

Georgetown - Ouray Site
Georgetown FED COM 301H
Lateral Profile 301H
Plan #1
TBD



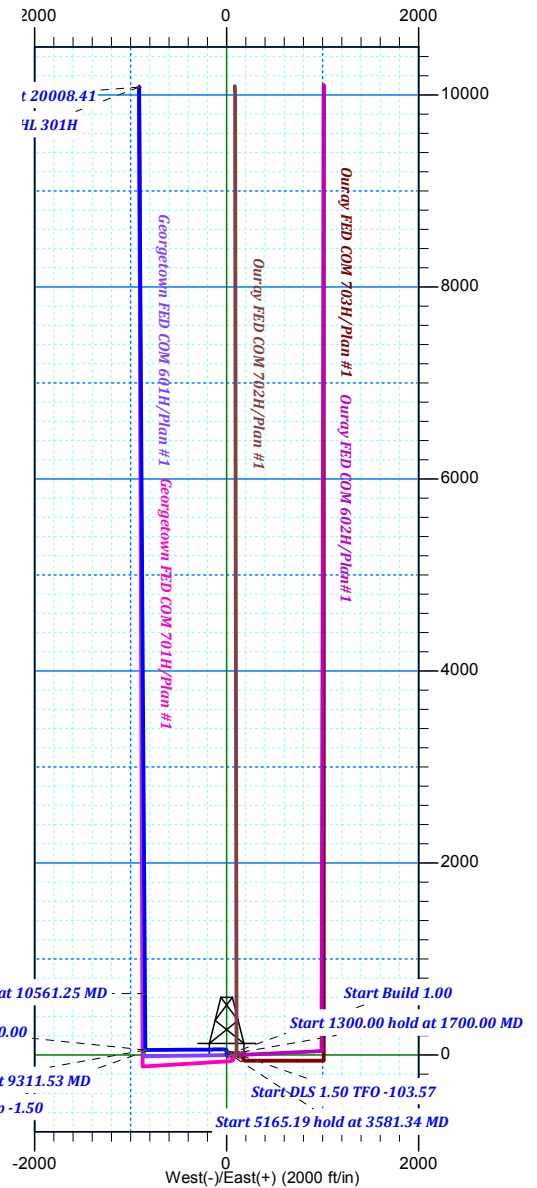
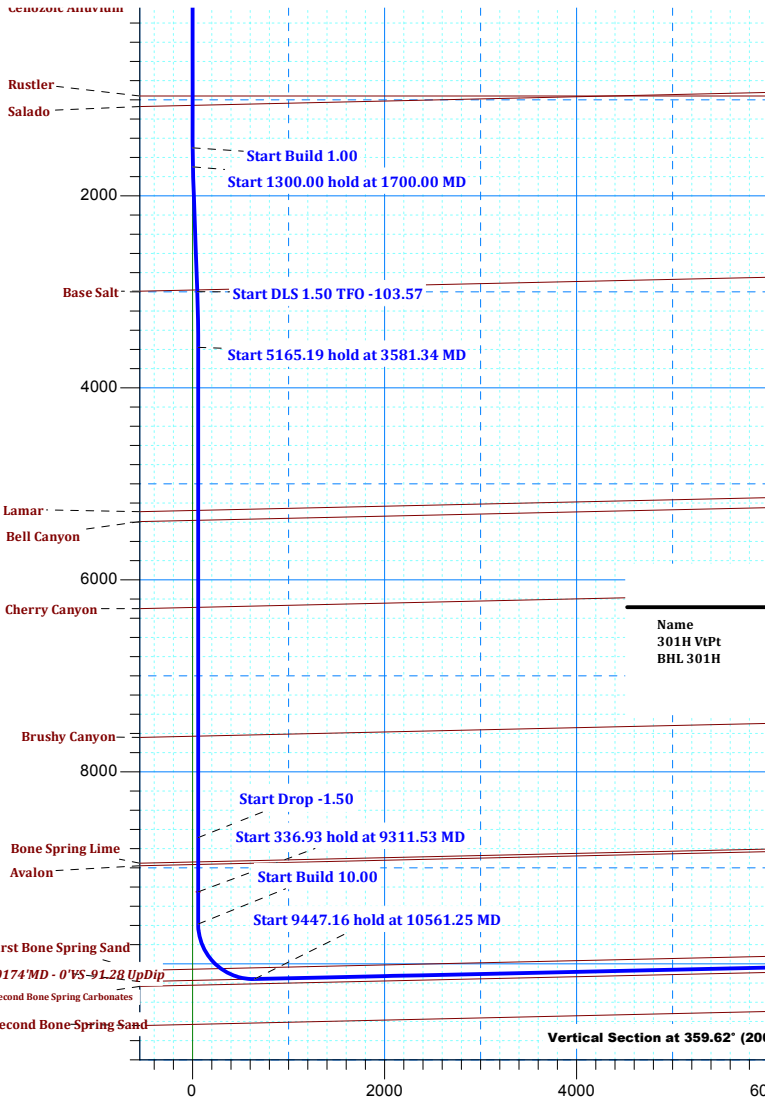
SURFACE LOCATION

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

Northing	Easting	Latitude	Longitude	Slot
447151.76	836982.84	32° 13' 32.450 N	103° 22' 38.179 W	

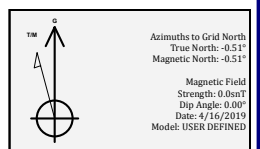
SECTION DETAILS

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
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00
1700.00	2.00	0.00	1699.96	3.49	0.00	1.00	0.00	3.49
3000.00	2.00	0.00	2999.17	48.86	0.00	0.00	0.00	48.86
3581.34	8.47	269.59	3578.27	58.71	-42.92	1.50	-103.57	59.00
8746.53	8.47	269.59	8687.06	53.24	-804.13	0.00	0.00	58.57
9311.53	0.00	0.00	9250.00	52.94	-845.84	1.50	180.00	58.54
9648.45	0.00	0.00	9586.93	52.94	-845.84	0.00	0.00	58.54
10561.25	91.28	359.62	10159.74	638.68	-849.70	10.00	359.62	644.30
20008.41	91.28	359.62	9948.71	10083.28	-911.88	0.00	0.00	10089.11



WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
301H VtPt	9250.00	52.94	-845.84	447204.70	836137.00
BHL 301H	9948.71	10083.28	-911.88	457235.02	836070.96





Franklin Mountain Energy

Georgetown - Ouray Site

Lea County NM

Georgetown FED COM 301H

Lateral Profile 301H

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 301H
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 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 301H		
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 301H, Section 4: T24S R35E BHL					
Well Position	+N/-S	-0.92 ft	Northing:	447,151.76 usft	Latitude:	32° 13' 32.450 N
	+E/-W	-104.98 ft	Easting:	836,982.84 usft	Longitude:	103° 22' 38.179 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	3,392.00 ft

Wellbore	Lateral Profile 301H				
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	359.62

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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,700.00	2.00	0.00	1,699.96	3.49	0.00	1.00	1.00	0.00	0.00	
3,000.00	2.00	0.00	2,999.17	48.86	0.00	0.00	0.00	0.00	0.00	
3,581.34	8.47	269.59	3,578.27	58.71	-42.92	1.50	1.11	-15.55	-103.57	
8,746.53	8.47	269.59	8,687.06	53.24	-804.13	0.00	0.00	0.00	0.00	
9,311.53	0.00	0.00	9,250.00	52.94	-845.84	1.50	-1.50	0.00	180.00	
9,648.45	0.00	0.00	9,586.93	52.94	-845.84	0.00	0.00	0.00	0.00	
10,561.25	91.28	359.62	10,159.74	638.68	-849.70	10.00	10.00	0.00	359.62	
20,008.42	91.28	359.62	9,948.71	10,083.28	-911.88	0.00	0.00	0.00	0.00	BHL 301H



