

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

Form C-101
August 1, 2011

Permit 342862

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address Franklin Mountain Energy 3, LLC 44 Cook Street Denver, CO 80206		2. OGRID Number 331595
		3. API Number 30-025-51667
4. Property Code 334169	5. Property Name GOLD STATE COM	6. Well No. 601H

7. Surface Location

UL - Lot D	Section 35	Township 18S	Range 34E	Lot Idn D	Feet From 1025	N/S Line N	Feet From 850	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot L	Section 23	Township 18S	Range 34E	Lot Idn L	Feet From 2510	N/S Line S	Feet From 360	E/W Line W	County Lea
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9. Pool Information

AIRSTRIPEBONE SPRING	960
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3990
16. Multiple N	17. Proposed Depth 19349	18. Formation 3rd Bone Spring Sand	19. Contractor	20. Spud Date 8/1/2023
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1900	1457	0
Int1	12.25	9.625	40	4000	841	0
Prod	8.75	7	32	9900	484	3000
Prod	8.75	5.5	20	19349	2359	9900

Casing/Cement Program: Additional Comments

Please see attached 14 point plan for additional information.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	10000	5000	Cactus

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by Rachael A Overbey	Approved By: Paul F Kautz	
Title: Project Manager	Title: Geologist	
Email Address: roverbey@fmlc.com	Approved Date: 6/28/2023	Expiration Date: 6/28/2025
Date: 6/21/2023	Phone: 303-570-4057	Conditions of Approval Attached

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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		² Pool Code 960	³ Pool Name AIRSTRIP; BONESPRING	
⁴ Property Code	⁵ Property Name GOLD STATE COM			⁶ Well Number 601H
⁷ OGRID No. 331595	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY 3, LLC			⁹ Elevation 3990.2'

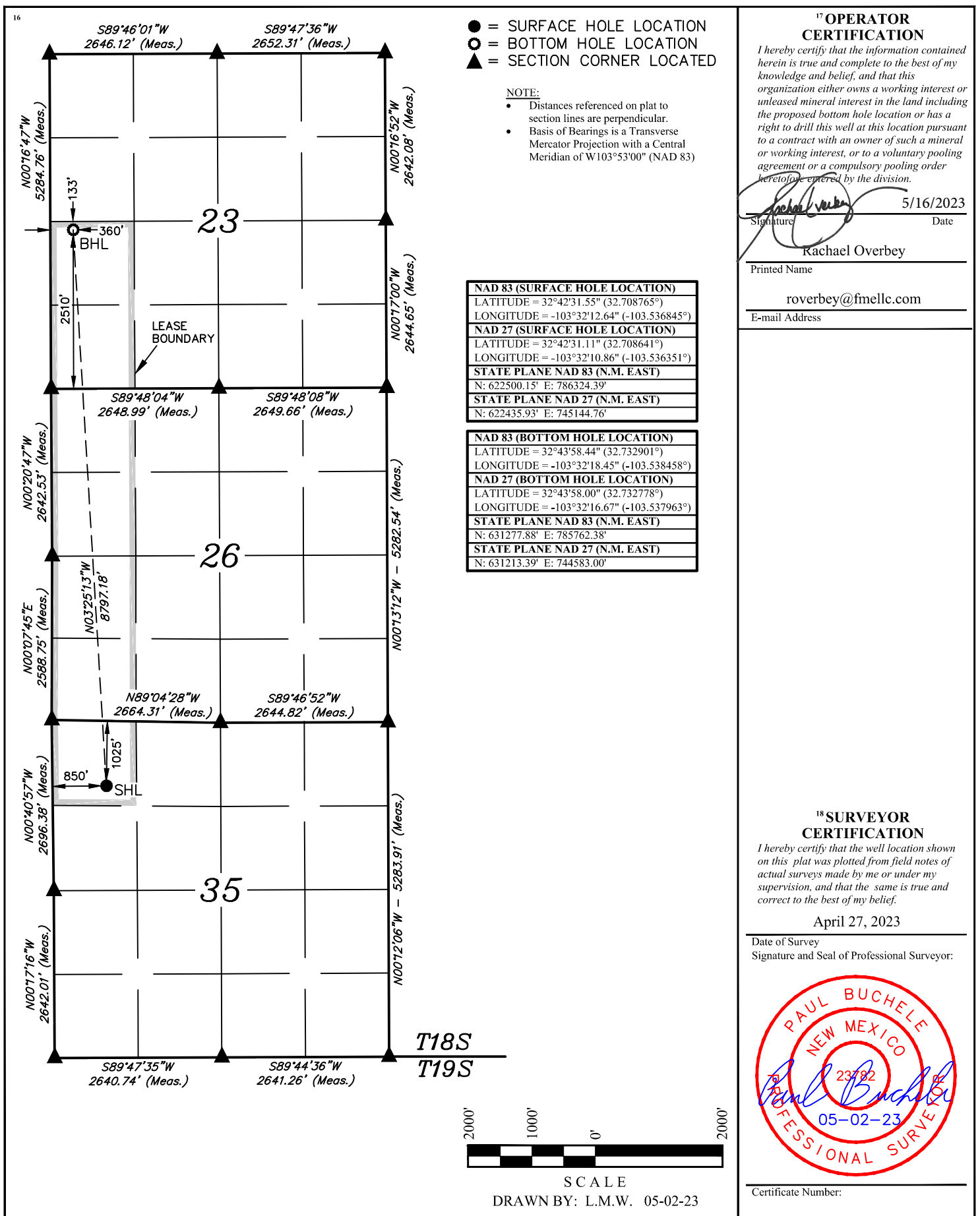
¹⁰Surface Location

UL or lot no. D	Section 35	Township 18S	Range 34E	Lot Idn	Feet from the 1025	North/South line NORTH	Feet from the 850	East/West line WEST	County LEA
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"Bottom Hole Location If Different From Surface

UL or lot no. L	Section 23	Township 18S	Range 34E	Lot Idn	Feet from the 2510	North/South line SOUTH	Feet from the 360	East/West line WEST	County LEA
¹² Dedicated Acres 280		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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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Conditions

Permit 342862

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: Franklin Mountain Energy 3, LLC [331595] 44 Cook Street Denver, CO 80206	API Number: 30-025-51667
	Well: GOLD STATE COM #601H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud



Gold State Com 601H

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

Formations	PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
Cenozoic Alluvium (surface)	3,990'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2,136'	1,884'			Carbonates
Salado	1,907'	2,113'			Salt, Carbonate & Clastics
Base Salt	773'	3,247'			Shaley Carbonate & Shale
Yates	499'	3,521'			Carbonate & Clastics
Seven Rivers	169'	3,851'			Sandstone - oil/gas/water
Queen	-628'	4,648'			Sandstone - oil/gas/water
Delaware Mtn Group	-2,889'	6,909'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-3,835'	7,855'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-5,127'	9,147'			Shale/Carbonates - oil/gas
Second Bone Spring Carbonates	-5,295'	9,315'			Chert/Carbonate
Second Bone Spring Sand	-5,478'	9,498'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-6,289'	10,309'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-6,390'	10,410'			Sandstone - oil/gas/water
HZ Target	-6,503'	10,523'			Sandstone - oil/gas/water
Wolfcamp	-6,603'	10,623'			Overpressure shale/sand- Oil/Gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	6,909'	Oil
1 st Bone Spring Sand	9,147'	Oil
2 nd Bone Spring Sand	9,498'	Oil
3 rd Bone Sand	10,410'	Oil
Wolfcamp	10,623'	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" 0-9,900'	32	HCP-110	12460	10760	1025	CDC-HTQ 1053	9900	2.02	2.32	2.46	2.53
Production 5 1/2" 9,900'-19,349'	20	HCP-110	12640	12200	641	CDC-HTQ 667 TVD	9449 10523	1.15	2.76	2.22	2.31 2.15

Tapered production string will be ran with a X-over installed at the KOP of 9,900'.



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 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	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%CaCl ₂ , 0.1%	1.34	6.35	1500	100%
Int	12.25	9.625	4000	640	Lead, 11.3 ppg, HSLD 82 10% Gel, 4%STE, 2#/sk, Gyp Seal	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	0-9900	484	HSLD 9420, 10.5 ppg, Class C, 1#/sk Salt, 4% STE 1% C-45	3.99	25.51	3000						100%
Prod	8.75	5.5	9900-19349						2359	HSLD 80, 13.ppg , 32#/sk Salt, 4% STE, 1#/sk Gyp Seal	1.52	7.59	9900	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' – 19349' 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 kept 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 10,523' TVD (deepest point of the well) is 160F with an estimated maximum bottom-hole pressure (BHP) at the same point of 6,566 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 1/2" production casing due to the tight clearance with 8 3/4" hole.



Franklin Mountain Energy

Lea Co., NM (NAD-83)
Gold Rush Pad
Gold State Com 601H

OH

Plan: Plan 1

Standard Planning Report

25 May, 2023





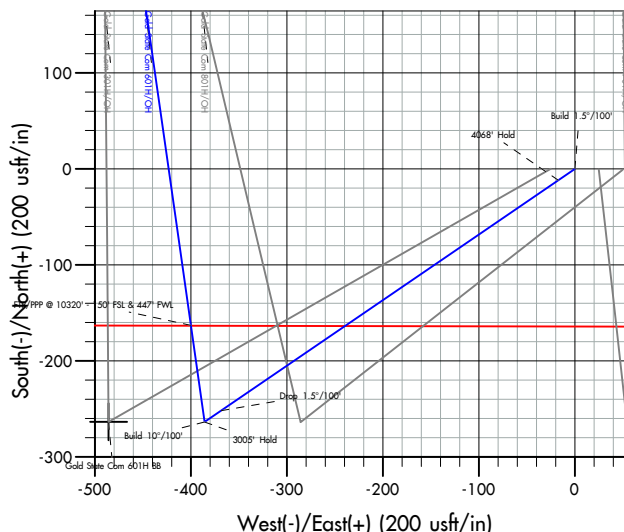
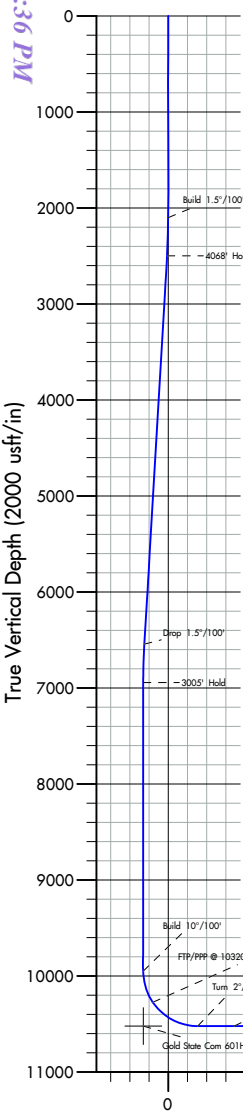
Project: Lea Co., NM (NAD-83)
 Site: Gold Rush Pad
 Well: Gold State Com 601H
 Wellbore: OH
 Design: Plan 1
 Lat: 32.708765
 Long: -103.536845
 GL: 3990.00
 KB: KB=30 @ 4020.00usft



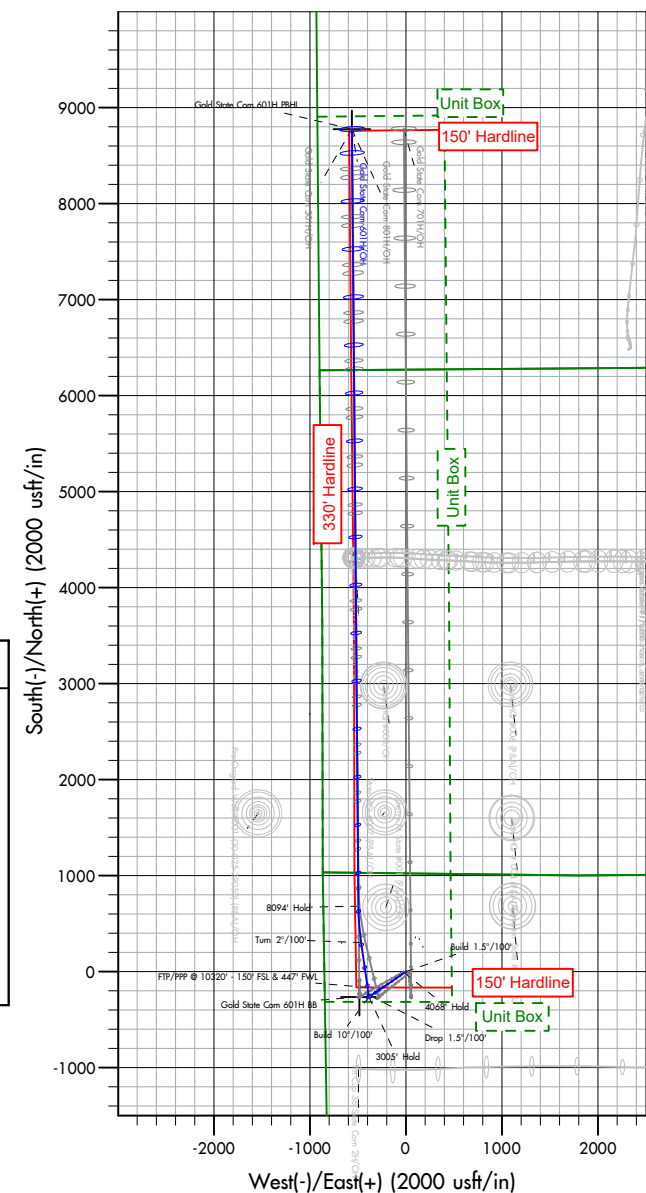
WELL DETAILS: Gold State Com 601H						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	622500.15	786324.39	32.708765	-103.536845	

WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Gold State Com 601H BB	10523.00	-263.24	-485.66	622236.91	785838.73	Point
Gold State Com 601H PBHL	10523.00	8777.73	-562.01	631277.88	785762.38	Point

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	Build 1.5°/100'
2499.90	6.00	235.67	2499.17	-11.80	-17.27	1.50	235.67	-11.65	4068' Hold
6568.84	6.00	235.67	6545.83	-251.63	-368.39	0.00	0.00	-248.53	Drop 1.5°/100'
6968.74	0.00	0.00	6945.00	-263.42	-385.66	1.50	180.00	-260.18	3005' Hold
9973.78	0.00	0.00	9950.04	-263.42	-385.66	0.00	0.00	-260.18	Build 10°/100'
10873.78	90.00	351.90	10523.00	303.82	-466.39	10.00	351.90	307.72	Turn 2°/100'
11255.02	90.00	359.52	10523.00	683.71	-494.87	2.00	90.00	687.83	8094' Hold
19249.32	90.00	359.52	10523.00	8777.73	-562.01	0.00	0.00	8782.13	TD at 19249.32



FORMATION TOPS		
TVDPath	MDPath	Formation
30.00	30.00	Cenozoic Alluvium (surface)
1884.00	1884.00	Rustler
2113.00	2113.00	Salado
3247.00	3251.85	Base Salt
3521.00	3527.36	Yates
3851.00	3859.17	Seven Rivers
4648.00	4660.56	Queen
6909.00	6932.74	Delaware Mtn Group
7855.00	7878.74	Bone Spring Lime
9147.00	9170.74	First Bone Spring Sand
9315.00	9338.74	Second Bone Spring Carbonates
9498.00	9521.74	Second Bone Spring Sand
10309.00	10361.71	Third Bone Spring Carbonates
10410.00	10507.74	Third Bone Spring Sand
10523.00	10873.78	HZ Target



Azimuths to Grid North
 True North: -0.43°
 Magnetic North: 5.77°

Magnetic Field
 Strength: 47665.3nT
 Dip Angle: 60.52°
 Date: 5/24/2023
 Model: HRGM

Vertical Section at 359.52° (2000 usft/in)



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Gold State Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30 @ 4020.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30 @ 4020.00usft
Site:	Gold Rush Pad	North Reference:	Grid
Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

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

Site		Gold Rush Pad			
Site Position: From: Position Uncertainty:	Map	Northing:	622,500.45 usft	Latitude:	32.708766
		Easting:	786,299.39 usft	Longitude:	-103.536927
		Slot Radius:	13-3/16 "		

Well	Gold State Com 601H					
Well Position	+N/-S	0.00 usft	Northing:	622,500.15 usft	Latitude:	32.708765
	+E/-W	0.00 usft	Easting:	786,324.39 usft	Longitude:	-103.536846
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,990.00 usft
Grid Convergence:		0.43 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	5/24/2023	6.20	60.52	47,665.33073814

Design	Plan 1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.52

Plan Survey Tool Program	Date	5/25/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	19,349.14 Plan 1 (OH)	MWD+HDGM		
			OWSG MWD + HRGM		



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Gold State Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30 @ 4020.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30 @ 4020.00usft
Site:	Gold Rush Pad	North Reference:	Grid
Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,499.90	6.00	235.67	2,499.17	-11.80	-17.27	1.50	1.50	0.00	235.67	
6,568.84	6.00	235.67	6,545.83	-251.63	-368.39	0.00	0.00	0.00	0.00	
6,968.74	0.00	0.00	6,945.00	-263.42	-385.66	1.50	-1.50	0.00	180.00	
9,973.78	0.00	0.00	9,950.04	-263.42	-385.66	0.00	0.00	0.00	0.00	
10,873.78	90.00	351.90	10,523.00	303.82	-466.39	10.00	10.00	0.00	351.90	
11,255.02	90.00	359.52	10,523.00	683.71	-494.87	2.00	0.00	2.00	90.00	
19,349.32	90.00	359.52	10,523.00	8,777.73	-562.01	0.00	0.00	0.00	0.00	Gold State Com 60



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Gold State Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30 @ 4020.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30 @ 4020.00usft
Site:	Gold Rush Pad	North Reference:	Grid
Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00
Cenozoic Alluvium (surface)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,884.00	0.00	0.00	1,884.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 1.5°/100'									
2,113.00	0.20	235.67	2,113.00	-0.01	-0.02	-0.01	1.50	1.50	0.00
Salado									
2,200.00	1.50	235.67	2,199.99	-0.74	-1.08	-0.73	1.50	1.50	0.00
2,300.00	3.00	235.67	2,299.91	-2.95	-4.32	-2.92	1.50	1.50	0.00
2,400.00	4.50	235.67	2,399.69	-6.64	-9.72	-6.56	1.50	1.50	0.00
2,499.90	6.00	235.67	2,499.17	-11.80	-17.27	-11.65	1.50	1.50	0.00
4068' Hold									
2,600.00	6.00	235.67	2,598.72	-17.70	-25.91	-17.48	0.00	0.00	0.00
2,700.00	6.00	235.67	2,698.17	-23.59	-34.54	-23.30	0.00	0.00	0.00
2,800.00	6.00	235.67	2,797.63	-29.48	-43.17	-29.12	0.00	0.00	0.00
2,900.00	6.00	235.67	2,897.08	-35.38	-51.80	-34.94	0.00	0.00	0.00
3,000.00	6.00	235.67	2,996.53	-41.27	-60.43	-40.77	0.00	0.00	0.00
3,100.00	6.00	235.67	3,095.98	-47.17	-69.05	-46.59	0.00	0.00	0.00
3,200.00	6.00	235.67	3,195.44	-53.06	-77.68	-52.41	0.00	0.00	0.00
3,251.85	6.00	235.67	3,247.00	-56.12	-82.16	-55.43	0.00	0.00	0.00
Base Salt									
3,300.00	6.00	235.67	3,294.89	-58.96	-86.31	-58.23	0.00	0.00	0.00
3,400.00	6.00	235.67	3,394.34	-64.85	-94.94	-64.05	0.00	0.00	0.00
3,500.00	6.00	235.67	3,493.79	-70.74	-103.57	-69.87	0.00	0.00	0.00
3,527.36	6.00	235.67	3,521.00	-72.36	-105.93	-71.47	0.00	0.00	0.00
Yates									
3,600.00	6.00	235.67	3,593.25	-76.64	-112.20	-75.70	0.00	0.00	0.00
3,700.00	6.00	235.67	3,692.70	-82.53	-120.83	-81.52	0.00	0.00	0.00
3,800.00	6.00	235.67	3,792.15	-88.43	-129.46	-87.34	0.00	0.00	0.00
3,859.17	6.00	235.67	3,851.00	-91.91	-134.57	-90.78	0.00	0.00	0.00
Seven Rivers									



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Gold State Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30 @ 4020.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30 @ 4020.00usft
Site:	Gold Rush Pad	North Reference:	Grid
Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

