:	3855' GL + 30' KB @ 3885.00usft
Site:	Sec 03-T19S-R35E	MD Reference:	3855' GL + 30' KB @ 3885.00usft
Well:	Eagle State Com 703H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,000.00	90.00	179.46	10,269.00	-4,642.25	1,216.88	613,333.05	815,071.14	32.6829418	-103.4436448	4,729.02	0.00	0.00	0.00
15,100.00	90.00	179.46	10,269.00	-4,742.25	1,217.82	613,233.05	815,072.08	32.6826669	-103.4436445	4,828.73	0.00	0.00	0.00
15,200.00	90.00	179.46	10,269.00	-4,842.24	1,218.76	613,133.06	815,073.02	32.6823921	-103.4436441	4,928.45	0.00	0.00	0.00
15,300.00	90.00	179.46	10,269.00	-4,942.24	1,219.71	613,033.06	815,073.97	32.6821172	-103.4436438	5,028.16	0.00	0.00	0.00
15,400.00	90.00	179.46	10,269.00	-5,042.23	1,220.65	612,933.07	815,074.91	32.6818424	-103.4436435	5,127.87	0.00	0.00	0.00
15,500.00	90.00	179.46	10,269.00	-5,142.23	1,221.59	612,833.07	815,075.85	32.6815675	-103.4436431	5,227.58	0.00	0.00	0.00
15,600.00	90.00	179.46	10,269.00	-5,242.22	1,222.53	612,733.08	815,076.79	32.6812927	-103.4436428	5,327.30	0.00	0.00	0.00
15,700.00	90.00	179.46	10,269.00	-5,342.22	1,223.48	612,633.08	815,077.74	32.6810178	-103.4436424	5,427.01	0.00	0.00	0.00
15,800.00	90.00	179.46	10,269.00	-5,442.22	1,224.42	612,533.08	815,078.68	32.6807430	-103.4436421	5,526.72	0.00	0.00	0.00
15,900.00	90.00	179.46	10,269.00	-5,542.21	1,225.36	612,433.09	815,079.62	32.6804681	-103.4436418	5,626.43	0.00	0.00	0.00
16,000.00	90.00	179.46	10,269.00	-5,642.21	1,226.30	612,333.09	815,080.56	32.6801933	-103.4436414	5,726.15	0.00	0.00	0.00
16,100.00	90.00	179.46	10,269.00	-5,742.20	1,227.25	612,233.10	815,081.51	32.6799184	-103.4436411	5,825.86	0.00	0.00	0.00
16,200.00	90.00	179.46	10,269.00	-5,842.20	1,228.19	612,133.10	815,082.45	32.6796436	-103.4436407	5,925.57	0.00	0.00	0.00
16,300.00	90.00	179.46	10,269.00	-5,942.19	1,229.13	612,033.11	815,083.39	32.6793688	-103.4436404	6,025.28	0.00	0.00	0.00
16,400.00	90.00	179.46	10,269.00	-6,042.19	1,230.07	611,933.11	815,084.33	32.6790939	-103.4436401	6,125.00	0.00	0.00	0.00
16,500.00	90.00	179.46	10,269.00	-6,142.18	1,231.02	611,833.12	815,085.28	32.6788191	-103.4436397	6,224.71	0.00	0.00	0.00
16,600.00	90.00	179.46	10,269.00	-6,242.18	1,231.96	611,733.12	815,086.22	32.6785442	-103.4436394	6,324.42	0.00	0.00	0.00
16,700.00	90.00	179.46	10,269.00	-6,342.18	1,232.90	611,633.12	815,087.16	32.6782694	-103.4436391	6,424.13	0.00	0.00	0.00
16,800.00	90.00	179.46	10,269.00	-6,442.17	1,233.84	611,533.13	815,088.10	32.6779945	-103.4436387	6,523.85	0.00	0.00	0.00
16,900.00	90.00	179.46	10,269.00	-6,542.17	1,234.79	611,433.13	815,089.05	32.6777197	-103.4436384	6,623.56	0.00	0.00	0.00
17,000.00	90.00	179.46	10,269.00	-6,642.16	1,235.73	611,333.14	815,089.99	32.6774448	-103.4436380	6,723.27	0.00	0.00	0.00
17,100.00	90.00	179.46	10,269.00	-6,742.16	1,236.67	611,233.14	815,090.93	32.6771700	-103.4436377	6,822.98	0.00	0.00	0.00
17,200.00	90.00	179.46	10,269.00	-6,842.15	1,237.61	611,133.15	815,091.87	32.6768951	-103.4436374	6,922.70	0.00	0.00	0.00
17,300.00	90.00	179.46	10,269.00	-6,942.15	1,238.56	611,033.15	815,092.82	32.6766203	-103.4436370	7,022.41	0.00	0.00	0.00
17,400.00	90.00	179.46	10,269.00	-7,042.14	1,239.50	610,933.16	815,093.76	32.6763454	-103.4436367	7,122.12	0.00	0.00	0.00
17,500.00	90.00	179.46	10,269.00	-7,142.14	1,240.44	610,833.16	815,094.70	32.6760706	-103.4436364	7,221.83	0.00	0.00	0.00
17,600.00	90.00	179.46	10,269.00	-7,242.14	1,241.38	610,733.16	815,095.64	32.6757957	-103.4436360	7,321.55	0.00	0.00	0.00
17,700.00	90.00	179.46	10,269.00	-7,342.13	1,242.33	610,633.17	815,096.59	32.6755209	-103.4436357	7,421.26	0.00	0.00	0.00
17,800.00	90.00	179.46	10,269.00	-7,442.13	1,243.27	610,533.17	815,097.53	32.6752460	-103.4436353	7,520.97	0.00	0.00	0.00
17,900.00	90.00	179.46	10,269.00	-7,542.12	1,244.21	610,433.18	815,098.47	32.6749712	-103.4436350	7,620.68	0.00	0.00	0.00
18,000.00	90.00	179.46	10,269.00	-7,642.12	1,245.15	610,333.18	815,099.41	32.6746964	-103.4436347	7,720.40	0.00	0.00	0.00
18,100.00	90.00	179.46	10,269.00	-7,742.11	1,246.10	610,233.19	815,100.36	32.6744215	-103.4436343	7,820.11	0.00	0.00	0.00
18,200.00	90.00	179.46	10,269.00	-7,842.11	1,247.04	610,133.19	815,101.30	32.6741467	-103.4436340	7,919.82	0.00	0.00	0.00
18,300.00	90.00	179.46	10,269.00	-7,942.10	1,247.98	610,033.20	815,102.24	32.6738718	-103.4436336	8,019.53	0.00	0.00	0.00
18,400.00	90.00	179.46	10,269.00	-8,042.10	1,248.92	609,933.20	815,103.18	32.6735970	-103.4436333	8,119.25	0.00	0.00	0.00
18,500.00	90.00	179.46	10,269.00	-8,142.10	1,249.87	609,833.20	815,104.13	32.6733221	-103.4436330	8,218.96	0.00	0.00	0.00
18,600.00	90.00	179.46	10,269.00	-8,242.09	1,250.81	609,733.21	815,105.07	32.6730473	-103.4436326	8,318.67	0.00	0.00	0.00



