

Franklin Mountain Energy

DrilTech, LLC

Georgetown - Ouray Site
Georgetown FED COM 601H
Lateral Profile 601H
Plan #1
TBD



SURFACE LOCATION

US State Plane 1983
New Mexico Eastern Zone
Elevation: GL 3392' + 21'RKB @ 3413.00ft (TBD)

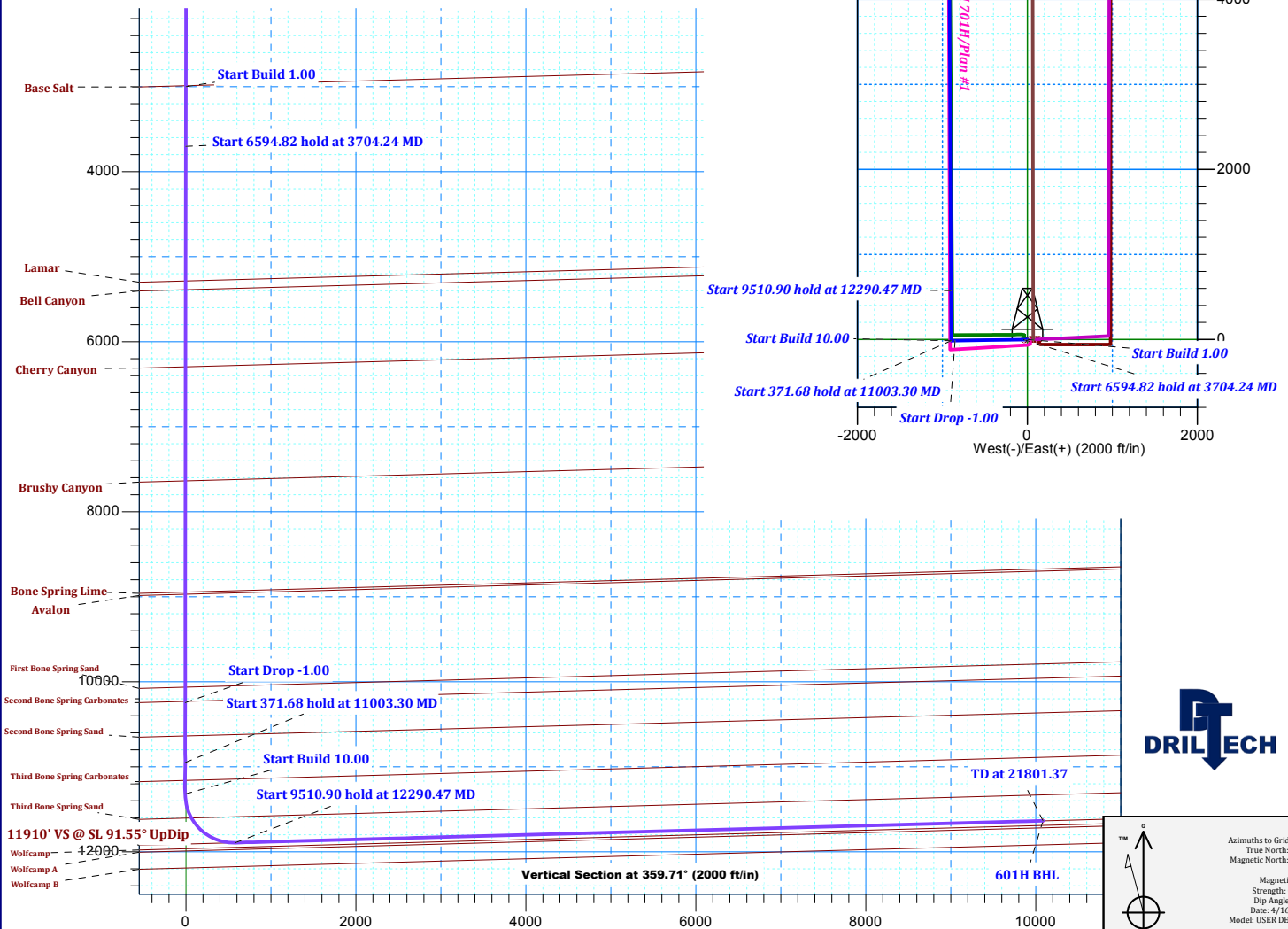
Northing	Easting	Latitude	Longitude	Slot
447152.07	837017.83	32° 13' 32.450 N	103° 22' 37.772 W	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00
3704.24	7.04	269.18	3702.47	-0.62	-43.22	1.00	269.18	-0.40
10299.06	7.04	269.18	10247.53	-12.15	-851.69	0.00	0.00	-7.84
11003.30	0.00	0.00	10950.00	-12.77	-894.91	1.00	180.00	-8.24
11374.97	0.00	0.00	11321.68	-12.77	-894.91	0.00	0.00	-8.24
12290.47	91.55	359.71	11894.43	575.68	-897.94	10.00	359.71	580.21
21801.37	91.55	359.71	11637.16	10082.97	-946.87	0.00	0.00	10087.63

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
601H BHL	11637.16	10082.97	-946.87	457235.02	836070.96