Planning Report

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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 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 301H		
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									
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
961.00	0.00	0.00	961.00	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
1,058.00	0.00	0.00	1,058.00	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
Start Build 1.00									
1,600.00	1.00	0.00	1,599.99	0.87	0.00	0.87	1.00	1.00	0.00
1,700.00	2.00	0.00	1,699.96	3.49	0.00	3.49	1.00	1.00	0.00
Start 1300.00 hold at 1700.00 MD									
1,800.00	2.00	0.00	1,799.90	6.98	0.00	6.98	0.00	0.00	0.00
1,900.00	2.00	0.00	1,899.84	10.47	0.00	10.47	0.00	0.00	0.00
2,000.00	2.00	0.00	1,999.78	13.96	0.00	13.96	0.00	0.00	0.00
2,100.00	2.00	0.00	2,099.72	17.45	0.00	17.45	0.00	0.00	0.00
2,200.00	2.00	0.00	2,199.65	20.94	0.00	20.94	0.00	0.00	0.00
2,300.00	2.00	0.00	2,299.59	24.43	0.00	24.43	0.00	0.00	0.00
2,400.00	2.00	0.00	2,399.53	27.92	0.00	27.92	0.00	0.00	0.00
2,500.00	2.00	0.00	2,499.47	31.41	0.00	31.41	0.00	0.00	0.00
2,600.00	2.00	0.00	2,599.41	34.90	0.00	34.90	0.00	0.00	0.00
2,700.00	2.00	0.00	2,699.35	38.39	0.00	38.39	0.00	0.00	0.00
2,800.00	2.00	0.00	2,799.29	41.88	0.00	41.88	0.00	0.00	0.00
2,900.00	2.00	0.00	2,899.23	45.37	0.00	45.37	0.00	0.00	0.00
2,982.74	2.00	0.00	2,981.92	48.26	0.00	48.26	0.00	0.00	0.00
Base Salt									
3,000.00	2.00	0.00	2,999.17	48.86	0.00	48.86	0.00	0.00	0.00
Start DLS 1.50 TFO -103.57									
3,100.00	2.20	318.49	3,099.11	52.04	-1.27	52.05	1.50	0.20	-41.51
3,200.00	3.19	293.93	3,199.00	54.61	-5.09	54.64	1.50	0.99	-24.56
3,300.00	4.47	282.13	3,298.77	56.56	-11.45	56.63	1.50	1.28	-11.80
3,400.00	5.86	275.73	3,398.37	57.89	-20.34	58.02	1.50	1.39	-6.40
3,500.00	7.29	271.80	3,497.70	58.60	-31.77	58.80	1.50	1.43	-3.93
3,581.34	8.47	269.59	3,578.27	58.71	-42.92	59.00	1.50	1.45	-2.72
Start 5165.19 hold at 3581.34 MD									
3,600.00	8.47	269.59	3,596.73	58.69	-45.67	59.00	0.00	0.00	0.00
3,700.00	8.47	269.59	3,695.64	58.59	-60.41	58.99	0.00	0.00	0.00
3,800.00	8.47	269.59	3,794.55	58.48	-75.14	58.98	0.00	0.00	0.00
3,900.00	8.47	269.59	3,893.46	58.38	-89.88	58.97	0.00	0.00	0.00



Planning Report

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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 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 301H		
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)
4,000.00	8.47	269.59	3,992.36	58.27	-104.62	58.96	0.00	0.00	0.00
4,100.00	8.47	269.59	4,091.27	58.16	-119.36	58.95	0.00	0.00	0.00
4,200.00	8.47	269.59	4,190.18	58.06	-134.09	58.95	0.00	0.00	0.00
4,300.00	8.47	269.59	4,289.09	57.95	-148.83	58.94	0.00	0.00	0.00
4,400.00	8.47	269.59	4,388.00	57.85	-163.57	58.93	0.00	0.00	0.00
4,500.00	8.47	269.59	4,486.90	57.74	-178.31	58.92	0.00	0.00	0.00
4,600.00	8.47	269.59	4,585.81	57.63	-193.04	58.91	0.00	0.00	0.00
4,700.00	8.47	269.59	4,684.72	57.53	-207.78	58.90	0.00	0.00	0.00
4,800.00	8.47	269.59	4,783.63	57.42	-222.52	58.90	0.00	0.00	0.00
4,900.00	8.47	269.59	4,882.54	57.32	-237.26	58.89	0.00	0.00	0.00
5,000.00	8.47	269.59	4,981.44	57.21	-251.99	58.88	0.00	0.00	0.00
5,100.00	8.47	269.59	5,080.35	57.10	-266.73	58.87	0.00	0.00	0.00
5,200.00	8.47	269.59	5,179.26	57.00	-281.47	58.86	0.00	0.00	0.00
5,299.51	8.47	269.59	5,277.69	56.89	-296.13	58.85	0.00	0.00	0.00
Lamar									
5,300.00	8.47	269.59	5,278.17	56.89	-296.21	58.85	0.00	0.00	0.00
5,400.00	8.47	269.59	5,377.08	56.79	-310.94	58.85	0.00	0.00	0.00
5,404.66	8.47	269.59	5,381.69	56.78	-311.63	58.85	0.00	0.00	0.00
Bell Canyon									
5,500.00	8.47	269.59	5,475.98	56.68	-325.68	58.84	0.00	0.00	0.00
5,600.00	8.47	269.59	5,574.89	56.57	-340.42	58.83	0.00	0.00	0.00
5,700.00	8.47	269.59	5,673.80	56.47	-355.15	58.82	0.00	0.00	0.00
5,800.00	8.47	269.59	5,772.71	56.36	-369.89	58.81	0.00	0.00	0.00
5,900.00	8.47	269.59	5,871.62	56.25	-384.63	58.80	0.00	0.00	0.00
6,000.00	8.47	269.59	5,970.52	56.15	-399.37	58.80	0.00	0.00	0.00
6,100.00	8.47	269.59	6,069.43	56.04	-414.10	58.79	0.00	0.00	0.00
6,200.00	8.47	269.59	6,168.34	55.94	-428.84	58.78	0.00	0.00	0.00
6,300.00	8.47	269.59	6,267.25	55.83	-443.58	58.77	0.00	0.00	0.00
6,320.66	8.47	269.59	6,287.69	55.81	-446.62	58.77	0.00	0.00	0.00
Cherry Canyon									
6,400.00	8.47	269.59	6,366.16	55.72	-458.32	58.76	0.00	0.00	0.00
6,500.00	8.47	269.59	6,465.06	55.62	-473.05	58.75	0.00	0.00	0.00
6,600.00	8.47	269.59	6,563.97	55.51	-487.79	58.75	0.00	0.00	0.00
6,700.00	8.47	269.59	6,662.88	55.41	-502.53	58.74	0.00	0.00	0.00
6,800.00	8.47	269.59	6,761.79	55.30	-517.27	58.73	0.00	0.00	0.00
6,900.00	8.47	269.59	6,860.70	55.19	-532.00	58.72	0.00	0.00	0.00
7,000.00	8.47	269.59	6,959.60	55.09	-546.74	58.71	0.00	0.00	0.00
7,100.00	8.47	269.59	7,058.51	54.98	-561.48	58.70	0.00	0.00	0.00
7,200.00	8.47	269.59	7,157.42	54.88	-576.22	58.70	0.00	0.00	0.00
7,300.00	8.47	269.59	7,256.33	54.77	-590.95	58.69	0.00	0.00	0.00
7,400.00	8.47	269.59	7,355.24	54.66	-605.69	58.68	0.00	0.00	0.00
7,500.00	8.47	269.59	7,454.14	54.56	-620.43	58.67	0.00	0.00	0.00
7,600.00	8.47	269.59	7,553.05	54.45	-635.16	58.66	0.00	0.00	0.00
7,677.48	8.47	269.59	7,629.69	54.37	-646.58	58.66	0.00	0.00	0.00
Brushy Canyon									
7,700.00	8.47	269.59	7,651.96	54.35	-649.90	58.65	0.00	0.00	0.00
7,800.00	8.47	269.59	7,750.87	54.24	-664.64	58.65	0.00	0.00	0.00
7,900.00	8.47	269.59	7,849.78	54.13	-679.38	58.64	0.00	0.00	0.00
8,000.00	8.47	269.59	7,948.68	54.03	-694.11	58.63	0.00	0.00	0.00
8,100.00	8.47	269.59	8,047.59	53.92	-708.85	58.62	0.00	0.00	0.00
8,200.00	8.47	269.59	8,146.50	53.82	-723.59	58.61	0.00	0.00	0.00
8,300.00	8.47	269.59	8,245.41	53.71	-738.33	58.60	0.00	0.00	0.00
8,400.00	8.47	269.59	8,344.32	53.60	-753.06	58.60	0.00	0.00	0.00
8,500.00	8.47	269.59	8,443.22	53.50	-767.80	58.59	0.00	0.00	0.00