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)
3,900.00	6.00	235.67	3,891.60	-94.32	-138.09	-93.16	0.00	0.00	0.00
4,000.00	6.00	235.67	3,991.06	-100.21	-146.72	-98.98	0.00	0.00	0.00
4,100.00	6.00	235.67	4,090.51	-106.11	-155.35	-104.80	0.00	0.00	0.00
4,200.00	6.00	235.67	4,189.96	-112.00	-163.98	-110.63	0.00	0.00	0.00
4,300.00	6.00	235.67	4,289.41	-117.90	-172.61	-116.45	0.00	0.00	0.00
4,400.00	6.00	235.67	4,388.87	-123.79	-181.24	-122.27	0.00	0.00	0.00
4,500.00	6.00	235.67	4,488.32	-129.69	-189.86	-128.09	0.00	0.00	0.00
4,600.00	6.00	235.67	4,587.77	-135.58	-198.49	-133.91	0.00	0.00	0.00
4,660.56	6.00	235.67	4,648.00	-139.15	-203.72	-137.44	0.00	0.00	0.00
Queen									
4,700.00	6.00	235.67	4,687.22	-141.47	-207.12	-139.73	0.00	0.00	0.00
4,800.00	6.00	235.67	4,786.68	-147.37	-215.75	-145.56	0.00	0.00	0.00
4,900.00	6.00	235.67	4,886.13	-153.26	-224.38	-151.38	0.00	0.00	0.00
5,000.00	6.00	235.67	4,985.58	-159.16	-233.01	-157.20	0.00	0.00	0.00
5,100.00	6.00	235.67	5,085.03	-165.05	-241.64	-163.02	0.00	0.00	0.00
5,200.00	6.00	235.67	5,184.49	-170.94	-250.27	-168.84	0.00	0.00	0.00
5,300.00	6.00	235.67	5,283.94	-176.84	-258.90	-174.66	0.00	0.00	0.00
5,400.00	6.00	235.67	5,383.39	-182.73	-267.53	-180.49	0.00	0.00	0.00
5,500.00	6.00	235.67	5,482.84	-188.63	-276.16	-186.31	0.00	0.00	0.00
5,600.00	6.00	235.67	5,582.30	-194.52	-284.79	-192.13	0.00	0.00	0.00
5,700.00	6.00	235.67	5,681.75	-200.42	-293.42	-197.95	0.00	0.00	0.00
5,800.00	6.00	235.67	5,781.20	-206.31	-302.05	-203.77	0.00	0.00	0.00
5,900.00	6.00	235.67	5,880.65	-212.20	-310.68	-209.59	0.00	0.00	0.00
6,000.00	6.00	235.67	5,980.11	-218.10	-319.30	-215.42	0.00	0.00	0.00
6,100.00	6.00	235.67	6,079.56	-223.99	-327.93	-221.24	0.00	0.00	0.00
6,200.00	6.00	235.67	6,179.01	-229.89	-336.56	-227.06	0.00	0.00	0.00
6,300.00	6.00	235.67	6,278.46	-235.78	-345.19	-232.88	0.00	0.00	0.00
6,400.00	6.00	235.67	6,377.92	-241.68	-353.82	-238.70	0.00	0.00	0.00
6,500.00	6.00	235.67	6,477.37	-247.57	-362.45	-244.52	0.00	0.00	0.00
6,568.84	6.00	235.67	6,545.83	-251.63	-368.39	-248.53	0.00	0.00	0.00
Drop 1.5°/100'									
6,600.00	5.53	235.67	6,576.83	-253.39	-370.98	-250.28	1.50	-1.50	0.00
6,700.00	4.03	235.67	6,676.48	-258.09	-377.86	-254.92	1.50	-1.50	0.00
6,800.00	2.53	235.67	6,776.32	-261.32	-382.58	-258.11	1.50	-1.50	0.00
6,900.00	1.03	235.67	6,876.26	-263.07	-385.15	-259.84	1.50	-1.50	0.00
6,932.74	0.54	235.67	6,909.00	-263.33	-385.52	-260.09	1.50	-1.50	0.00
Delaware Mtn Group									
6,968.74	0.00	0.00	6,945.00	-263.42	-385.66	-260.18	1.50	-1.50	0.00
3005' Hold									
7,000.00	0.00	0.00	6,976.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
7,100.00	0.00	0.00	7,076.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
7,200.00	0.00	0.00	7,176.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
7,300.00	0.00	0.00	7,276.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
7,400.00	0.00	0.00	7,376.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
7,500.00	0.00	0.00	7,476.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
7,600.00	0.00	0.00	7,576.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
7,700.00	0.00	0.00	7,676.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
7,800.00	0.00	0.00	7,776.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
7,878.74	0.00	0.00	7,855.00	-263.42	-385.66	-260.18	0.00	0.00	0.00
Bone Spring Lime									
7,900.00	0.00	0.00	7,876.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
8,000.00	0.00	0.00	7,976.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
8,100.00	0.00	0.00	8,076.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
8,200.00	0.00	0.00	8,176.26	-263.42	-385.66	-260.18	0.00	0.00	0.00



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Gold State Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30 @ 4020.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30 @ 4020.00usft
Site:	Gold Rush Pad	North Reference:	Grid
Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,300.00	0.00	0.00	8,276.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
8,400.00	0.00	0.00	8,376.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
8,500.00	0.00	0.00	8,476.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
8,600.00	0.00	0.00	8,576.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
8,700.00	0.00	0.00	8,676.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
8,800.00	0.00	0.00	8,776.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
8,900.00	0.00	0.00	8,876.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
9,000.00	0.00	0.00	8,976.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
9,100.00	0.00	0.00	9,076.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
9,170.74	0.00	0.00	9,147.00	-263.42	-385.66	-260.18	0.00	0.00	0.00
First Bone Spring Sand									
9,200.00	0.00	0.00	9,176.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
9,300.00	0.00	0.00	9,276.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
9,338.74	0.00	0.00	9,315.00	-263.42	-385.66	-260.18	0.00	0.00	0.00
Second Bone Spring Carbonates									
9,400.00	0.00	0.00	9,376.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
9,500.00	0.00	0.00	9,476.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
9,521.74	0.00	0.00	9,498.00	-263.42	-385.66	-260.18	0.00	0.00	0.00
Second Bone Spring Sand									
9,600.00	0.00	0.00	9,576.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
9,700.00	0.00	0.00	9,676.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
9,800.00	0.00	0.00	9,776.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
9,900.00	0.00	0.00	9,876.26	-263.42	-385.66	-260.18	0.00	0.00	0.00
9,973.78	0.00	0.00	9,950.04	-263.42	-385.66	-260.18	0.00	0.00	0.00
Build 10°/100'									
10,000.00	2.62	351.90	9,976.25	-262.83	-385.75	-259.59	10.00	10.00	0.00
10,050.00	7.62	351.90	10,026.04	-258.41	-386.37	-255.17	10.00	10.00	0.00
10,100.00	12.62	351.90	10,075.24	-249.71	-387.61	-246.46	10.00	10.00	0.00
10,150.00	17.62	351.90	10,123.50	-236.80	-389.45	-233.53	10.00	10.00	0.00
10,200.00	22.62	351.90	10,170.43	-219.78	-391.87	-216.49	10.00	10.00	0.00
10,250.00	27.62	351.90	10,215.69	-198.77	-394.86	-195.46	10.00	10.00	0.00
10,300.00	32.62	351.90	10,258.92	-173.94	-398.40	-170.59	10.00	10.00	0.00
10,320.00	34.62	351.90	10,275.57	-162.97	-399.96	-159.62	10.00	10.00	0.00
FTP/PPP @ 10320' - 150' FSL & 447' FWL									
10,350.00	37.62	351.90	10,299.80	-145.47	-402.45	-142.09	10.00	10.00	0.00
10,361.71	38.79	351.90	10,309.00	-138.30	-403.47	-134.92	10.00	10.00	0.00
Third Bone Spring Carbonates									
10,400.00	42.62	351.90	10,338.02	-113.58	-406.99	-110.16	10.00	10.00	0.00
10,450.00	47.62	351.90	10,373.29	-78.51	-411.98	-75.06	10.00	10.00	0.00
10,500.00	52.62	351.90	10,405.34	-40.54	-417.38	-37.04	10.00	10.00	0.00
10,507.74	53.40	351.90	10,410.00	-34.41	-418.25	-30.91	10.00	10.00	0.00
Third Bone Spring Sand									
10,550.00	57.62	351.90	10,433.92	0.06	-423.16	3.61	10.00	10.00	0.00
10,600.00	62.62	351.90	10,458.82	42.97	-429.27	46.56	10.00	10.00	0.00
10,650.00	67.62	351.90	10,479.85	87.86	-435.66	91.51	10.00	10.00	0.00
10,700.00	72.62	351.90	10,496.85	134.40	-442.28	138.10	10.00	10.00	0.00
10,750.00	77.62	351.90	10,509.68	182.23	-449.09	185.98	10.00	10.00	0.00
10,800.00	82.62	351.90	10,518.25	230.98	-456.02	234.79	10.00	10.00	0.00
10,850.00	87.62	351.90	10,522.50	280.28	-463.04	284.15	10.00	10.00	0.00
10,873.78	90.00	351.90	10,523.00	303.82	-466.39	307.72	10.00	10.00	0.00
Turn 2°/100' - HZ Target									
10,900.00	90.00	352.42	10,523.00	329.79	-469.97	333.72	2.00	0.00	2.00
11,000.00	90.00	354.42	10,523.00	429.13	-481.42	433.15	2.00	0.00	2.00



Altitude Energy Partners

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Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30 @ 4020.00usft
Site:	Gold Rush Pad	North Reference:	Grid
Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

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)
11,100.00	90.00	356.42	10,523.00	528.81	-489.40	532.89	2.00	0.00	2.00
11,200.00	90.00	358.42	10,523.00	628.70	-493.89	632.82	2.00	0.00	2.00
11,255.02	90.00	359.52	10,523.00	683.71	-494.87	687.83	2.00	0.00	2.00
8094' Hold									
11,300.00	90.00	359.52	10,523.00	728.69	-495.25	732.81	0.00	0.00	0.00
11,400.00	90.00	359.52	10,523.00	828.69	-496.08	832.81	0.00	0.00	0.00
11,500.00	90.00	359.52	10,523.00	928.68	-496.91	932.81	0.00	0.00	0.00
11,600.00	90.00	359.52	10,523.00	1,028.68	-497.73	1,032.81	0.00	0.00	0.00
11,700.00	90.00	359.52	10,523.00	1,128.68	-498.56	1,132.81	0.00	0.00	0.00
11,800.00	90.00	359.52	10,523.00	1,228.67	-499.39	1,232.81	0.00	0.00	0.00
11,900.00	90.00	359.52	10,523.00	1,328.67	-500.22	1,332.81	0.00	0.00	0.00
12,000.00	90.00	359.52	10,523.00	1,428.67	-501.05	1,432.81	0.00	0.00	0.00
12,100.00	90.00	359.52	10,523.00	1,528.66	-501.88	1,532.81	0.00	0.00	0.00
12,200.00	90.00	359.52	10,523.00	1,628.66	-502.71	1,632.81	0.00	0.00	0.00
12,300.00	90.00	359.52	10,523.00	1,728.66	-503.54	1,732.81	0.00	0.00	0.00
12,400.00	90.00	359.52	10,523.00	1,828.65	-504.37	1,832.81	0.00	0.00	0.00
12,500.00	90.00	359.52	10,523.00	1,928.65	-505.20	1,932.81	0.00	0.00	0.00
12,600.00	90.00	359.52	10,523.00	2,028.65	-506.03	2,032.81	0.00	0.00	0.00
12,700.00	90.00	359.52	10,523.00	2,128.64	-506.86	2,132.81	0.00	0.00	0.00
12,800.00	90.00	359.52	10,523.00	2,228.64	-507.69	2,232.81	0.00	0.00	0.00
12,900.00	90.00	359.52	10,523.00	2,328.64	-508.52	2,332.81	0.00	0.00	0.00
13,000.00	90.00	359.52	10,523.00	2,428.63	-509.35	2,432.81	0.00	0.00	0.00
13,100.00	90.00	359.52	10,523.00	2,528.63	-510.18	2,532.81	0.00	0.00	0.00
13,200.00	90.00	359.52	10,523.00	2,628.63	-511.01	2,632.81	0.00	0.00	0.00
13,300.00	90.00	359.52	10,523.00	2,728.62	-511.84	2,732.81	0.00	0.00	0.00
13,400.00	90.00	359.52	10,523.00	2,828.62	-512.66	2,832.81	0.00	0.00	0.00
13,500.00	90.00	359.52	10,523.00	2,928.62	-513.49	2,932.81	0.00	0.00	0.00
13,600.00	90.00	359.52	10,523.00	3,028.61	-514.32	3,032.81	0.00	0.00	0.00
13,700.00	90.00	359.52	10,523.00	3,128.61	-515.15	3,132.81	0.00	0.00	0.00
13,800.00	90.00	359.52	10,523.00	3,228.60	-515.98	3,232.81	0.00	0.00	0.00
13,900.00	90.00	359.52	10,523.00	3,328.60	-516.81	3,332.81	0.00	0.00	0.00
14,000.00	90.00	359.52	10,523.00	3,428.60	-517.64	3,432.81	0.00	0.00	0.00
14,100.00	90.00	359.52	10,523.00	3,528.59	-518.47	3,532.81	0.00	0.00	0.00
14,200.00	90.00	359.52	10,523.00	3,628.59	-519.30	3,632.81	0.00	0.00	0.00
14,300.00	90.00	359.52	10,523.00	3,728.59	-520.13	3,732.81	0.00	0.00	0.00
14,400.00	90.00	359.52	10,523.00	3,828.58	-520.96	3,832.81	0.00	0.00	0.00
14,500.00	90.00	359.52	10,523.00	3,928.58	-521.79	3,932.81	0.00	0.00	0.00
14,600.00	90.00	359.52	10,523.00	4,028.58	-522.62	4,032.81	0.00	0.00	0.00
14,700.00	90.00	359.52	10,523.00	4,128.57	-523.45	4,132.81	0.00	0.00	0.00
14,800.00	90.00	359.52	10,523.00	4,228.57	-524.28	4,232.81	0.00	0.00	0.00
14,900.00	90.00	359.52	10,523.00	4,328.57	-525.11	4,332.81	0.00	0.00	0.00
15,000.00	90.00	359.52	10,523.00	4,428.56	-525.94	4,432.81	0.00	0.00	0.00
15,100.00	90.00	359.52	10,523.00	4,528.56	-526.76	4,532.81	0.00	0.00	0.00
15,200.00	90.00	359.52	10,523.00	4,628.56	-527.59	4,632.81	0.00	0.00	0.00
15,300.00	90.00	359.52	10,523.00	4,728.55	-528.42	4,732.81	0.00	0.00	0.00
15,400.00	90.00	359.52	10,523.00	4,828.55	-529.25	4,832.81	0.00	0.00	0.00
15,500.00	90.00	359.52	10,523.00	4,928.55	-530.08	4,932.81	0.00	0.00	0.00
15,600.00	90.00	359.52	10,523.00	5,028.54	-530.91	5,032.81	0.00	0.00	0.00
15,700.00	90.00	359.52	10,523.00	5,128.54	-531.74	5,132.81	0.00	0.00	0.00
15,800.00	90.00	359.52	10,523.00	5,228.54	-532.57	5,232.81	0.00	0.00	0.00
15,900.00	90.00	359.52	10,523.00	5,328.53	-533.40	5,332.81	0.00	0.00	0.00
16,000.00	90.00	359.52	10,523.00	5,428.53	-534.23	5,432.81	0.00	0.00	0.00
16,100.00	90.00	359.52	10,523.00	5,528.53	-535.06	5,532.81	0.00	0.00	0.00



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Gold State Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30 @ 4020.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30 @ 4020.00usft
Site:	Gold Rush Pad	North Reference:	Grid
Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,200.00	90.00	359.52	10,523.00	5,628.52	-535.89	5,632.81	0.00	0.00	0.00
16,300.00	90.00	359.52	10,523.00	5,728.52	-536.72	5,732.81	0.00	0.00	0.00
16,400.00	90.00	359.52	10,523.00	5,828.52	-537.55	5,832.81	0.00	0.00	0.00
16,500.00	90.00	359.52	10,523.00	5,928.51	-538.38	5,932.81	0.00	0.00	0.00
16,600.00	90.00	359.52	10,523.00	6,028.51	-539.21	6,032.81	0.00	0.00	0.00
16,700.00	90.00	359.52	10,523.00	6,128.51	-540.04	6,132.81	0.00	0.00	0.00
16,800.00	90.00	359.52	10,523.00	6,228.50	-540.87	6,232.81	0.00	0.00	0.00
16,900.00	90.00	359.52	10,523.00	6,328.50	-541.69	6,332.81	0.00	0.00	0.00
17,000.00	90.00	359.52	10,523.00	6,428.49	-542.52	6,432.81	0.00	0.00	0.00
17,100.00	90.00	359.52	10,523.00	6,528.49	-543.35	6,532.81	0.00	0.00	0.00
17,200.00	90.00	359.52	10,523.00	6,628.49	-544.18	6,632.81	0.00	0.00	0.00
17,300.00	90.00	359.52	10,523.00	6,728.48	-545.01	6,732.81	0.00	0.00	0.00
17,400.00	90.00	359.52	10,523.00	6,828.48	-545.84	6,832.81	0.00	0.00	0.00
17,500.00	90.00	359.52	10,523.00	6,928.48	-546.67	6,932.81	0.00	0.00	0.00
17,600.00	90.00	359.52	10,523.00	7,028.47	-547.50	7,032.81	0.00	0.00	0.00
17,700.00	90.00	359.52	10,523.00	7,128.47	-548.33	7,132.81	0.00	0.00	0.00
17,800.00	90.00	359.52	10,523.00	7,228.47	-549.16	7,232.81	0.00	0.00	0.00
17,900.00	90.00	359.52	10,523.00	7,328.46	-549.99	7,332.81	0.00	0.00	0.00
18,000.00	90.00	359.52	10,523.00	7,428.46	-550.82	7,432.81	0.00	0.00	0.00
18,100.00	90.00	359.52	10,523.00	7,528.46	-551.65	7,532.81	0.00	0.00	0.00
18,200.00	90.00	359.52	10,523.00	7,628.45	-552.48	7,632.81	0.00	0.00	0.00
18,300.00	90.00	359.52	10,523.00	7,728.45	-553.31	7,732.81	0.00	0.00	0.00
18,400.00	90.00	359.52	10,523.00	7,828.45	-554.14	7,832.81	0.00	0.00	0.00
18,500.00	90.00	359.52	10,523.00	7,928.44	-554.97	7,932.81	0.00	0.00	0.00
18,600.00	90.00	359.52	10,523.00	8,028.44	-555.79	8,032.81	0.00	0.00	0.00
18,700.00	90.00	359.52	10,523.00	8,128.44	-556.62	8,132.81	0.00	0.00	0.00
18,800.00	90.00	359.52	10,523.00	8,228.43	-557.45	8,232.81	0.00	0.00	0.00
18,900.00	90.00	359.52	10,523.00	8,328.43	-558.28	8,332.81	0.00	0.00	0.00
19,000.00	90.00	359.52	10,523.00	8,428.43	-559.11	8,432.81	0.00	0.00	0.00
19,100.00	90.00	359.52	10,523.00	8,528.42	-559.94	8,532.81	0.00	0.00	0.00
19,200.00	90.00	359.52	10,523.00	8,628.42	-560.77	8,632.81	0.00	0.00	0.00
19,300.00	90.00	359.52	10,523.00	8,728.42	-561.60	8,732.81	0.00	0.00	0.00
19,349.32	90.00	359.52	10,523.00	8,777.73	-562.01	8,782.13	0.00	0.00	0.00
TD at 19349.32									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Gold State Com 601H - hit/miss target - Shape - Point	0.00	0.00	10,523.00	-263.42	-385.66	622,236.73	785,938.73	32.708049	-103.538106
- plan misses target center by 237.33usft at 10423.27usft MD (10354.83 TVD, -97.63 N, -409.26 E)									
Gold State Com 601H - plan hits target center - Point	0.00	0.00	10,523.00	8,777.73	-562.01	631,277.88	785,762.38	32.732901	-103.538459
Gold State Com 601H - plan misses target center by 247.93usft at 10433.39usft MD (10361.92 TVD, -90.50 N, -410.27 E) - Point	0.00	0.00	10,523.00	-263.24	-485.66	622,236.92	785,838.73	32.708051	-103.538431



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Gold State Com 601H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30 @ 4020.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30 @ 4020.00usft
Site:	Gold Rush Pad	North Reference:	Grid
Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
30.00	30.00	Cenozoic Alluvium (surface)			
1,884.00	1,884.00	Rustler			
2,113.00	2,113.00	Salado			
3,251.85	3,247.00	Base Salt			
3,527.36	3,521.00	Yates			
3,859.17	3,851.00	Seven Rivers			
4,660.56	4,648.00	Queen			
6,932.74	6,909.00	Delaware Mtn Group			
7,878.74	7,855.00	Bone Spring Lime			
9,170.74	9,147.00	First Bone Spring Sand			
9,338.74	9,315.00	Second Bone Spring Carbonates			
9,521.74	9,498.00	Second Bone Spring Sand			
10,361.71	10,309.00	Third Bone Spring Carbonates			
10,507.74	10,410.00	Third Bone Spring Sand			
10,873.78	10,523.00	HZ Target			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,100.00	2,100.00	0.00	0.00	Build 1.5°/100'
2,499.90	2,499.17	-11.80	-17.27	4068' Hold
6,568.84	6,545.83	-251.63	-368.39	Drop 1.5°/100'
6,968.74	6,945.00	-263.42	-385.66	3005' Hold
9,973.78	9,950.04	-263.42	-385.66	Build 10°/100'
10,320.00	10,275.57	-162.97	-399.96	FTP/PPP @ 10320' - 150' FSL & 447' FWL
10,873.78	10,523.00	303.82	-466.39	Turn 2°/100'
11,255.02	10,523.00	683.71	-494.87	8094' Hold
19,349.32	10,523.00	8,777.73	-562.01	TD at 19349.32