Franklin Mountain Energy

Georgetown - Ouray Site

Lea County NM

Georgetown FED COM 601H

Lateral Profile 601H

Plan: Plan #1

Standard Planning Report

07 July, 2019



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Georgetown FED COM 601H
Company:	Franklin Mountain Energy	TVD Reference:	GL 3392' + 21'RKB @ 3413.00ft (TBD)
Project:	Georgetown - Ouray Site	MD Reference:	GL 3392' + 21'RKB @ 3413.00ft (TBD)
Site:	Lea County NM	North Reference:	Grid
Well:	Georgetown FED COM 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 601H		
Design:	Plan #1		

Project	Georgetown - Ouray Site, 6 - well pad		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Lea County NM				
Site Position:		Northing:	447,152.68 usft	Latitude:	32° 13' 32.450 N
From:	Map	Easting:	837,087.82 usft	Longitude:	103° 22' 36.957 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.51 °

Wellbore	Lateral Profile 601H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	4/16/2019	0.00	0.00	0.00000000

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	359.71

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,704.24	7.04	269.18	3,702.47	-0.62	-43.22	1.00	1.00	0.00	269.18	
10,299.06	7.04	269.18	10,247.53	-12.15	-851.69	0.00	0.00	0.00	0.00	
11,003.30	0.00	0.00	10,950.00	-12.77	-894.91	1.00	-1.00	0.00	180.00	
11,374.98	0.00	0.00	11,321.68	-12.77	-894.91	0.00	0.00	0.00	0.00	
12,290.48	91.55	359.71	11,894.43	575.68	-897.94	10.00	10.00	0.00	359.71	
21,801.37	91.55	359.71	11,637.16	10,082.97	-946.87	0.00	0.00	0.00	0.00	601H BHL



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Site:	Lea County NM	North Reference:	Grid
Well:	Georgetown FED COM 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 601H		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21.00	0.00	0.00	21.00	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
968.00	0.00	0.00	968.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,065.00	0.00	0.00	1,065.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
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
1,900.00	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
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00							



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Site:	Lea County NM	North Reference:	Grid
Well:	Georgetown FED COM 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 601H		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,200.00	7.04	269.18	4,194.49	-1.48	-104.00	-0.96	0.00	0.00	0.00
4,300.00	7.04	269.18	4,293.73	-1.66	-116.26	-1.07	0.00	0.00	0.00
4,400.00	7.04	269.18	4,392.98	-1.83	-128.52	-1.18	0.00	0.00	0.00
4,500.00	7.04	269.18	4,492.22	-2.01	-140.77	-1.30	0.00	0.00	0.00
4,600.00	7.04	269.18	4,591.47	-2.18	-153.03	-1.41	0.00	0.00	0.00
4,700.00	7.04	269.18	4,690.72	-2.36	-165.29	-1.52	0.00	0.00	0.00
4,800.00	7.04	269.18	4,789.96	-2.53	-177.55	-1.64	0.00	0.00	0.00
4,900.00	7.04	269.18	4,889.21	-2.71	-189.81	-1.75	0.00	0.00	0.00
5,000.00	7.04	269.18	4,988.45	-2.88	-202.07	-1.86	0.00	0.00	0.00
5,100.00	7.04	269.18	5,087.70	-3.06	-214.33	-1.97	0.00	0.00	0.00
5,200.00	7.04	269.18	5,186.94	-3.23	-226.59	-2.09	0.00	0.00	0.00
5,299.87	7.04	269.18	5,286.06	-3.41	-238.83	-2.20	0.00	0.00	0.00
Lamar									
5,300.00	7.04	269.18	5,286.19	-3.41	-238.85	-2.20	0.00	0.00	0.00
5,400.00	7.04	269.18	5,385.43	-3.58	-251.11	-2.31	0.00	0.00	0.00
5,404.66	7.04	269.18	5,390.06	-3.59	-251.68	-2.32	0.00	0.00	0.00
Bell Canyon									
5,500.00	7.04	269.18	5,484.68	-3.76	-263.37	-2.43	0.00	0.00	0.00
5,600.00	7.04	269.18	5,583.93	-3.93	-275.62	-2.54	0.00	0.00	0.00
5,700.00	7.04	269.18	5,683.17	-4.11	-287.88	-2.65	0.00	0.00	0.00
5,800.00	7.04	269.18	5,782.42	-4.28	-300.14	-2.76	0.00	0.00	0.00
5,900.00	7.04	269.18	5,881.66	-4.46	-312.40	-2.88	0.00	0.00	0.00
6,000.00	7.04	269.18	5,980.91	-4.63	-324.66	-2.99	0.00	0.00	0.00
6,100.00	7.04	269.18	6,080.15	-4.81	-336.92	-3.10	0.00	0.00	0.00
6,200.00	7.04	269.18	6,179.40	-4.98	-349.18	-3.22	0.00	0.00	0.00
6,300.00	7.04	269.18	6,278.65	-5.16	-361.44	-3.33	0.00	0.00	0.00
6,317.58	7.04	269.18	6,296.09	-5.19	-363.59	-3.35	0.00	0.00	0.00
Cherry Canyon									
6,400.00	7.04	269.18	6,377.89	-5.33	-373				