Planning Report

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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 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 301H		
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)
8,600.00	8.47	269.59	8,542.13	53.39	-782.54	58.58	0.00	0.00	0.00
8,700.00	8.47	269.59	8,641.04	53.28	-797.28	58.57	0.00	0.00	0.00
8,746.53	8.47	269.59	8,687.06	53.24	-804.13	58.57	0.00	0.00	0.00
Start Drop -1.50									
8,800.00	7.67	269.59	8,740.00	53.18	-811.64	58.56	1.50	-1.50	0.00
8,900.00	6.17	269.59	8,839.27	53.09	-823.70	58.56	1.50	-1.50	0.00
8,999.87	4.67	269.59	8,938.69	53.03	-833.13	58.55	1.50	-1.50	0.00
Bone Spring Lime									
9,000.00	4.67	269.59	8,938.82	53.03	-833.15	58.55	1.50	-1.50	0.00
9,025.95	4.28	269.59	8,964.69	53.01	-835.17	58.55	1.50	-1.50	0.00
Avalon									
9,100.00	3.17	269.59	9,038.58	52.98	-839.99	58.55	1.50	-1.50	0.00
9,200.00	1.67	269.59	9,138.49	52.95	-844.21	58.54	1.50	-1.50	0.00
9,300.00	0.17	269.59	9,238.47	52.94	-845.82	58.54	1.50	-1.50	0.00
9,311.53	0.00	0.00	9,250.00	52.94	-845.84	58.54	1.50	-1.50	0.00
Start 336.93 hold at 9311.53 MD - 301H VtPt									
9,400.00	0.00	0.00	9,338.47	52.94	-845.84	58.54	0.00	0.00	0.00
9,500.00	0.00	0.00	9,438.47	52.94	-845.84	58.54	0.00	0.00	0.00
9,600.00	0.00	0.00	9,538.47	52.94	-845.84	58.54	0.00	0.00	0.00
9,648.45	0.00	0.00	9,586.93	52.94	-845.84	58.54	0.00	0.00	0.00
Start Build 10.00									
9,700.00	5.15	359.62	9,638.41	55.25	-845.86	60.86	10.00	10.00	0.00
9,800.00	15.15	359.62	9,736.71	72.86	-845.97	78.47	10.00	10.00	0.00
9,900.00	25.15	359.62	9,830.47	107.27	-846.20	112.88	10.00	10.00	0.00
10,000.00	35.15	359.62	9,916.83	157.44	-846.53	163.05	10.00	10.00	0.00
10,100.00	45.15	359.62	9,993.16	221.84	-846.95	227.46	10.00	10.00	0.00
10,188.38	53.99	359.62	10,050.42	289.05	-847.40	294.67	10.00	10.00	0.00
First Bone Spring Sand									
10,200.00	55.15	359.62	10,057.15	298.52	-847.46	304.14	10.00	10.00	0.00
10,300.00	65.15	359.62	10,106.85	385.15	-848.03	390.76	10.00	10.00	0.00
10,400.00	75.15	359.62	10,140.76	479.09	-848.65	484.71	10.00	10.00	0.00
10,500.00	85.15	359.62	10,157.84	577.49	-849.30	583.11	10.00	10.00	0.00
10,548.72	90.03	359.62	10,159.88	626.15	-849.62	631.77	10.00	10.00	0.00
10174'MD - 0°VS 91.28 UpDip									
10,561.25	91.28	359.62	10,159.74	638.68	-849.70	644.30	10.00	10.00	0.00
Start 9447.16 hold at 10561.25 MD									
10,600.00	91.28	359.62	10,158.88	677.42	-849.95	683.04	0.00	0.00	0.00
10,700.00	91.28	359.62	10,156.64	777.39	-850.61	783.01	0.00	0.00	0.00
10,800.00	91.28	359.62	10,154.41	877.36	-851.27	882.99	0.00	0.00	0.00
10,900.00	91.28	359.62	10,152.17	977.34	-851.93	982.96	0.00	0.00	0.00
11,000.00	91.28	359.62	10,149.94	1,077.31	-852.59	1,082.94	0.00	0.00	0.00
11,100.00	91.28	359.62	10,147.71	1,177.28	-853.24	1,182.91	0.00	0.00	0.00
11,200.00	91.28	359.62	10,145.47	1,277.25	-853.90	1,282.89	0.00	0.00	0.00
11,300.00	91.28	359.62	10,143.24	1,377.23	-854.56	1,382.86	0.00	0.00	0.00
11,400.00	91.28	359.62	10,141.00	1,477.20	-855.22	1,482.84	0.00	0.00	0.00
11,500.00	91.28	359.62	10,138.77	1,577.17	-855.88	1,582.81	0.00	0.00	0.00
11,600.00	91.28	359.62	10,136.54	1,677.15	-856.54	1,682.79	0.00	0.00	0.00
11,700.00	91.28	359.62	10,134.30	1,777.12	-857.19	1,782.76	0.00	0.00	0.00
11,800.00	91.28	359.62	10,132.07	1,877.09	-857.85	1,882.74	0.00	0.00	0.00
11,900.00	91.28	359.62	10,129.84	1,977.06	-858.51	1,982.71	0.00	0.00	0.00
12,000.00	91.28	359.62	10,127.60	2,077.04	-859.17	2,082.69	0.00	0.00	0.00
12,100.00	91.28	359.62	10,125.37	2,177.01	-859.83	2,182.66	0.00	0.00	0.00
12,200.00	91.28	359.62	10,123.13	2,276.98	-860.48	2,282.64	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Georgetown FED COM 301H
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 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 301H		
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)
12,300.00	91.28	359.62	10,120.90	2,376.96	-861.14	2,382.61	0.00	0.00	0.00
12,400.00	91.28	359.62	10,118.67	2,476.93	-861.80	2,482.59	0.00	0.00	0.00
12,500.00	91.28	359.62	10,116.43	2,576.90	-862.46	2,582.57	0.00	0.00	0.00
12,600.00	91.28	359.62	10,114.20	2,676.87	-863.12	2,682.54	0.00	0.00	0.00
12,700.00	91.28	359.62	10,111.97	2,776.85	-863.78	2,782.52	0.00	0.00	0.00
12,800.00	91.28	359.62	10,109.73	2,876.82	-864.43	2,882.49	0.00	0.00	0.00
12,900.00	91.28	359.62	10,107.50	2,976.79	-865.09	2,982.47	0.00	0.00	0.00
13,000.00	91.28	359.62	10,105.26	3,076.77	-865.75	3,082.44	0.00	0.00	0.00
13,100.00	91.28	359.62	10,103.03	3,176.74	-866.41	3,182.42	0.00	0.00	0.00
13,200.00	91.28	359.62	10,100.80	3,276.71	-867.07	3,282.39	0.00	0.00	0.00
13,300.00	91.28	359.62	10,098.56	3,376.68	-867.73	3,382.37	0.00	0.00	0.00
13,400.00	91.28	359.62	10,096.33	3,476.66	-868.38	3,482.34	0.00	0.00	0.00
13,500.00	91.28	359.62	10,094.09	3,576.63	-869.04	3,582.32	0.00	0.00	0.00
13,600.00	91.28	359.62	10,091.86	3,676.60	-869.70	3,682.29	0.00	0.00	0.00
13,700.00	91.28	359.62	10,089.63	3,776.58	-870.36	3,782.27	0.00	0.00	0.00
13,800.00	91.28	359.62	10,087.39	3,876.55	-871.02	3,882.24	0.00	0.00	0.00
13,900.00	91.28	359.62	10,085.16	3,976.52	-871.67	3,982.22	0.00	0.00	0.00
14,000.00	91.28	359.62	10,082.93	4,076.49	-872.33	4,082.19	0.00	0.00	0.00
14,100.00	91.28	359.62	10,080.69	4,176.47	-872.99	4,182.17	0.00	0.00	0.00
14,200.00	91.28	359.62	10,078.46	4,276.44	-873.65	4,282.14	0.00	0.00	0.00
14,300.00	91.28	359.62	10,076.22	4,376.41	-874.31	4,382.12	0.00	0.00	0.00
14,400.00	91.28	359.62	10,073.99	4,476.39	-874.97	4,482.09	0.00	0.00	0.00
14,500.00	91.28	359.62	10,071.76	4,576.36	-875.62	4,582.07	0.00	0.00	0.00
14,600.00	91.28	359.62	10,069.52	4,676.33	-876.28	4,682.04	0.00	0.00	0.00
14,700.00	91.28	359.62	10,067.29	4,776.31	-876.94	4,782.02	0.00	0.00	0.00
14,800.00	91.28	359.62	10,065.05	4,876.28	-877.60	4,881.99	0.00	0.00	0.00
14,900.00	91.28	359.62	10,062.82	4,976.25	-878.26	4,981.97	0.00	0.00	0.00
15,000.00	91.28	359.62	10,060.59	5,076.22	-878.92	5,081.94	0.00	0.00	0.00
15,100.00	91.28	359.62	10,058.35	5,176.20	-879.57	5,181.92	0.00	0.00	0.00
15,200.00	91.28	359.62	10,056.12	5,276.17	-880.23	5,281.89	0.00	0.00	0.00
15,300.00	91.28	359.62	10,053.89	5,376.14	-880.89	5,381.87	0.00	0.00	0.00
15,400.00	91.28	359.62	10,051.65	5,476.12	-881.55	5,481.84	0.00	0.00	0.00
15,500.00	91.28	359.62	10,049.42	5,576.09	-882.21	5,581.82	0.00	0.00	0.00
15,600.00	91.28	359.62	10,047.18	5,676.06	-882.86	5,681.79	0.00	0.00	0.00
15,700.00	91.28	359.62	10,044.95	5,776.03	-883.52	5,781.77	0.00	0.00	0.00
15,800.00	91.28	359.62	10,042.72	5,876.01	-884.18	5,881.74	0.00	0.00	0.00
15,900.00	91.28	359.62	10,040.48	5,975.98	-884.84	5,981.72	0.00	0.00	0.00
16,000.00	91.28	359.62	10,038.25	6,075.95	-885.50	6,081.69	0.00	0.00	0.00
16,100.00	91.28	359.62	10,036.01	6,175.93	-886.16	6,181.67	0.00	0.00	0.00
16,200.00	91.28	359.62	10,033.78	6,275.90	-886.81	6,281.64	0.00	0.00	0.00
16,300.00	91.28	359.62	10,031.55	6,375.87	-887.47	6,381.62	0.00	0.00	0.00
16,400.00	91.28	359.62	10,029.31	6,475.84	-888.13	6,481.59	0.00	0.00	0.00
16,500.00	91.28	359.62	10,027.08	6,575.82	-888.79	6,581.57	0.00	0.00	0.00
16,600.00	91.28	359.62	10,024.85	6,675.79	-889.45	6,681.54	0.00	0.00	0.00
16,700.00	91.28	359.62	10,022.61	6,775.76	-890.10	6,781.52	0.00	0.00	0.00
16,800.00	91.28	359.62	10,020.38	6,875.74	-890.76	6,881.49	0.00	0.00	0.00
16,900.00	91.28	359.62	10,018.14	6,975.71	-891.42	6,981.47	0.00	0.00	0.00
17,000.00	91.28	359.62	10,015.91	7,075.68	-892.08	7,081.44	0.00	0.00	0.00
17,100.00	91.28	359.62	10,013.68	7,175.65	-892.74	7,181.42	0.00	0.00	0.00
17,200.00	91.28	359.62	10,011.44	7,275.63	-893.40	7,281.39	0.00	0.00	0.00
17,300.00	91.28	359.62	10,009.21	7,375.60	-894.05	7,381.37	0.00	0.00	0.00
17,400.00	91.28	359.62	10,006.97	7,475.57	-894.71	7,481.34	0.00	0.00	0.00
17,500.00	91.28	359.62	10,004.74	7,575.55	-895.37	7,581.32	0.00	0.00	0.00
17,600.00	91.28	359.62	10,002.51	7,675.52	-896.03	7,681.29	0.00	0.00	0.00