Total Directional Services, LLC

Survey Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Eagle State Com 703H
Project:	Lea County, NM (NAD83)	TVD Reference:	3855' GL + 30' KB @ 3885.00usft
Site:	Sec 03-T19S-R35E	MD Reference:	3855' GL + 30' KB @ 3885.00usft
Well:	Eagle State Com 703H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,700.00	90.00	179.46	10,269.00	-8,342.09	1,251.75	609,633.21	815,106.01	32.6727724	-103.4436323	8,418.38	0.00	0.00	0.00
18,800.00	90.00	179.46	10,269.00	-8,442.08	1,252.69	609,533.22	815,106.95	32.6724976	-103.4436320	8,518.10	0.00	0.00	0.00
18,900.00	90.00	179.46	10,269.00	-8,542.08	1,253.64	609,433.22	815,107.90	32.6722227	-103.4436316	8,617.81	0.00	0.00	0.00
19,000.00	90.00	179.46	10,269.00	-8,642.07	1,254.58	609,333.23	815,108.84	32.6719479	-103.4436313	8,717.52	0.00	0.00	0.00
19,100.00	90.00	179.46	10,269.00	-8,742.07	1,255.52	609,233.23	815,109.78	32.6716730	-103.4436309	8,817.23	0.00	0.00	0.00
19,200.00	90.00	179.46	10,269.00	-8,842.06	1,256.46	609,133.24	815,110.72	32.6713982	-103.4436306	8,916.95	0.00	0.00	0.00
19,300.00	90.00	179.46	10,269.00	-8,942.06	1,257.41	609,033.24	815,111.67	32.6711233	-103.4436303	9,016.66	0.00	0.00	0.00
19,400.00	90.00	179.46	10,269.00	-9,042.06	1,258.35	608,933.24	815,112.61	32.6708485	-103.4436299	9,116.37	0.00	0.00	0.00
19,500.00	90.00	179.46	10,269.00	-9,142.05	1,259.29	608,833.25	815,113.55	32.6705736	-103.4436296	9,216.08	0.00	0.00	0.00
19,600.00	90.00	179.46	10,269.00	-9,242.05	1,260.23	608,733.25	815,114.49	32.6702988	-103.4436292	9,315.80	0.00	0.00	0.00
19,700.00	90.00	179.46	10,269.00	-9,342.04	1,261.18	608,633.26	815,115.44	32.6700239	-103.4436289	9,415.51	0.00	0.00	0.00
19,800.00	90.00	179.46	10,269.00	-9,442.04	1,262.12	608,533.26	815,116.38	32.6697491	-103.4436286	9,515.22	0.00	0.00	0.00
19,900.00	90.00	179.46	10,269.00	-9,542.03	1,263.06	608,433.27	815,117.32	32.6694743	-103.4436282	9,614.93	0.00	0.00	0.00
20,000.00	90.00	179.46	10,269.00	-9,642.03	1,264.00	608,333.27	815,118.26	32.6691994	-103.4436279	9,714.65	0.00	0.00	0.00
20,100.00	90.00	179.46	10,269.00	-9,742.02	1,264.95	608,233.28	815,119.20	32.6689246	-103.4436276	9,814.36	0.00	0.00	0.00
20,200.00	90.00	179.46	10,269.00	-9,842.02	1,265.89	608,133.28	815,120.15	32.6686497	-103.4436272	9,914.07	0.00	0.00	0.00
20,300.00	90.00	179.46	10,269.00	-9,942.02	1,266.83	608,033.28	815,121.09	32.6683749	-103.4436269	10,013.78	0.00	0.00	0.00
20,391.26	90.00	179.46	10,269.00	-10,033.27	1,267.69	607,942.03	815,121.95	32.6681240	-103.4436266	10,104.78	0.00	0.00	0.00
TD at 20391.26													