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Site:	Lea County NM	North Reference:	Grid
Well:	Georgetown FED COM 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 601H		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,700.00	7.04	269.18	8,660.54	-9.36	-655.66	-6.04	0.00	0.00	0.00
8,800.00	7.04	269.18	8,759.78	-9.53	-667.92	-6.15	0.00	0.00	0.00
8,900.00	7.04	269.18	8,859.03	-9.71	-680.18	-6.26	0.00	0.00	0.00
8,988.81	7.04	269.18	8,947.17	-9.86	-691.06	-6.36	0.00	0.00	0.00
Bone Spring Lime									
9,000.00	7.04	269.18	8,958.28	-9.88	-692.43	-6.38	0.00	0.00	0.00
9,015.01	7.04	269.18	8,973.17	-9.91	-694.27	-6.39	0.00	0.00	0.00
Avalon									
9,100.00	7.04	269.18	9,057.52	-10.06	-704.69	-6.49	0.00	0.00	0.00
9,200.00	7.04	269.18	9,156.77	-10.23	-716.95	-6.60	0.00	0.00	0.00
9,300.00	7.04	269.18	9,256.01	-10.40	-729.21	-6.72	0.00	0.00	0.00
9,400.00	7.04	269.18	9,355.26	-10.58	-741.47	-6.83	0.00	0.00	0.00
9,500.00	7.04	269.18	9,454.50	-10.75	-753.73	-6.94	0.00	0.00	0.00
9,600.00	7.04	269.18	9,553.75	-10.93	-765.99	-7.05	0.00	0.00	0.00
9,700.00	7.04	269.18	9,652.99	-11.10	-778.25	-7.17	0.00	0.00	0.00
9,800.00	7.04	269.18	9,752.24	-11.28	-790.51	-7.28	0.00	0.00	0.00
9,900.00	7.04	269.18	9,851.49	-11.45	-802.77	-7.39	0.00	0.00	0.00
10,000.00	7.04	269.18	9,950.73	-11.63	-815.03	-7.51	0.00	0.00	0.00
10,100.00	7.04	269.18	10,049.98	-11.80	-827.29	-7.62	0.00	0.00	0.00
10,114.34	7.04	269.18	10,064.21	-11.83	-829.04	-7.63	0.00	0.00	0.00
First Bone Spring Sand									
10,200.00	7.04	269.18	10,149.22	-11.98	-839.54	-7.73	0.00	0.00	0.00
10,283.62	7.04	269.18	10,232.21	-12.13	-849.80	-7.83	0.00	0.00	0.00
Second Bone Spring Carbonates									
10,299.06	7.04	269.18	10,247.53	-12.15	-851.69	-7.84	0.00	0.00	0.00
Start Drop -1.00									
10,300.00	7.03	269.18	10,248.47	-12.15	-851.80	-7.84	1.00	-1.00	0.00
10,400.00	6.03	269.18	10,347.82	-12.32	-863.18	-7.95	1.00	-1.00	0.00
10,500.00	5.03	269.18	10,447.35	-12.45	-872.82	-8.04			



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Wellbore:	Lateral Profile 601H		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,000.00	62.50	359.71	11,829.91	295.64	-896.50	300.18	10.00	10.00	0.00
12,100.00	72.50	359.71	11,868.13	387.92	-896.97	392.45	10.00	10.00	0.00
12,200.00	82.50	359.71	11,889.74	485.42	-897.47	489.96	10.00	10.00	0.00
12,278.45	90.35	359.71	11,894.63	563.66	-897.88	568.20	10.00	10.00	0.00
11910' VS @ SL 91.55° UpDip									
12,290.48	91.55	359.71	11,894.43	575.68	-897.94	580.21	10.00	10.00	0.00
Start 9510.90 hold at 12290.47 MD									
12,300.00	91.55	359.71	11,894.17	585.20	-897.99	589.74	0.00	0.00	0.00
12,400.00	91.55	359.71	11,891.46	685.16	-898.50	689.70	0.00	0.00	0.00
12,500.00	91.55	359.71	11,888.76	785.12	-899.02	789.66	0.00	0.00	0.00
12,600.00	91.55	359.71	11,886.05	885.09	-899.53	889.63	0.00	0.00	0.00
12,700.00	91.55	359.71	11,883.35	985.05	-900.04	989.59	0.00	0.00	0.00
12,800.00	91.55	359.71	11,880.64	1,085.01	-900.56	1,089.55	0.00	0.00	0.00
12,900.00	91.55	359.71	11,877.94	1,184.97	-901.07	1,189.52	0.00	0.00	0.00
13,000.00	91.55	359.71	11,875.23	1,284.94	-901.59	1,289.48	0.00	0.00	0.00
13,100.00	91.55	359.71	11,872.53	1,384.90	-902.10	1,389.44	0.00	0.00	0.00
13,200.00	91.55	359.71	11,869.82	1,484.86	-902.62	1,489.41	0.00	0.00	0.00
13,300.00	91.55	359.71	11,867.12	1,584.82	-903.13	1,589.37	0.00	0.00	0.00
13,400.00	91.55	359.71	11,864.41	1,684.78	-903.65	1,689.33	0.00	0.00	0.00
13,500.00	91.55	359.71	11,861.71	1,784.75	-904.16	1,789.30	0.00	0.00	0.00
13,600.00	91.55	359.71	11,859.00	1,884.71	-904.68	1,889.26	0.00	0.00	0.00
13,700.00	91.55	359.71	11,856.30	1,984.67	-905.19	1,989.22	0.00	0.00	0.00
13,800.00	91.55	359.71	11,853.59	2,084.63	-905.70	2,089.19	0.00	0.00	0.00
13,900.00	91.55	359.71	11,850.89	2,184.59	-906.22	2,189.15	0.00	0.00	0.00
14,000.00	91.55	359.71	11,848.18	2,284.56	-906.73	2,289.11	0.00	0.00	0.00
14,100.00	91.55	359.71	11,845.48	2,384.52	-907.25	2,389.08	0.00	0.00	0.00
14,200.00	91.55	359.71							