Planning Report

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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 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 301H		
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)
17,700.00	91.28	359.62	10,000.27	7,775.49	-896.69	7,781.27	0.00	0.00	0.00
17,800.00	91.28	359.62	9,998.04	7,875.46	-897.35	7,881.24	0.00	0.00	0.00
17,900.00	91.28	359.62	9,995.81	7,975.44	-898.00	7,981.22	0.00	0.00	0.00
18,000.00	91.28	359.62	9,993.57	8,075.41	-898.66	8,081.19	0.00	0.00	0.00
18,100.00	91.28	359.62	9,991.34	8,175.38	-899.32	8,181.17	0.00	0.00	0.00
18,200.00	91.28	359.62	9,989.10	8,275.36	-899.98	8,281.14	0.00	0.00	0.00
18,300.00	91.28	359.62	9,986.87	8,375.33	-900.64	8,381.12	0.00	0.00	0.00
18,400.00	91.28	359.62	9,984.64	8,475.30	-901.29	8,481.09	0.00	0.00	0.00
18,500.00	91.28	359.62	9,982.40	8,575.27	-901.95	8,581.07	0.00	0.00	0.00
18,600.00	91.28	359.62	9,980.17	8,675.25	-902.61	8,681.04	0.00	0.00	0.00
18,700.00	91.28	359.62	9,977.93	8,775.22	-903.27	8,781.02	0.00	0.00	0.00
18,800.00	91.28	359.62	9,975.70	8,875.19	-903.93	8,880.99	0.00	0.00	0.00
18,900.00	91.28	359.62	9,973.47	8,975.17	-904.59	8,980.97	0.00	0.00	0.00
19,000.00	91.28	359.62	9,971.23	9,075.14	-905.24	9,080.94	0.00	0.00	0.00
19,100.00	91.28	359.62	9,969.00	9,175.11	-905.90	9,180.92	0.00	0.00	0.00
19,200.00	91.28	359.62	9,966.77	9,275.08	-906.56	9,280.89	0.00	0.00	0.00
19,300.00	91.28	359.62	9,964.53	9,375.06	-907.22	9,380.87	0.00	0.00	0.00
19,400.00	91.28	359.62	9,962.30	9,475.03	-907.88	9,480.84	0.00	0.00	0.00
19,500.00	91.28	359.62	9,960.06	9,575.00	-908.54	9,580.82	0.00	0.00	0.00
19,600.00	91.28	359.62	9,957.83	9,674.98	-909.19	9,680.79	0.00	0.00	0.00
19,700.00	91.28	359.62	9,955.60	9,774.95	-909.85	9,780.77	0.00	0.00	0.00
19,800.00	91.28	359.62	9,953.36	9,874.92	-910.51	9,880.74	0.00	0.00	0.00
19,900.00	91.28	359.62	9,951.13	9,974.89	-911.17	9,980.72	0.00	0.00	0.00
20,000.00	91.28	359.62	9,948.90	10,074.87	-911.83	10,080.69	0.00	0.00	0.00
20,008.42	91.28	359.62	9,948.71	10,083.28	-911.88	10,089.11	0.00	0.00	0.00
TD at 20008.41 - BHL 301H									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
301H VtPt	0.00	0.00	9,250.00	52.94	-845.84	447,204.70	836,137.00	32° 13' 33.048 N	103° 22' 48.020 W
- plan hits target center									
- Point									
BHL 301H	0.00	0.07	9,948.71	10,083.28	-911.88	457,235.02	836,070.96	32° 15' 12.300 N	103° 22' 47.752 W
- plan hits target center									
- Point									



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Georgetown FED COM 301H
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 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 301H		
Design:	Plan #1		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
21.00	21.00	Cenozoic Alluvium		0.00	359.62
961.00	961.00	Rustler		0.00	359.62
1,058.00	1,058.00	Salado		-1.28	359.62
2,982.74	2,981.92	Base Salt		-1.28	359.62
5,299.51	5,277.69	Lamar		-1.28	359.62
5,404.66	5,381.69	Bell Canyon		-1.28	359.62
6,320.66	6,287.69	Cherry Canyon		-1.28	359.62
7,677.48	7,629.69	Brushy Canyon		-1.28	359.62
8,999.87	8,938.69	Bone Spring Lime		-1.28	359.62
9,025.95	8,964.69	Avalon		-1.28	359.62
10,188.38	10,050.42	First Bone Spring Sand		-1.28	359.62
10,548.72	10,159.88	10174'MD - 0'VS 91.28 UpDip		-1.28	359.62

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,500.00	1,500.00	0.00	0.00	Start Build 1.00
1,700.00	1,699.96	3.49	0.00	Start 1300.00 hold at 1700.00 MD
3,000.00	2,999.17	48.86	0.00	Start DLS 1.50 TFO -103.57
3,581.34	3,578.27	58.71	-42.92	Start 5165.19 hold at 3581.34 MD
8,746.53	8,687.06	53.24	-804.13	Start Drop -1.50
9,311.53	9,250.00	52.94	-845.84	Start 336.93 hold at 9311.53 MD
9,648.45	9,586.93	52.94	-845.84	Start Build 10.00
10,561.25	10,159.74	638.68	-849.70	Start 9447.16 hold at 10561.25 MD
20,008.42	9,948.71	10,083.28	-911.88	TD at 20008.41



Franklin Mountain Energy

Georgetown - Ouray Site

Lea County NM

Georgetown FED COM 301H

Lateral Profile 301H

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 301H
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 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 301H		
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 301H, Section 4: T24S R35E BHL					
Well Position	+N/-S	0.00 ft	Northing:	447,151.76 usft	Latitude:	32° 13' 32.450 N
	+E/-W	0.00 ft	Easting:	836,982.84 usft	Longitude:	103° 22' 38.179 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	3,392.00 ft

Wellbore	Lateral Profile 301H				
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	359.62

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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,700.00	2.00	0.00	1,699.96	3.49	0.00	1.00	1.00	0.00	0.00	
3,000.00	2.00	0.00	2,999.17	48.86	0.00	0.00	0.00	0.00	0.00	
3,581.34	8.47	269.59	3,578.27	58.71	-42.92	1.50	1.11	-15.55	-103.57	
8,746.53	8.47	269.59	8,687.06	53.24	-804.13	0.00	0.00	0.00	0.00	
9,311.53	0.00	0.00	9,250.00	52.94	-845.84	1.50	-1.50	0.00	180.00	
9,648.45	0.00	0.00	9,586.93	52.94	-845.84	0.00	0.00	0.00	0.00	
10,561.25	91.28	359.62	10,159.74	638.68	-849.70	10.00	10.00	0.00	359.62	
20,008.42	91.28	359.62	9,948.71	10,083.28	-911.88	0.00	0.00	0.00	0.00	BHL 301H