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
KOP (ESC 703H) - plan misses target center by 427.31usft at 9799.48usft MD (9696.04 TVD, 231.01 N, 1170.95 E) - Point	0.00	359.52	9,696.04	228.80	743.64	618,204.10	814,597.90	32.6963401	-103.4450502
FTP (ESC 703H) - plan misses target center by 409.32usft at 10330.47usft MD (10154.23 TVD, 2.08 N, 1173.11 E) - Point	0.00	0.00	10,154.99	-1.19	763.80	617,974.12	814,618.06	32.6957076	-103.4449909
PBHL (ESC 703H) - plan hits target center - Point	0.00	359.52	10,269.00	-10,033.27	1,267.69	607,942.03	815,121.95	32.6681240	-103.4436266



Total Directional Services, LLC

Survey Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Eagle State Com 703H
Project:	Lea County, NM (NAD83)	TVD Reference:	3855' GL + 30' KB @ 3885.00usft
Site:	Sec 03-T19S-R35E	MD Reference:	3855' GL + 30' KB @ 3885.00usft
Well:	Eagle State Com 703H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	EDM 5000.1 Single User Db

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
30.00	30.00	Cenozoic Alluvium (surface)			
1,809.00	1,809.00	Rustler			
2,044.00	2,044.00	Salado			
2,964.19	2,962.00	Base Salt			
3,370.01	3,362.00	Yates			
3,825.41	3,810.00	Seven Rivers			
4,597.97	4,570.00	Queen			
6,060.75	6,009.00	Cherry Canyon			
7,540.81	7,465.00	Bone Spring Lime			
9,136.40	9,035.00	First Bone Spring Sand			
9,403.14	9,300.00	Second Bone Spring Carbonates			
9,568.41	9,465.00	Second Bone Spring Sand			
10,000.54	9,893.00	Third Bone Spring Carbonates			
10,086.26	9,971.00	Third Bone Spring Sand			
10,288.78	10,128.00	Wolfcamp			
10,699.48	10,269.00	HZ Target			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2000	2000	0	0	Start Build 1.50
2200	2200	-3	5	Start 400.00 hold at 2200.00 MD
2600	2599	-13	23	Start DLS 1.50 TFO -56.34
3159	3154	-10	84	Start 5851.20 hold at 3158.59 MD
9010	8910	218	1110	Start Drop -1.50
9699	9596	231	1171	Start 100.00 hold at 9699.48 MD
9799	9696	231	1171	Start Build 10.00
10,699	10,269	-342	1176	Start 9691.78 hold at 10699.48 MD
20,391	10,269	-10,033	1268	TD at 20391.26

Checked By: _____ Approved By: _____ Date: _____

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 211836

CONDITIONS

Operator: Franklin Mountain Energy 3, LLC 44 Cook Street Denver, CO 80206	OGRID: 331595
	Action Number: 211836
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	5/1/2023