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16,900.00	91.55	359.71	11,769.74	5,183.46	-921.65	5,188.05	0.00	0.00	0.00
17,000.00	91.55	359.71	11,767.04	5,283.42	-922.17	5,288.02	0.00	0.00	0.00
17,100.00	91.55	359.71	11,764.33	5,383.38	-922.68	5,387.98	0.00	0.00	0.00
17,200.00	91.55	359.71	11,761.63	5,483.34	-923.20	5,487.94	0.00	0.00	0.00
17,300.00	91.55	359.71	11,758.92	5,583.30	-923.71	5,587.91	0.00	0.00	0.00
17,400.00	91.55	359.71	11,756.22	5,683.27	-924.23	5,687.87	0.00	0.00	0.00
17,500.00	91.55	359.71	11,753.51	5,783.23	-924.74	5,787.83	0.00	0.00	0.00
17,600.00	91.55	359.71	11,750.81	5,883.19	-925.26	5,887.80	0.00	0.00	0.00
17,700.00	91.55	359.71	11,748.10	5,983.15	-925.77	5,987.76	0.00	0.00	0.00
17,800.00	91.55	359.71	11,745.40	6,083.12	-926.28	6,087.72	0.00	0.00	0.00
17,900.00	91.55	359.71	11,742.69	6,183.08	-926.80	6,187.69	0.00	0.00	0.00
18,000.00	91.55	359.71	11,739.99	6,283.04	-927.31	6,287.65	0.00	0.00	0.00
18,100.00	91.55	359.71	11,737.28	6,383.00	-927.83	6,387.61	0.00	0.00	0.00
18,200.00	91.55	359.71	11,734.58	6,482.96	-928.34	6,487.58	0.00	0.00	0.00
18,300.00	91.55	359.71	11,731.87	6,582.93	-928.86	6,587.54	0.00	0.00	0.00
18,400.00	91.55	359.71	11,729.17	6,682.89	-929.37	6,687.50	0.00	0.00	0.00
18,500.00	91.55	359.71	11,726.46	6,782.85	-929.89	6,787.47	0.00	0.00	0.00
18,600.00	91.55	359.71	11,723.76	6,882.81	-930.40	6,887.43	0.00	0.00	0.00
18,700.00	91.55	359.71	11,721.05	6,982.77	-930.92	6,987.39	0.00	0.00	0.00
18,800.00	91.55	359.71	11,718.35	7,082.74	-931.43	7,087.36	0.00	0.00	0.00
18,900.00	91.55	359.71	11,715.64	7,182.70	-931.94	7,187.32	0.00	0.00	0.00
19,000.00	91.55	359.71	11,712.94	7,282.66	-932.46	7,287.28	0.00	0.00	0.00
19,100.00	91.55	359.71	11,710.23	7,382.62	-932.97	7,387.25	0.00	0.00	0.00
19,200.00	91.55	359.71	11,707.53	7,482.58	-933.49	7,487.21	0.00	0.00	0.00
19,300.00	91.55	359.71	11,704.82	7,582.55	-934.00	7,587.18	0.00	0.00	0.00
19,400.00	91.55	359.71	11,702.12	7,682.51	-934.52	7,687.14	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Georgetown FED COM 601H
Company:	Franklin Mountain Energy	TVD Reference:	GL 3392' + 21'RKB @ 3413.00ft (TBD)
Project:	Georgetown - Ouray Site	MD Reference:	GL 3392' + 21'RKB @ 3413.00ft (TBD)
Site:	Lea County NM	North Reference:	Grid
Well:	Georgetown FED COM 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 601H		
Design:	Plan #1		

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
601H BHL	0.00	0.07	11,637.16	10,082.97	-946.87	457,235.02	836,070.96	32° 15' 12.300 N	103° 22' 47.752 W
- plan hits target center									
- Point									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
21.00	21.00	Cenozoic Alluvium (surface)		-1.55	359.71
968.00	968.00	Rustler		-1.55	359.71
1,065.00	1,065.00	Salado		-1.55	359.71
2,990.00	2,990.00	Base Salt		-1.55	359.71
5,299.87	5,286.06	Lamar		-1.55	359.71
5,404.66	5,390.06	Bell Canyon		-1.55	359.71
6,317.58	6,296.09	Cherry Canyon		-1.55	359.71
7,669.82	7,638.13	Brushy Canyon		-1.55	359.71
8,988.81	8,947.17	Bone Spring Lime		-1.55	359.71
9,015.01	8,973.17	Avalon		-1.55	359.71
10,114.34	10,064.21	First Bone Spring Sand		-1.55	359.71
10,283.62	10,232.21	Second Bone Spring Carbonates		-1.55	359.71
10,692.37	10,639.22	Second Bone Spring Sand		-1.55	359.71
11,216.52	11,163.22	Third Bone Spring Carbonates		-1.55	359.71
11,669.29	11,603.22	Third Bone Spring Sand		-1.55	359.71
12,278.45	11,894.63	11910' VS @ SL 91.55° UpDip		-1.55	359.71