Planning Report - Geographic

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Georgetown FED COM 301H
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 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 301H		
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	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
21.00	0.00	0.00	21.00	0.00	0.00	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
Cenozoic Alluvium									
100.00	0.00	0.00	100.00	0.00	0.00	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
200.00	0.00	0.00	200.00	0.00	0.00	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
300.00	0.00	0.00	300.00	0.00	0.00	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
400.00	0.00	0.00	400.00	0.00	0.00	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
500.00	0.00	0.00	500.00	0.00	0.00	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
600.00	0.00	0.00	600.00	0.00	0.00	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
700.00	0.00	0.00	700.00	0.00	0.00	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
800.00	0.00	0.00	800.00	0.00	0.00	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
900.00	0.00	0.00	900.00	0.00	0.00	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
961.00	0.00	0.00	961.00	0.00	0.00	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
Rustler									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
1,058.00	0.00	0.00	1,058.00	0.00	0.00	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
Salado									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
1,200.00	0.00	0.00	1,200.00	0.00	0.00	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
1,300.00	0.00	0.00	1,300.00	0.00	0.00	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
1,400.00	0.00	0.00	1,400.00	0.00	0.00	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
1,500.00	0.00	0.00	1,500.00	0.00	0.00	447,151.76	836,982.84	32° 13' 32.450 N	103° 22' 38.179 W
Start Build 1.00									
1,600.00	1.00	0.00	1,599.99	0.87	0.00	447,152.63	836,982.84	32° 13' 32.458 N	103° 22' 38.179 W
1,700.00	2.00	0.00	1,699.96	3.49	0.00	447,155.25	836,982.84	32° 13' 32.484 N	103° 22' 38.179 W
Start 1300.00 hold at 1700.00 MD									
1,800.00	2.00	0.00	1,799.90	6.98	0.00	447,158.74	836,982.84	32° 13' 32.519 N	103° 22' 38.179 W
1,900.00	2.00	0.00	1,899.84	10.47	0.00	447,162.23	836,982.84	32° 13' 32.553 N	103° 22' 38.178 W
2,000.00	2.00	0.00	1,999.78	13.96	0.00	447,165.72	836,982.84	32° 13' 32.588 N	103° 22' 38.178 W
2,100.00	2.00	0.00	2,099.72	17.45	0.00	447,169.21	836,982.84	32° 13' 32.622 N	103° 22' 38.177 W
2,200.00	2.00	0.00	2,199.65	20.94	0.00	447,172.70	836,982.84	32° 13' 32.657 N	103° 22' 38.177 W
2,300.00	2.00	0.00	2,299.59	24.43	0.00	447,176.19	836,982.84	32° 13' 32.691 N	103° 22' 38.177 W
2,400.00	2.00	0.00	2,399.53	27.92	0.00	447,179.68	836,982.84	32° 13' 32.726 N	103° 22' 38.176 W
2,500.00	2.00	0.00	2,499.47	31.41	0.00	447,183.17	836,982.84	32° 13' 32.760 N	103° 22' 38.176 W
2,600.00	2.00	0.00	2,599.41	34.90	0.00	447,186.66	836,982.84	32° 13' 32.795 N	103° 22' 38.176 W
2,700.00	2.00	0.00	2,699.35	38.39	0.00	447,190.15	836,982.84	32° 13' 32.830 N	103° 22' 38.175 W
2,800.00	2.00	0.00	2,799.29	41.88	0.00	447,193.64	836,982.84	32° 13' 32.864 N	103° 22' 38.175 W
2,900.00	2.00	0.00	2,899.23	45.37	0.00	447,197.13	836,982.84	32° 13' 32.899 N	103° 22' 38.175 W
2,982.74	2.00	0.00	2,981.92	48.26	0.00	447,200.02	836,982.84	32° 13' 32.927 N	103° 22' 38.174 W
Base Salt									
3,000.00	2.00	0.00	2,999.17	48.86	0.00	447,200.62	836,982.84	32° 13' 32.933 N	103° 22' 38.174 W
Start DLS 1.50 TFO -103.57									
3,100.00	2.20	318.49	3,099.11	52.04	-1.27	447,203.80	836,981.57	32° 13' 32.965 N	103° 22' 38.189 W
3,200.00	3.19	293.93	3,199.00	54.61	-5.09	447,206.37	836,977.75	32° 13' 32.990 N	103° 22' 38.233 W
3,300.00	4.47	282.13	3,298.77	56.56	-11.45	447,208.32	836,971.39	32° 13' 33.010 N	103° 22' 38.307 W
3,400.00	5.86	275.73	3,398.37	57.89	-20.34	447,209.65	836,962.50	32° 13' 33.024 N	103° 22' 38.410 W
3,500.00	7.29	271.80	3,497.70	58.60	-31.77	447,210.36	836,951.07	32° 13' 33.032 N	103° 22' 38.543 W
3,581.34	8.47	269.59	3,578.27	58.71	-42.92	447,210.47	836,939.92	32° 13' 33.034 N	103° 22' 38.673 W
Start 5165.19 hold at 3581.34 MD									
3,600.00	8.47	269.59	3,596.73	58.69	-45.67	447,210.45	836,937.17	32° 13' 33.034 N	103° 22' 38.705 W
3,700.00	8.47	269.59	3,695.64	58.59	-60.41	447,210.35	836,922.43	32° 13' 33.035 N	103° 22' 38.876 W
3,800.00	8.47	269.59	3,794.55	58.48	-75.14	447,210.24	836,907.69	32° 13' 33.035 N	103° 22' 39.048 W
3,900.00	8.47	269.59	3,893.46	58.38	-89.88	447,210.14	836,892.96	32° 13' 33.035 N	103° 22' 39.219 W
4,000.00	8.47	269.59	3,992.36	58.27	-104.62	447,210.03	836,878.22	32° 13' 33.035 N	103° 22' 39.391 W



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 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 301H		
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
4,100.00	8.47	269.59	4,091.27	58.16	-119.36	447,209.92	836,863.48	32° 13' 33.036 N	103° 22' 39.563 W
4,200.00	8.47	269.59	4,190.18	58.06	-134.09	447,209.82	836,848.74	32° 13' 33.036 N	103° 22' 39.734 W
4,300.00	8.47	269.59	4,289.09	57.95	-148.83	447,209.71	836,834.01	32° 13' 33.036 N	103° 22' 39.906 W
4,400.00	8.47	269.59	4,388.00	57.85	-163.57	447,209.61	836,819.27	32° 13' 33.036 N	103° 22' 40.077 W
4,500.00	8.47	269.59	4,486.90	57.74	-178.31	447,209.50	836,804.53	32° 13' 33.037 N	103° 22' 40.249 W
4,600.00	8.47	269.59	4,585.81	57.63	-193.04	447,209.39	836,789.80	32° 13' 33.037 N	103° 22' 40.420 W
4,700.00	8.47	269.59	4,684.72	57.53	-207.78	447,209.29	836,775.06	32° 13' 33.037 N	103° 22' 40.592 W
4,800.00	8.47	269.59	4,783.63	57.42	-222.52	447,209.18	836,760.32	32° 13' 33.037 N	103° 22' 40.763 W
4,900.00	8.47	269.59	4,882.54	57.32	-237.26	447,209.08	836,745.58	32° 13' 33.038 N	103° 22' 40.935 W
5,000.00	8.47	269.59	4,981.44	57.21	-251.99	447,208.97	836,730.85	32° 13' 33.038 N	103° 22' 41.107 W
5,100.00	8.47	269.59	5,080.35	57.10	-266.73	447,208.86	836,716.11	32° 13' 33.038 N	103° 22' 41.278 W
5,200.00	8.47	269.59	5,179.26	57.00	-281.47	447,208.76	836,701.37	32° 13' 33.038 N	103° 22' 41.450 W
5,299.51	8.47	269.59	5,277.69	56.89	-296.13	447,208.65	836,686.71	32° 13' 33.039 N	103° 22' 41.620 W
Lamar									
5,300.00	8.47	269.59	5,278.17	56.89	-296.21	447,208.65	836,686.63	32° 13' 33.039 N	103° 22' 41.621 W
5,400.00	8.47	269.59	5,377.08	56.79	-310.94	447,208.55	836,671.90	32° 13' 33.039 N	103° 22' 41.793 W
5,404.66	8.47	269.59	5,381.69	56.78	-311.63	447,208.54	836,671.21	32° 13' 33.039 N	103° 22' 41.801 W
Bell Canyon									
5,500.00	8.47	269.59	5,475.98	56.68	-325.68	447,208.44	836,657.16	32° 13' 33.039 N	103° 22' 41.964 W
5,600.00	8.47	269.59	5,574.89	56.57	-340.42	447,208.33	836,642.42	32° 13' 33.039 N	103° 22' 42.136 W
5,700.00	8.47	269.59	5,673.80	56.47	-355.15	447,208.23	836,627.68	32° 13' 33.040 N	103° 22' 42.308 W
5,800.00	8.47	269.59	5,772.71	56.36	-369.89	447,208.12	836,612.95	32° 13' 33.040 N	103° 22' 42.479 W
5,900.00	8.47	269.59	5,871.62	56.25	-384.63	447,208.01	836,598.21	32° 13' 33.040 N	103° 22' 42.651 W
6,000.00	8.47	269.59	5,970.52	56.15	-399.37	447,207.91	836,583.47	32° 13' 33.040 N	103° 22' 42.822 W
6,100.00	8.47	269.59	6,069.43	56.04	-414.10	447,207.80	836,568.74	32° 13' 33.041 N	103° 22' 42.994 W
6,200.00	8.47	269.59	6,168.34	55.94	-428.84	447,207.70	836,554.00	32° 13' 33.041 N	103° 22' 43.165 W
6,300.00	8.47	269.59	6,267.25	55.83	-443.58	447,207.59	836,539.26	32° 13' 33.041 N	103° 22' 43.337 W
6,320.66	8.47	269.59	6,287.69	55.81	-446.62	447,207.57	836,536.22	32° 13' 33.041 N	103° 22' 43.372 W
Cherry Canyon									
6,400.00	8.47	269.59	6,366.16	55.72	-458.32	447,207.48	836,524.52	32° 13' 33.041 N	103° 22' 43.508 W
6,500.00	8.47	269.59	6,465.06	55.62	-473.05	447,207.38	836,509.79	32° 13' 33.042 N	103° 22' 43.680 W
6,600.00	8.47	269.59	6,563.97	55.51	-487.79	447,207.27	836,495.05	32° 13' 33.042 N	103° 22' 43.852 W
6,700.00	8.47	269.59	6,662.88	55.41	-502.53	447,207.17	836,480.31	32° 13' 33.042 N	103° 22' 44.023 W
6,800.00	8.47	269.59	6,761.79	55.30	-517.27	447,207.06	836,465.57	32° 13' 33.042 N	103° 22' 44.195 W
6,900.00	8.47	269.59	6,860.70	55.19	-532.00	447,206.95	836,450.84	32° 13' 33.043 N	103° 22' 44.366 W
7,000.00	8.47	269.59	6,959.60	55.09	-546.74	447,206.85	836,436.10	32° 13' 33.043 N	103° 22' 44.538 W
7,100.00	8.47	269.59	7,058.51	54.98	-561.48	447,206.74	836,421.36	32° 13' 33.043 N	103° 22' 44.709 W
7,200.00	8.47	269.59	7,157.42	54.88	-576.22	447,206.64	836,406.62	32° 13' 33.043 N	103° 22' 44.881 W
7,300.00	8.47	269.59	7,256.33	54.77	-590.95	447,206.53	836,391.89	32° 13' 33.044 N	103° 22' 45.052 W
7,400.00	8.47	269.59	7,355.24	54.66	-605.69	447,206.42	836,377.15	32° 13' 33.044 N	103° 22' 45.224 W
7,500.00	8.47	269.59	7,454.14	54.56	-620.43	447,206.32	836,362.41	32° 13' 33.044 N	103° 22' 45.396 W
7,600.00	8.47	269.59	7,553.05	54.45	-635.16	447,206.21	836,347.68	32° 13' 33.044 N	103° 22' 45.567 W
7,677.48	8.47	269.59	7,629.69	54.37	-646.58	447,206.13	836,336.26	32° 13' 33.044 N	103° 22' 45.700 W
Brushy Canyon									
7,700.00	8.47	269.59	7,651.96	54.35	-649.90	447,206.11	836,332.94	32° 13' 33.045 N	103° 22' 45.739 W
7,800.00	8.47	269.59	7,750.87	54.24	-664.64	447,206.00	836,318.20	32° 13' 33.045 N	103° 22' 45.910 W
7,900.00	8.47	269.59	7,849.78	54.13	-679.38	447,205.89	836,303.46	32° 13' 33.045 N	103° 22' 46.082 W
8,000.00	8.47	269.59	7,948.68	54.03	-694.11	447,205.79	836,288.73	32° 13' 33.045 N	103° 22' 46.253 W
8,100.00	8.47	269.59	8,047.59	53.92	-708.85	447,205.68	836,273.99	32° 13' 33.046 N	103° 22' 46.425 W
8,200.00	8.47	269.59	8,146.50	53.82	-723.59	447,205.57	836,259.25	32° 13' 33.046 N	103° 22' 46.596 W
8,300.00	8.47	269.59	8,245.41	53.71	-738.33	447,205.47	836,244.51	32° 13' 33.046 N	103° 22' 46.768 W
8,400.00	8.47	269.59	8,344.32	53.60	-753.06	447,205.36	836,229.78	32° 13' 33.046 N	103° 22' 46.940 W
8,500.00	8.47	269.59	8,443.22	53.50	-767.80	447,205.26	836,215.04	32° 13' 33.047 N	103° 22' 47.111 W
8,600.00	8.47	269.59	8,542.13	53.39	-782.54	447,205.15	836,200.30	32° 13' 33.047 N	103° 22' 47.283 W



