



GMT Exploration Company, LLC

Elbert County, CO (NAD 83)

Marble-Redstone Pad

MARBLE 6-65 24-12 4HN

Wellbore #1

Plan: Design #1

Standard Planning Report

24 May, 2019



Project: Elbert County, CO (NAD 83)
Site: Marble-Redstone Pad
Well: MARBLE 6-65 24-12 4HN
Wellbore: Wellbore #1
Design: Design #1

GMT Exploration Company, LLC

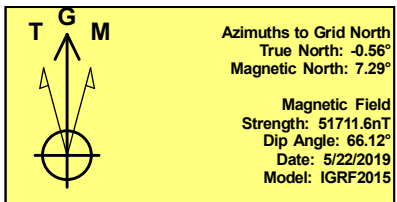
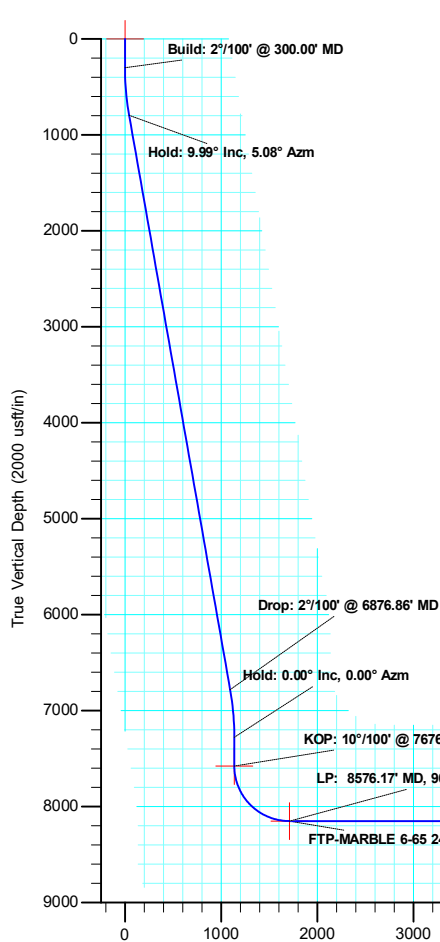
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Central Zone
System Datum: Mean Sea Level

