



GMT Exploration Company, LLC

Elbert County, CO (NAD 83)

Marble-Redstone Pad

REDSTONE 6-65 24-36 5HN

Wellbore #1

Plan: Design #1

Standard Planning Report

24 May, 2019



Project: Elbert County, CO (NAD 83)
 Site: Marble-Redstone Pad
 Well: REDSTONE 6-65 24-36 5HN
 Wellbore: Wellbore #1
 Design: Design #1

GMT Exploration Company, LLC

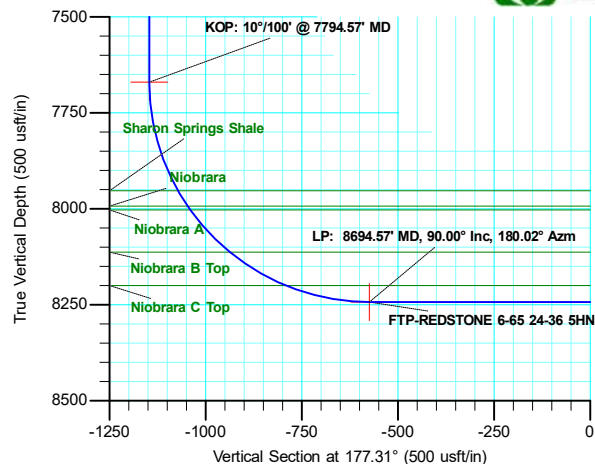
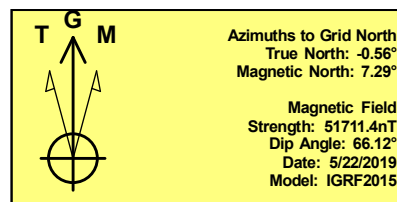
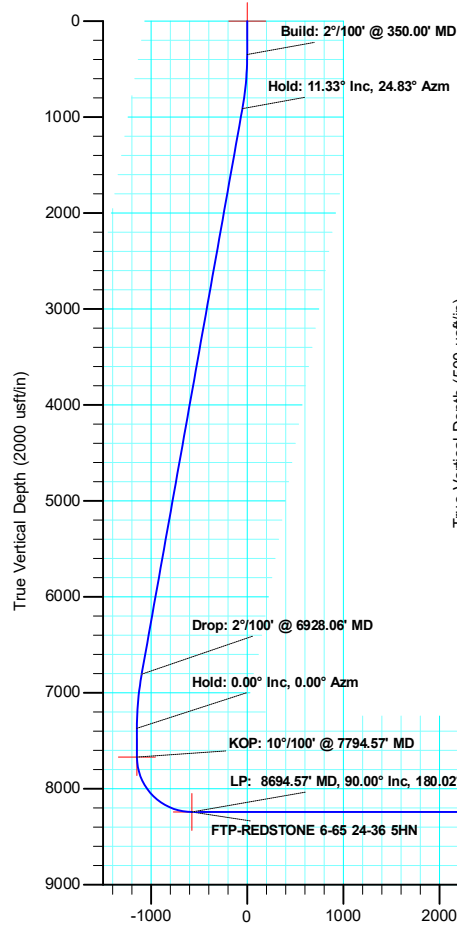
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Central Zone
 System Datum: Mean Sea Level

WELL DETAILS: REDSTONE 6-65 24-36 5HN

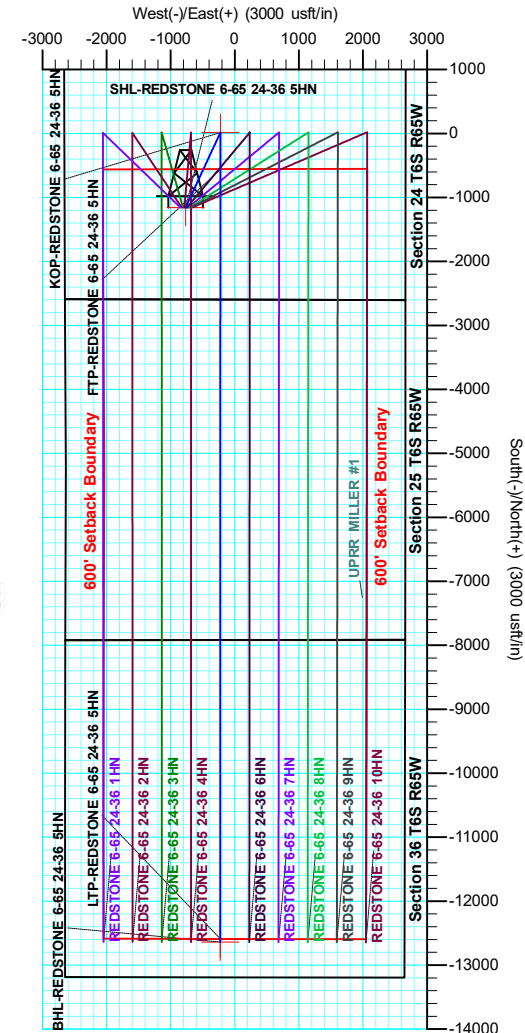
+N/-S	+E/-W	Northing	Ground Level: Easting	6278.00 Latitude	Longitude
-1157.41	-767.10	1612079.92	3248944.90	39.510617	-104.617647