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 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 301H		
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	
8,700.00	8.47	269.59	8,641.04	53.28	-797.28	447,205.04	836,185.56	32° 13' 33.047 N	103° 22' 47.454 W	
8,746.53	8.47	269.59	8,687.06	53.24	-804.13	447,205.00	836,178.71	32° 13' 33.047 N	103° 22' 47.534 W	
Start Drop -1.50										
8,800.00	7.67	269.59	8,740.00	53.18	-811.64	447,204.94	836,171.20	32° 13' 33.047 N	103° 22' 47.622 W	
8,900.00	6.17	269.59	8,839.27	53.09	-823.70	447,204.85	836,159.15	32° 13' 33.047 N	103° 22' 47.762 W	
8,999.87	4.67	269.59	8,938.69	53.03	-833.13	447,204.79	836,149.71	32° 13' 33.048 N	103° 22' 47.872 W	
Bone Spring Lime										
9,000.00	4.67	269.59	8,938.82	53.03	-833.15	447,204.79	836,149.70	32° 13' 33.048 N	103° 22' 47.872 W	
9,025.95	4.28	269.59	8,964.69	53.01	-835.17	447,204.77	836,147.67	32° 13' 33.048 N	103° 22' 47.895 W	
Avalon										
9,100.00	3.17	269.59	9,038.58	52.98	-839.99	447,204.74	836,142.85	32° 13' 33.048 N	103° 22' 47.951 W	
9,200.00	1.67	269.59	9,138.49	52.95	-844.21	447,204.71	836,138.63	32° 13' 33.048 N	103° 22' 48.001 W	
9,300.00	0.17	269.59	9,238.47	52.94	-845.82	447,204.70	836,137.02	32° 13' 33.048 N	103° 22' 48.019 W	
9,311.53	0.00	0.00	9,250.00	52.94	-845.84	447,204.70	836,137.00	32° 13' 33.048 N	103° 22' 48.020 W	
Start 336.93 hold at 9311.53 MD - 301H VtPt										
9,400.00	0.00	0.00	9,338.47	52.94	-845.84	447,204.70	836,137.00	32° 13' 33.048 N	103° 22' 48.020 W	
9,500.00	0.00	0.00	9,438.47	52.94	-845.84	447,204.70	836,137.00	32° 13' 33.048 N	103° 22' 48.020 W	
9,600.00	0.00	0.00	9,538.47	52.94	-845.84	447,204.70	836,137.00	32° 13' 33.048 N	103° 22' 48.020 W	
9,648.45	0.00	0.00	9,586.93	52.94	-845.84	447,204.70	836,137.00	32° 13' 33.048 N	103° 22' 48.020 W	
Start Build 10.00										
9,700.00	5.15	359.62	9,638.41	55.25	-845.86	447,207.01	836,136.98	32° 13' 33.071 N	103° 22' 48.020 W	
9,800.00	15.15	359.62	9,736.71	72.86	-845.97	447,224.62	836,136.87	32° 13' 33.245 N	103° 22' 48.019 W	
9,900.00	25.15	359.62	9,830.47	107.27	-846.20	447,259.03	836,136.64	32° 13' 33.585 N	103° 22' 48.018 W	
10,000.00	35.15	359.62	9,916.83	157.44	-846.53	447,309.20	836,136.31	32° 13' 34.082 N	103° 22' 48.017 W	
10,100.00	45.15	359.62	9,993.16	221.84	-846.95	447,373.60	836,135.89	32° 13' 34.719 N	103° 22' 48.015 W	
10,188.38	53.99	359.62	10,050.42	289.05	-847.40	447,440.81	836,135.44	32° 13' 35.384 N	103° 22' 48.013 W	
First Bone Spring Sand										
10,200.00	55.15	359.62	10,057.15	298.52	-847.46	447,450.28	836,135.38	32° 13' 35.478 N	103° 22' 48.013 W	
10,300.00	65.15	359.62	10,106.85	385.15	-848.03	447,536.91	836,134.81	32° 13' 36.335 N	103° 22' 48.011 W	
10,400.00	75.15	359.62	10,140.76	479.09	-848.65	447,630.85	836,134.19	32° 13' 37.265 N	103° 22' 48.008 W	
10,500.00	85.15	359.62	10,157.84	577.49	-849.30	447,729.25	836,133.55	32° 13' 38.238 N	103° 22' 48.006 W	
10,548.72	90.03	359.62	10,159.88	626.15	-849.62	447,777.91	836,133.22	32° 13' 38.720 N	103° 22' 48.004 W	
10174'MD - 0°VS 91.28 UpDip										
10,561.25	91.28	359.62	10,159.74	638.68	-849.70	447,790.44	836,133.14	32° 13' 38.844 N	103° 22' 48.004 W	
Start 9447.16 hold at 10561.25 MD										
10,600.00	91.28	359.62	10,158.88	677.42	-849.95	447,829.18	836,132.89	32° 13' 39.227 N	103° 22' 48.003 W	
10,700.00	91.28	359.62	10,156.64	777.39	-850.61	447,929.15	836,132.23	32° 13' 40.216 N	103° 22' 48.000 W	
10,800.00	91.28	359.62	10,154.41	877.36	-851.27	448,029.12	836,131.57	32° 13' 41.206 N	103° 22' 47.998 W	
10,900.00	91.28	359.62	10,152.17	977.34	-851.93	448,129.09	836,130.91	32° 13' 42.195 N	103° 22' 47.995 W	
11,000.00	91.28	359.62	10,149.94	1,077.31	-852.59	448,229.07	836,130.25	32° 13' 43.184 N	103° 22' 47.992 W	
11,100.00	91.28	359.62	10,147.71	1,177.28	-853.24	448,329.04	836,129.60	32° 13' 44.173 N	103° 22' 47.990 W	
11,200.00	91.28	359.62	10,145.47	1,277.25	-853.90	448,429.01	836,128.94	32° 13' 45.163 N	103° 22' 47.987 W	
11,300.00	91.28	359.62	10,143.24	1,377.23	-854.56	448,528.98	836,128.28	32° 13' 46.152 N	103° 22' 47.984 W	
11,400.00	91.28	359.62	10,141.00	1,477.20	-855.22	448,628.96	836,127.62	32° 13' 47.141 N	103° 22' 47.982 W	
11,500.00	91.28	359.62	10,138.77	1,577.17	-855.88	448,728.93	836,126.96	32° 13' 48.131 N	103° 22' 47.979 W	
11,600.00	91.28	359.62	10,136.54	1,677.15	-856.54	448,828.90	836,126.31	32° 13' 49.120 N	103° 22' 47.976 W	
11,700.00	91.28	359.62	10,134.30	1,777.12	-857.19	448,928.88	836,125.65	32° 13' 50.109 N	103° 22' 47.974 W	
11,800.00	91.28	359.62	10,132.07	1,877.09	-857.85	449,028.85	836,124.99	32° 13' 51.098 N	103° 22' 47.971 W	
11,900.00	91.28	359.62	10,129.84	1,977.06	-858.51	449,128.82	836,124.33	32° 13' 52.088 N	103° 22' 47.968 W	
12,000.00	91.28	359.62	10,127.60	2,077.04	-859.17	449,228.79	836,123.67	32° 13' 53.077 N	103° 22' 47.966 W	
12,100.00	91.28	359.62	10,125.37	2,177.01	-859.83	449,328.77	836,123.01	32° 13' 54.066 N	103° 22' 47.963 W	
12,200.00	91.28	359.62	10,123.13	2,276.98	-860.48	449,428.74	836,122.36	32° 13' 55.055 N	103° 22' 47.960 W	
12,300.00	91.28	359.62	10,120.90	2,376.96	-861.14	449,528.71	836,121.70	32° 13' 56.045 N	103° 22' 47.958 W	
12,400.00	91.28	359.62	10,118.67	2,476.93	-861.80	449,628.68	836,121.04	32° 13' 57.034 N	103° 22' 47.955 W	