WELL DETAILS: MARBLE 6-65 24-12 4HN

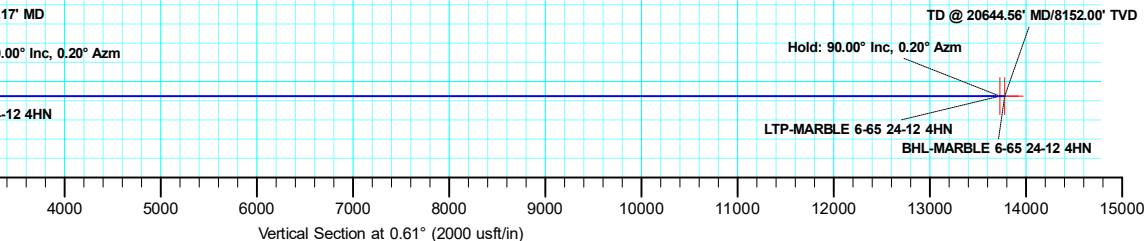
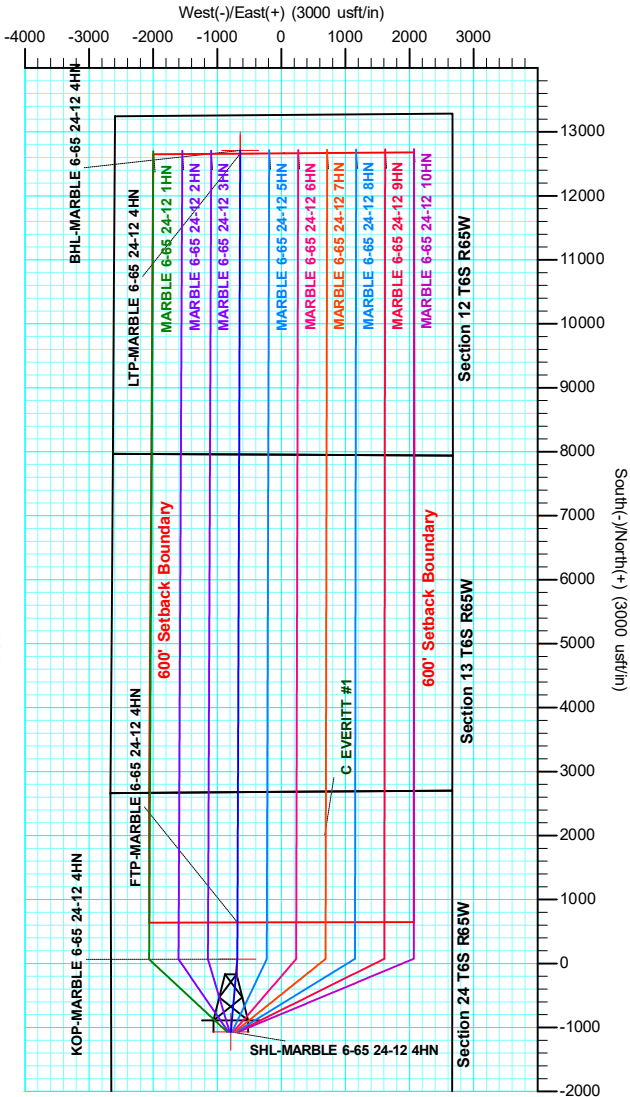
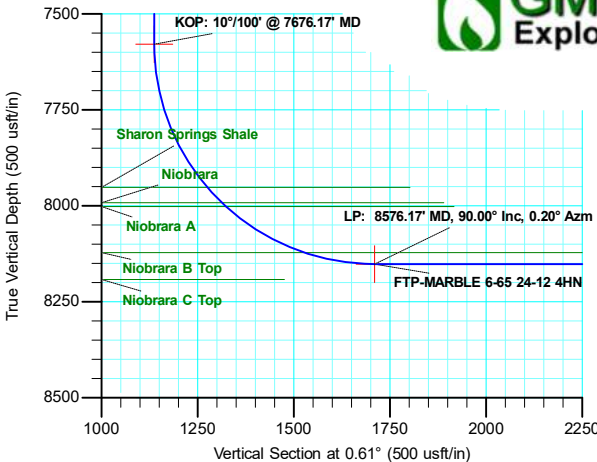
+N/-S	+E/-W	Northing	Ground Level: Easting	6277.00 Latitude	Longitude
-1067.41	-787.10	1612169.92	3248924.90	39.510865	-104.617714

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	-1067.41	-787.10	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	-1067.41	-787.10	0.00	0.00	0.00	
799.30	9.99	5.08	796.78	-1024.18	-783.26	2.00	5.08	43.27	
6876.86	9.99	5.08	6782.26	25.59	-689.97	0.00	0.00	1093.96	
7376.17	0.00	0.00	7279.04	68.82	-686.13	2.00	180.00	1137.23	
7676.17	0.00	0.00	7579.04	68.82	-686.13	0.00	0.00	1137.23	
8576.17	90.00	0.20	8152.00	641.77	-684.09	10.00	0.00	1710.18	FTP-MARBLE 6-65 24-12 4HN
20594.56	90.00	0.20	8152.00	12660.09	-641.24	0.00	0.00	13728.27	LTP-MARBLE 6-65 24-12 4HN
20644.56	90.00	0.20	8152.00	12710.10	-641.06	0.00	0.00	13778.28	BHL-MARBLE 6-65 24-12 4HN



SHL: 1527 FSL/ 1868 FWL Sec. 24
FTP: 2036 FNL/ 1976 FWL Sec. 24
LTP: 600 FNL/ 1956 FWL Sec. 12
BHL: 550 FNL/ 1956 FWL Sec. 12