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
0.00	0.00	0.00	0.00	-1157.41	-767.10	0.00	0.00	0.00	
350.00	0.00	0.00	350.00	-1157.41	-767.10	0.00	0.00	0.00	
916.51	11.33	24.83	912.82	-1106.74	-743.65	2.00	24.83	-49.51	
6928.06	11.33	24.83	6807.22	-34.90	-247.65	0.00	0.00	-1096.90	
7494.57	0.00	0.00	7370.04	15.77	-224.20	2.00	180.00	-1146.41	
7794.57	0.00	0.00	7670.04	15.77	-224.20	0.00	0.00	-1146.41	
8694.57	90.00	180.02	8243.00	-557.19	-224.36	10.00	0.00	-574.09	FTP-REDSTONE 6-65 24-36 5HN
20727.32	90.00	180.02	8243.00	-12589.94	-227.69	0.00	0.00	11445.25	LTP-REDSTONE 6-65 24-36 5HN
20777.32	90.00	180.02	8243.00	-12639.94	-227.70	0.00	0.00	11495.19	BHL-REDSTONE 6-65 24-36 5HN



SHL: 1437 FSL/ 1888 FWL Sec. 24
 FTP: 2039 FSL/ 2432 FWL Sec. 24
 LTP: 600 FSL/ 2420 FWL Sec. 36
 BHL: 550 FSL/ 2420 FWL Sec. 36



Database:	Local	Local Co-ordinate Reference:	Well REDSTONE 6-65 24-36 5HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6298.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6298.00usft
Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	REDSTONE 6-65 24-36 5HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Elbert County, CO (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		Marble-Redstone Pad			
Site Position:		Northing:	1,613,237.32 usft	Latitude:	39.513774
From:	Lat/Long	Easting:	3,249,712.00 usft	Longitude:	-104.614888
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.56 °

Well		REDSTONE 6-65 24-36 5HN				
Well Position	+N/-S	-1,157.41 usft	Northing:	1,612,079.92 usft	Latitude:	39.510617
	+E/-W	-767.10 usft	Easting:	3,248,944.90 usft	Longitude:	-104.617647
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	6,278.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/22/2019	7.85	66.12	51,711.43609785

Design	Design #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	177.31

Plan Survey Tool Program	Date	5/24/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	20,777.32	Design #1 (Wellbore #1)	MWD
				OWSG MWD - Standard

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	
350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.00	0.00	0.00	
916.51	11.33	24.83	912.82	50.67	23.45	2.00	2.00	0.00	24.83	
6,928.06	11.33	24.83	6,807.22	1,122.51	519.45	0.00	0.00	0.00	0.00	
7,494.57	0.00	0.00	7,370.04	1,173.18	542.90	2.00	-2.00	0.00	180.00	
7,794.57	0.00	0.00	7,670.04	1,173.18	542.90	0.00	0.00	0.00	0.00	
8,694.57	90.00	180.02	8,243.00	600.22	542.74	10.00	10.00	0.00	0.00	FTP-REDSTONE 6
20,727.32	90.00	180.02	8,243.00	-11,432.53	539.41	0.00	0.00	0.00	0.00	LTP-REDSTONE 6-
20,777.32	90.00	180.02	8,243.00	-11,482.53	539.40	0.00	0.00	0.00	0.00	BHL-REDSTONE 6