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3,000.00	3,000.00	0.00	0.00	Start Build 1.00
3,704.24	3,702.47	-0.62	-43.22	Start 6594.82 hold at 3704.24 MD
10,299.06	10,247.53	-12.15	-851.69	Start Drop -1.00
11,003.30	10,950.00	-12.77	-894.91	Start 371.68 hold at 11003.30 MD
11,374.98	11,321.68	-12.77	-894.91	Start Build 10.00
12,290.48	11,894.43	575.68	-897.94	Start 9510.90 hold at 12290.47 MD
21,801.37	11,637.16	10,082.97	-946.87	TD at 21801.37



Franklin Mountain Energy

Georgetown - Ouray Site

Lea County NM

Georgetown FED COM 601H

Lateral Profile 601H

Plan: Plan #1

Standard Planning Report - Geographic

07 July, 2019



Planning Report - Geographic

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Georgetown FED COM 601H
Company:	Franklin Mountain Energy	TVD Reference:	GL 3392' + 21'RKB @ 3413.00ft (TBD)
Project:	Georgetown - Ouray Site	MD Reference:	GL 3392' + 21'RKB @ 3413.00ft (TBD)
Site:	Lea County NM	North Reference:	Grid
Well:	Georgetown FED COM 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 601H		
Design:	Plan #1		

Project	Georgetown - Ouray Site, 6 - well pad		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Lea County NM				
Site Position:		Northing:	447,152.68 usft	Latitude:	32° 13' 32.450 N
From:	Map	Easting:	837,087.82 usft	Longitude:	103° 22' 36.957 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.51 °

Well	Georgetown FED COM 601H					
Well Position	+N/-S	0.00 ft	Northing:	447,152.07 usft	Latitude:	32° 13' 32.450 N
	+E/-W	0.00 ft	Easting:	837,017.83 usft	Longitude:	103° 22' 37.772 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	3,392.00 ft

Wellbore	Lateral Profile 601H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	4/16/2019	0.00	0.00	0.00000000

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	359.71	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,704.24	7.04	269.18	3,702.47	-0.62	-43.22	1.00	1.00	0.00	269.18	
10,299.06	7.04	269.18	10,247.53	-12.15	-851.69	0.00	0.00	0.00	0.00	
11,003.30	0.00	0.00	10,950.00	-12.77	-894.91	1.00	-1.00	0.00	180.00	
11,374.98	0.00	0.00	11,321.68	-12.77	-894.91	0.00	0.00	0.00	0.00	
12,290.48	91.55	359.71	11,894.43	575.68	-897.94	10.00	10.00	0.00	359.71	
21,801.37	91.55	359.71	11,637.16	10,082.97	-946.87	0.00	0.00	0.00	0.00	601H BHL



Planning Report - Geographic

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Project:	Georgetown - Ouray Site	MD Reference:	GL 3392' + 21'RKB @ 3413.00ft (TBD)
Site:	Lea County NM	North Reference:	Grid
Well:	Georgetown FED COM 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 601H		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
21.00	0.00	0.00	21.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
Cenozoic Alluvium (surface)									
100.00	0.00	0.00	100.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
200.00	0.00	0.00	200.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
300.00	0.00	0.00	300.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
400.00	0.00	0.00	400.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
500.00	0.00	0.00	500.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
600.00	0.00	0.00	600.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
700.00	0.00	0.00	700.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
800.00	0.00	0.00	800.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
900.00	0.00	0.00	900.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
968.00	0.00	0.00	968.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
Rustler									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
1,065.00	0.00	0.00	1,065.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
Salado									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
1,200.00	0.00	0.00	1,200.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
1,300.00	0.00	0.00	1,300.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
1,400.00	0.00	0.00	1,400.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
1,500.00	0.00	0.00	1,500.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
1,600.00	0.00	0.00	1,600.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	103° 22' 37.772 W
1,700.00	0.00	0.00	1,700.00	0.00	0.00	447,152.07	837,017.83	32° 13' 32.450 N	