Database:	Local	Local Co-ordinate Reference:	Well MARBLE 6-65 24-12 4HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6297.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6297.00usft
Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	MARBLE 6-65 24-12 4HN	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	MARBLE 6-65 24-12 4HN					
Well Position	+N/-S	-1,067.41 usft	Northing:	1,612,169.92 usft	Latitude:	39.510865
	+E/-W	-787.10 usft	Easting:	3,248,924.90 usft	Longitude:	-104.617715
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	6,277.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/22/2019	7.85	66.12	51,711.56760148

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	0.61

Plan Survey Tool Program	Date	5/24/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	20,644.56	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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
799.30	9.99	5.08	796.78	43.23	3.84	2.00	2.00	0.00	5.08	
6,876.86	9.99	5.08	6,782.26	1,093.00	97.13	0.00	0.00	0.00	0.00	
7,376.17	0.00	0.00	7,279.04	1,136.23	100.97	2.00	-2.00	0.00	180.00	
7,676.17	0.00	0.00	7,579.04	1,136.23	100.97	0.00	0.00	0.00	0.00	
8,576.17	90.00	0.20	8,152.00	1,709.18	103.01	10.00	10.00	0.00	0.00	FTP-MARBLE 6-65
20,594.56	90.00	0.20	8,152.00	13,727.50	145.86	0.00	0.00	0.00	0.00	LTP-MARBLE 6-65
20,644.56	90.00	0.20	8,152.00	13,777.50	146.03	0.00	0.00	0.00	0.00	BHL-MARBLE 6-65