Franklin Mountain Energy

Lea Co., NM (NAD-83)

Gold Rush Pad

Gold State Com 601H

OH

Plan 1

Anticollision Report

25 May, 2023





Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	5/25/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	19,349.14	Plan 1 (OH)	MWD+HDGM	OWSG MWD + HRGM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Gold Rush Offsets						
Compton State #001 (P&A) - OH - OH						Out of range
Kingfisher State Com 2H - OH - OH						Out of range
Magpie State #1 - Halliburton Curve Lateral - Halliburton	14,929.52	10,041.00	653.47	592.15	10.656	CC, ES
Magpie State #1 - Halliburton Curve Lateral - Halliburton	15,000.00	10,041.00	657.26	595.21	10.591	SF
Magpie State #1 - OH - Franklin Mountain Surveys	14,881.98	10,073.00	623.85	536.39	7.133	CC
Magpie State #1 - OH - Franklin Mountain Surveys	14,900.00	10,073.00	624.11	536.33	7.110	ES
Magpie State #1 - OH - Franklin Mountain Surveys	15,200.00	10,073.00	700.23	597.35	6.806	SF
Magpie State #1 - State Pason Lateral - State Pason Lat	14,882.18	10,073.00	621.09	533.58	7.098	CC
Magpie State #1 - State Pason Lateral - State Pason Lat	14,900.00	10,073.00	621.34	533.51	7.074	ES
Magpie State #1 - State Pason Lateral - State Pason Lat	15,200.00	10,073.00	697.68	594.63	6.771	SF
Magpie State #1 - State Pason Pilot - State Pason Pilot	14,866.30	10,520.80	5.04	-158.53	0.031	Collision Risk Procedures
Pre-Ongard Well #001 (30-025-29050) (P&A) - OH - OH						Out of range
Sherry M State #001 (P&A) - OH - OH	11,238.32	10,496.66	286.46	29.73	1.116	Collision Risk Procedures
State HQ # 004 (P&A) - OH - OH						Out of range
State HQ #006 (P&A) - OH - OH						Out of range
State HQ #007 (P&A) - OH - OH	12,230.32	10,497.25	282.58	28.10	1.110	Collision Risk Procedures
State HQ #008 - OH - OH	13,552.39	10,499.17	281.29	-1.00	0.996	Collision Risk Procedures
Tin Cup 36 State Com 2H - OH - OH	9,878.64	15,551.03	752.58	589.36	4.611	CC, ES, SF
Gold Rush Pad						
Gold State Com 301H - OH - Plan 1	2,000.00	2,000.00	25.00	13.88	2.248	CC, ES, SF
Gold State Com 701H - OH - Plan 1	2,100.00	2,100.00	24.99	13.57	2.187	CC, ES, SF
Gold State Com 801H - OH - Plan 1	2,100.00	2,100.00	49.99	38.57	4.376	CC, ES
Gold State Com 801H - OH - Plan 1	9,973.78	9,968.23	100.00	59.77	2.486	SF

Offset Design:Gold Rush Offsets - Magpie State #1 - Halliburton Curve Lateral - Halliburton Curve Lateral													Offset Site Error:	0.00 usft
Survey Program:		9410-MWD						Rule Assigned:				Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
14,200.00	10,523.00	10,041.00	9,937.96	58.08	5.80	27.23	4,360.56	-226.33	979.40	940.89	38.51	25.434		
14,300.00	10,523.00	10,041.00	9,937.96	59.43	5.80	27.23	4,360.56	-226.33	907.37	866.08	41.29	21.976		
14,400.00	10,523.00	10,041.00	9,937.96	60.78	5.80	27.23	4,360.56	-226.33	841.08	796.61	44.46	18.916		
14,500.00	10,523.00	10,041.00	9,937.96	62.13	5.80	27.23	4,360.56	-226.33	781.99	734.02	47.98	16.300		

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Offsets - Magpie State #1 - Halliburton Curve Lateral - Halliburton Curve Lateral													Offset Site Error: 0.00 usft
Survey Program: 9410-MWD													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Rule Assigned:			Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Toolface (°)	+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,600.00	10,523.00	10,041.00	9,937.96	63.49	5.80	27.23	4,360.56	-226.33	731.85	680.17	51.68	14.162	
14,700.00	10,523.00	10,041.00	9,937.96	64.85	5.80	27.23	4,360.56	-226.33	692.61	637.30	55.31	12.523	
14,800.00	10,523.00	10,041.00	9,937.96	66.22	5.80	27.23	4,360.56	-226.33	666.18	607.69	58.49	11.389	
14,900.00	10,523.00	10,041.00	9,937.96	67.59	5.80	27.23	4,360.56	-226.33	654.14	593.30	60.84	10.752	
14,929.52	10,523.00	10,041.00	9,937.96	68.00	5.80	27.23	4,360.56	-226.33	653.47	592.15	61.32	10.656 CC, ES	
15,000.00	10,523.00	10,041.00	9,937.96	68.97	5.80	27.23	4,360.56	-226.33	657.26	595.21	62.06	10.591 SF	
15,100.00	10,523.00	10,041.00	9,937.96	70.34	5.80	27.23	4,360.56	-226.33	675.35	613.26	62.09	10.878	
15,200.00	10,523.00	10,041.00	9,937.96	71.72	5.80	27.23	4,360.56	-226.33	707.24	646.14	61.10	11.575	
15,300.00	10,523.00	10,041.00	9,937.96	73.10	5.80	27.23	4,360.56	-226.33	751.19	691.77	59.41	12.643	
15,400.00	10,523.00	10,048.99	9,941.72	74.49	5.95	27.93	4,360.66	-219.28	805.14	747.74	57.40	14.026	
15,500.00	10,523.00	10,049.28	9,941.85	75.88	5.96	27.96	4,360.66	-219.02	867.38	812.18	55.20	15.715	
15,600.00	10,523.00	10,049.57	9,941.99	77.27	5.97	27.98	4,360.67	-218.76	936.18	883.15	53.03	17.655	

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Offsets - Magpie State #1 - OH - Franklin Mountain Surveys

Survey Program: 111-MWD													Offset Site Error: 0.00 usft
Rule Assigned: Distance													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	10,523.00	10,073.00	9,954.27	58.08	97.07	25.15	4,312.75	-259.88	924.28	820.49	103.78	8.906	
14,300.00	10,523.00	10,073.00	9,954.27	59.43	97.07	25.15	4,312.75	-259.88	853.16	751.16	102.01	8.364	
14,400.00	10,523.00	10,073.00	9,954.27	60.78	97.07	25.15	4,312.75	-259.88	788.35	688.65	99.69	7.908	
14,500.00	10,523.00	10,073.00	9,954.27	62.13	97.07	25.15	4,312.75	-259.88	731.50	634.75	96.75	7.561	
14,600.00	10,523.00	10,073.00	9,954.27	63.49	97.07	25.15	4,312.75	-259.88	684.62	591.35	93.27	7.340	
14,700.00	10,523.00	10,073.00	9,954.27	64.85	97.07	25.15	4,312.75	-259.88	649.85	560.10	89.75	7.241	
14,800.00	10,523.00	10,073.00	9,954.27	66.22	97.07	25.15	4,312.75	-259.88	629.21	541.82	87.40	7.200	
14,881.98	10,523.00	10,073.00	9,954.27	67.34	97.07	25.15	4,312.75	-259.88	623.85	536.39	87.46	7.133	CC
14,900.00	10,523.00	10,073.00	9,954.27	67.59	97.07	25.15	4,312.75	-259.88	624.11	536.33	87.78	7.110	ES
15,000.00	10,523.00	10,073.00	9,954.27	68.97	97.07	25.15	4,312.75	-259.88	634.92	543.51	91.41	6.946	
15,100.00	10,523.00	10,073.00	9,954.27	70.34	97.07	25.15	4,312.75	-259.88	660.85	563.84	97.01	6.812	
15,200.00	10,523.00	10,073.00	9,954.27	71.72	97.07	25.15	4,312.75	-259.88	700.23	597.35	102.89	6.806	SF
15,300.00	10,523.00	10,073.00	9,954.27	73.10	97.07	25.15	4,312.75	-259.88	750.95	642.93	108.02	6.952	
15,400.00	10,523.00	10,079.07	9,956.86	74.49	97.08	25.70	4,312.86	-254.39	810.85	698.40	112.46	7.210	
15,500.00	10,523.00	10,080.00	9,957.26	75.88	97.08	25.79	4,312.88	-253.55	878.11	762.58	115.53	7.601	
15,600.00	10,523.00	10,080.99	9,957.67	77.27	97.09	25.88	4,312.90	-252.65	951.13	833.34	117.79	8.075	

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Offsets - Magpie State #1 - State Pason Lateral - State Pason Lateral													Offset Site Error:	0.00 usft
Survey Program: 111-MWD, 9441-MWD													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		Reference	Offset	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
14,100.00	10,523.00	10,073.00	9,956.65		56.74	97.10	25.12	4,312.94	-261.32	998.78	893.64	105.14	9.500	
14,200.00	10,523.00	10,073.00	9,956.65		58.08	97.10	25.12	4,312.94	-261.32	922.57	818.78	103.79	8.889	
14,300.00	10,523.00	10,073.00	9,956.65		59.43	97.10	25.12	4,312.94	-261.32	851.29	749.27	102.02	8.344	
14,400.00	10,523.00	10,073.00	9,956.65		60.78	97.10	25.12	4,312.94	-261.32	786.29	686.58	99.71	7.886	
14,500.00	10,523.00	10,073.00	9,956.65		62.13	97.10	25.12	4,312.94	-261.32	729.26	632.48	96.77	7.536	
14,600.00	10,523.00	10,073.00	9,956.65		63.49	97.10	25.12	4,312.94	-261.32	682.19	588.90	93.29	7.312	
14,700.00	10,523.00	10,073.00	9,956.65		64.85	97.10	25.12	4,312.94	-261.32	647.26	557.49	89.77	7.210	
14,800.00	10,523.00	10,073.00	9,956.65		66.22	97.10	25.12	4,312.94	-261.32	626.50	539.08	87.42	7.166	
14,882.18	10,523.00	10,073.00	9,956.65		67.35	97.10	25.12	4,312.94	-261.32	621.09	533.58	87.51	7.098 CC	
14,900.00	10,523.00	10,073.00	9,956.65		67.59	97.10	25.12	4,312.94	-261.32	621.34	533.51	87.83	7.074 ES	
15,000.00	10,523.00	10,073.00	9,956.65		68.97	97.10	25.12	4,312.94	-261.32	632.16	540.66	91.50	6.909	
15,100.00	10,523.00	10,073.00	9,956.65		70.34	97.10	25.12	4,312.94	-261.32	658.17	561.02	97.15	6.775	
15,200.00	10,523.00	10,073.00	9,956.65		71.72	97.10	25.12	4,312.94	-261.32	697.68	594.63	103.05	6.771 SF	
15,300.00	10,523.00	10,073.00	9,956.65		73.10	97.10	25.12	4,312.94	-261.32	748.54	640.36	108.18	6.919	
15,400.00	10,523.00	10,073.00	9,956.65		74.49	97.10	25.12	4,312.94	-261.32	808.63	696.37	112.26	7.203	
15,500.00	10,523.00	10,073.00	9,956.65		75.88	97.10	25.12	4,312.94	-261.32	876.04	760.69	115.35	7.595	
15,600.00	10,523.00	10,073.00	9,956.65		77.27	97.10	25.12	4,312.94	-261.32	949.21	831.60	117.62	8.070	

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Offsets - Magpie State #1 - State Pason Pilot - State Pason Pilot

Survey Program: Reference		111-MWD						Rule Assigned:					Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
13,900.00	10,523.00	10,537.73	10,536.03	54.08	96.97	-164.64	4,294.53	-529.50	966.16	850.80	115.35	8.376		
14,000.00	10,523.00	10,536.01	10,534.32	55.41	96.97	-162.89	4,294.56	-529.54	866.17	750.75	115.43	7.504		
14,100.00	10,523.00	10,534.29	10,532.59	56.74	96.97	-160.73	4,294.59	-529.58	766.19	650.70	115.50	6.634		
14,200.00	10,523.00	10,532.55	10,530.86	58.08	96.97	-158.01	4,294.62	-529.61	666.21	550.65	115.56	5.765		
14,300.00	10,523.00	10,530.81	10,529.12	59.43	96.96	-154.50	4,294.65	-529.65	566.23	450.60	115.63	4.897		
14,400.00	10,523.00	10,529.06	10,527.37	60.78	96.96	-149.85	4,294.68	-529.69	466.25	350.57	115.68	4.031		
14,500.00	10,523.00	10,527.30	10,525.61	62.13	96.96	-143.46	4,294.71	-529.73	366.27	250.56	115.72	3.165		
14,600.00	10,523.00	10,525.54	10,523.85	63.49	96.96	-134.48	4,294.74	-529.76	266.30	150.58	115.72	2.301		
14,700.00	10,523.00	10,523.77	10,522.08	64.85	96.96	-121.72	4,294.77	-529.80	166.35	50.72	115.63	1.439	Collision Risk Procedures Req.	
14,800.00	10,523.00	10,521.98	10,520.29	66.22	96.96	-104.48	4,294.80	-529.84	66.48	-48.79	115.26	0.577	Collision Risk Procedures Req.	
14,866.30	10,523.00	10,520.80	10,519.11	67.13	96.96	-91.24	4,294.82	-529.87	5.04	-158.53	163.57	0.031	Collision Risk Procedures Req., CC	
14,900.00	10,523.00	10,520.19	10,518.50	67.59	96.96	-84.41	4,294.83	-529.88	34.07	-87.07	121.15	0.281	Collision Risk Procedures Req.	
15,000.00	10,523.00	10,518.39	10,516.71	68.97	96.96	-65.77	4,294.87	-529.92	133.78	16.39	117.39	1.140	Collision Risk Procedures Req.	
15,100.00	10,523.00	10,516.59	10,514.90	70.34	96.96	-51.39	4,294.90	-529.96	233.72	116.66	117.06	1.997	Collision Risk Procedures Req.	
15,200.00	10,523.00	10,514.77	10,513.09	71.72	96.96	-41.18	4,294.93	-530.00	333.69	216.68	117.01	2.852		
15,300.00	10,523.00	10,512.95	10,511.26	73.10	96.96	-33.97	4,294.96	-530.04	433.66	316.63	117.03	3.705		
15,400.00	10,523.00	10,511.12	10,509.43	74.49	96.96	-28.77	4,295.00	-530.08	533.64	416.55	117.09	4.558		
15,500.00	10,523.00	10,509.27	10,507.59	75.88	96.96	-24.90	4,295.03	-530.12	633.62	516.46	117.16	5.408		
15,600.00	10,523.00	10,507.42	10,505.74	77.27	96.96	-21.92	4,295.06	-530.16	733.60	616.36	117.25	6.257		
15,700.00	10,523.00	10,505.57	10,503.88	78.66	96.96	-19.58	4,295.10	-530.21	833.58	716.25	117.34	7.104		
15,800.00	10,523.00	10,503.70	10,502.02	80.05	96.96	-17.70	4,295.13	-530.25	933.56	816.13	117.43	7.950		

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Offsets - Sherry M State #001 (P&A) - OH - OH													Offset Site Error:
Survey Program: 397-INC-ONLY													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	Offset Wellbore Centre +E-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-17.24	671.05	-208.26	703.18				
100.00	100.00	72.00	72.00	0.79	2.23	-17.24	671.05	-208.26	702.63	699.60	3.02	232.622	
200.00	200.00	172.00	172.00	1.45	5.32	-17.24	671.05	-208.26	702.63	695.85	6.77	103.744	
300.00	300.00	272.00	272.00	1.89	8.42	-17.24	671.05	-208.26	702.63	692.31	10.31	68.136	
400.00	400.00	372.00	372.00	2.26	11.51	-17.24	671.05	-208.26	702.63	688.86	13.77	51.032	
500.00	500.00	473.57	473.56	2.57	13.33	-17.24	671.21	-208.26	702.78	686.88	15.90	44.192	
600.00	600.00	572.02	572.00	2.85	15.87	-17.24	671.05	-208.26	702.63	683.91	18.72	37.533	
700.00	700.00	672.02	672.00	3.11	19.15	-17.24	671.05	-208.26	702.63	680.36	22.26	31.560	
800.00	800.00	772.02	772.00	3.35	22.44	-17.24	671.05	-208.26	702.63	676.84	25.79	27.245	
900.00	900.00	872.59	872.57	3.58	25.74	-17.22	672.08	-208.26	703.61	674.29	29.32	23.999	
1,000.00	1,000.00	973.99	973.96	3.79	29.07	-17.22	671.89	-208.26	703.43	670.57	32.86	21.404	
1,100.00	1,100.00	1,075.40	1,075.36	4.00	32.40	-17.23	671.49	-208.26	703.05	666.66	36.40	19.315	
1,200.00	1,200.00	1,172.08	1,172.00	4.19	35.23	-17.24	671.05	-208.26	702.63	663.20	39.42	17.822	
1,300.00	1,300.00	1,272.08	1,272.00	4.38	36.79	-17.24	671.05	-208.26	702.63	661.46	41.17	17.066	
1,400.00	1,400.00	1,373.39	1,373.31	4.56	38.37	-17.23	671.56	-208.26	703.11	660.18	42.93	16.378	
1,500.00	1,500.00	1,476.05	1,475.97	4.74	39.96	-17.24	671.16	-208.26	702.74	658.03	44.70	15.720	
1,555.17	1,555.17	1,527.28	1,527.17	4.84	41.14	-17.24	671.05	-208.26	702.63	656.65	45.98	15.282	
1,600.00	1,600.00	1,572.11	1,572.00	4.91	42.34	-17.24	671.05	-208.26	702.63	655.38	47.25	14.871	
1,700.00	1,700.00	1,672.11	1,672.00	5.08	45.00	-17.24	671.05	-208.26	702.63	652.55	50.08	14.030	
1,800.00	1,800.00	1,772.11	1,772.00	5.24	47.66	-17.24	671.05	-208.26	702.63	649.72	52.91	13.280	
1,900.00	1,900.00	1,872.61	1,872.50	5.40	50.34	-17.21	672.15	-208.26	703.68	647.93	55.74	12.623	
2,000.00	2,000.00	1,973.93	1,973.82	5.56	53.04	-17.22	671.98	-208.26	703.51	644.91	58.60	12.005	
2,100.00	2,100.00	2,075.26	2,075.14	5.71	55.74	-17.23	671.60	-208.26	703.16	641.71	61.45	11.443	
2,175.74	2,175.73	2,151.99	2,151.87	5.84	57.78	107.16	671.19	-208.26	702.99	639.39	63.60	11.053	
2,200.00	2,199.99	2,176.57	2,176.45	5.88	58.44	107.20	671.03	-208.26	703.01	638.72	64.28	10.936	
2,300.00	2,299.91	2,272.09	2,271.91	6.04	60.13	107.48	671.05	-208.26	704.18	638.08	66.10	10.654	
2,400.00	2,399.69	2,372.87	2,372.67	6.22	61.94	107.98	671.78	-208.26	706.87	638.84	68.03	10.391	
2,499.90	2,499.17	2,475.98	2,475.78	6.41	63.80	108.66	671.35	-208.26	709.36	639.35	70.01	10.133	
2,600.00	2,598.72	2,570.97	2,570.72	6.60	65.82	109.41	671.05	-208.26	712.48	640.32	72.16	9.874	
2,700.00	2,698.17	2,670.43	2,670.17	6.81	68.16	110.19	671.05	-208.26	716.04	641.40	74.64	9.594	
2,800.00	2,797.63	2,769.88	2,769.63	7.03	70.50	110.97	671.05	-208.26	719.73	642.61	77.12	9.333	
2,900.00	2,897.08	2,872.10	2,871.83	7.27	72.91	111.78	672.31	-208.26	724.78	645.10	79.68	9.097	
3,000.00	2,996.53	2,974.64	2,974.36	7.52	75.33	112.55	671.69	-208.26	728.15	645.91	82.24	8.854	
3,100.00	3,095.98	3,068.42	3,067.98	7.79	77.49	113.25	671.05	-208.26	731.58	647.02	84.57	8.651	
3,200.00	3,195.44	3,167.87	3,167.44	8.06	79.65	114.00	671.05	-208.26	735.79	648.90	86.90	8.467	
3,300.00	3,294.89	3,268.25	3,267.80	8.35	81.83	114.76	672.64	-208.26	741.69	652.43	89.25	8.310	
3,400.00	3,394.34	3,373.44	3,372.97	8.65	84.12	115.52	672.10	-208.26	745.64	653.92	91.72	8.130	
3,500.00	3,493.79	3,466.35	3,465.79	8.95	86.13	116.18	671.05	-208.26	749.15	655.23	93.92	7.977	
3,600.00	3,593.25	3,565.80	3,565.25	9.27	88.10	116.89	671.05	-208.26	753.84	657.75	96.09	7.845	
3,700.00	3,692.70	3,665.26	3,664.70	9.59	90.08	117.59	671.05	-208.26	758.64	660.37	98.27	7.720	
3,800.00	3,792.15	3,765.70	3,765.14	9.91	92.08	118.30	672.19	-208.26	764.68	664.21	100.47	7.611	
3,900.00	3,891.60	3,867.75	3,867.18	10.24	94.11	118.99	671.88	-208.26	769.42	666.70	102.72	7.491	
4,000.00	3,991.06	3,969.84	3,969.26	10.58	96.13	119.68	671.24	-208.26	773.93	668.96	104.97	7.373	
4,100.00	4,090.51	4,063.11	4,062.51	10.92	98.05	120.30	671.05	-208.26	778.96	671.84	107.12	7.272	
4,200.00	4,189.96	4,162.57	4,161.96	11.27	100.12	120.96	671.05	-208.26	784.31	674.89	109.42	7.168	
4,300.00	4,289.41	4,262.02	4,261.41	11.62	102.18	121.61	671.05	-208.26	789.75	678.03	111.73	7.069	
4,400.00	4,388.87	4,362.35	4,361.75	11.97	104.27	122.25	671.66	-208.26	795.91	681.84	114.06	6.978	
4,500.00	4,488.32	4,463.01	4,462.40	12.33	106.36	122.89	671.47	-208.26	801.37	684.96	116.41	6.884	
4,600.00	4,587.77	4,563.68	4,563.07	12.69	108.45	123.52	671.13	-208.26	806.78	688.02	118.76	6.793	
4,700.00	4,687.22	4,659.88	4,659.22	13.05	110.34	124.11	671.05	-208.26	812.53	691.61	120.92	6.720	
4,800.00	4,786.68	4,760.07	4,759.41	13.41	112.28	124.72	671.74	-208.26	819.15	696.01	123.13	6.653	
4,900.00	4,886.13	4,864.23	4,863.56	13.78	114.30	125.34	671.36	-208.26	824.79	699.36	125.43	6.576	