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Well:	REDSTONE 6-65 24-36 5HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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
SHL-REDSTONE 6-65 24-36 5HN									
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
350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.00	0.00	0.00
Build: 2°/100' @ 350.00' MD									
400.00	1.00	24.83	400.00	0.40	0.18	-0.39	2.00	2.00	0.00
500.00	3.00	24.83	499.93	3.56	1.65	-3.48	2.00	2.00	0.00
600.00	5.00	24.83	599.68	9.89	4.58	-9.67	2.00	2.00	0.00
700.00	7.00	24.83	699.13	19.38	8.97	-18.94	2.00	2.00	0.00
800.00	9.00	24.83	798.15	32.01	14.81	-31.28	2.00	2.00	0.00
900.00	11.00	24.83	896.63	47.77	22.10	-46.68	2.00	2.00	0.00
916.51	11.33	24.83	912.82	50.67	23.45	-49.51	2.00	2.00	0.00
Hold: 11.33° Inc, 24.83° Azm									
1,000.00	11.33	24.83	994.69	65.55	30.34	-64.06	0.00	0.00	0.00
1,100.00	11.33	24.83	1,092.74	83.38	38.59	-81.48	0.00	0.00	0.00
1,200.00	11.33	24.83	1,190.79	101.21	46.84	-98.91	0.00	0.00	0.00
1,300.00	11.33	24.83	1,288.84	119.04	55.09	-116.33	0.00	0.00	0.00
1,400.00	11.33	24.83	1,386.89	136.87	63.34	-133.75	0.00	0.00	0.00
1,500.00	11.33	24.83	1,484.94	154.70	71.59	-151.17	0.00	0.00	0.00
1,600.00	11.33	24.83	1,582.99	172.53	79.84	-168.60	0.00	0.00	0.00
1,700.00	11.33	24.83	1,681.05	190.36	88.09	-186.02	0.00	0.00	0.00
1,800.00	11.33	24.83	1,779.10	208.19	96.34	-203.44	0.00	0.00	0.00
1,900.00	11.33	24.83	1,877.15	226.02	104.59	-220.87	0.00	0.00	0.00
2,000.00	11.33	24.83	1,975.20	243.85	112.84	-238.29	0.00	0.00	0.00
2,100.00	11.33	24.83	2,073.25	261.68	121.09	-255.71	0.00	0.00	0.00
2,200.00	11.33	24.83	2,171.30	279.51	129.35	-273.13	0.00	0.00	0.00
2,300.00	11.33	24.83	2,269.35	297.34	137.60	-290.56	0.00	0.00	0.00
2,400.00	11.33	24.83	2,367.40	315.17	145.85	-307.98	0.00	0.00	0.00
2,500.00	11.33	24.83	2,465.46	333.00	154.10	-325.40	0.00	0.00	0.00
2,600.00	11.33	24.83	2,563.51	350.83	162.35	-342.83	0.00	0.00	0.00
2,700.00	11.33	24.83	2,661.56	368.66	170.60	-360.25	0.00	0.00	0.00
2,800.00	11.33	24.83	2,759.61	386.49	178.85	-377.67	0.00	0.00	0.00
2,900.00	11.33	24.83	2,857.66	404.32	187.10	-395.09	0.00	0.00	0.00
3,000.00	11.33	24.83	2,955.71	422.15	195.35	-412.52	0.00	0.00	0.00
3,100.00	11.33	24.83	3,053.76	439.98	203.60	-429.94	0.00	0.00	0.00
3,200.00	11.33	24.83	3,151.81	457.81	211.85	-447.36	0.00	0.00	0.00
3,300.00	11.33	24.83	3,249.86	475.64	220.10	-464.79	0.00	0.00	0.00
3,400.00	11.33	24.83	3,347.92	493.47	228.36	-482.21	0.00	0.00	0.00
3,500.00	11.33	24.83	3,445.97	511.30	236.61	-499.63	0.00	0.00	0.00
3,600.00	11.33	24.83	3,544.02	529.13	244.86	-517.05	0.00	0.00	0.00
3,700.00	11.33	24.83	3,642.07	546.96	253.11	-534.48	0.00	0.00	0.00
3,800.00	11.33	24.83	3,740.12	564.79	261.36	-551.90	0.00	0.00	0.00
3,900.00	11.33	24.83	3,838.17	582.62	269.61	-569.32	0.00	0.00	0.00
4,000.00	11.33	24.83	3,936.22	600.45	277.86	-586.75	0.00	0.00	0.00
4,100.00	11.33	24.83	4,034.27	618.28	286.11	-604.17	0.00	0.00	0.00
4,200.00	11.33	24.83	4,132.32	636.11	294.36	-621.59	0.00	0.00	0.00
4,300.00	11.33	24.83	4,230.38	653.94	302.61	-639.02	0.00	0.00	0.00
4,400.00	11.33	24.83	4,328.43	671.76	310.86	-656.44	0.00	0.00	0.00
4,500.00	11.33	24.83	4,426.48	689.59	319.11	-673.86	0.00	0.00	0.00
4,600.00	11.33	24.83	4,524.53	707.42	327.37	-691.28	0.00	0.00	0.00
4,700.00	11.33	24.83	4,622.58	725.25	335.62	-708.71	0.00	0.00	0.00