Planning Report - Geographic

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Project:	Georgetown - Ouray Site	MD Reference:	GL 3392' + 21'RKB @ 3413.00ft (TBD)
Site:	Lea County NM	North Reference:	Grid
Well:	Georgetown FED COM 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 601H		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,300.00	7.04	269.18	4,293.73	-1.66	-116.26	447,150.41	836,901.57	32° 13' 32.443 N	103° 22' 39.125 W
4,400.00	7.04	269.18	4,392.98	-1.83	-128.52	447,150.24	836,889.31	32° 13' 32.443 N	103° 22' 39.268 W
4,500.00	7.04	269.18	4,492.22	-2.01	-140.77	447,150.06	836,877.05	32° 13' 32.442 N	103° 22' 39.411 W
4,600.00	7.04	269.18	4,591.47	-2.18	-153.03	447,149.89	836,864.80	32° 13' 32.442 N	103° 22' 39.554 W
4,700.00	7.04	269.18	4,690.72	-2.36	-165.29	447,149.71	836,852.54	32° 13' 32.441 N	103° 22' 39.696 W
4,800.00	7.04	269.18	4,789.96	-2.53	-177.55	447,149.54	836,840.28	32° 13' 32.440 N	103° 22' 39.839 W
4,900.00	7.04	269.18	4,889.21	-2.71	-189.81	447,149.36	836,828.02	32° 13' 32.440 N	103° 22' 39.982 W
5,000.00	7.04	269.18	4,988.45	-2.88	-202.07	447,149.19	836,815.76	32° 13' 32.439 N	103° 22' 40.124 W
5,100.00	7.04	269.18	5,087.70	-3.06	-214.33	447,149.01	836,803.50	32° 13' 32.438 N	103° 22' 40.267 W
5,200.00	7.04	269.18	5,186.94	-3.23	-226.59	447,148.84	836,791.24	32° 13' 32.438 N	103° 22' 40.410 W
5,299.87	7.04	269.18	5,286.06	-3.41	-238.83	447,148.66	836,779.00	32° 13' 32.437 N	103° 22' 40.552 W
Lamar									
5,300.00	7.04	269.18	5,286.19	-3.41	-238.85	447,148.66	836,778.98	32° 13' 32.437 N	103° 22' 40.553 W
5,400.00	7.04	269.18	5,385.43	-3.58	-251.11	447,148.49	836,766.72	32° 13' 32.436 N	103° 22' 40.695 W
5,404.66	7.04	269.18	5,390.06	-3.59	-251.68	447,148.48	836,766.15	32° 13' 32.436 N	103° 22' 40.702 W
Bell Canyon									
5,500.00	7.04	269.18	5,484.68	-3.76	-263.37	447,148.31	836,754.46	32° 13' 32.436 N	103° 22' 40.838 W
5,600.00	7.04	269.18	5,583.93	-3.93	-275.62	447,148.14	836,742.20	32° 13' 32.435 N	103° 22' 40.981 W
5,700.00	7.04	269.18	5,683.17	-4.11	-287.88	447,147.96	836,729.95	32° 13' 32.434 N	103° 22' 41.123 W
5,800.00	7.04	269.18	5,782.42	-4.28	-300.14	447,147.79	836,717.69	32° 13' 32.434 N	103° 22' 41.266 W
5,900.00	7.04	269.18	5,881.66	-4.46	-312.40	447,147.61	836,705.43	32° 13' 32.433 N	103° 22' 41.409 W
6,000.00	7.04	269.18	5,980.91	-4.63	-324.66	447,147.44	836,693.17	32° 13' 32.432 N	103° 22' 41.552 W



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Project:	Georgetown - Ouray Site	MD Reference:	GL 3392' + 21'RKB @ 3413.00ft (TBD)
Site:	Lea County NM	North Reference:	Grid
Well:	Georgetown FED COM 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 601H		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,900.00	7.04	269.18	8,859.03	-9.71	-680.18	447,142.36	836,337.65	32° 13' 32.413 N	103° 22' 45.690 W
8,988.81	7.04	269.18	8,947.17	-9.86	-691.06	447,142.21	836,326.77	32° 13' 32.413 N	103° 22' 45.817 W
Bone Spring Lime									
9,000.00	7.04	269.18	8,958.28	-9.88	-692.43	447,142.19	836,325.40	32° 13' 32.413 N	103° 22' 45.833 W
9,015.01	7.04	269.18	8,973.17	-9.91	-694.27	447,142.16	836,323.56	32° 13' 32.413 N	103° 22' 45.855 W
Avalon									
9,100.00	7.04	269.18	9,057.52	-10.06	-704.69	447,142.01	836,313.14	32° 13' 32.412 N	103° 22' 45.976 W
9,200.00	7.04	269.18	9,156.77	-10.23	-716.95	447,141.84	836,300.88	32° 13' 32.411 N	103° 22' 46.119 W
9,300.00	7.04	269.18	9,256.01	-10.40	-729.21	447,141.67	836,288.62	32° 13' 32.411 N	103° 22' 46.261 W
9,400.00	7.04	269.18	9,355.26	-10.58	-741.47	447,141.49	836,276.36	32° 13' 32.410 N	103° 22' 46.404 W
9,500.00	7.04	269.18	9,454.50	-10.75	-753.73	447,141.32	836,264.10	32° 13' 32.410 N	103° 22' 46.547 W
9,600.00	7.04	269.18	9,553.75	-10.93	-765.99	447,141.14	836,251.84	32° 13' 32.409 N	103° 22' 46.689 W
9,700.00	7.04	269.18	9,652.99	-11.10	-778.25	447,140.97	836,239.58	32° 13' 32.408 N	103° 22' 46.832 W
9,800.00	7.04	269.18	9,752.24	-11.28	-790.51	447,140.79	836,227.32	32° 13' 32.408 N	103° 22' 46.975 W
9,900.00	7.04	269.18	9,851.49	-11.45	-802.77	447,140.62	836,215.06	32° 13' 32.407 N	103° 22' 47.118 W
10,000.00	7.04	269.18	9,950.73	-11.63	-815.03	447,140.44	836,202.80	32° 13' 32.406 N	103° 22' 47.260 W
10,100.00	7.04	269.18	10,049.98	-11.80	-827.29	447,140.27	836,190.55	32° 13' 32.406 N	103° 22' 47.403 W
10,114.34	7.04	269.18	10,064.21	-11.83	-829.04	447,140.24	836,188.79	32° 13' 32.406 N	103° 22' 47.423 W
First Bone Spring Sand									
10,200.00	7.04	269.18	10,149.22	-11.98	-839.54	447,140.09	836,178.29	32° 13' 32.405 N	103° 22' 47.546 W
10,283.62	7.04	269.18	10,232.21	-12.13	-849.80	447,139.94	836,168.04	32° 13' 32.404 N	103° 22' 47.665 W
Second Bone Spring Carbonates									
10,299.06	7.04	269.18	10,247.53	-12.15	-851.6				