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Offsets - Sherry M State #001 (P&A) - OH - OH													Offset Site Error:
Survey Program: 397-INC-ONLY													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,985.58	4,958.29	4,957.58	14.15	116.33	125.89	671.05	-208.26	830.58	702.83	127.74	6.502	
5,100.00	5,085.03	5,058.53	5,057.82	14.52	118.65	126.47	671.65	-208.26	837.37	707.01	130.36	6.423	
5,200.00	5,184.49	5,163.55	5,162.83	14.89	121.09	127.08	671.21	-208.26	843.23	710.13	133.10	6.336	
5,300.00	5,283.94	5,256.76	5,255.94	15.27	123.23	127.60	671.05	-208.26	849.40	713.87	135.53	6.267	
5,400.00	5,383.39	5,358.38	5,357.52	15.64	125.55	128.16	672.55	-208.26	857.34	719.17	138.17	6.205	
5,500.00	5,482.84	5,470.11	5,469.22	16.02	128.11	128.77	671.48	-208.26	862.91	721.88	141.03	6.119	
5,600.00	5,582.30	5,555.23	5,554.30	16.40	129.97	129.23	671.05	-208.26	868.95	725.74	143.21	6.068	
5,700.00	5,681.75	5,654.69	5,653.75	16.78	132.10	129.76	671.05	-208.26	875.62	729.96	145.66	6.012	
5,800.00	5,781.20	5,755.25	5,754.31	17.16	134.26	130.28	671.74	-208.26	883.05	734.91	148.14	5.961	
5,900.00	5,880.65	5,857.42	5,856.48	17.54	136.45	130.81	671.46	-208.26	889.58	738.93	150.66	5.905	
6,000.00	5,980.11	5,953.13	5,952.11	17.93	138.53	131.30	671.05	-208.26	896.06	742.99	153.07	5.854	
6,100.00	6,079.56	6,052.58	6,051.56	18.31	140.81	131.79	671.05	-208.26	903.01	747.33	155.68	5.800	
6,200.00	6,179.01	6,152.04	6,151.01	18.70	143.08	132.28	671.05	-208.26	910.03	751.74	158.29	5.749	
6,300.00	6,278.46	6,254.92	6,253.87	19.08	145.44	132.77	672.56	-208.26	918.61	757.62	160.99	5.706	
6,400.00	6,377.92	6,359.43	6,358.36	19.47	147.83	133.27	671.88	-208.26	925.12	761.39	163.73	5.650	
6,500.00	6,477.37	6,450.52	6,449.37	19.86	149.89	133.71	671.05	-208.26	931.47	765.34	166.14	5.607	
6,568.84	6,545.83	6,518.98	6,517.83	20.11	151.37	134.02	671.05	-208.26	936.47	768.63	167.85	5.579	
6,600.00	6,576.83	6,549.98	6,548.83	20.23	152.04	134.18	671.05	-208.26	938.66	770.04	168.61	5.567	
6,700.00	6,676.48	6,649.63	6,648.48	20.61	154.19	134.61	671.05	-208.26	944.50	773.40	171.10	5.520	
6,800.00	6,776.32	6,753.21	6,752.05	20.95	156.43	134.90	671.81	-208.26	949.28	775.65	173.63	5.467	
6,900.00	6,876.26	6,857.06	6,855.89	21.26	158.67	135.06	671.18	-208.26	950.88	774.77	176.11	5.399	
6,968.74	6,945.00	6,918.23	6,917.00	21.35	159.92	10.75	671.05	-208.26	951.17	773.73	177.43	5.361	
7,000.00	6,976.26	6,949.49	6,948.26	21.36	160.55	10.75	671.05	-208.26	951.17	773.11	178.06	5.342	
7,100.00	7,076.26	7,049.49	7,048.26	21.39	162.55	10.75	671.05	-208.26	951.17	771.06	180.10	5.281	
7,200.00	7,176.26	7,152.34	7,151.09	21.42	164.60	10.74	672.16	-208.26	952.26	770.05	182.20	5.226	
7,300.00	7,276.26	7,257.25	7,255.99	21.45	166.70	10.74	671.57	-208.26	951.70	767.36	184.34	5.163	
7,400.00	7,376.26	7,349.55	7,348.26	21.49	168.58	10.75	671.05	-208.26	951.17	764.91	186.26	5.107	
7,500.00	7,476.26	7,449.55	7,448.26	21.52	170.65	10.75	671.05	-208.26	951.17	762.79	188.38	5.049	
7,600.00	7,576.26	7,549.55	7,548.26	21.56	172.73	10.75	671.05	-208.26	951.17	760.67	190.50	4.993	
7,700.00	7,676.26	7,649.94	7,648.65	21.59	174.81	10.74	671.72	-208.26	951.82	759.20	192.62	4.941	
7,800.00	7,776.26	7,751.28	7,749.99	21.62	176.91	10.74	671.61	-208.26	951.71	756.94	194.77	4.886	
7,900.00	7,876.26	7,852.62	7,851.33	21.66	179.02	10.75	671.35	-208.26	951.46	754.54	196.92	4.832	
8,000.00	7,976.26	7,949.60	7,948.26	21.69	180.97	10.75	671.05	-208.26	951.17	752.25	198.91	4.782	
8,100.00	8,076.26	8,049.60	8,048.26	21.73	182.74	10.75	671.05	-208.26	951.17	750.43	200.73	4.738	
8,200.00	8,176.26	8,154.55	8,153.20	21.77	184.61	10.74	671.44	-208.26	951.56	748.92	202.64	4.696	
8,300.00	8,276.26	8,249.62	8,248.26	21.80	186.29	10.75	671.05	-208.26	951.17	746.80	204.37	4.654	
8,400.00	8,376.26	8,349.62	8,348.26	21.84	188.05	10.75	671.05	-208.26	951.17	745.00	206.17	4.614	
8,500.00	8,476.26	8,449.83	8,448.47	21.87	189.81	10.75	671.29	-208.26	951.40	743.42	207.98	4.575	
8,600.00	8,576.26	8,550.77	8,549.41	21.91	191.58	10.75	671.21	-208.26	951.33	741.53	209.80	4.534	
8,700.00	8,676.26	8,649.64	8,648.26	21.95	193.33	10.75	671.05	-208.26	951.17	739.57	211.59	4.495	
8,800.00	8,776.26	8,749.64	8,748.26	21.98	195.27	10.75	671.05	-208.26	951.17	737.59	213.58	4.453	
8,900.00	8,876.26	8,849.64	8,848.26	22.02	197.21	10.75	671.05	-208.26	951.17	735.60	215.57	4.412	
9,000.00	8,976.26	8,951.57	8,950.19	22.06	199.19	10.74	671.74	-208.26	951.84	734.25	217.59	4.374	
9,100.00	9,076.26	9,054.29	9,052.90	22.10	201.19	10.75	671.38	-208.26	951.50	731.86	219.64	4.332	
9,200.00	9,176.26	9,149.68	9,148.26	22.13	203.08	10.75	671.05	-208.26	951.17	729.59	221.58	4.293	
9,300.00	9,276.26	9,249.68	9,248.26	22.17	205.13	10.75	671.05	-208.26	951.17	727.49	223.67	4.252	
9,400.00	9,376.26	9,352.55	9,351.13	22.21	207.24	10.74	671.47	-208.26	951.58	725.75	225.83	4.214	
9,500.00	9,476.26	9,449.73	9,448.26	22.25	209.23	10.75	671.05	-208.26	951.17	723.29	227.87	4.174	
9,600.00	9,576.26	9,549.73	9,548.26	22.29	211.35	10.75	671.05	-208.26	951.17	721.12	230.04	4.135	
9,700.00	9,676.26	9,655.80	9,654.32	22.33	213.60	10.74	671.53	-208.26	951.66	719.32	232.34	4.096	
9,800.00	9,776.26	9,749.78	9,748.26	22.37	215.70	10.75	671.05	-208.26	951.17	716.68	234.49	4.056	
9,900.00	9,876.26	9,849.78	9,848.26	22.41	218.10	10.75	671.05	-208.26	951.17	714.24	236.93	4.015	

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Offsets - Sherry M State #001 (P&A) - OH - OH

Survey Program: Reference		397-INC-ONLY						Rule Assigned:				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,973.78	9,950.04	9,923.56	9,922.04	22.43	219.86	10.75	671.05	-208.26	951.17	712.44	238.72	3.984	
10,000.00	9,976.25	9,949.77	9,948.25	22.42	220.49	18.88	671.05	-208.26	950.60	711.26	239.33	3.972	
10,050.00	10,026.04	9,999.56	9,998.04	22.37	221.68	19.11	671.05	-208.26	946.38	705.89	240.48	3.935	
10,100.00	10,075.24	10,048.76	10,047.24	22.31	222.86	19.56	671.05	-208.26	938.07	696.46	241.61	3.883	
10,150.00	10,123.50	10,097.73	10,096.20	22.24	224.03	20.25	672.59	-208.26	927.27	684.53	242.74	3.820	
10,200.00	10,170.43	10,145.71	10,144.17	22.17	225.18	21.25	672.52	-208.26	911.00	667.15	243.85	3.736	
10,250.00	10,215.69	10,191.93	10,190.38	22.10	226.29	22.57	672.41	-208.26	890.94	646.01	244.93	3.638	
10,300.00	10,258.92	10,236.01	10,234.47	22.04	227.34	24.30	672.25	-208.26	867.29	621.32	245.97	3.526	
10,350.00	10,299.80	10,277.62	10,276.07	21.98	228.34	26.49	672.05	-208.26	840.28	593.30	246.98	3.402	
10,400.00	10,338.02	10,316.43	10,314.89	21.94	229.27	29.28	671.83	-208.26	810.17	562.23	247.94	3.268	
10,450.00	10,373.29	10,352.16	10,350.61	21.91	230.13	32.78	671.59	-208.26	777.30	528.43	248.86	3.123	
10,500.00	10,405.34	10,384.51	10,382.96	21.90	230.90	37.16	671.35	-208.26	741.99	492.25	249.74	2.971	
10,550.00	10,433.92	10,413.26	10,411.70	21.92	231.59	42.56	671.12	-208.26	704.65	454.09	250.56	2.812	
10,600.00	10,458.82	10,432.48	10,430.82	21.96	232.02	48.53	671.05	-208.26	665.83	414.67	251.16	2.651	
10,650.00	10,479.85	10,453.51	10,451.85	22.02	232.46	55.96	671.05	-208.26	625.96	374.11	251.84	2.485	
10,700.00	10,496.85	10,470.50	10,468.85	22.12	232.82	64.16	671.05	-208.26	585.46	332.96	252.50	2.319	
10,750.00	10,509.68	10,483.34	10,481.68	22.25	233.09	72.57	671.05	-208.26	544.93	291.79	253.15	2.153	
10,800.00	10,518.25	10,491.91	10,490.25	22.41	233.27	80.49	671.05	-208.26	505.03	251.25	253.78	1.990	Collision Risk Procedures Req.
10,850.00	10,522.50	10,496.16	10,494.50	22.60	233.36	87.29	671.05	-208.26	466.49	212.10	254.39	1.834	Collision Risk Procedures Req.
10,873.78	10,523.00	10,496.66	10,495.00	22.70	233.37	90.00	671.05	-208.26	448.88	194.20	254.68	1.763	Collision Risk Procedures Req.
10,900.00	10,523.00	10,496.66	10,495.00	22.82	233.37	90.00	671.05	-208.26	430.06	175.06	255.00	1.686	Collision Risk Procedures Req.
11,000.00	10,523.00	10,496.66	10,495.00	23.33	233.37	90.00	671.05	-208.26	364.89	108.61	256.28	1.424	Collision Risk Procedures Req.
11,100.00	10,523.00	10,496.66	10,495.00	23.90	233.37	90.00	671.05	-208.26	315.07	57.80	257.27	1.225	Collision Risk Procedures Req.
11,200.00	10,523.00	10,496.66	10,495.00	24.53	233.37	90.00	671.05	-208.26	288.75	31.55	257.20	1.123	Collision Risk Procedures Req.
11,238.32	10,523.00	10,496.66	10,495.00	24.77	233.37	90.00	671.05	-208.26	286.46	29.73	256.73	1.116	Collision Risk Procedures Req., CC
11,255.02	10,523.00	10,496.66	10,495.00	24.88	233.37	90.00	671.05	-208.26	286.89	30.45	256.44	1.119	Collision Risk Procedures Req.
11,300.00	10,523.00	10,496.66	10,495.00	25.17	233.37	90.00	671.05	-208.26	292.72	37.22	255.50	1.146	Collision Risk Procedures Req.
11,400.00	10,523.00	10,496.66	10,495.00	25.87	233.37	90.00	671.05	-208.26	328.16	75.10	253.05	1.297	Collision Risk Procedures Req.
11,500.00	10,523.00	10,496.66	10,495.00	26.63	233.37	90.00	671.05	-208.26	386.90	135.84	251.06	1.541	Collision Risk Procedures Req.
11,600.00	10,523.00	10,496.66	10,495.00	27.44	233.37	90.00	671.05	-208.26	460.10	210.27	249.83	1.842	Collision Risk Procedures Req.
11,700.00	10,523.00	10,496.66	10,495.00	28.30	233.37	90.00	671.05	-208.26	541.94	292.77	249.17	2.175	
11,800.00	10,523.00	10,496.66	10,495.00	29.21	233.37	90.00	671.05	-208.26	629.05	380.19	248.86	2.528	
11,900.00	10,523.00	10,496.66	10,495.00	30.15	233.37	90.00	671.05	-208.26	719.52	470.79	248.73	2.893	
12,000.00	10,523.00	10,496.66	10,495.00	31.14	233.37	90.00	671.05	-208.26	812.22	563.53	248.70	3.266	
12,100.00	10,523.00	10,496.66	10,495.00	32.16	233.37	90.00	671.05	-208.26	906.48	657.76	248.73	3.644	

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Offsets - State HQ #007 (P&A) - OH - OH

Survey Program:		333-INC-ONLY							Rule Assigned:				Offset Well Error:	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance	Between		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
11,300.00	10,523.00	10,501.47	10,500.23	25.17	221.93	90.86	1,661.30	-220.39	972.28	730.43	241.85	4.020		
11,400.00	10,523.00	10,501.00	10,499.77	25.87	221.91	90.76	1,661.30	-220.39	877.08	634.69	242.39	3.618		
11,500.00	10,523.00	10,500.54	10,499.30	26.63	221.90	90.67	1,661.31	-220.39	783.08	539.99	243.09	3.221		
11,600.00	10,523.00	10,500.08	10,498.84	27.44	221.89	90.58	1,661.31	-220.39	690.76	446.78	243.98	2.831		
11,700.00	10,523.00	10,499.62	10,498.38	28.30	221.88	90.48	1,661.31	-220.39	600.90	355.76	245.15	2.451		
11,800.00	10,523.00	10,499.16	10,497.93	29.21	221.87	90.39	1,661.31	-220.39	514.80	268.11	246.69	2.087		
11,900.00	10,523.00	10,498.71	10,497.48	30.15	221.86	90.30	1,661.32	-220.39	434.70	185.97	248.73	1.748	Collision Risk Procedures Req.	
12,000.00	10,523.00	10,498.27	10,497.03	31.14	221.84	90.21	1,661.32	-220.39	364.55	113.32	251.23	1.451	Collision Risk Procedures Req.	
12,100.00	10,523.00	10,497.82	10,496.59	32.16	221.83	90.12	1,661.32	-220.39	311.18	57.47	253.71	1.227	Collision Risk Procedures Req.	
12,200.00	10,523.00	10,497.38	10,496.15	33.21	221.82	90.03	1,661.32	-220.39	284.20	29.48	254.72	1.116	Collision Risk Procedures Req.	
12,230.32	10,523.00	10,497.25	10,496.02	33.54	221.82	90.00	1,661.32	-220.39	282.58	28.10	254.48	1.110	Collision Risk Procedures Req., CC	
12,300.00	10,523.00	10,496.95	10,495.71	34.30	221.81	89.94	1,661.32	-220.39	291.04	38.13	252.91	1.151	Collision Risk Procedures Req.	
12,400.00	10,523.00	10,496.51	10,495.28	35.41	221.80	89.85	1,661.32	-220.39	329.61	80.33	249.28	1.322	Collision Risk Procedures Req.	
12,500.00	10,523.00	10,496.08	10,494.85	36.54	221.79	89.77	1,661.33	-220.39	390.61	144.84	245.77	1.589	Collision Risk Procedures Req.	
12,600.00	10,523.00	10,495.65	10,494.42	37.70	221.78	89.68	1,661.33	-220.39	465.31	222.12	243.19	1.913	Collision Risk Procedures Req.	
12,700.00	10,523.00	10,495.23	10,493.99	38.88	221.76	89.59	1,661.33	-220.39	548.13	306.65	241.48	2.270		
12,800.00	10,523.00	10,494.81	10,493.57	40.07	221.75	89.51	1,661.33	-220.39	635.91	395.53	240.38	2.645		
12,900.00	10,523.00	10,494.39	10,493.15	41.28	221.74	89.42	1,661.33	-220.39	726.85	487.18	239.67	3.033		
13,000.00	10,523.00	10,493.97	10,492.74	42.51	221.73	89.34	1,661.34	-220.39	819.91	580.68	239.23	3.427		
13,100.00	10,523.00	10,493.56	10,492.32	43.76	221.72	89.26	1,661.34	-220.39	914.43	675.48	238.95	3.827		

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Offsets - State HQ #008 - OH - OH