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Well:	REDSTONE 6-65 24-36 5HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
4,800.00	11.33	24.83	4,720.63	743.08	343.87	-726.13	0.00	0.00	0.00
4,900.00	11.33	24.83	4,818.68	760.91	352.12	-743.55	0.00	0.00	0.00
5,000.00	11.33	24.83	4,916.73	778.74	360.37	-760.98	0.00	0.00	0.00
5,100.00	11.33	24.83	5,014.78	796.57	368.62	-778.40	0.00	0.00	0.00
5,200.00	11.33	24.83	5,112.84	814.40	376.87	-795.82	0.00	0.00	0.00
5,300.00	11.33	24.83	5,210.89	832.23	385.12	-813.24	0.00	0.00	0.00
5,400.00	11.33	24.83	5,308.94	850.06	393.37	-830.67	0.00	0.00	0.00
5,500.00	11.33	24.83	5,406.99	867.89	401.62	-848.09	0.00	0.00	0.00
5,600.00	11.33	24.83	5,505.04	885.72	409.87	-865.51	0.00	0.00	0.00
5,700.00	11.33	24.83	5,603.09	903.55	418.12	-882.94	0.00	0.00	0.00
5,800.00	11.33	24.83	5,701.14	921.38	426.37	-900.36	0.00	0.00	0.00
5,900.00	11.33	24.83	5,799.19	939.21	434.63	-917.78	0.00	0.00	0.00
6,000.00	11.33	24.83	5,897.24	957.04	442.88	-935.20	0.00	0.00	0.00
6,100.00	11.33	24.83	5,995.30	974.87	451.13	-952.63	0.00	0.00	0.00
6,200.00	11.33	24.83	6,093.35	992.70	459.38	-970.05	0.00	0.00	0.00
6,300.00	11.33	24.83	6,191.40	1,010.53	467.63	-987.47	0.00	0.00	0.00
6,400.00	11.33	24.83	6,289.45	1,028.36	475.88	-1,004.90	0.00	0.00	0.00
6,500.00	11.33	24.83	6,387.50	1,046.19	484.13	-1,022.32	0.00	0.00	0.00
6,600.00	11.33	24.83	6,485.55	1,064.02	492.38	-1,039.74	0.00	0.00	0.00
6,700.00	11.33	24.83	6,583.60	1,081.85	500.63	-1,057.17	0.00	0.00	0.00
6,800.00	11.33	24.83	6,681.65	1,099.68	508.88	-1,074.59	0.00	0.00	0.00
6,900.00	11.33	24.83	6,779.71	1,117.51	517.13	-1,092.01	0.00	0.00	0.00
6,928.06	11.33	24.83	6,807.22	1,122.51	519.45	-1,096.90	0.00	0.00	0.00
Drop: 2°/100' @ 6928.06' MD									
7,000.00	9.89	24.83	6,877.93	1,134.53	525.01	-1,108.65	2.00	-2.00	0.00
7,100.00	7.89	24.83	6,976.72	1,148.56	531.50	-1,122.35	2.00	-2.00	0.00
7,200.00	5.89	24.83	7,075.99	1,159.45	536.54	-1,132.99	2.00	-2.00	0.00
7,300.00	3.89	24.83	7,175.62	1,167.19	540.12	-1,140.56	2.00	-2.00	0.00
7,400.00	1.89	24.83	7,275.49	1,171.76	542.24	-1,145.03	2.00	-2.00	0.00
7,494.57	0.00	0.00	7,370.04	1,173.18	542.90	-1,146.41	2.00	-2.00	0.00
Hold: 0.00° Inc, 0.00° Azm									
7,500.00	0.00	0.00	7,375.47	1,173.18	542.90	-1,146.41	0.00	0.00	0.00
7,600.00	0.00	0.00	7,475.47	1,173.18	542.90	-1,146.41	0.00	0.00	0.00
7,700.00	0.00	0.00	7,575.47	1,173.18	542.90	-1,146.41	0.00	0.00	0.00
7,794.57	0.00	0.00	7,670.04	1,173.18	542.90	-1,146.41	0.00	0.00	0.00
KOP: 10°/100' @ 7794.57' MD - KOP-REDSTONE 6-65 24-36 5HN									
7,800.00	0.54	180.02	7,675.47	1,173.15	542.90	-1,146.39	10.00	10.00	0.00
7,850.00	5.54	180.02	7,725.39	1,170.50	542.90	-1,143.74	10.00	10.00	0.00
7,900.00	10.54	180.02	7,774.88	1,163.51	542.89	-1,136.75	10.00	10.00	0.00
7,950.00	15.54	180.02	7,823.57	1,152.23	542.89	-1,125.48	10.00	10.00	0.00
8,000.00	20.54	180.02	7,871.10	1,136.74	542.89	-1,110.02	10.00	10.00	0.00
8,050.00	25.54	180.02	7,917.10	1,117.18	542.88	-1,090.47	10.00	10.00	0.00
8,100.00	30.54	180.02	7,961.21	1,093.68	542.87	-1,067.00	10.00	10.00	0.00
8,150.00	35.54	180.02	8,003.11	1,066.43	542.87	-1,039.78	10.00	10.00	0.00
8,200.00	40.54	180.02	8,042.48	1,035.62	542.86	-1,009.01	10.00	10.00	0.00
8,250.00	45.54	180.02	8,079.01	1,001.51	542.85	-974.93	10.00	10.00	0.00
8,300.00	50.54	180.02	8,112.42	964.33	542.84	-937.80	10.00	10.00	0.00
8,350.00	55.54	180.02	8,142.48	924.39	542.83	-897.90	10.00	10.00	0.00
8,400.00	60.54	180.02	8,168.93	881.98	542.82	-855.54	10.00	10.00	0.00
8,450.00	65.54	180.02	8,191.59	837.43	542.80	-811.04	10.00	10.00	0.00
8,500.00	70.54	180.02	8,210.28	791.07	542.79	-764.73	10.00	10.00	0.00
8,550.00	75.54	180.02	8,224.86	743.26	542.78	-716.97	10.00	10.00	0.00
8,600.00	80.54	180.02	8,235.21	694.36	542.76	-668.13	10.00	10.00	0.00