Planning Report - Geographic

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Georgetown FED COM 301H
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 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 301H		
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	
12,500.00	91.28	359.62	10,116.43	2,576.90	-862.46	449,728.66	836,120.38	32° 13' 58.023 N	103° 22' 47.952 W	
12,600.00	91.28	359.62	10,114.20	2,676.87	-863.12	449,828.63	836,119.72	32° 13' 59.012 N	103° 22' 47.950 W	
12,700.00	91.28	359.62	10,111.97	2,776.85	-863.78	449,928.60	836,119.06	32° 14' 0.002 N	103° 22' 47.947 W	
12,800.00	91.28	359.62	10,109.73	2,876.82	-864.43	450,028.57	836,118.41	32° 14' 0.991 N	103° 22' 47.944 W	
12,900.00	91.28	359.62	10,107.50	2,976.79	-865.09	450,128.55	836,117.75	32° 14' 1.980 N	103° 22' 47.942 W	
13,000.00	91.28	359.62	10,105.26	3,076.77	-865.75	450,228.52	836,117.09	32° 14' 2.969 N	103° 22' 47.939 W	
13,100.00	91.28	359.62	10,103.03	3,176.74	-866.41	450,328.49	836,116.43	32° 14' 3.959 N	103° 22' 47.936 W	
13,200.00	91.28	359.62	10,100.80	3,276.71	-867.07	450,428.47	836,115.77	32° 14' 4.948 N	103° 22' 47.934 W	
13,300.00	91.28	359.62	10,098.56	3,376.68	-867.73	450,528.44	836,115.12	32° 14' 5.937 N	103° 22' 47.931 W	
13,400.00	91.28	359.62	10,096.33	3,476.66	-868.38	450,628.41	836,114.46	32° 14' 6.926 N	103° 22' 47.928 W	
13,500.00	91.28	359.62	10,094.09	3,576.63	-869.04	450,728.38	836,113.80	32° 14' 7.916 N	103° 22' 47.926 W	
13,600.00	91.28	359.62	10,091.86	3,676.60	-869.70	450,828.36	836,113.14	32° 14' 8.905 N	103° 22' 47.923 W	
13,700.00	91.28	359.62	10,089.63	3,776.58	-870.36	450,928.33	836,112.48	32° 14' 9.894 N	103° 22' 47.920 W	
13,800.00	91.28	359.62	10,087.39	3,876.55	-871.02	451,028.30	836,111.82	32° 14' 10.883 N	103° 22' 47.918 W	
13,900.00	91.28	359.62	10,085.16	3,976.52	-871.67	451,128.27	836,111.17	32° 14' 11.873 N	103° 22' 47.915 W	
14,000.00	91.28	359.62	10,082.93	4,076.49	-872.33	451,228.25	836,110.51	32° 14' 12.862 N	103° 22' 47.912 W	
14,100.00	91.28	359.62	10,080.69	4,176.47	-872.99	451,328.22	836,109.85	32° 14' 13.851 N	103° 22' 47.910 W	
14,200.00	91.28	359.62	10,078.46	4,276.44	-873.65	451,428.19	836,109.19	32° 14' 14.840 N	103° 22' 47.907 W	
14,300.00	91.28	359.62	10,076.22	4,376.41	-874.31	451,528.16	836,108.53	32° 14' 15.830 N	103° 22' 47.904 W	
14,400.00	91.28	359.62	10,073.99	4,476.39	-874.97	451,628.14	836,107.87	32° 14' 16.819 N	103° 22' 47.902 W	
14,500.00	91.28	359.62	10,071.76	4,576.36	-875.62	451,728.11	836,107.22	32° 14' 17.808 N	103° 22' 47.899 W	
14,600.00	91.28	359.62	10,069.52	4,676.33	-876.28	451,828.08	836,106.56	32° 14' 18.797 N	103° 22' 47.896 W	
14,700.00	91.28	359.62	10,067.29	4,776.31	-876.94	451,928.06	836,105.90	32° 14' 19.787 N	103° 22' 47.894 W	
14,800.00	91.28	359.62	10,065.05	4,876.28	-877.60	452,028.03	836,105.24	32° 14' 20.776 N	103° 22' 47.891 W	
14,900.00	91.28	359.62	10,062.82	4,976.25	-878.26	452,128.00	836,104.58	32° 14' 21.765 N	103° 22' 47.888 W	
15,000.00	91.28	359.62	10,060.59	5,076.22	-878.92	452,227.97	836,103.93	32° 14' 22.754 N	103° 22' 47.886 W	
15,100.00	91.28	359.62	10,058.35	5,176.20	-879.57	452,327.95	836,103.27	32° 14' 23.744 N	103° 22' 47.883 W	
15,200.00	91.28	359.62	10,056.12	5,276.17	-880.23	452,427.92	836,102.61	32° 14' 24.733 N	103° 22' 47.880 W	
15,300.00	91.28	359.62	10,053.89	5,376.14	-880.89	452,527.89	836,101.95	32° 14' 25.722 N	103° 22' 47.878 W	
15,400.00	91.28	359.62	10,051.65	5,476.12	-881.55	452,627.86	836,101.29	32° 14' 26.711 N	103° 22' 47.875 W	
15,500.00	91.28	359.62	10,049.42	5,576.09	-882.21	452,727.84	836,100.63	32° 14' 27.701 N	103° 22' 47.872 W	
15,600.00	91.28	359.62	10,047.18	5,676.06	-882.86	452,827.81	836,099.98	32° 14' 28.690 N	103° 22' 47.870 W	
15,700.00	91.28	359.62	10,044.95	5,776.03	-883.52	452,927.78	836,099.32	32° 14' 29.679 N	103° 22' 47.867 W	
15,800.00	91.28	359.62	10,042.72	5,876.01	-884.18	453,027.76	836,098.66	32° 14' 30.668 N	103° 22' 47.864 W	
15,900.00	91.28	359.62	10,040.48	5,975.98	-884.84	453,127.73	836,098.00	32° 14' 31.658 N	103° 22' 47.862 W	
16,000.00	91.28	359.62	10,038.25	6,075.95	-885.50	453,227.70	836,097.34	32° 14' 32.647 N	103° 22' 47.859 W	
16,100.00	91.28	359.62	10,036.01	6,175.93	-886.16	453,327.67	836,096.68	32° 14' 33.636 N	103° 22' 47.856 W	
16,200.00	91.28	359.62	10,033.78	6,275.90	-886.81	453,427.65	836,096.03	32° 14' 34.625 N	103° 22' 47.854 W	
16,300.00	91.28	359.62	10,031.55	6,375.87	-887.47	453,527.62	836,095.37	32° 14' 35.615 N	103° 22' 47.851 W	
16,400.00	91.28	359.62	10,029.31	6,475.84	-888.13	453,627.59	836,094.71	32° 14' 36.604 N	103° 22' 47.848 W	
16,500.00	91.28	359.62	10,027.08	6,575.82	-888.79	453,727.56	836,094.05	32° 14' 37.593 N	103° 22' 47.846 W	
16,600.00	91.28	359.62	10,024.85	6,675.79	-889.45	453,827.54	836,093.39	32° 14' 38.582 N	103° 22' 47.843 W	
16,700.00	91.28	359.62	10,022.61	6,775.76	-890.10	453,927.51	836,092.74	32° 14' 39.572 N	103° 22' 47.840 W	
16,800.00	91.28	359.62	10,020.38	6,875.74	-890.76	454,027.48	836,092.08	32° 14' 40.561 N	103° 22' 47.838 W	
16,900.00	91.28	359.62	10,018.14	6,975.71	-891.42	454,127.45	836,091.42	32° 14' 41.550 N	103° 22' 47.835 W	
17,000.00	91.28	359.62	10,015.91	7,075.68	-892.08	454,227.43	836,090.76	32° 14' 42.540 N	103° 22' 47.832 W	