Survey Program: 312-INC-ONLY										Rule Assigned:		Offset Site Error: 0.00 usft	
Reference										Distance		Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,600.00	10,523.00	10,499.48	10,497.27	37.70	233.23	90.06	2,983.34	-232.65	993.07	737.03	256.04	3.879	
12,700.00	10,523.00	10,499.44	10,497.24	38.88	233.23	90.05	2,983.34	-232.65	897.61	640.58	257.03	3.492	
12,800.00	10,523.00	10,499.40	10,497.20	40.07	233.23	90.04	2,983.34	-232.65	803.26	544.97	258.29	3.110	
12,900.00	10,523.00	10,499.37	10,497.17	41.28	233.23	90.03	2,983.34	-232.65	710.45	450.56	259.90	2.734	
13,000.00	10,523.00	10,499.33	10,497.13	42.51	233.23	90.03	2,983.34	-232.65	619.89	357.90	261.99	2.366	
13,100.00	10,523.00	10,499.30	10,497.10	43.76	233.22	90.02	2,983.34	-232.65	532.72	267.95	264.77	2.012	
13,200.00	10,523.00	10,499.27	10,497.07	45.01	233.22	90.01	2,983.34	-232.65	450.90	182.46	268.44	1.680	Collision Risk Procedures Req.
13,300.00	10,523.00	10,499.24	10,497.04	46.28	233.22	90.01	2,983.34	-232.65	377.93	104.80	273.12	1.384	Collision Risk Procedures Req.
13,400.00	10,523.00	10,499.21	10,497.01	47.56	233.22	90.00	2,983.34	-232.65	319.92	41.58	278.34	1.149	Collision Risk Procedures Req.
13,500.00	10,523.00	10,499.18	10,496.98	48.84	233.22	90.00	2,983.34	-232.65	286.13	4.09	282.03	1.015	Collision Risk Procedures Req.
13,552.39	10,523.00	10,499.17	10,496.97	49.52	233.22	89.99	2,983.34	-232.65	281.29	-1.00	282.29	0.996	Collision Risk Procedures Req., CC
13,600.00	10,523.00	10,499.15	10,496.95	50.14	233.22	89.99	2,983.34	-232.65	285.29	4.04	281.25	1.014	Collision Risk Procedures Req.
13,700.00	10,523.00	10,499.13	10,496.93	51.45	233.22	89.99	2,983.34	-232.65	317.66	41.46	276.21	1.150	Collision Risk Procedures Req.
13,800.00	10,523.00	10,499.10	10,496.90	52.76	233.22	89.98	2,983.34	-232.65	374.74	104.60	270.14	1.387	Collision Risk Procedures Req.
13,900.00	10,523.00	10,499.08	10,496.88	54.08	233.22	89.97	2,983.34	-232.65	447.16	182.10	265.06	1.687	Collision Risk Procedures Req.
14,000.00	10,523.00	10,499.05	10,496.85	55.41	233.22	89.97	2,983.34	-232.65	528.65	267.34	261.32	2.023	
14,100.00	10,523.00	10,499.03	10,496.83	56.74	233.22	89.96	2,983.34	-232.65	615.62	356.97	258.66	2.380	
14,200.00	10,523.00	10,499.01	10,496.80	58.08	233.22	89.96	2,983.34	-232.65	706.06	449.27	256.78	2.750	
14,300.00	10,523.00	10,498.98	10,496.78	59.43	233.21	89.96	2,983.34	-232.65	798.77	543.31	255.46	3.127	
14,400.00	10,523.00	10,498.96	10,496.76	60.78	233.21	89.95	2,983.34	-232.65	893.06	638.55	254.51	3.509	
14,500.00	10,523.00	10,498.94	10,496.74	62.13	233.21	89.95	2,983.34	-232.65	988.47	734.64	253.83	3.894	

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Offsets - Tin Cup 36 State Com 2H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 96-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,300.00	9,276.26	15,532.13	9,827.70	22.17	145.24	-179.54	-1,016.21	-391.73	949.13	811.85	137.28	6.914	
9,400.00	9,376.26	15,535.42	9,827.80	22.21	145.32	-179.29	-1,016.11	-395.02	891.76	748.06	143.70	6.206	
9,500.00	9,476.26	15,538.74	9,827.91	22.25	145.41	-179.04	-1,016.00	-398.33	842.38	692.45	149.93	5.618	
9,600.00	9,576.26	15,542.08	9,828.02	22.29	145.49	-178.78	-1,015.89	-401.67	802.46	646.93	155.53	5.160	
9,700.00	9,676.26	15,545.27	9,828.12	22.33	145.57	-178.54	-1,015.78	-404.85	773.47	613.55	159.93	4.836	
9,800.00	9,776.26	15,548.49	9,828.22	22.37	145.64	-178.29	-1,015.67	-408.08	756.67	594.08	162.59	4.654	
9,878.64	9,854.91	15,551.03	9,828.31	22.40	145.71	-178.10	-1,015.59	-410.61	752.58	589.36	163.22	4.611	CC, ES, SF
9,900.00	9,876.26	15,551.72	9,828.33	22.41	145.72	-178.05	-1,015.57	-411.30	752.88	589.73	163.16	4.615	
9,973.78	9,950.04	15,554.10	9,828.41	22.43	145.78	-177.87	-1,015.49	-413.68	758.56	596.41	162.15	4.678	
10,000.00	9,976.25	15,555.05	9,828.44	22.42	145.80	-169.62	-1,015.46	-414.63	762.87	601.37	161.50	4.724	
10,050.00	10,026.04	15,557.44	9,828.51	22.37	145.86	-169.17	-1,015.38	-417.01	776.63	616.67	159.96	4.855	
10,100.00	10,075.24	15,560.55	9,828.61	22.31	145.94	-168.48	-1,015.27	-420.12	797.21	639.09	158.12	5.042	
10,150.00	10,123.50	15,564.37	9,828.74	22.24	146.03	-167.50	-1,015.15	-423.94	823.96	667.79	156.17	5.276	
10,200.00	10,170.43	15,568.87	9,828.88	22.17	146.14	-166.14	-1,015.00	-428.43	856.10	701.85	154.25	5.550	
10,250.00	10,215.69	15,574.01	9,829.05	22.10	146.27	-164.26	-1,014.83	-433.57	892.79	740.31	152.48	5.855	
10,300.00	10,258.92	15,579.76	9,829.23	22.04	146.41	-161.64	-1,014.64	-439.31	933.24	782.28	150.96	6.182	
10,350.00	10,299.80	15,586.07	9,829.44	21.98	146.56	-157.85	-1,014.43	-445.62	976.67	826.94	149.73	6.523	

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Pad - Gold State Com 301H - OH - Plan 1

Survey Program: 0-MWD+HDGM														Offset Site Error: 0.00 usft		
Reference				Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
0.00	0.00	0.00	0.00	0.00	0.00	-89.31	0.30	-25.00	25.00							
100.00	100.00	100.00	100.00	0.79	0.79	-89.31	0.30	-25.00	25.00	23.42	1.58	15.782				
200.00	200.00	200.00	200.00	1.45	1.45	-89.31	0.30	-25.00	25.00	22.10	2.90	8.624				
300.00	300.00	300.00	300.00	1.89	1.89	-89.31	0.30	-25.00	25.00	21.21	3.79	6.599				
400.00	400.00	400.00	400.00	2.26	2.26	-89.31	0.30	-25.00	25.00	20.49	4.51	5.541				
500.00	500.00	500.00	500.00	2.57	2.57	-89.31	0.30	-25.00	25.00	19.86	5.14	4.865				
600.00	600.00	600.00	600.00	2.85	2.85	-89.31	0.30	-25.00	25.00	19.30	5.70	4.384				
700.00	700.00	700.00	700.00	3.11	3.11	-89.31	0.30	-25.00	25.00	18.78	6.22	4.020				
800.00	800.00	800.00	800.00	3.35	3.35	-89.31	0.30	-25.00	25.00	18.30	6.70	3.731				
900.00	900.00	900.00	900.00	3.58	3.58	-89.31	0.30	-25.00	25.00	17.85	7.15	3.495				
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	-89.31	0.30	-25.00	25.00	17.42	7.58	3.297				
1,100.00	1,100.00	1,100.00	1,100.00	4.00	4.00	-89.31	0.30	-25.00	25.00	17.01	7.99	3.128				
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	-89.31	0.30	-25.00	25.00	16.62	8.38	2.982				
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	-89.31	0.30	-25.00	25.00	16.24	8.76	2.853				
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	-89.31	0.30	-25.00	25.00	15.87	9.13	2.739				
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	-89.31	0.30	-25.00	25.00	15.52	9.48	2.637				
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	-89.31	0.30	-25.00	25.00	15.18	9.83	2.545				
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	-89.31	0.30	-25.00	25.00	14.84	10.16	2.461				
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	-89.31	0.30	-25.00	25.00	14.51	10.49	2.384				
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	-89.31	0.30	-25.00	25.00	14.20	10.81	2.314				
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	-89.31	0.30	-25.00	25.00	13.88	11.12	2.248	CC, ES, SF			
2,100.00	2,100.00	2,099.42	2,099.41	5.71	5.73	-90.75	-0.34	-26.12	26.13	14.70	11.43	2.286				
2,200.00	2,199.99	2,198.75	2,198.66	5.88	5.90	31.23	-2.27	-29.49	28.48	16.74	11.74	2.426				
2,300.00	2,299.91	2,298.03	2,297.72	6.04	6.08	29.58	-5.47	-35.09	30.94	18.90	12.05	2.569				
2,400.00	2,399.69	2,397.23	2,396.51	6.22	6.28	28.52	-9.95	-42.91	33.50	21.12	12.38	2.706				
2,499.90	2,499.17	2,496.52	2,495.14	6.41	6.43	27.98	-15.64	-52.87	36.03	23.35	12.68	2.842				
2,600.00	2,598.72	2,596.60	2,594.48	6.60	6.64	28.06	-21.70	-63.46	38.00	24.94	13.06	2.911				
2,700.00	2,698.17	2,696.59	2,693.71	6.81	6.87	28.13	-27.75	-74.03	39.96	26.50	13.47	2.968				
2,800.00	2,797.63	2,796.57	2,792.95	7.03	7.13	28.20	-33.80	-84.61	41.93	28.02	13.91	3.015				
2,900.00	2,897.08	2,896.55	2,892.18	7.27	7.39	28.26	-39.85	-95.18	43.89	29.52	14.37	3.054				
3,000.00	2,996.53	2,996.53	2,991.42	7.52	7.67	28.32	-45.90	-105.76	45.85	30.99	14.86	3.085				
3,100.00	3,095.98	3,096.51	3,090.65	7.79	7.97	28.37	-51.95	-116.33	47.82	32.44	15.38	3.110				
3,200.00	3,195.44	3,196.49	3,189.89	8.06	8.27	28.42	-58.00	-126.91	49.78	33.87	15.91	3.129				
3,300.00	3,294.89	3,296.47	3,289.13	8.35	8.59	28.46	-64.05	-137.48	51.74	35.28	16.46	3.144				
3,400.00	3,394.34	3,396.45	3,388.36	8.65	8.91	28.50	-70.10	-148.06	53.71	36.68	17.03	3.154				
3,500.00	3,493.79	3,496.43	3,487.60	8.95	9.24	28.54	-76.15	-158.63	55.67	38.06	17.61	3.162				
3,600.00	3,593.25	3,596.41	3,586.83	9.27	9.58	28.57	-82.20	-169.21	57.64	39.43	18.20	3.166				
3,700.00	3,692.70	3,696.39	3,686.07	9.59	9.92	28.61	-88.25	-179.78	59.60	40.79	18.81	3.169				
3,800.00	3,792.15	3,796.37	3,785.30	9.91	10.27	28.64	-94.30	-190.36	61.56	42.14	19.43	3.169				
3,900.00	3,891.60	3,896.35	3,884.54	10.24	10.62	28.67	-100.35	-200.93	63.53	43.47	20.05	3.168				
4,000.00	3,991.06	3,996.33	3,983.78	10.58	10.98	28.69	-106.40	-211.51	65.49	44.80	20.69	3.165				
4,100.00	4,090.51	4,096.32	4,083.01	10.92	11.35	28.72	-112.45	-222.08	67.45	46.12	21.33	3.162				
4,200.00	4,189.96	4,196.30	4,182.25	11.27	11.71	28.74	-118.50	-232.66	69.42	47.43	21.98	3.158				
4,300.00	4,289.41	4,296.28	4,281.48	11.62	12.09	28.77	-124.55	-243.23	71.38	48.74	22.64	3.152				
4,400.00	4,388.87	4,396.26	4,380.72	11.97	12.46	28.79	-130.60	-253.81	73.35	50.04	23.31	3.147				
4,500.00	4,488.32	4,496.24	4,479.95	12.33	12.84	28.81	-136.65	-264.38	75.31	51.33	23.98	3.141				
4,600.00	4,587.77	4,596.22	4,579.19	12.69	13.22	28.83	-142.70	-274.96	77.27	52.62	24.65	3.135				
4,700.00	4,687.22	4,696.20	4,678.42	13.05	13.60	28.84	-148.75	-285.53	79.24	53.90	25.33	3.128				
4,800.00	4,786.68	4,796.18	4,777.66	13.41	13.98	28.86	-154.80	-296.11	81.20	55.18	26.02	3.121				
4,900.00	4,886.13	4,896.16	4,876.90	13.78	14.37	28.88	-160.85	-306.68	83.16	56.46	26.70	3.114				
5,000.00	4,985.58	4,996.14	4,976.13	14.15	14.75	28.89	-166.90	-317.26	85.13	57.73	27.40	3.107				
5,100.00	5,085.03	5,096.12	5,075.37	14.52	15.14	28.91	-172.95	-327.83	87.09	59.00	28.09	3.100				

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Pad - Gold State Com 301H - OH - Plan 1													Offset Site Error:
Survey Program: 0-MWD+HDGM													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)												
5,200.00	5,184.49	5,196.10	5,174.60	14.89	15.54	28.92	-179.00	-338.41	89.06	60.27	28.79	3.093	
5,300.00	5,283.94	5,296.08	5,273.84	15.27	15.93	28.94	-185.05	-348.98	91.02	61.53	29.49	3.086	
5,400.00	5,383.39	5,396.06	5,373.07	15.64	16.32	28.95	-191.10	-359.56	92.98	62.79	30.20	3.079	
5,500.00	5,482.84	5,496.05	5,472.31	16.02	16.72	28.96	-197.15	-370.13	94.95	64.04	30.90	3.072	
5,600.00	5,582.30	5,596.03	5,571.55	16.40	17.11	28.98	-203.20	-380.71	96.91	65.30	31.61	3.066	
5,700.00	5,681.75	5,696.01	5,670.78	16.78	17.51	28.99	-209.25	-391.28	98.88	66.55	32.33	3.059	
5,800.00	5,781.20	5,795.99	5,770.02	17.16	17.91	29.00	-215.30	-401.86	100.84	67.80	33.04	3.052	
5,900.00	5,880.65	5,895.97	5,869.25	17.54	18.31	29.01	-221.35	-412.43	102.80	69.05	33.75	3.046	
6,000.00	5,980.11	5,995.95	5,968.49	17.93	18.71	29.02	-227.40	-423.01	104.77	70.30	34.47	3.039	
6,100.00	6,079.56	6,095.93	6,067.72	18.31	19.11	29.03	-233.45	-433.59	106.73	71.54	35.19	3.033	
6,200.00	6,179.01	6,195.91	6,166.96	18.70	19.52	29.04	-239.50	-444.16	108.70	72.78	35.91	3.027	
6,300.00	6,278.46	6,295.89	6,266.19	19.08	19.92	29.05	-245.55	-454.74	110.66	74.02	36.64	3.021	
6,400.00	6,377.92	6,397.01	6,366.58	19.47	20.31	29.11	-251.55	-465.23	112.42	75.08	37.33	3.011	
6,500.00	6,477.37	6,499.74	6,468.83	19.86	20.71	29.65	-256.52	-473.92	112.15	74.21	37.95	2.955	
6,568.84	6,545.83	6,570.41	6,539.30	20.11	20.97	30.39	-259.15	-478.51	110.57	72.31	38.26	2.890	
6,600.00	6,576.83	6,602.38	6,571.20	20.23	21.09	30.78	-260.12	-480.22	109.59	71.22	38.37	2.856	
6,700.00	6,676.48	6,704.88	6,673.61	20.61	21.43	32.04	-262.36	-484.12	106.39	67.70	38.69	2.750	
6,800.00	6,776.32	6,807.28	6,775.98	20.95	21.69	33.30	-263.22	-485.64	103.07	64.19	38.88	2.651	
6,900.00	6,876.26	6,907.56	6,876.26	21.26	21.72	34.25	-263.24	-485.66	100.51	61.57	38.94	2.581	
6,968.74	6,945.00	6,976.29	6,945.00	21.35	21.75	-89.89	-263.24	-485.66	100.00	61.01	38.99	2.565	
7,000.00	6,976.26	7,007.56	6,976.26	21.36	21.76	-89.89	-263.24	-485.66	100.00	61.00	39.00	2.564	
7,100.00	7,076.26	7,107.56	7,076.26	21.39	21.79	-89.89	-263.24	-485.66	100.00	60.93	39.08	2.559	
7,200.00	7,176.26	7,207.56	7,176.26	21.42	21.82	-89.89	-263.24	-485.66	100.00	60.85	39.15	2.555	
7,300.00	7,276.26	7,307.56	7,276.26	21.45	21.86	-89.89	-263.24	-485.66	100.00	60.78	39.22	2.550	
7,400.00	7,376.26	7,407.56	7,376.26	21.49	21.89	-89.89	-263.24	-485.66	100.00	60.71	39.29	2.545	
7,500.00	7,476.26	7,507.56	7,476.26	21.52	21.92	-89.89	-263.24	-485.66	100.00	60.64	39.36	2.540	
7,600.00	7,576.26	7,607.56	7,576.26	21.56	21.96	-89.89	-263.24	-485.66	100.00	60.56	39.44	2.536	
7,700.00	7,676.26	7,707.56	7,676.26	21.59	21.99	-89.89	-263.24	-485.66	100.00	60.49	39.51	2.531	
7,800.00	7,776.26	7,807.56	7,776.26	21.62	22.03	-89.89	-263.24	-485.66	100.00	60.41	39.59	2.526	
7,900.00	7,876.26	7,907.56	7,876.26	21.66	22.06	-89.89	-263.24	-485.66	100.00	60.34	39.66	2.521	
8,000.00	7,976.26	8,007.56	7,976.26	21.69	22.10	-89.89	-263.24	-485.66	100.00	60.26	39.74	2.516	
8,100.00	8,076.26	8,107.56	8,076.26	21.73	22.14	-89.89	-263.24	-485.66	100.00	60.19	39.81	2.512	
8,200.00	8,176.26	8,207.56	8,176.26	21.77	22.17	-89.89	-263.24	-485.66	100.00	60.11	39.89	2.507	
8,300.00	8,276.26	8,307.56	8,276.26	21.80	22.21	-89.89	-263.24	-485.66	100.00	60.03	39.97	2.502	
8,400.00	8,376.26	8,407.56	8,376.26	21.84	22.24	-89.89	-263.24	-485.66	100.00	59.95	40.05	2.497	
8,500.00	8,476.26	8,507.56	8,476.26	21.87	22.28	-89.89	-263.24	-485.66	100.00	59.88	40.12	2.492	
8,600.00	8,576.26	8,607.56	8,576.26	21.91	22.32	-89.89	-263.24	-485.66	100.00	59.80	40.20	2.487	
8,610.00	8,586.26	8,617.56	8,586.26	21.91	22.32	-89.89	-263.24	-485.66	100.00	59.79	40.21	2.487	
8,700.00	8,676.26	8,707.19	8,675.77	21.95	22.28	-87.92	-259.79	-485.69	100.10	60.28	39.81	2.514	
8,800.00	8,776.26	8,803.07	8,769.76	21.98	22.14	-77.60	-241.39	-485.85	102.78	65.44	37.34	2.753	
8,900.00	8,876.26	8,890.69	8,851.87	22.02	21.99	-62.48	-211.09	-486.10	115.85	82.32	33.53	3.455	
9,000.00	8,976.26	8,967.59	8,919.42	22.06	21.87	-48.55	-174.45	-486.41	145.94	115.01	30.93	4.718	
9,100.00	9,076.26	9,033.38	8,972.87	22.10	21.79	-38.46	-136.16	-486.73	192.62	162.28	30.34	6.348	
9,200.00	9,176.26	9,088.91	9,014.33	22.13	21.73	-31.70	-99.25	-487.05	251.90	221.20	30.71	8.204	
9,300.00	9,276.26	9,135.59	9,046.28	22.17	21.70	-27.16	-65.24	-487.33	320.17	288.85	31.32	10.222	
9,400.00	9,376.26	9,174.88	9,070.96	22.21	21.68	-24.02	-34.67	-487.59	394.88	362.92	31.96	12.356	
9,500.00	9,476.26	9,200.00	9,085.61	22.25	21.68	-22.28	-14.27	-487.76	474.46	441.82	32.64	14.538	
9,600.00	9,576.26	9,236.43	9,105.24	22.29	21.68	-20.09	16.41	-488.02	557.36	524.23	33.13	16.825	
9,700.00	9,676.26	9,250.00	9,112.05	22.33	21.69	-19.36	28.15	-488.12	643.31	609.59	33.72	19.079	
9,800.00	9,776.26	9,281.70	9,126.85	22.37	21.71	-17.81	56.17	-488.36	731.04	696.88	34.16	21.403	
9,900.00	9,876.26	9,300.00	9,134.69	22.41	21.73	-17.01	72.71	-488.50	820.67	786.03	34.63	23.696	
9,973.78	9,950.04	9,300.00	9,134.69	22.43	21.73	-17.01	72.71	-488.50	887.90	852.89	35.01	25.360	

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Pad - Gold State Com 301H - OH - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,000.00	9,976.25	9,316.21	9,141.18	22.42	21.75	-7.49	87.56	-488.62	911.43	876.34	35.09	25.975	
10,050.00	10,026.04	9,325.01	9,144.53	22.37	21.76	-6.13	95.69	-488.69	955.47	920.14	35.33	27.045	
10,100.00	10,075.24	9,350.00	9,153.36	22.31	21.80	-4.83	119.07	-488.89	998.07	962.53	35.53	28.089	



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Pad - Gold State Com 701H - OH - Plan 1