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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)	
8,650.00	85.54	180.02	8,241.27	644.75	542.75	-618.57	10.00	10.00	0.00	
8,694.57	90.00	180.02	8,243.00	600.22	542.74	-574.09	10.00	10.00	0.00	
LP: 8694.57' MD, 90.00° Inc, 180.02° Azm - FTP-REDSTONE 6-65 24-36 5HN										
8,700.00	90.00	180.02	8,243.00	594.79	542.74	-568.67	0.00	0.00	0.00	
8,800.00	90.00	180.02	8,243.00	494.79	542.71	-468.78	0.00	0.00	0.00	
8,900.00	90.00	180.02	8,243.00	394.79	542.68	-368.89	0.00	0.00	0.00	
9,000.00	90.00	180.02	8,243.00	294.79	542.65	-269.00	0.00	0.00	0.00	
9,100.00	90.00	180.02	8,243.00	194.79	542.63	-169.11	0.00	0.00	0.00	
9,200.00	90.00	180.02	8,243.00	94.79	542.60	-69.23	0.00	0.00	0.00	
9,300.00	90.00	180.02	8,243.00	-5.21	542.57	30.66	0.00	0.00	0.00	
9,400.00	90.00	180.02	8,243.00	-105.21	542.54	130.55	0.00	0.00	0.00	
9,500.00	90.00	180.02	8,243.00	-205.21	542.52	230.44	0.00	0.00	0.00	
9,600.00	90.00	180.02	8,243.00	-305.21	542.49	330.33	0.00	0.00	0.00	
9,700.00	90.00	180.02	8,243.00	-405.21	542.46	430.22	0.00	0.00	0.00	
9,800.00	90.00	180.02	8,243.00	-505.21	542.43	530.11	0.00	0.00	0.00	
9,900.00	90.00	180.02	8,243.00	-605.21	542.40	629.99	0.00	0.00	0.00	
10,000.00	90.00	180.02	8,243.00	-705.21	542.38	729.88	0.00	0.00	0.00	
10,100.00	90.00	180.02	8,243.00	-805.21	542.35	829.77	0.00	0.00	0.00	
10,200.00	90.00	180.02	8,243.00	-905.21	542.32	929.66	0.00	0.00	0.00	
10,300.00	90.00	180.02	8,243.00	-1,005.21	542.29	1,029.55	0.00	0.00	0.00	
10,400.00	90.00	180.02	8,243.00	-1,105.21	542.27	1,129.44	0.00	0.00	0.00	
10,500.00	90.00	180.02	8,243.00	-1,205.21	542.24	1,229.33	0.00	0.00	0.00	
10,600.00	90.00	180.02	8,243.00	-1,305.21	542.21	1,329.21	0.00	0.00	0.00	
10,700.00	90.00	180.02	8,243.00	-1,405.21	542.18	1,429.10	0.00	0.00	0.00	
10,800.00	90.00	180.02	8,243.00	-1,505.21	542.16	1,528.99	0.00	0.00	0.00	
10,900.00	90.00	180.02	8,243.00	-1,605.21	542.13	1,628.88	0.00	0.00	0.00	
11,000.00	90.00	180.02	8,243.00	-1,705.21	542.10	1,728.77	0.00	0.00	0.00	
11,100.00	90.00	180.02	8,243.00	-1,805.21	542.07	1,828.66	0.00	0.00	0.00	
11,200.00	90.00	180.02	8,243.00	-1,905.21	542.05	1,928.55	0.00	0.00	0.00	
11,300.00	90.00	180.02	8,243.00	-2,005.21	542.02	2,028.43	0.00	0.00	0.00	
11,400.00	90.00	180.02	8,243.00	-2,105.21	541.99	2,128.32	0.00	0.00	0.00	
11,500.00	90.00	180.02	8,243.00	-2,205.21	541.96	2,228.21	0.00	0.00	0.00	
11,600.00	90.00	180.02	8,243.00	-2,305.21	541.93	2,328.10	0.00	0.00	0.00	
11,700.00	90.00	180.02	8,243.00	-2,405.21	541.91	2,427.99	0.00	0.00	0.00	
11,800.00	90.00	180.02	8,243.00	-2,505.21	541.88	2,527.88	0.00	0.00	0.00	
11,900.00	90.00	180.02	8,243.00	-2,605.21	541.85	2,627.77	0.00	0.00	0.00	
12,000.00	90.00	180.02	8,243.00	-2,705.21	541.82	2,727.65	0.00	0.00	0.00	
12,100.00	90.00	180.02	8,243.00	-2,805.21	541.80	2,827.54	0.00	0.00	0.00	
12,200.00	90.00	180.02	8,243.00	-2,905.21	541.77	2,927.43	0.00	0.00	0.00	
12,300.00	90.00	180.02	8,243.00	-3,005.21	541.74	3,027.32	0.00	0.00	0.00	
12,400.00	90.00	180.02	8,243.00	-3,105.21	541.71	3,127.21	0.00	0.00	0.00	
12,500.00	90.00	180.02	8,243.00	-3,205.21	541.69	3,227.10	0.00	0.00	0.00	
12,600.00	90.00	180.02	8,243.00	-3,305.21	541.66	3,326.99	0.00	0.00	0.00	
12,700.00	90.00	180.02	8,243.00	-3,405.21	541.63	3,426.87	0.00	0.00	0.00	
12,800.00	90.00	180.02	8,243.00	-3,505.21	541.60	3,526.76	0.00	0.00	0.00	
12,900.00	90.00	180.02	8,243.00	-3,605.21	541.58	3,626.65	0.00	0.00	0.00	
13,000.00	90.00	180.02	8,243.00	-3,705.21	541.55	3,726.54	0.00	0.00	0.00	
13,100.00	90.00	180.02	8,243.00	-3,805.21	541.52	3,826.43	0.00	0.00	0.00	
13,200.00	90.00	180.02	8,243.00	-3,905.21	541.49	3,926.32	0.00	0.00	0.00	
13,300.00	90.00	180.02	8,243.00	-4,005.21	541.46	4,026.21	0.00	0.00	0.00	
13,400.00	90.00	180.02	8,243.00	-4,105.21	541.44	4,126.09	0.00	0.00	0.00	
13,500.00	90.00	180.02	8,243.00	-4,205.21	541.41	4,225.98	0.00	0.00	0.00	
13,600.00	90.00	180.02	8,243.00	-4,305.21	541.38	4,325.87	0.00	0.00	0.00	
13,700.00	90.00	180.02	8,243.00	-4,405.21	541.35	4,425.76	0.00	0.00	0.00	