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Wellbore:	Lateral Profile 601H		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
12,200.00	82.50	359.71	11,889.74	485.42	-897.47	447,637.49	836,120.36	32° 13' 37.332 N	103° 22' 48.169 W	
12,278.45	90.35	359.71	11,894.63	563.66	-897.88	447,715.73	836,119.95	32° 13' 38.106 N	103° 22' 48.165 W	
11910' VS @ SL 91.55° UpDip										
12,290.48	91.55	359.71	11,894.43	575.68	-897.94	447,727.75	836,119.89	32° 13' 38.225 N	103° 22' 48.165 W	
Start 9510.90 hold at 12290.47 MD										
12,300.00	91.55	359.71	11,894.17	585.20	-897.99	447,737.27	836,119.84	32° 13' 38.319 N	103° 22' 48.164 W	
12,400.00	91.55	359.71	11,891.46	685.16	-898.50	447,837.23	836,119.33	32° 13' 39.308 N	103° 22' 48.160 W	
12,500.00	91.55	359.71	11,888.76	785.12	-899.02	447,937.19	836,118.81	32° 13' 40.297 N	103° 22' 48.156 W	
12,600.00	91.55	359.71	11,886.05	885.09	-899.53	448,037.16	836,118.30	32° 13' 41.286 N	103° 22' 48.151 W	
12,700.00	91.55	359.71	11,883.35	985.05	-900.04	448,137.12	836,117.79	32° 13' 42.276 N	103° 22' 48.147 W	
12,800.00	91.55	359.71	11,880.64	1,085.01	-900.56	448,237.08	836,117.27	32° 13' 43.265 N	103° 22' 48.143 W	
12,900.00	91.55	359.71	11,877.94	1,184.97	-901.07	448,337.04	836,116.76	32° 13' 44.254 N	103° 22' 48.138 W	
13,000.00	91.55	359.71	11,875.23	1,284.94	-901.59	448,437.00	836,116.24	32° 13' 45.243 N	103° 22' 48.134 W	
13,100.00	91.55	359.71	11,872.53	1,384.90	-902.10	448,536.96	836,115.73	32° 13' 46.232 N	103° 22' 48.130 W	
13,200.00	91.55	359.71	11,869.82	1,484.86	-902.62	448,636.93	836,115.21	32° 13' 47.221 N	103° 22' 48.125 W	
13,300.00	91.55	359.71	11,867.12	1,584.82	-903.13	448,736.89	836,114.70	32° 13' 48.210 N	103° 22' 48.121 W	
13,400.00	91.55	359.71	11,864.41	1,684.78	-903.65	448,836.85	836,114.18	32° 13' 49.199 N	103° 22' 48.117 W	
13,500.00	91.55	359.71	11,861.71	1,784.75	-904.16	448,936.81	836,113.67	32° 13' 50.189 N	103° 22' 48.112 W	
13,600.00	91.55	359.71	11,859.00	1						