Survey Program: 0-MWD+HDGM													Offset Site Error: 0.00 usft			
Reference				Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
0.00	0.00	0.00	0.00	0.00	0.00	90.69	-0.30	24.99	24.99							
100.00	100.00	100.00	100.00	0.79	0.79	90.69	-0.30	24.99	24.99	23.41	1.58	15.776				
200.00	200.00	200.00	200.00	1.45	1.45	90.69	-0.30	24.99	24.99	22.09	2.90	8.620				
300.00	300.00	300.00	300.00	1.89	1.89	90.69	-0.30	24.99	24.99	21.20	3.79	6.596				
400.00	400.00	400.00	400.00	2.26	2.26	90.69	-0.30	24.99	24.99	20.48	4.51	5.539				
500.00	500.00	500.00	500.00	2.57	2.57	90.69	-0.30	24.99	24.99	19.85	5.14	4.863				
600.00	600.00	600.00	600.00	2.85	2.85	90.69	-0.30	24.99	24.99	19.29	5.70	4.382				
700.00	700.00	700.00	700.00	3.11	3.11	90.69	-0.30	24.99	24.99	18.77	6.22	4.018				
800.00	800.00	800.00	800.00	3.35	3.35	90.69	-0.30	24.99	24.99	18.29	6.70	3.730				
900.00	900.00	900.00	900.00	3.58	3.58	90.69	-0.30	24.99	24.99	17.84	7.15	3.494				
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	90.69	-0.30	24.99	24.99	17.41	7.58	3.296				
1,100.00	1,100.00	1,100.00	1,100.00	4.00	4.00	90.69	-0.30	24.99	24.99	17.00	7.99	3.127				
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	90.69	-0.30	24.99	24.99	16.61	8.38	2.981				
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	90.69	-0.30	24.99	24.99	16.23	8.76	2.852				
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	90.69	-0.30	24.99	24.99	15.86	9.13	2.738				
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	90.69	-0.30	24.99	24.99	15.51	9.48	2.636				
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	90.69	-0.30	24.99	24.99	15.17	9.83	2.544				
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	90.69	-0.30	24.99	24.99	14.83	10.16	2.460				
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	90.69	-0.30	24.99	24.99	14.50	10.49	2.383				
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	90.69	-0.30	24.99	24.99	14.19	10.81	2.313				
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	90.69	-0.30	24.99	24.99	13.87	11.12	2.248				
2,100.00	2,100.00	2,100.00	2,100.00	5.71	5.71	90.69	-0.30	24.99	24.99	13.57	11.43	2.187	CC, ES, SF			
2,200.00	2,199.99	2,199.90	2,199.89	5.88	5.88	-143.77	-1.60	25.13	26.23	14.52	11.71	2.241				
2,300.00	2,299.91	2,299.69	2,299.60	6.04	6.02	-140.76	-5.49	25.57	30.00	18.05	11.95	2.511				
2,400.00	2,399.69	2,399.27	2,398.96	6.22	6.19	-137.14	-11.95	26.29	36.41	24.21	12.19	2.986				
2,499.90	2,499.17	2,498.66	2,497.99	6.41	6.29	-134.45	-20.40	27.23	45.34	32.95	12.39	3.660				
2,600.00	2,598.72	2,598.26	2,597.21	6.60	6.46	-133.56	-29.03	28.19	55.30	42.65	12.65	4.372				
2,700.00	2,698.17	2,697.76	2,696.34	6.81	6.66	-132.94	-37.64	29.15	65.25	52.33	12.92	5.050				
2,800.00	2,797.63	2,797.27	2,795.46	7.03	6.87	-132.49	-46.26	30.12	75.21	62.00	13.21	5.694				
2,900.00	2,897.08	2,896.77	2,894.58	7.27	7.09	-132.14	-54.87	31.08	85.17	71.66	13.51	6.305				
3,000.00	2,996.53	2,996.27	2,993.70	7.52	7.33	-131.86	-63.49	32.04	95.14	81.32	13.82	6.884				
3,100.00	3,095.98	3,095.77	3,092.83	7.79	7.58	-131.64	-72.11	33.00	105.10	90.96	14.14	7.432				
3,200.00	3,195.44	3,195.27	3,191.95	8.06	7.84	-131.46	-80.72	33.96	115.07	100.60	14.48	7.949				
3,300.00	3,294.89	3,294.77	3,291.07	8.35	8.11	-131.30	-89.34	34.92	125.04	110.22	14.82	8.438				
3,400.00	3,394.34	3,394.27	3,390.20	8.65	8.39	-131.17	-97.95	35.88	135.01	119.84	15.17	8.901				
3,500.00	3,493.79	3,493.77	3,489.32	8.95	8.68	-131.06	-106.57	36.84	144.98	129.45	15.53	9.337				
3,600.00	3,593.25	3,593.28	3,588.44	9.27	8.97	-130.96	-115.18	37.80	154.95	139.06	15.89	9.749				
3,700.00	3,692.70	3,692.78	3,687.56	9.59	9.28	-130.87	-123.80	38.76	164.92	148.65	16.27	10.138				
3,800.00	3,792.15	3,792.28	3,786.69	9.91	9.58	-130.79	-132.42	39.72	174.89	158.25	16.65	10.505				
3,900.00	3,891.60	3,891.78	3,885.81	10.24	9.90	-130.72	-141.03	40.68	184.87	167.83	17.03	10.852				
4,000.00	3,991.06	3,991.28	3,984.93	10.58	10.22	-130.66	-149.65	41.65	194.84	177.41	17.43	11.180				
4,100.00	4,090.51	4,090.78	4,084.06	10.92	10.54	-130.61	-158.26	42.61	204.81	186.99	17.82	11.491				
4,200.00	4,189.96	4,190.28	4,183.18	11.27	10.87	-130.56	-166.88	43.57	214.78	196.56	18.23	11.784				
4,300.00	4,289.41	4,289.79	4,282.30	11.62	11.20	-130.51	-175.50	44.53	224.76	206.12	18.63	12.062				
4,400.00	4,388.87	4,389.29	4,381.43	11.97	11.53	-130.47	-184.11	45.49	234.73	215.69	19.04	12.326				
4,500.00	4,488.32	4,488.79	4,480.55	12.33	11.87	-130.43	-192.73	46.45	244.70	225.24	19.46	12.575				
4,600.00	4,587.77	4,588.29	4,579.67	12.69	12.21	-130.39	-201.34	47.41	254.68	234.80	19.88	12.812				
4,700.00	4,687.22	4,687.79	4,678.79	13.05	12.55	-130.36	-209.96	48.37	264.65	244.35	20.30	13.036				
4,800.00	4,786.68	4,787.29	4,777.92	13.41	12.90	-130.33	-218.57	49.33	274.62	253.90	20.73	13.250				
4,900.00	4,886.13	4,886.79	4,877.04	13.78	13.25	-130.30	-227.19	50.29	284.60	263.44	21.16	13.452				
5,000.00	4,985.58	4,986.29	4,976.16	14.15	13.60	-130.27	-235.81	51.25	294.57	272.98	21.59	13.645				
5,100.00	5,085.03	5,085.80	5,075.29	14.52	13.95	-130.25	-244.42	52.22	304.54	282.52	22.02	13.829				

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



Altitude Energy Partners

Anticollision Report



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Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Pad - Gold State Com 701H - OH - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,184.49	5,186.46	5,175.59	14.89	14.28	-130.26	-252.95	53.17	314.45	292.02	22.43	14.021	
5,300.00	5,283.94	5,289.15	5,278.06	15.27	14.63	-130.63	-259.44	53.89	323.57	300.70	22.87	14.150	
5,400.00	5,383.39	5,391.85	5,380.69	15.64	14.95	-131.43	-263.20	54.31	331.76	308.45	23.30	14.236	
5,500.00	5,482.84	5,494.01	5,482.84	16.02	15.09	-132.63	-264.24	54.43	339.12	315.44	23.68	14.319	
5,600.00	5,582.30	5,593.46	5,582.30	16.40	15.14	-133.89	-264.24	54.43	346.30	322.23	24.07	14.387	
5,700.00	5,681.75	5,692.92	5,681.75	16.78	15.19	-135.11	-264.24	54.43	353.65	329.19	24.46	14.456	
5,800.00	5,781.20	5,792.37	5,781.20	17.16	15.23	-136.28	-264.24	54.43	361.15	336.28	24.87	14.523	
5,900.00	5,880.65	5,891.82	5,880.65	17.54	15.28	-137.40	-264.24	54.43	368.79	343.51	25.28	14.588	
6,000.00	5,980.11	5,991.27	5,980.11	17.93	15.32	-138.47	-264.24	54.43	376.57	350.86	25.71	14.649	
6,100.00	6,079.56	6,090.73	6,079.56	18.31	15.37	-139.50	-264.24	54.43	384.47	358.33	26.14	14.709	
6,200.00	6,179.01	6,190.18	6,179.01	18.70	15.41	-140.49	-264.24	54.43	392.49	365.91	26.58	14.766	
6,300.00	6,278.46	6,289.63	6,278.46	19.08	15.46	-141.44	-264.24	54.43	400.63	373.60	27.03	14.822	
6,400.00	6,377.92	6,389.08	6,377.92	19.47	15.50	-142.35	-264.24	54.43	408.87	381.39	27.48	14.877	
6,500.00	6,477.37	6,488.54	6,477.37	19.86	15.55	-143.22	-264.24	54.43	417.21	389.26	27.95	14.930	
6,568.84	6,545.83	6,557.00	6,545.83	20.11	15.58	-143.81	-264.24	54.43	423.00	394.75	28.25	14.971	
6,600.00	6,576.83	6,588.00	6,576.83	20.23	15.60	-144.08	-264.24	54.43	425.54	397.15	28.39	14.990	
6,700.00	6,676.48	6,687.65	6,676.48	20.61	15.64	-144.78	-264.24	54.43	432.33	403.49	28.83	14.994	
6,800.00	6,776.32	6,787.48	6,776.32	20.95	15.69	-145.26	-264.24	54.43	437.02	407.78	29.24	14.948	
6,900.00	6,876.26	6,887.43	6,876.26	21.26	15.74	-145.51	-264.24	54.43	439.58	410.00	29.58	14.860	
6,968.74	6,945.00	6,956.17	6,945.00	21.35	15.77	90.11	-264.24	54.43	440.09	410.38	29.71	14.812	
7,000.00	6,976.26	6,987.43	6,976.26	21.36	15.79	90.11	-264.24	54.43	440.09	410.35	29.73	14.801	
7,100.00	7,076.26	7,087.43	7,076.26	21.39	15.83	90.11	-264.24	54.43	440.09	410.25	29.84	14.750	
7,200.00	7,176.26	7,187.43	7,176.26	21.42	15.88	90.11	-264.24	54.43	440.09	410.15	29.94	14.698	
7,300.00	7,276.26	7,287.43	7,276.26	21.45	15.93	90.11	-264.24	54.43	440.09	410.04	30.05	14.647	
7,400.00	7,376.26	7,387.43	7,376.26	21.49	15.98	90.11	-264.24	54.43	440.09	409.94	30.15	14.596	
7,500.00	7,476.26	7,487.43	7,476.26	21.52	16.03	90.11	-264.24	54.43	440.09	409.83	30.26	14.545	
7,600.00	7,576.26	7,587.43	7,576.26	21.56	16.08	90.11	-264.24	54.43	440.09	409.73	30.36	14.495	
7,700.00	7,676.26	7,687.43	7,676.26	21.59	16.13	90.11	-264.24	54.43	440.09	409.62	30.47	14.444	
7,800.00	7,776.26	7,787.43	7,776.26	21.62	16.18	90.11	-264.24	54.43	440.09	409.51	30.57	14.394	
7,900.00	7,876.26	7,887.43	7,876.26	21.66	16.23	90.11	-264.24	54.43	440.09	409.41	30.68	14.344	
8,000.00	7,976.26	7,987.43	7,976.26	21.69	16.28	90.11	-264.24	54.43	440.09	409.30	30.79	14.294	
8,100.00	8,076.26	8,087.43	8,076.26	21.73	16.33	90.11	-264.24	54.43	440.09	409.19	30.90	14.244	
8,200.00	8,176.26	8,187.43	8,176.26	21.77	16.38	90.11	-264.24	54.43	440.09	409.08	31.01	14.194	
8,300.00	8,276.26	8,287.43	8,276.26	21.80	16.43	90.11	-264.24	54.43	440.09	408.97	31.11	14.144	
8,400.00	8,376.26	8,387.43	8,376.26	21.84	16.48	90.11	-264.24	54.43	440.09	408.86	31.22	14.095	
8,500.00	8,476.26	8,487.43	8,476.26	21.87	16.53	90.11	-264.24	54.43	440.09	408.75	31.33	14.045	
8,600.00	8,576.26	8,587.43	8,576.26	21.91	16.59	90.11	-264.24	54.43	440.09	408.64	31.44	13.996	
8,700.00	8,676.26	8,687.43	8,676.26	21.95	16.64	90.11	-264.24	54.43	440.09	408.53	31.55	13.947	
8,800.00	8,776.26	8,787.43	8,776.26	21.98	16.69	90.11	-264.24	54.43	440.09	408.42	31.66	13.898	
8,900.00	8,876.26	8,887.43	8,876.26	22.02	16.74	90.11	-264.24	54.43	440.09	408.31	31.78	13.850	
9,000.00	8,976.26	8,987.43	8,976.26	22.06	16.80	90.11	-264.24	54.43	440.09	408.20	31.89	13.801	
9,100.00	9,076.26	9,087.43	9,076.26	22.10	16.85	90.11	-264.24	54.43	440.09	408.09	32.00	13.753	
9,200.00	9,176.26	9,187.43	9,176.26	22.13	16.90	90.11	-264.24	54.43	440.09	407.98	32.11	13.705	
9,300.00	9,276.26	9,287.43	9,276.26	22.17	16.96	90.11	-264.24	54.43	440.09	407.86	32.22	13.657	
9,400.00	9,376.26	9,387.43	9,376.26	22.21	17.01	90.11	-264.24	54.43	440.09	407.75	32.34	13.609	
9,500.00	9,476.26	9,487.43	9,476.26	22.25	17.06	90.11	-264.24	54.43	440.09	407.64	32.45	13.561	
9,600.00	9,576.26	9,587.43	9,576.26	22.29	17.12	90.11	-264.24	54.43	440.09	407.52	32.57	13.514	
9,700.00	9,676.26	9,687.43	9,676.26	22.33	17.17	90.11	-264.24	54.43	440.09	407.41	32.68	13.467	
9,800.00	9,776.26	9,787.43	9,776.26	22.37	17.23	90.11	-264.24	54.43	440.09	407.29	32.79	13.420	
9,900.00	9,876.26	9,887.43	9,876.26	22.41	17.28	90.11	-264.24	54.43	440.09	407.18	32.91	13.373	
9,973.78	9,950.04	9,961.21	9,950.04	22.43	17.32	90.11	-264.24	54.43	440.09	407.10	32.99	13.342	
10,000.00	9,976.25	9,987.42	9,976.25	22.42	17.34	98.28	-264.24	54.43	440.17	407.17	33.00	13.337	

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design:Gold Rush Pad - Gold State Com 701H - OH - Plan 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.00 usft	
Reference	Offset	Reference	Offset	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)									
10,050.00	10,026.04	10,037.21	10,026.04	22.37	17.37	98.78	-264.24	54.43	440.84	407.83	33.01	13.355		
10,100.00	10,075.24	10,086.41	10,075.24	22.31	17.39	99.75	-264.24	54.43	442.28	409.31	32.96	13.418		
10,150.00	10,123.50	10,134.66	10,123.50	22.24	17.42	101.10	-264.24	54.43	444.72	411.85	32.87	13.530		
10,200.00	10,170.43	10,181.60	10,170.43	22.17	17.45	102.76	-264.24	54.43	448.51	415.77	32.74	13.699		
10,250.00	10,215.69	10,226.85	10,215.69	22.10	17.47	104.61	-264.24	54.43	454.03	421.45	32.59	13.933		
10,300.00	10,258.92	10,270.09	10,258.92	22.04	17.49	106.50	-264.24	54.43	461.74	429.32	32.42	14.243		
10,350.00	10,299.80	10,310.97	10,299.80	21.98	17.52	108.31	-264.24	54.43	472.06	439.81	32.25	14.638		
10,400.00	10,338.02	10,349.19	10,338.02	21.94	17.53	109.89	-264.24	54.43	485.39	453.31	32.08	15.130		
10,450.00	10,373.29	10,392.98	10,381.80	21.91	17.52	111.79	-263.66	54.42	501.88	469.92	31.95	15.707		
10,500.00	10,405.34	10,448.47	10,437.03	21.90	17.46	114.25	-258.49	54.38	520.64	488.72	31.92	16.312		
10,550.00	10,433.92	10,510.62	10,497.96	21.92	17.37	116.75	-246.39	54.27	541.09	509.09	32.00	16.909		
10,600.00	10,458.82	10,581.65	10,565.51	21.96	17.24	119.35	-224.58	54.09	562.67	530.40	32.27	17.435		
10,650.00	10,479.85	10,664.59	10,640.25	22.02	17.08	122.04	-188.78	53.79	584.65	551.82	32.83	17.807		
10,700.00	10,496.85	10,739.77	10,702.69	22.12	16.93	123.67	-147.04	53.43	606.06	572.62	33.44	18.124		
10,750.00	10,509.68	10,882.12	10,804.39	22.25	16.68	127.16	-48.03	52.60	625.75	590.38	35.37	17.692		
10,800.00	10,518.25	11,023.63	10,878.00	22.41	16.50	128.80	72.40	51.58	642.05	604.54	37.51	17.116		
10,850.00	10,522.50	11,184.91	10,923.10	22.60	16.39	129.00	226.69	50.27	653.33	613.38	39.95	16.354		
10,873.78	10,523.00	11,265.45	10,929.00	22.70	16.40	128.45	306.94	49.59	656.57	615.55	41.02	16.006		
10,900.00	10,523.00	11,292.70	10,929.00	22.82	16.40	128.23	334.19	49.36	659.21	617.97	41.24	15.985		
11,000.00	10,523.00	11,392.13	10,929.00	23.33	16.45	127.57	433.62	48.52	667.60	625.45	42.15	15.837		
11,100.00	10,523.00	11,491.87	10,929.00	23.90	16.55	127.13	533.35	47.68	673.28	630.04	43.24	15.572		
11,200.00	10,523.00	11,591.80	10,929.00	24.53	16.93	126.91	633.28	46.83	676.19	631.73	44.47	15.207		
11,255.02	10,523.00	11,646.82	10,929.00	24.88	17.35	126.87	688.29	46.37	676.61	631.41	45.20	14.971		
11,300.00	10,523.00	11,691.80	10,929.00	25.17	17.74	126.87	733.27	45.98	676.60	630.79	45.81	14.771		
11,400.00	10,523.00	11,791.80	10,929.00	25.87	18.71	126.88	833.27	45.14	676.59	629.33	47.25	14.318		
11,500.00	10,523.00	11,891.80	10,929.00	26.63	19.77	126.88	933.26	44.29	676.58	627.79	48.79	13.868		
11,600.00	10,523.00	11,991.80	10,929.00	27.44	20.87	126.88	1,033.26	43.45	676.56	626.16	50.40	13.424		
11,700.00	10,523.00	12,091.80	10,929.00	28.30	22.02	126.88	1,133.26	42.60	676.55	624.46	52.09	12.989		
11,800.00	10,523.00	12,191.80	10,929.00	29.21	23.21	126.88	1,233.25	41.75	676.53	622.70	53.84	12.567		
11,900.00	10,523.00	12,291.80	10,929.00	30.15	24.42	126.88	1,333.25	40.91	676.52	620.88	55.64	12.158		
12,000.00	10,523.00	12,391.80	10,929.00	31.14	25.66	126.88	1,433.25	40.06	676.51	619.00	57.50	11.765		
12,100.00	10,523.00	12,491.80	10,929.00	32.16	26.92	126.88	1,533.24	39.22	676.49	617.08	59.41	11.386		
12,200.00	10,523.00	12,591.80	10,929.00	33.21	28.20	126.88	1,633.24	38.37	676.48	615.12	61.36	11.024		
12,300.00	10,523.00	12,691.80	10,929.00	34.30	29.50	126.88	1,733.23	37.52	676.47	613.11	63.35	10.677		
12,400.00	10,523.00	12,791.80	10,929.00	35.41	30.80	126.88	1,833.23	36.68	676.45	611.07	65.38	10.346		
12,500.00	10,523.00	12,891.80	10,929.00	36.54	32.13	126.88	1,933.23	35.83	676.44	609.00	67.44	10.030		
12,600.00	10,523.00	12,991.80	10,929.00	37.70	33.46	126.89	2,033.22	34.99	676.43	606.90	69.53	9.729		
12,700.00	10,523.00	13,091.80	10,929.00	38.88	34.80	126.89	2,133.22	34.14	676.41	604.77	71.64	9.442		
12,800.00	10,523.00	13,191.80	10,929.00	40.07	36.15	126.89	2,233.22	33.29	676.40	602.62	73.78	9.168		
12,900.00	10,523.00	13,291.80	10,929.00	41.28	37.51	126.89	2,333.21	32.45	676.39	600.45	75.94	8.907		
13,000.00	10,523.00	13,391.80	10,929.00	42.51	38.87	126.89	2,433.21	31.60	676.37	598.25	78.12	8.658		
13,100.00	10,523.00	13,491.80	10,929.00	43.76	40.24	126.89	2,533.21	30.75	676.36	596.04	80.32	8.421		
13,200.00	10,523.00	13,591.80	10,929.00	45.01	41.61	126.89	2,633.20	29.91	676.35	593.81	82.54	8.194		
13,300.00	10,523.00	13,691.80	10,929.00	46.28	42.99	126.89	2,733.20	29.06	676.33	591.56	84.77	7.978		
13,400.00	10,523.00	13,791.80	10,929.00	47.56	44.38	126.89	2,833.20	28.22	676.32	589.30	87.02	7.772		
13,500.00	10,523.00	13,891.80	10,929.00	48.84	45.77	126.89	2,933.19	27.37	676.31	587.03	89.28	7.575		
13,600.00	10,523.00	13,991.80	10,929.00	50.14	47.16	126.89	3,033.19	26.52	676.29	584.74	91.55	7.387		
13,700.00	10,523.00	14,091.80	10,929.00	51.45	48.56	126.89	3,133.18	25.68	676.28	582.44	93.84	7.207		
13,800.00	10,523.00	14,191.80	10,929.00	52.76	49.95	126.90	3,233.18	24.83	676.27	580.13	96.13	7.035		
13,900.00	10,523.00	14,291.80	10,929.00	54.08	51.36	126.90	3,333.18	23.99	676.25	577.81	98.44	6.870		
14,000.00	10,523.00	14,391.80	10,929.00	55.41	52.76	126.90	3,433.17	23.14	676.24	575.49	100.75	6.712		
14,100.00	10,523.00	14,491.80	10,929.00	56.74	54.17	126.90	3,533.17	22.29	676.23	573.15	103.08	6.560		