Database:	Local	Local Co-ordinate Reference:	Well REDSTONE 6-65 24-36 5HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6298.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6298.00usft
Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	REDSTONE 6-65 24-36 5HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
13,800.00	90.00	180.02	8,243.00	-4,505.21	541.33	4,525.65	0.00	0.00	0.00
13,900.00	90.00	180.02	8,243.00	-4,605.21	541.30	4,625.54	0.00	0.00	0.00
14,000.00	90.00	180.02	8,243.00	-4,705.21	541.27	4,725.42	0.00	0.00	0.00
14,100.00	90.00	180.02	8,243.00	-4,805.21	541.24	4,825.31	0.00	0.00	0.00
14,200.00	90.00	180.02	8,243.00	-4,905.21	541.22	4,925.20	0.00	0.00	0.00
14,300.00	90.00	180.02	8,243.00	-5,005.21	541.19	5,025.09	0.00	0.00	0.00
14,400.00	90.00	180.02	8,243.00	-5,105.21	541.16	5,124.98	0.00	0.00	0.00
14,500.00	90.00	180.02	8,243.00	-5,205.21	541.13	5,224.87	0.00	0.00	0.00
14,600.00	90.00	180.02	8,243.00	-5,305.21	541.11	5,324.76	0.00	0.00	0.00
14,700.00	90.00	180.02	8,243.00	-5,405.21	541.08	5,424.64	0.00	0.00	0.00
14,800.00	90.00	180.02	8,243.00	-5,505.21	541.05	5,524.53	0.00	0.00	0.00
14,900.00	90.00	180.02	8,243.00	-5,605.21	541.02	5,624.42	0.00	0.00	0.00
15,000.00	90.00	180.02	8,243.00	-5,705.21	540.99	5,724.31	0.00	0.00	0.00
15,100.00	90.00	180.02	8,243.00	-5,805.21	540.97	5,824.20	0.00	0.00	0.00
15,200.00	90.00	180.02	8,243.00	-5,905.21	540.94	5,924.09	0.00	0.00	0.00
15,300.00	90.00	180.02	8,243.00	-6,005.21	540.91	6,023.98	0.00	0.00	0.00
15,400.00	90.00	180.02	8,243.00	-6,105.21	540.88	6,123.86	0.00	0.00	0.00
15,500.00	90.00	180.02	8,243.00	-6,205.21	540.86	6,223.75	0.00	0.00	0.00
15,600.00	90.00	180.02	8,243.00	-6,305.21	540.83	6,323.64	0.00	0.00	0.00
15,700.00	90.00	180.02	8,243.00	-6,405.21	540.80	6,423.53	0.00	0.00	0.00
15,800.00	90.00	180.02	8,243.00	-6,505.21	540.77	6,523.42	0.00	0.00	0.00
15,900.00	90.00	180.02	8,243.00	-6,605.21	540.75	6,623.31	0.00	0.00	0.00
16,000.00	90.00	180.02	8,243.00	-6,705.21	540.72	6,723.20	0.00	0.00	0.00
16,100.00	90.00	180.02	8,243.00	-6,805.21	540.69	6,823.08	0.00	0.00	0.00
16,200.00	90.00	180.02	8,243.00	-6,905.21	540.66	6,922.97	0.00	0.00	0.00
16,300.00	90.00	180.02	8,243.00	-7,005.21	540.64	7,022.86	0.00	0.00	0.00
16,400.00	90.00	180.02	8,243.00	-7,105.21	540.61	7,122.75	0.00	0.00	0.00
16,500.00	90.00	180.02	8,243.00	-7,205.21	540.58	7,222.64	0.00	0.00	0.00
16,600.00	90.00	180.02	8,243.00	-7,305.21	540.55	7,322.53	0.00	0.00	0.00
16,700.00	90.00	180.02	8,243.00	-7,405.21	540.52	7,422.42	0.00	0.00	0.00
16,800.00	90.00	180.02	8,243.00	-7,505.21	540.50	7,522.30	0.00	0.00	0.00
16,900.00	90.00	180.02	8,243.00	-7,605.21	540.47	7,622.19	0.00	0.00	0.00
17,000.00	90.00	180.02	8,243.00	-7,705.21	540.44	7,722.08	0.00	0.00	0.00
17,100.00	90.00	180.02	8,243.00	-7,805.21	540.41	7,821.97	0.00	0.00	0.00
17,200.00	90.00	180.02	8,243.00	-7,905.21	540.39	7,921.86	0.00	0.00	0.00
17,300.00	90.00	180.02	8,243.00	-8,005.21	540.36	8,021.75	0.00	0.00	0.00
17,400.00	90.00	180.02	8,243.00	-8,105.21	540.33	8,121.64	0.00	0.00	0.00
17,500.00	90.00	180.02	8,243.00	-8,205.21	540.30	8,221.52	0.00	0.00	0.00
17,600.00	90.00	180.02	8,243.00	-8,305.21	540.28	8,321.41	0.00	0.00	0.00
17,700.00	90.00	180.02	8,243.00	-8,405.21	540.25	8,421.30	0.00	0.00	0.00
17,800.00	90.00	180.02	8,243.00	-8,505.21	540.22	8,521.19	0.00	0.00	0.00
17,900.00	90.00	180.02	8,243.00	-8,605.21	540.19	8,621.08	0.00	0.00	0.00
18,000.00	90.00	180.02	8,243.00	-8,705.21	540.17	8,720.97	0.00	0.00	0.00
18,100.00	90.00	180.02	8,243.00	-8,805.21	540.14	8,820.86	0.00	0.00	0.00
18,200.00	90.00	180.02	8,243.00	-8,905.21	540.11	8,920.74	0.00	0.00	0.00
18,300.00	90.00	180.02	8,243.00	-9,005.21	540.08	9,020.63	0.00	0.00	0.00
18,400.00	90.00	180.02	8,243.00	-9,105.21	540.05	9,120.52	0.00	0.00	0.00
18,500.00	90.00	180.02	8,243.00	-9,205.21	540.03	9,220.41	0.00	0.00	0.00
18,600.00	90.00	180.02	8,243.00	-9,305.21	540.00	9,320.30	0.00	0.00	0.00
18,700.00	90.00	180.02	8,243.00	-9,405.21	539.97	9,420.19	0.00	0.00	0.00
18,800.00	90.00	180.02	8,243.00	-9,505.21	539.94	9,520.08	0.00	0.00	0.00
18,900.00	90.00	180.02	8,243.00	-9,605.21	539.92	9,619.96	0.00	0.00	0.00
19,000.00	90.00	180.02	8,243.00	-9,705.21	539.89	9,719.85	0.00	0.00	0.00
19,100.00	90.00	180.02	8,243.00	-9,805.21	539.86	9,819.74	0.00	0.00	0.00