Planning Report - Geographic

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Georgetown FED COM 601H
Company:	Franklin Mountain Energy	TVD Reference:	GL 3392' + 21'RKB @ 3413.00ft (TBD)
Project:	Georgetown - Ouray Site	MD Reference:	GL 3392' + 21'RKB @ 3413.00ft (TBD)
Site:	Lea County NM	North Reference:	Grid
Well:	Georgetown FED COM 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 601H		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
17,200.00	91.55	359.71	11,761.63	5,483.34	-923.20	452,635.40	836,094.63	32° 14' 26.787 N	103° 22' 47.952 W
17,300.00	91.55	359.71	11,758.92	5,583.30	-923.71	452,735.36	836,094.12	32° 14' 27.776 N	103° 22' 47.947 W
17,400.00	91.55	359.71	11,756.22	5,683.27	-924.23	452,835.33	836,093.60	32° 14' 28.765 N	103° 22' 47.943 W
17,500.00	91.55	359.71	11,753.51	5,783.23	-924.74	452,935.29	836,093.09	32° 14' 29.754 N	103° 22' 47.939 W
17,600.00	91.55	359.71	11,750.81	5,883.19	-925.26	453,035.25	836,092.57	32° 14' 30.743 N	103° 22' 47.934 W
17,700.00	91.55	359.71	11,748.10	5,983.15	-925.77	453,135.21	836,092.06	32° 14' 31.732 N	103° 22' 47.930 W
17,800.00	91.55	359.71	11,745.40	6,083.12	-926.28	453,235.17	836,091.55	32° 14' 32.721 N	103° 22' 47.926 W
17,900.00	91.55	359.71	11,742.69	6,183.08	-926.80	453,335.14	836,091.03	32° 14' 33.711 N	103° 22' 47.921 W
18,000.00	91.55	359.71	11,739.99	6,283.04	-927.31	453,435.10	836,090.52	32° 14' 34.700 N	103° 22' 47.917 W
18,100.00	91.55	359.71	11,737.28	6,383.00	-927.83	453,535.06	836,090.00	32° 14' 35.689 N	103° 22' 47.913 W
18,200.00	91.55	359.71	11,734.58	6,482.96	-928.34	453,635.02	836,089.49	32° 14' 36.678 N	103° 22' 47.908 W
18,300.00	91.55	359.71	11,731.87	6,582.93	-928.86	453,734.98	836,088.97	32° 14' 37.667 N	103° 22' 47.904 W
18,400.00	91.55	359.71	11,729.17	6,682.89	-929.37	453,834.94	836,088.46	32° 14' 38.656 N	103° 22' 47.900 W
18,500.00	91.55	359.71	11,726.46	6,782.85	-929.89	453,934.91	836,087.94	32° 14' 39.645 N	103° 22' 47.895 W
18,600.00	91.55	359.71	11,723.76	6,882.81	-930.40	454,034.87	836,087.43	32° 14' 40.634 N	103° 22' 47.891 W
18,700.00	91.55	359.71	11,721.05	6,982.77	-930.92	454,134.83	836,086.92	32° 14' 41.624 N	103° 22' 47.887 W
18,800.00	91.55	359.71	11,718.35	7,082.74	-931.43	454,234.79	836,086.40	32° 14' 42.613 N	103° 22' 47.882 W
18,900.00	91.55	359.71	11,715.64	7,182.70	-931.94	454,334.75	836,085.89	32° 14' 43.602 N	103° 22' 47.878 W
19,000.00	91.55	359.71	11,712.94	7,282.66	-932.46	454,434.72	836,085.37	32° 14' 44.591 N	103° 22' 47.874 W
19,100.00	91.55	359.71	11,710.23	7,382.62	-932.97	454,534.68	836,084.86	32° 14' 45.580 N	103° 22' 47.869 W
19,200.00	91.55	359.71	11,707.53	7,482.58	-933.				



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Project:	Georgetown - Ouray Site	MD Reference:	GL 3392' + 21'RKB @ 3413.00ft (TBD)
Site:	Lea County NM	North Reference:	Grid
Well:	Georgetown FED COM 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 601H		
Design:	Plan #1		

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
601H BHL	0.00	0.07	11,637.16	10,082.97	-946.87	457,235.02	836,070.96	32° 15' 12.300 N	103° 22' 47.752 W
- plan hits target center									
- Point									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
21.00	21.00	Cenozoic Alluvium (surface)		-1.55	359.71
968.00	968.00	Rustler		-1.55	359.71
1,065.00	1,065.00	Salado		-1.55	359.71
2,990.00	2,990.00	Base Salt		-1.55	359.71
5,299.87	5,286.06	Lamar		-1.55	359.71
5,404.66	5,390.06	Bell Canyon		-1.55	359.71
6,317.58	6,296.09	Cherry Canyon		-1.55	359.71
7,669.82	7,638.13	Brushy Canyon		-1.55	359.71
8,988.81	8,947.17	Bone Spring Lime		-1.55	359.71
9,015.01	8,973.17	Avalon		-1.55	359.71
10,114.34	10,064.21	First Bone Spring Sand		-1.55	359.71
10,283.62	10,232.21	Second Bone Spring Carbonates		-1.55	359.71
10,692.37	10,639.22	Second Bone Spring Sand		-1.55	359.71
11,216.52	11,163.22	Third Bone Spring Carbonates		-1.55	359.71
11,669.29	11,603.22	Third Bone Spring Sand		-1.55	359.71
12,278.45	11,894.63	11910' VS @ SL 91.55° UpDip		-1.55	359.71

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3,000.00	3,000.00	0.00	0.00	Start Build 1.00
3,704.24	3,702.47	-0.62	-43.22	Start 6594.82 hold at 3704.24 MD
10,299.06	10,247.53	-12.15	-851.69	Start Drop -1.00
11,003.30	10,950.00	-12.77	-894.91	Start 371.68 hold at 11003.30 MD
11,374.98	11,321.68	-12.77	-894.91	Start Build 10.00
12,290.48	11,894.43	575.68	-897.94	Start 9510.90 hold at 12290.47 MD
21,801.37	11,637.16	10,082.97	-946.87	TD at 21801.37