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Pad - Gold State Com 701H - OH - Plan 1

Survey Program: Reference		0-MWD+HDGM Offset			Rule Assigned:					Offset Well Error:		0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	10,523.00	14,591.80	10,929.00	58.08	55.58	126.90	3,633.17	21.45	676.21	570.80	105.41	6.415	
14,300.00	10,523.00	14,691.80	10,929.00	59.43	56.99	126.90	3,733.16	20.60	676.20	568.45	107.75	6.276	
14,400.00	10,523.00	14,791.80	10,929.00	60.78	58.40	126.90	3,833.16	19.75	676.19	566.09	110.10	6.142	
14,500.00	10,523.00	14,891.80	10,929.00	62.13	59.81	126.90	3,933.16	18.91	676.17	563.73	112.45	6.013	
14,600.00	10,523.00	14,991.80	10,929.00	63.49	61.23	126.90	4,033.15	18.06	676.16	561.35	114.81	5.890	
14,700.00	10,523.00	15,091.80	10,929.00	64.85	62.65	126.90	4,133.15	17.22	676.15	558.97	117.17	5.771	
14,800.00	10,523.00	15,191.80	10,929.00	66.22	64.07	126.90	4,233.15	16.37	676.13	556.59	119.54	5.656	
14,900.00	10,523.00	15,291.80	10,929.00	67.59	65.49	126.90	4,333.14	15.52	676.12	554.20	121.92	5.546	
15,000.00	10,523.00	15,391.80	10,929.00	68.97	66.91	126.91	4,433.14	14.68	676.11	551.81	124.30	5.439	
15,100.00	10,523.00	15,491.80	10,929.00	70.34	68.33	126.91	4,533.13	13.83	676.09	549.41	126.68	5.337	
15,200.00	10,523.00	15,591.80	10,929.00	71.72	69.76	126.91	4,633.13	12.99	676.08	547.01	129.07	5.238	
15,300.00	10,523.00	15,691.80	10,929.00	73.10	71.18	126.91	4,733.13	12.14	676.07	544.60	131.47	5.142	
15,400.00	10,523.00	15,791.80	10,929.00	74.49	72.61	126.91	4,833.12	11.29	676.05	542.19	133.87	5.050	
15,500.00	10,523.00	15,891.80	10,929.00	75.88	74.04	126.91	4,933.12	10.45	676.04	539.77	136.27	4.961	
15,600.00	10,523.00	15,991.80	10,929.00	77.27	75.46	126.91	5,033.12	9.60	676.03	537.36	138.67	4.875	
15,700.00	10,523.00	16,091.80	10,929.00	78.66	76.89	126.91	5,133.11	8.75	676.01	534.93	141.08	4.792	
15,800.00	10,523.00	16,191.80	10,929.00	80.05	78.32	126.91	5,233.11	7.91	676.00	532.51	143.49	4.711	
15,900.00	10,523.00	16,291.80	10,929.00	81.45	79.75	126.91	5,333.11	7.06	675.99	530.08	145.90	4.633	
16,000.00	10,523.00	16,391.80	10,929.00	82.85	81.18	126.91	5,433.10	6.22	675.97	527.65	148.32	4.557	
16,100.00	10,523.00	16,491.80	10,929.00	84.25	82.61	126.91	5,533.10	5.37	675.96	525.22	150.74	4.484	
16,200.00	10,523.00	16,591.80	10,929.00	85.65	84.05	126.92	5,633.10	4.52	675.95	522.78	153.16	4.413	
16,300.00	10,523.00	16,691.80	10,929.00	87.05	85.48	126.92	5,733.09	3.68	675.93	520.34	155.59	4.344	
16,400.00	10,523.00	16,791.80	10,929.00	88.46	86.91	126.92	5,833.09	2.83	675.92	517.90	158.02	4.278	
16,500.00	10,523.00	16,891.80	10,929.00	89.87	88.35	126.92	5,933.08	1.99	675.91	515.46	160.44	4.213	
16,600.00	10,523.00	16,991.80	10,929.00	91.27	89.78	126.92	6,033.08	1.14	675.89	513.02	162.88	4.150	
16,700.00	10,523.00	17,091.80	10,929.00	92.68	91.22	126.92	6,133.08	0.29	675.88	510.57	165.31	4.089	
16,800.00	10,523.00	17,191.80	10,929.00	94.09	92.65	126.92	6,233.07	-0.55	675.87	508.12	167.74	4.029	
16,900.00	10,523.00	17,291.80	10,929.00	95.50	94.09	126.92	6,333.07	-1.40	675.85	505.67	170.18	3.971	
17,000.00	10,523.00	17,391.80	10,929.00	96.92	95.52	126.92	6,433.07	-2.24	675.84	503.22	172.62	3.915	
17,100.00	10,523.00	17,491.80	10,929.00	98.33	96.96	126.92	6,533.06	-3.09	675.83	500.77	175.06	3.861	
17,200.00	10,523.00	17,591.80	10,929.00	99.75	98.40	126.92	6,633.06	-3.94	675.81	498.31	177.50	3.807	
17,300.00	10,523.00	17,691.80	10,929.00	101.16	99.83	126.93	6,733.06	-4.78	675.80	495.85	179.95	3.756	
17,400.00	10,523.00	17,791.80	10,929.00	102.58	101.27	126.93	6,833.05	-5.63	675.79	493.39	182.39	3.705	
17,500.00	10,523.00	17,891.80	10,929.00	104.00	102.71	126.93	6,933.05	-6.48	675.77	490.93	184.84	3.656	
17,600.00	10,523.00	17,991.80	10,929.00	105.42	104.15	126.93	7,033.05	-7.32	675.76	488.47	187.29	3.608	
17,700.00	10,523.00	18,091.80	10,929.00	106.83	105.59	126.93	7,133.04	-8.17	675.75	486.01	189.74	3.561	
17,800.00	10,523.00	18,191.80	10,929.00	108.26	107.03	126.93	7,233.04	-9.01	675.73	483.55	192.19	3.516	
17,900.00	10,523.00	18,291.80	10,929.00	109.68	108.47	126.93	7,333.03	-9.86	675.72	481.08	194.64	3.472	
18,000.00	10,523.00	18,391.80	10,929.00	111.10	109.91	126.93	7,433.03	-10.71	675.71	478.61	197.09	3.428	
18,100.00	10,523.00	18,491.80	10,929.00	112.52	111.35	126.93	7,533.03	-11.55	675.69	476.15	199.55	3.386	
18,200.00	10,523.00	18,591.80	10,929.00	113.94	112.79	126.93	7,633.02	-12.40	675.68	473.68	202.00	3.345	
18,300.00	10,523.00	18,691.80	10,929.00	115.37	114.23	126.93	7,733.02	-13.24	675.67	471.21	204.46	3.305	
18,400.00	10,523.00	18,791.80	10,929.00	116.79	115.67	126.93	7,833.02	-14.09	675.65	468.74	206.92	3.265	
18,500.00	10,523.00	18,891.80	10,929.00	118.22	117.11	126.94	7,933.01	-14.94	675.64	466.27	209.37	3.227	
18,600.00	10,523.00	18,991.80	10,929.00	119.64	118.55	126.94	8,033.01	-15.78	675.63	463.79	211.83	3.189	
18,700.00	10,523.00	19,091.80	10,929.00	121.07	119.99	126.94	8,133.01	-16.63	675.61	461.32	214.29	3.153	
18,800.00	10,523.00	19,191.80	10,929.00	122.50	121.43	126.94	8,233.00	-17.48	675.60	458.84	216.75	3.117	
18,900.00	10,523.00	19,291.80	10,929.00	123.92	122.87	126.94	8,333.00	-18.32	675.59	456.37	219.22	3.082	
19,000.00	10,523.00	19,391.80	10,929.00	125.35	124.31	126.94	8,433.00	-19.17	675.57	453.89	221.68	3.048	
19,100.00	10,523.00	19,491.80	10,929.00	126.78	125.76	126.94	8,532.99	-20.01	675.56	451.42	224.14	3.014	
19,200.00	10,523.00	19,591.80	10,929.00	128.21	127.20	126.94	8,632.99	-20.86	675.55	448.94	226.61	2.981	
19,300.00	10,523.00	19,691.80	10,929.00	129.64	128.64	126.94	8,732.98	-21.71	675.53	446.46	229.07	2.949	

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Pad - Gold State Com 701H - OH - Plan 1													Offset Site Error: 0.00 usft		
Survey Program: 0-MWD+HDGM												Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance			Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
19,337.66	10,523.00	19,729.46	10,929.00	130.18	129.18	126.94	8,770.65	-22.02	675.53	445.53	230.00	2.937			
19,349.32	10,523.00	19,740.72	10,929.00	130.34	129.35	126.94	8,781.90	-22.12	675.53	445.25	230.27	2.934			



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Pad - Gold State Com 801H - OH - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)												
0.00	0.00	0.00	0.00	0.00	0.00	90.69	-0.60	49.99	49.99	48.41	1.58	31.558	
100.00	100.00	100.00	100.00	0.79	0.79	90.69	-0.60	49.99	49.99	47.09	2.90	17.244	
200.00	200.00	200.00	200.00	1.45	1.45	90.69	-0.60	49.99	49.99	46.20	3.79	13.195	
300.00	300.00	300.00	300.00	1.89	1.89	90.69	-0.60	49.99	49.99	45.48	4.51	11.080	
400.00	400.00	400.00	400.00	2.26	2.26	90.69	-0.60	49.99	49.99	44.85	5.14	9.727	
500.00	500.00	500.00	500.00	2.57	2.57	90.69	-0.60	49.99	49.99	44.29	5.70	8.766	
600.00	600.00	600.00	600.00	2.85	2.85	90.69	-0.60	49.99	49.99	43.77	6.22	8.038	
700.00	700.00	700.00	700.00	3.11	3.11	90.69	-0.60	49.99	49.99	43.29	6.70	7.461	
800.00	800.00	800.00	800.00	3.35	3.35	90.69	-0.60	49.99	49.99	42.84	7.15	6.989	
900.00	900.00	900.00	900.00	3.58	3.58	90.69	-0.60	49.99	49.99	42.41	7.58	6.593	
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	90.69	-0.60	49.99	49.99	42.00	7.99	6.256	
1,100.00	1,100.00	1,100.00	1,100.00	4.00	4.00	90.69	-0.60	49.99	49.99	41.61	8.38	5.963	
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	90.69	-0.60	49.99	49.99	41.23	8.76	5.706	
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	90.69	-0.60	49.99	49.99	40.87	9.13	5.477	
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	90.69	-0.60	49.99	49.99	40.51	9.48	5.273	
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	90.69	-0.60	49.99	49.99	40.17	9.83	5.088	
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	90.69	-0.60	49.99	49.99	39.83	10.16	4.920	
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	90.69	-0.60	49.99	49.99	39.51	10.49	4.767	
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	90.69	-0.60	49.99	49.99	39.19	10.81	4.626	
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	90.69	-0.60	49.99	49.99	38.87	11.12	4.496	
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	90.69	-0.60	49.99	49.99	38.57	11.43	4.376 CC, ES	
2,100.00	2,100.00	2,100.00	2,100.00	5.71	5.71	90.69	-0.60	49.99	49.99	38.34	11.73	4.353	
2,200.00	2,199.99	2,199.99	2,199.99	5.88	5.86	-145.81	-0.60	49.99	51.07	42.34	12.03	4.520	
2,300.00	2,299.91	2,299.91	2,299.91	6.04	6.01	-148.11	-0.60	49.99	54.36	47.68	12.34	4.865	
2,400.00	2,399.69	2,399.69	2,399.69	6.22	6.16	-151.37	-0.60	49.99	60.02	54.37	12.67	5.290	
2,499.90	2,499.17	2,500.72	2,500.71	6.41	6.31	-154.51	-1.42	48.94	67.04	60.09	12.99	5.627	
2,600.00	2,598.72	2,602.26	2,602.16	6.60	6.46	-156.56	-3.90	45.78	73.08	63.48	13.32	5.765	
2,700.00	2,698.17	2,703.97	2,703.65	6.81	6.62	-157.42	-8.06	40.47	76.80	65.13	13.62	5.782	
2,800.00	2,797.63	2,804.48	2,803.78	7.03	6.73	-157.57	-13.39	33.67	78.75	66.59	14.00	5.755	
2,900.00	2,897.08	2,904.46	2,903.39	7.27	6.90	-157.67	-18.76	26.82	80.60	68.03	14.42	5.718	
3,000.00	2,996.53	3,004.44	3,002.99	7.52	7.09	-157.77	-24.13	19.96	82.45	69.44	14.86	5.674	
3,100.00	3,095.98	3,104.43	3,102.59	7.79	7.29	-157.87	-29.50	13.10	84.30	70.83	15.32	5.623	
3,200.00	3,195.44	3,204.41	3,202.19	8.06	7.51	-157.96	-34.87	6.25	86.15	72.19	15.81	5.568	
3,300.00	3,294.89	3,304.39	3,301.80	8.35	7.74	-158.05	-40.25	-0.61	88.00	73.54	16.31	5.509	
3,400.00	3,394.34	3,404.37	3,401.40	8.65	7.99	-158.13	-45.62	-7.46	89.85	74.86	16.83	5.448	
3,500.00	3,493.79	3,504.36	3,501.00	8.95	8.24	-158.21	-50.99	-14.32	91.70	76.18	17.37	5.385	
3,600.00	3,593.25	3,604.34	3,600.61	9.27	8.51	-158.29	-56.36	-21.17	93.55	77.47	17.93	5.322	
3,700.00	3,692.70	3,704.32	3,700.21	9.59	8.78	-158.36	-61.73	-28.03	95.40	78.76	18.50	5.258	
3,800.00	3,792.15	3,804.30	3,799.81	9.91	9.07	-158.44	-67.11	-34.88	97.25	80.03	19.08	5.195	
3,900.00	3,891.60	3,904.29	3,899.41	10.24	9.36	-158.51	-72.48	-41.74	99.10	81.29	19.67	5.133	
4,000.00	3,991.06	4,004.27	3,999.02	10.58	9.66	-158.57	-77.85	-48.60	100.95	82.53	20.27	5.071	
4,100.00	4,090.51	4,104.25	4,098.62	10.92	9.96	-158.64	-83.22	-55.45	102.81	83.77	20.88	5.011	
4,200.00	4,189.96	4,204.24	4,198.22	11.27	10.27	-158.70	-88.59	-62.31	104.66	85.00	21.51	4.952	
4,300.00	4,289.41	4,304.22	4,292.82	11.62	10.58	-158.76	-93.96	-69.16	106.51	86.23	22.14	4.895	
4,400.00	4,388.87	4,404.20	4,397.43	11.97	10.90	-158.82	-99.34	-76.02	108.36	87.44	22.77	4.840	
4,500.00	4,488.32	4,504.18	4,497.03	12.33	11.23	-158.87	-104.71	-82.87	110.21	88.65	23.42	4.785	
4,600.00	4,587.77	4,604.17	4,596.63	12.69	11.55	-158.93	-110.08	-89.73	112.07	89.85	24.07	4.733	
4,700.00	4,687.22	4,704.15	4,696.24	13.05	11.89	-158.98	-115.45	-96.58	113.92	91.05	24.73	4.682	
4,800.00	4,786.68	4,804.13	4,795.84	13.41	12.22	-159.03	-120.82	-103.44	115.77	92.24	25.39	4.633	
4,900.00	4,886.13	4,904.12	4,895.44	13.78	12.56	-159.08	-126.20	-110.29	117.62	93.42	26.05	4.586	
5,000.00	4,985.58	5,004.10	4,995.04	14.15	12.90	-159.12	-131.57	-117.15	119.48	94.60	26.73	4.540	
5,100.00	5,085.03	5,104.08	5,094.65	14.52	13.24	-159.17	-136.94	-124.01	121.33				