Database:	Local	Local Co-ordinate Reference:	Well REDSTONE 6-65 24-36 5HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6298.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6298.00usft
Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	REDSTONE 6-65 24-36 5HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)	
19,200.00	90.00	180.02	8,243.00	-9,905.21	539.83	9,919.63	0.00	0.00	0.00	
19,300.00	90.00	180.02	8,243.00	-10,005.21	539.81	10,019.52	0.00	0.00	0.00	
19,400.00	90.00	180.02	8,243.00	-10,105.21	539.78	10,119.41	0.00	0.00	0.00	
19,500.00	90.00	180.02	8,243.00	-10,205.21	539.75	10,219.30	0.00	0.00	0.00	
19,600.00	90.00	180.02	8,243.00	-10,305.21	539.72	10,319.18	0.00	0.00	0.00	
19,700.00	90.00	180.02	8,243.00	-10,405.21	539.70	10,419.07	0.00	0.00	0.00	
19,800.00	90.00	180.02	8,243.00	-10,505.21	539.67	10,518.96	0.00	0.00	0.00	
19,900.00	90.00	180.02	8,243.00	-10,605.21	539.64	10,618.85	0.00	0.00	0.00	
20,000.00	90.00	180.02	8,243.00	-10,705.21	539.61	10,718.74	0.00	0.00	0.00	
20,100.00	90.00	180.02	8,243.00	-10,805.21	539.58	10,818.63	0.00	0.00	0.00	
20,200.00	90.00	180.02	8,243.00	-10,905.21	539.56	10,918.51	0.00	0.00	0.00	
20,300.00	90.00	180.02	8,243.00	-11,005.21	539.53	11,018.40	0.00	0.00	0.00	
20,400.00	90.00	180.02	8,243.00	-11,105.21	539.50	11,118.29	0.00	0.00	0.00	
20,500.00	90.00	180.02	8,243.00	-11,205.21	539.47	11,218.18	0.00	0.00	0.00	
20,600.00	90.00	180.02	8,243.00	-11,305.21	539.45	11,318.07	0.00	0.00	0.00	
20,700.00	90.00	180.02	8,243.00	-11,405.21	539.42	11,417.96	0.00	0.00	0.00	
20,727.32	90.00	180.02	8,243.00	-11,432.53	539.41	11,445.25	0.00	0.00	0.00	
Hold: 90.00° Inc, 180.02° Azm - LTP-REDSTONE 6-65 24-36 5HN										
20,777.32	90.00	180.02	8,243.00	-11,482.53	539.40	11,495.19	0.00	0.00	0.00	
TD @ 20777.32' MD/8243.00' TVD - BHL-REDSTONE 6-65 24-36 5HN										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
SHL-REDSTONE 6-6:	0.00	0.00	0.00	0.00	0.00	1,612,079.92	3,248,944.90	39.510617	-104.617647	
- plan hits target center										
- Point										
KOP-REDSTONE 6-6	0.00	0.00	7,670.04	1,173.18	542.90	1,613,253.10	3,249,487.80	39.513823	-104.615682	
- plan hits target center										
- Point										
BHL-REDSTONE 6-6:	0.00	0.01	8,243.00	-11,482.53	539.40	1,600,597.39	3,249,484.30	39.479080	-104.616131	
- plan hits target center										
- Point										
FTP-REDSTONE 6-6:	0.00	0.00	8,243.00	600.22	542.74	1,612,680.14	3,249,487.64	39.512250	-104.615703	
- plan hits target center										
- Point										
LTP-REDSTONE 6-6:	0.00	0.00	8,243.00	-11,432.53	539.41	1,600,647.39	3,249,484.31	39.479217	-104.616129	
- plan hits target center										
- Point										