17,100.00	91.28	359.62	10,013.68	7,175.65	-892.74	454,327.40	836,090.10	32° 14' 43.529 N	103° 22' 47.830 W	
17,200.00	91.28	359.62	10,011.44	7,275.63	-893.40	454,427.37	836,089.44	32° 14' 44.518 N	103° 22' 47.827 W	
17,300.00	91.28	359.62	10,009.21	7,375.60	-894.05	454,527.35	836,088.79	32° 14' 45.507 N	103° 22' 47.824 W	
17,400.00	91.28	359.62	10,006.97	7,475.57	-894.71	454,627.32	836,088.13	32° 14' 46.497 N	103° 22' 47.822 W	
17,500.00	91.28	359.62	10,004.74	7,575.55	-895.37	454,727.29	836,087.47	32° 14' 47.486 N	103° 22' 47.819 W	
17,600.00	91.28	359.62	10,002.51	7,675.52	-896.03	454,827.26	836,086.81	32° 14' 48.475 N	103° 22' 47.816 W	
17,700.00	91.28	359.62	10,000.27	7,775.49	-896.69	454,927.24	836,086.15	32° 14' 49.464 N	103° 22' 47.814 W	
17,800.00	91.28	359.62	9,998.04	7,875.46	-897.35	455,027.21	836,085.50	32° 14' 50.454 N	103° 22' 47.811 W	
17,900.00	91.28	359.62	9,995.81	7,975.44	-898.00	455,127.18	836,084.84	32° 14' 51.443 N	103° 22' 47.808 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 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 301H		
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	
18,000.00	91.28	359.62	9,993.57	8,075.41	-898.66	455,227.15	836,084.18	32° 14' 52.432 N	103° 22' 47.806 W	
18,100.00	91.28	359.62	9,991.34	8,175.38	-899.32	455,327.13	836,083.52	32° 14' 53.421 N	103° 22' 47.803 W	
18,200.00	91.28	359.62	9,989.10	8,275.36	-899.98	455,427.10	836,082.86	32° 14' 54.411 N	103° 22' 47.800 W	
18,300.00	91.28	359.62	9,986.87	8,375.33	-900.64	455,527.07	836,082.20	32° 14' 55.400 N	103° 22' 47.798 W	
18,400.00	91.28	359.62	9,984.64	8,475.30	-901.29	455,627.04	836,081.55	32° 14' 56.389 N	103° 22' 47.795 W	
18,500.00	91.28	359.62	9,982.40	8,575.27	-901.95	455,727.02	836,080.89	32° 14' 57.378 N	103° 22' 47.792 W	
18,600.00	91.28	359.62	9,980.17	8,675.25	-902.61	455,826.99	836,080.23	32° 14' 58.368 N	103° 22' 47.790 W	
18,700.00	91.28	359.62	9,977.93	8,775.22	-903.27	455,926.96	836,079.57	32° 14' 59.357 N	103° 22' 47.787 W	
18,800.00	91.28	359.62	9,975.70	8,875.19	-903.93	456,026.94	836,078.91	32° 15' 0.346 N	103° 22' 47.784 W	
18,900.00	91.28	359.62	9,973.47	8,975.17	-904.59	456,126.91	836,078.25	32° 15' 1.335 N	103° 22' 47.781 W	
19,000.00	91.28	359.62	9,971.23	9,075.14	-905.24	456,226.88	836,077.60	32° 15' 2.325 N	103° 22' 47.779 W	
19,100.00	91.28	359.62	9,969.00	9,175.11	-905.90	456,326.85	836,076.94	32° 15' 3.314 N	103° 22' 47.776 W	
19,200.00	91.28	359.62	9,966.77	9,275.08	-906.56	456,426.83	836,076.28	32° 15' 4.303 N	103° 22' 47.773 W	
19,300.00	91.28	359.62	9,964.53	9,375.06	-907.22	456,526.80	836,075.62	32° 15' 5.292 N	103° 22' 47.771 W	
19,400.00	91.28	359.62	9,962.30	9,475.03	-907.88	456,626.77	836,074.96	32° 15' 6.282 N	103° 22' 47.768 W	
19,500.00	91.28	359.62	9,960.06	9,575.00	-908.54	456,726.74	836,074.31	32° 15' 7.271 N	103° 22' 47.765 W	
19,600.00	91.28	359.62	9,957.83	9,674.98	-909.19	456,826.72	836,073.65	32° 15' 8.260 N	103° 22' 47.763 W	
19,700.00	91.28	359.62	9,955.60	9,774.95	-909.85	456,926.69	836,072.99	32° 15' 9.249 N	103° 22' 47.760 W	
19,800.00	91.28	359.62	9,953.36	9,874.92	-910.51	457,026.66	836,072.33	32° 15' 10.239 N	103° 22' 47.757 W	
19,900.00	91.28	359.62	9,951.13	9,974.89	-911.17	457,126.64	836,071.67	32° 15' 11.228 N	103° 22' 47.755 W	
20,000.00	91.28	359.62	9,948.90	10,074.87	-911.83	457,226.61	836,071.01	32° 15' 12.217 N	103° 22' 47.752 W	
20,008.42	91.28	359.62	9,948.71	10,083.28	-911.88	457,235.02	836,070.96	32° 15' 12.300 N	103° 22' 47.752 W	
TD at 20008.41 - BHL 301H										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
301H VtPt	0.00	0.00	9,250.00	52.94	-845.84	447,204.70	836,137.00	32° 13' 33.048 N	103° 22' 48.020 W	
- hit/miss target										
- plan hits target center										
- Point										
BHL 301H	0.00	0.07	9,948.71	10,083.28	-911.88	457,235.02	836,070.96	32° 15' 12.300 N	103° 22' 47.752 W	
- hit/miss target										
- plan hits target center										
- Point										



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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 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral Profile 301H		
Design:	Plan #1		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
21.00	21.00	Cenozoic Alluvium		0.00	359.62
961.00	961.00	Rustler		0.00	359.62
1,058.00	1,058.00	Salado		-1.28	359.62
2,982.74	2,981.92	Base Salt		-1.28	359.62
5,299.51	5,277.69	Lamar		-1.28	359.62
5,404.66	5,381.69	Bell Canyon		-1.28	359.62
6,320.66	6,287.69	Cherry Canyon		-1.28	359.62
7,677.48	7,629.69	Brushy Canyon		-1.28	359.62
8,999.87	8,938.69	Bone Spring Lime		-1.28	359.62
9,025.95	8,964.69	Avalon		-1.28	359.62
10,188.38	10,050.42	First Bone Spring Sand		-1.28	359.62
10,548.72	10,159.88	10174'MD - 0'VS 91.28 UpDip		-1.28	359.62

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,500.00	1,500.00	0.00	0.00	Start Build 1.00
1,700.00	1,699.96	3.49	0.00	Start 1300.00 hold at 1700.00 MD
3,000.00	2,999.17	48.86	0.00	Start DLS 1.50 TFO -103.57
3,581.34	3,578.27	58.71	-42.92	Start 5165.19 hold at 3581.34 MD
8,746.53	8,687.06	53.24	-804.13	Start Drop -1.50
9,311.53	9,250.00	52.94	-845.84	Start 336.93 hold at 9311.53 MD
9,648.45	9,586.93	52.94	-845.84	Start Build 10.00
10,561.25	10,159.74	638.68	-849.70	Start 9447.16 hold at 10561.25 MD
20,008.42	9,948.71	10,083.28	-911.88	TD at 20008.41