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Pad - Gold State Com 801H - OH - Plan 1													Offset Site Error:
Survey Program: 0-MWD+HDGM													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,184.49	5,204.06	5,194.25	14.89	13.59	-159.22	-142.31	-130.86	123.18	95.78	27.40	4.495	
5,300.00	5,283.94	5,304.05	5,293.85	15.27	13.94	-159.26	-147.68	-137.72	125.03	96.95	28.08	4.452	
5,400.00	5,383.39	5,404.03	5,393.45	15.64	14.29	-159.30	-153.05	-144.57	126.89	98.12	28.77	4.411	
5,500.00	5,482.84	5,504.01	5,493.06	16.02	14.64	-159.34	-158.43	-151.43	128.74	99.29	29.45	4.371	
5,600.00	5,582.30	5,604.00	5,592.66	16.40	14.99	-159.38	-163.80	-158.28	130.59	100.45	30.14	4.332	
5,700.00	5,681.75	5,703.98	5,692.26	16.78	15.35	-159.42	-169.17	-165.14	132.45	101.61	30.84	4.295	
5,800.00	5,781.20	5,803.96	5,791.87	17.16	15.70	-159.46	-174.54	-171.99	134.30	102.76	31.53	4.259	
5,900.00	5,880.65	5,903.94	5,891.47	17.54	16.06	-159.49	-179.91	-178.85	136.15	103.92	32.23	4.224	
6,000.00	5,980.11	6,003.93	5,991.07	17.93	16.42	-159.53	-185.29	-185.71	138.01	105.07	32.94	4.190	
6,100.00	6,079.56	6,103.91	6,090.67	18.31	16.78	-159.56	-190.66	-192.56	139.86	106.22	33.64	4.158	
6,200.00	6,179.01	6,203.89	6,190.28	18.70	17.14	-159.60	-196.03	-199.42	141.71	107.37	34.35	4.126	
6,300.00	6,278.46	6,303.87	6,289.88	19.08	17.51	-159.63	-201.40	-206.27	143.57	108.51	35.06	4.095	
6,400.00	6,377.92	6,403.86	6,389.48	19.47	17.87	-159.66	-206.77	-213.13	145.42	109.65	35.77	4.066	
6,500.00	6,477.37	6,503.84	6,489.08	19.86	18.24	-159.69	-212.14	-219.98	147.27	110.79	36.48	4.037	
6,568.84	6,545.83	6,572.67	6,557.65	20.11	18.49	-159.71	-215.84	-224.70	148.55	111.59	36.96	4.019	
6,600.00	6,576.83	6,603.82	6,588.69	20.23	18.60	-159.71	-217.52	-226.84	149.01	111.84	37.17	4.009	
6,700.00	6,676.48	6,703.82	6,688.30	20.61	18.97	-159.45	-222.89	-233.70	148.87	111.04	37.83	3.935	
6,800.00	6,776.32	6,803.77	6,787.88	20.95	19.34	-158.82	-228.26	-240.55	146.29	107.89	38.40	3.810	
6,900.00	6,876.26	6,903.61	6,887.33	21.26	19.71	-157.76	-233.62	-247.39	141.30	102.47	38.84	3.638	
6,968.74	6,945.00	6,972.14	6,955.60	21.35	19.96	78.94	-237.30	-252.09	136.51	97.54	38.97	3.503	
7,000.00	6,976.26	7,003.28	6,986.63	21.36	20.08	79.46	-238.98	-254.23	134.09	95.12	38.97	3.441	
7,100.00	7,076.26	7,102.90	7,085.87	21.39	20.44	81.29	-244.33	-261.06	126.42	87.45	38.97	3.244	
7,200.00	7,176.26	7,202.52	7,185.11	21.42	20.81	83.35	-249.68	-267.89	118.90	80.02	38.88	3.058	
7,300.00	7,276.26	7,301.97	7,284.18	21.45	21.18	85.67	-255.02	-274.70	111.56	72.86	38.69	2.883	
7,400.00	7,376.26	7,400.00	7,381.95	21.49	21.59	87.82	-259.41	-280.30	105.59	67.06	38.54	2.740	
7,500.00	7,476.26	7,497.19	7,479.03	21.52	21.91	89.32	-262.22	-283.89	101.81	63.41	38.40	2.651	
7,600.00	7,576.26	7,595.13	7,576.94	21.56	22.18	90.06	-263.52	-285.55	100.11	61.70	38.41	2.606	
7,650.30	7,626.56	7,644.74	7,626.56	21.57	22.22	90.11	-263.61	-285.66	100.00	61.57	38.43	2.602	
7,700.00	7,676.26	7,694.45	7,676.26	21.59	22.23	90.11	-263.61	-285.66	100.00	61.54	38.46	2.600	
7,800.00	7,776.26	7,794.45	7,776.26	21.62	22.26	90.11	-263.61	-285.66	100.00	61.46	38.54	2.595	
7,900.00	7,876.26	7,894.45	7,876.26	21.66	22.29	90.11	-263.61	-285.66	100.00	61.39	38.61	2.590	
8,000.00	7,976.26	7,994.45	7,976.26	21.69	22.32	90.11	-263.61	-285.66	100.00	61.32	38.68	2.585	
8,100.00	8,076.26	8,094.45	8,076.26	21.73	22.35	90.11	-263.61	-285.66	100.00	61.24	38.76	2.580	
8,200.00	8,176.26	8,194.45	8,176.26	21.77	22.39	90.11	-263.61	-285.66	100.00	61.17	38.83	2.575	
8,300.00	8,276.26	8,294.45	8,276.26	21.80	22.42	90.11	-263.61	-285.66	100.00	61.09	38.91	2.570	
8,400.00	8,376.26	8,394.45	8,376.26	21.84	22.45	90.11	-263.61	-285.66	100.00	61.02	38.98	2.565	
8,500.00	8,476.26	8,494.45	8,476.26	21.87	22.48	90.11	-263.61	-285.66	100.00	60.94	39.06	2.560	
8,600.00	8,576.26	8,594.45	8,576.26	21.91	22.52	90.11	-263.61	-285.66	100.00	60.87	39.13	2.555	
8,700.00	8,676.26	8,694.45	8,676.26	21.95	22.55	90.11	-263.61	-285.66	100.00	60.79	39.21	2.550	
8,800.00	8,776.26	8,794.45	8,776.26	21.98	22.58	90.11	-263.61	-285.66	100.00	60.71	39.29	2.545	
8,900.00	8,876.26	8,894.45	8,876.26	22.02	22.62	90.11	-263.61	-285.66	100.00	60.63	39.37	2.540	
9,000.00	8,976.26	8,994.45	8,976.26	22.06	22.65	90.11	-263.61	-285.66	100.00	60.55	39.45	2.535	
9,100.00	9,076.26	9,094.45	9,076.26	22.10	22.69	90.11	-263.61	-285.66	100.00	60.48	39.52	2.530	
9,200.00	9,176.26	9,194.45	9,176.26	22.13	22.72	90.11	-263.61	-285.66	100.00	60.40	39.60	2.525	
9,300.00	9,276.26	9,294.45	9,276.26	22.17	22.75	90.11	-263.61	-285.66	100.00	60.32	39.68	2.520	
9,400.00	9,376.26	9,394.45	9,376.26	22.21	22.79	90.11	-263.61	-285.66	100.00	60.23	39.77	2.515	
9,500.00	9,476.26	9,494.45	9,476.26	22.25	22.82	90.11	-263.61	-285.66	100.00	60.15	39.85	2.510	
9,600.00	9,576.26	9,594.45	9,576.26	22.29	22.86	90.11	-263.61	-285.66	100.00	60.07	39.93	2.504	
9,700.00	9,676.26	9,694.45	9,676.26	22.33	22.90	90.11	-263.61	-285.66	100.00	59.99	40.01	2.499	
9,800.00	9,776.26	9,794.45	9,776.26	22.37	22.93	90.11	-263.61	-285.66	100.00	59.91	40.09	2.494	
9,900.00	9,876.26	9,894.45	9,876.26	22.41	22.97	90.11	-263.61	-285.66	100.00	59.82	40.18	2.489	
9,973.78	9,950.04	9,968.23	9,950.04	22.43	22.99	90.11	-263.61	-285.66	100.00	59.77	40.23	2.486 SF	

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gold Rush Pad - Gold State Com 801H - OH - Plan 1													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD+HDGM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,000.00	9,976.25	9,994.44	9,976.25	22.42	23.00	98.54	-263.61	-285.66	100.09	59.93	40.16	2.492			
10,050.00	10,026.04	10,044.22	10,026.04	22.37	23.02	100.96	-263.61	-285.66	100.85	61.30	39.54	2.550			
10,100.00	10,075.24	10,093.43	10,075.24	22.31	23.04	105.50	-263.61	-285.66	102.89	64.62	38.28	2.688			
10,150.00	10,123.50	10,141.68	10,123.50	22.24	23.06	111.62	-263.61	-285.66	107.19	70.77	36.42	2.943			
10,200.00	10,170.43	10,188.61	10,170.43	22.17	23.08	118.56	-263.61	-285.66	114.90	80.66	34.24	3.356			
10,250.00	10,215.69	10,233.87	10,215.69	22.10	23.09	125.46	-263.61	-285.66	127.00	94.84	32.16	3.949			
10,300.00	10,258.92	10,277.10	10,258.92	22.04	23.11	131.69	-263.61	-285.66	144.05	113.48	30.57	4.712			
10,350.00	10,299.80	10,317.99	10,299.80	21.98	23.12	136.87	-263.61	-285.66	166.12	136.50	29.63	5.607			
10,400.00	10,338.02	10,356.21	10,338.02	21.94	23.14	140.92	-263.61	-285.66	192.95	163.73	29.22	6.603			
10,450.00	10,373.29	10,391.48	10,373.29	21.91	23.15	143.86	-263.61	-285.66	224.09	194.92	29.17	7.683			
10,500.00	10,405.34	10,423.53	10,405.34	21.90	23.16	145.74	-263.61	-285.66	259.06	229.76	29.30	8.841			
10,550.00	10,433.92	10,452.11	10,433.92	21.92	23.17	146.61	-263.61	-285.66	297.37	267.85	29.52	10.074			
10,600.00	10,458.82	10,477.01	10,458.82	21.96	23.18	146.38	-263.61	-285.66	338.54	308.78	29.76	11.376			
10,650.00	10,479.85	10,498.04	10,479.85	22.02	23.19	144.84	-263.61	-285.66	382.14	352.14	29.99	12.740			
10,700.00	10,496.85	10,515.03	10,496.85	22.12	23.20	141.47	-263.61	-285.66	427.71	397.50	30.21	14.158			
10,750.00	10,509.68	10,527.87	10,509.68	22.25	23.20	135.17	-263.61	-285.66	474.84	444.44	30.40	15.618			
10,800.00	10,518.25	10,536.44	10,518.25	22.41	23.20	123.68	-263.61	-285.66	523.11	492.53	30.57	17.110			
10,850.00	10,522.50	10,540.69	10,522.50	22.60	23.21	103.29	-263.61	-285.66	572.09	541.36	30.72	18.621			
10,873.78	10,523.00	10,541.18	10,523.00	22.70	23.21	90.00	-263.61	-285.66	595.51	564.73	30.79	19.342			
10,900.00	10,523.00	10,541.18	10,523.00	22.82	23.21	90.00	-263.61	-285.66	621.37	590.51	30.86	20.137			
11,000.00	10,523.00	10,541.18	10,523.00	23.33	23.21	90.00	-263.61	-285.66	719.87	688.75	31.12	23.134			
11,100.00	10,523.00	10,541.18	10,523.00	23.90	23.21	90.00	-263.61	-285.66	818.19	786.81	31.38	26.076			
11,200.00	10,523.00	10,541.18	10,523.00	24.53	23.21	90.00	-263.61	-285.66	916.28	884.65	31.64	28.962			
11,255.02	10,523.00	10,541.18	10,523.00	24.88	23.21	90.00	-263.61	-285.66	970.14	938.36	31.78	30.527			

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=30 @ 4020.00usft

Offset Depths are relative to Offset Datum

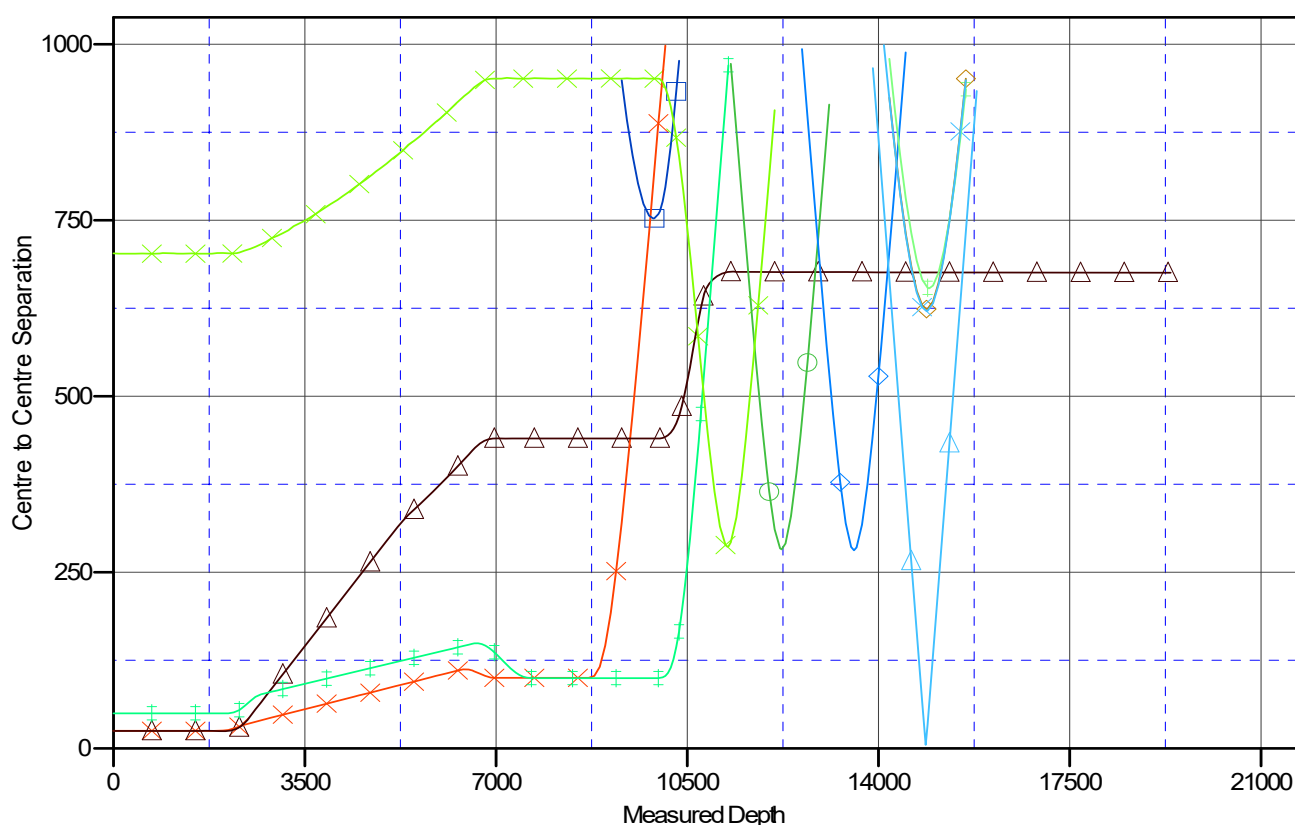
Central Meridian is -104.333334

Coordinates are relative to: Gold State Com 601H

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

Grid Convergence at Surface is: 0.43°

Ladder Plot



LEGEND

Gold State Com 301H, OH, Plan 1 V0	State HQ #008 OH, OH V0	Maggie State #1 OH, Franklin Mountain Surveys V0
Gold State Com 701H, OH, Plan 1 V0	Tin Cup 36 State Com 2H, OH, OH V0	Maggie State #1 Halliburton Curve Lateral, Halliburton Curve Lateral V0
Gold State Com 801H, OH, Plan 1 V0	Sherry M State #001 (P&A), OH, OH V0	Maggie State #1 State Pason Lateral, State Pason Lateral V0
State HQ #007 (P&A), OH, OH V0	Maggie State #1 State Pason Pilot, State Pason Pilot V0	

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Gold State Com 601H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 4020.00usft
Reference Site:	Gold Rush Pad	MD Reference:	KB=30 @ 4020.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gold State Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=30 @ 4020.00usft

Offset Depths are relative to Offset Datum

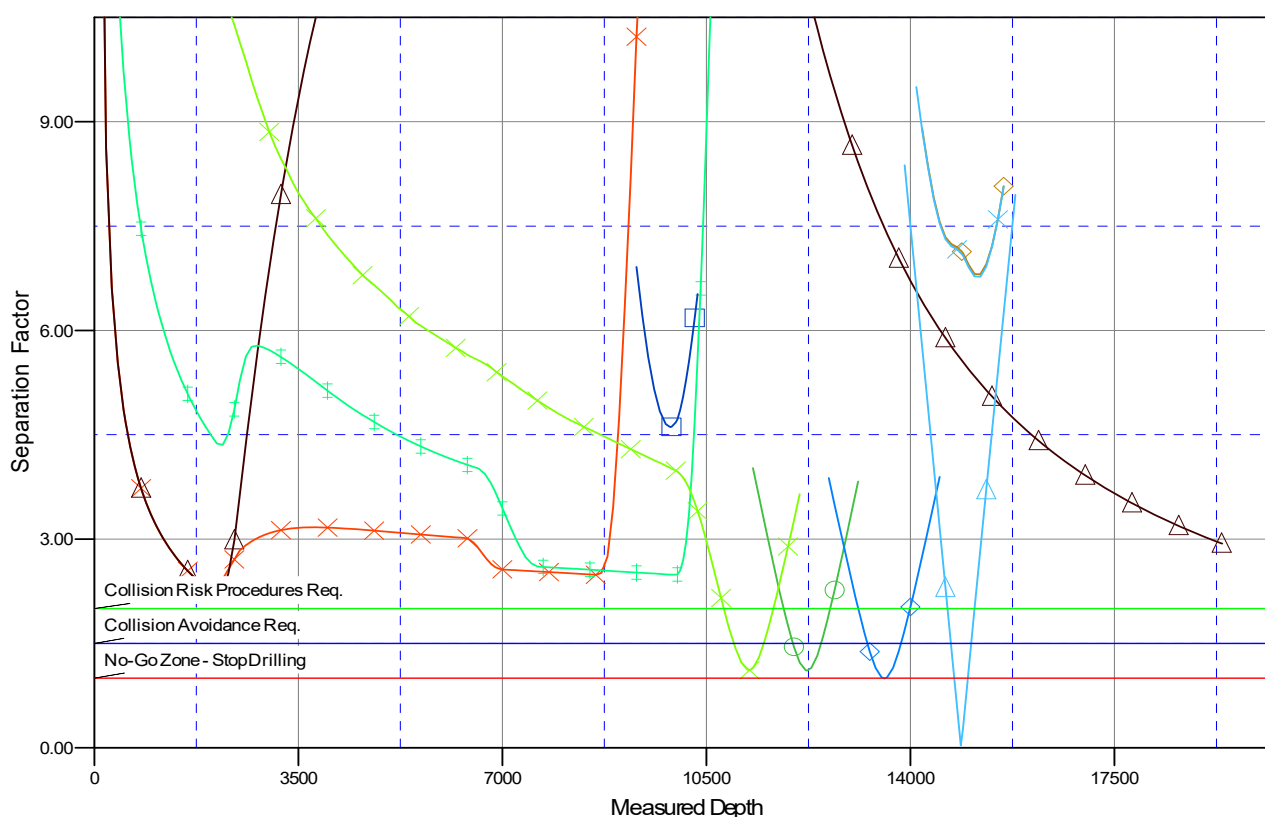
Central Meridian is -104.333334

Coordinates are relative to: Gold State Com 601H

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

Grid Convergence at Surface is: 0.43°

Separation Factor Plot



LEGEND

Gold State Com 301H, OH, Plan 1 V0	State HQ #008 OH, OH V0	Maggie State #1 OH, Franklin Mountain Surveys V0
Gold State Com 701H, OH, Plan 1 V0	Tin Cup 36 State Com 2H, OH, OH V0	Maggie State #1 Halliburton Curve Lateral, Halliburton Curve Lateral V0
Gold State Com 801H, OH, Plan 1 V0	Sherry M State #001 (P&A), OH, OH V0	Maggie State #1 State Pason Lateral, State Pason Lateral V0
State HQ #007 (P&A), OH, OH V0	Maggie State #1 State Pason Pilot, State Pason Pilot V0	

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

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Franklin Mountain Energy 3, LLC **OGRID:** 331595 **Date:** 5/17/2023

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
See Attached Well List						

IV. Central Delivery Point Name: Gold Rush CTB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
See Attached Well List						

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☒ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

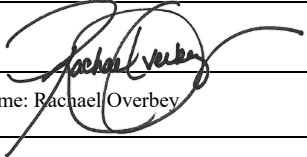
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Rachael Overbey
Title: Director Operations Planning & Regulatory
E-mail Address: roverbey@fmelle.com
Date: 6/20/2023
Phone: 720-414-7868
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

NATURAL GAS MANAGEMENT PLAN

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API 14 Digit	ULSTR	Surface Location FTG	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Gold State Com 301H	TBD	D-35-18S-34E	1025 FNL 825 FWL	800 +/-	700 +/-	2500 +/-
Gold State Com 601H	TBD	D-35-18S-34E	1025 FNL 850 FWL	800 +/-	700 +/-	2500 +/-
Gold State Com 701H	TBD	D-35-18S-34E	1025 FNL 875 FWL	800 +/-	700 +/-	2500 +/-
Gold State Com 801H	TBD	D-35-18S-34E	1025 FNL 900 FWL	800 +/-	700 +/-	2500 +/-

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API 14 Digit	Spud Date (Batch Drilling)	TD Reached Date	Completion Commencement Date	Initial Flowback Date	First Production Date
Gold State Com 301H	TBD	8/1/2023	10/16/2023	11/10/2023	11/20/2023	11/22/2023
Gold State Com 601H	TBD	8/3/2023	10/18/2023	11/12/2023	11/22/2023	11/24/2023
Gold State Com 701H	TBD	8/5/2023	10/20/2023	11/14/2023	11/24/2023	11/26/2023
Gold State Com 801H	TBD	8/7/2023	10/22/2023	11/16/2023	11/26/2023	11/28/2023



Natural Gas Management Plan

Items VI-VIII

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

- Data from surrounding wells is used to generate type curves which provides the basis for expected gas rates during initial production, peak production and then the natural decline.
- Separation equipment will be sized to provide adequate separation for peak production.
- Facility design includes multiple stages of separation to minimize gas waste. Wells flow through a 3-phase separator to remove gas. Gas from the 3 Phase separators are then sent through a gas scrubber before being route to treatment and/or sales.
- Industry standard sizing calculations are used for gas-liquid separation and liquid-liquid separation.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.

- Drilling, completion and production setup is designed to minimize the waste of natural gas and to flare instead of vent.
- *Drilling Operations:*
 - Natural gas encountered will be flared instead of vented unless there is an equipment malfunction and/or to avoid risking safety or the environment.
 - Flares will be properly sized and placed at least 100' from the nearest surface hole on the pad.
- *Completions/Recompletions Operations:*
 - Flowback operations will not commence until connected to a properly sized gas gathering system.
 - During initial flowback wells are routed to the separation equipment as soon as technically feasible to minimize gas waste.
 - During separation flowback wells are routed to the separation equipment to minimize gas waste.
 - Gas sales is maximized. Gas will be flared instead of vented during an emergency or malfunction to avoid posing a risk to operations or personnel safety.
 - Flares are properly sized with a continuous pilot.
- *Production Operations:*
 - Gas sales will be maximized. Gas will be flared instead of vented during an emergency or malfunction to avoid posing a risk to operations or personnel safety.
 - After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- *Performance Standards:*
 - The facility will be designed to handle peak production rates and pressures.
 - All tanks will have automatic gauging equipment.
 - Flares will be designed to ensure proper combustion and will have continuous pilots. Flares will be located 100' from nearest surface hole on the pad and storage tanks.
 - Weekly AVOs will be performed, and any leaking thief hatches will be cleaned and properly re-sealed.
- *Measurement and Calibration:*



- All volume that is flared and vented that is not measured will be estimated.
- When metering is not practical due to low pressure/rate, all vented or flared volumes will be estimated.
- Measurement will conform to industry standards. Measurement will not be bypassed except for purposes of inspection or calibration.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- Venting will be minimized during active and planned maintenance.
- Systems and equipment requiring maintenance will be isolated and blown down to sales and then flare before any remaining gas is vented in an effort to minimize waste and venting.
- Downhole maintenance will use best management practices to minimize vent.