Database:	Local	Local Co-ordinate Reference:	Well REDSTONE 6-65 24-36 5HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6298.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6298.00usft
Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	REDSTONE 6-65 24-36 5HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
513.09	513.00	Denver				
1,630.60	1,613.00	Upper Arapahoe				
2,288.42	2,258.00	Laramie - Fox Hills				
2,461.80	2,428.00	Pierre Shale (Base of Fox Hills)				
5,715.21	5,618.00	Sussex Sandstone				
8,090.51	7,953.00	Sharon Springs Shale				
8,137.67	7,993.00	Niobrara				
8,149.86	8,003.00	Niobrara A				
8,300.91	8,113.00	Niobrara B Top				
8,471.18	8,200.00	Niobrara C Top				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
350.00	350.00	0.00	0.00	Build: 2°/100' @ 350.00' MD	
916.51	912.82	50.67	23.45	Hold: 11.33° Inc, 24.83° Azm	
6,928.06	6,807.22	1,122.51	519.45	Drop: 2°/100' @ 6928.06' MD	
7,494.57	7,370.04	1,173.18	542.90	Hold: 0.00° Inc, 0.00° Azm	
7,794.57	7,670.04	1,173.18	542.90	KOP: 10°/100' @ 7794.57' MD	
8,694.57	8,243.00	600.22	542.74	LP: 8694.57' MD, 90.00° Inc, 180.02° Azm	
20,727.32	8,243.00	-11,432.53	539.41	Hold: 90.00° Inc, 180.02° Azm	
20,777.32	8,243.00	-11,482.53	539.40	TD @ 20777.32' MD/8243.00' TVD	