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Well:	MARBLE 6-65 24-12 4HN	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-MARBLE 6-65 24-12 4HN									
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
Build: 2°/100' @ 300.00' MD									
400.00	2.00	5.08	399.98	1.74	0.15	1.74	2.00	2.00	0.00
500.00	4.00	5.08	499.84	6.95	0.62	6.96	2.00	2.00	0.00
600.00	6.00	5.08	599.45	15.63	1.39	15.65	2.00	2.00	0.00
700.00	8.00	5.08	698.70	27.77	2.47	27.80	2.00	2.00	0.00
799.30	9.99	5.08	796.78	43.23	3.84	43.27	2.00	2.00	0.00
Hold: 9.99° Inc, 5.08° Azm									
900.00	9.99	5.08	895.95	60.62	5.39	60.68	0.00	0.00	0.00
1,000.00	9.99	5.08	994.44	77.90	6.92	77.97	0.00	0.00	0.00
1,100.00	9.99	5.08	1,092.92	95.17	8.46	95.25	0.00	0.00	0.00
1,200.00	9.99	5.08	1,191.41	112.44	9.99	112.54	0.00	0.00	0.00
1,300.00	9.99	5.08	1,289.89	129.72	11.53	129.83	0.00	0.00	0.00
1,400.00	9.99	5.08	1,388.38	146.99	13.06	147.12	0.00	0.00	0.00
1,500.00	9.99	5.08	1,486.86	164.26	14.60	164.41	0.00	0.00	0.00
1,600.00	9.99	5.08	1,585.35	181.53	16.13	181.69	0.00	0.00	0.00
1,700.00	9.99	5.08	1,683.83	198.81	17.67	198.98	0.00	0.00	0.00
1,800.00	9.99	5.08	1,782.32	216.08	19.20	216.27	0.00	0.00	0.00
1,900.00	9.99	5.08	1,880.80	233.35	20.74	233.56	0.00	0.00	0.00
2,000.00	9.99	5.08	1,979.29	250.63	22.27	250.85	0.00	0.00	0.00
2,100.00	9.99	5.08	2,077.77	267.90	23.81	268.14	0.00	0.00	0.00
2,200.00	9.99	5.08	2,176.26	285.17	25.34	285.42	0.00	0.00	0.00
2,300.00	9.99	5.08	2,274.74	302.44	26.88	302.71	0.00	0.00	0.00
2,400.00	9.99	5.08	2,373.23	319.72	28.41	320.00	0.00	0.00	0.00
2,500.00	9.99	5.08	2,471.71	336.99	29.95	337.29	0.00	0.00	0.00
2,600.00	9.99	5.08	2,570.20	354.26	31.48	354.58	0.00	0.00	0.00
2,700.00	9.99	5.08	2,668.68	371.53	33.02	371.86	0.00	0.00	0.00
2,800.00	9.99	5.08	2,767.17	388.81	34.55	389.15	0.00	0.00	0.00
2,900.00	9.99	5.08	2,865.65	406.08	36.09	406.44	0.00	0.00	0.00
3,000.00	9.99	5.08	2,964.14	423.35	37.62	423.73	0.00	0.00	0.00
3,100.00	9.99	5.08	3,062.62	440.63	39.15	441.02	0.00	0.00	0.00
3,200.00	9.99	5.08	3,161.11	457.90	40.69	458.30	0.00	0.00	0.00
3,300.00	9.99	5.08	3,259.59	475.17	42.22	475.59	0.00	0.00	0.00
3,400.00	9.99	5.08	3,358.08	492.44	43.76	492.88	0.00	0.00	0.00
3,500.00	9.99	5.08	3,456.56	509.72	45.29	510.17	0.00	0.00	0.00
3,600.00	9.99	5.08	3,555.05	526.99	46.83	527.46	0.00	0.00	0.00
3,700.00	9.99	5.08	3,653.53	544.26	48.36	544.74	0.00	0.00	0.00
3,800.00	9.99	5.08	3,752.02	561.54	49.90	562.03	0.00	0.00	0.00
3,900.00	9.99	5.08	3,850.50	578.81	51.43	579.32	0.00	0.00	0.00
4,000.00	9.99	5.08	3,948.99	596.08	52.97	596.61	0.00	0.00	0.00
4,100.00	9.99	5.08	4,047.47	613.35	54.50	613.90	0.00	0.00	0.00
4,200.00	9.99	5.08	4,145.96	630.63	56.04	631.19	0.00	0.00	0.00
4,300.00	9.99	5.08	4,244.44	647.90	57.57	648.47	0.00	0.00	0.00
4,400.00	9.99	5.08	4,342.93	665.17	59.11	665.76	0.00	0.00	0.00
4,500.00	9.99	5.08	4,441.41	682.45	60.64	683.05	0.00	0.00	0.00
4,600.00	9.99	5.08	4,539.90	699.72	62.18	700.34	0.00	0.00	0.00
4,700.00	9.99	5.08	4,638.38	716.99	63.71	717.63	0.00	0.00	0.00
4,800.00	9.99	5.08	4,736.87	734.26	65.25	734.91	0.00	0.00	0.00
4,900.00	9.99	5.08	4,835.35	751.54	66.78	752.20	0.00	0.00	0.00

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Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	MARBLE 6-65 24-12 4HN	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)
5,000.00	9.99	5.08	4,933.84	768.81	68.32	769.49	0.00	0.00	0.00
5,100.00	9.99	5.08	5,032.32	786.08	69.85	786.78	0.00	0.00	0.00
5,200.00	9.99	5.08	5,130.81	803.36	71.39	804.07	0.00	0.00	0.00
5,300.00	9.99	5.08	5,229.29	820.63	72.92	821.35	0.00	0.00	0.00
5,400.00	9.99	5.08	5,327.78	837.90	74.46	838.64	0.00	0.00	0.00
5,500.00	9.99	5.08	5,426.26	855.17	75.99	855.93	0.00	0.00	0.00
5,600.00	9.99	5.08	5,524.75	872.45	77.53	873.22	0.00	0.00	0.00
5,700.00	9.99	5.08	5,623.23	889.72	79.06	890.51	0.00	0.00	0.00
5,800.00	9.99	5.08	5,721.72	906.99	80.60	907.80	0.00	0.00	0.00
5,900.00	9.99	5.08	5,820.20	924.26	82.13	925.08	0.00	0.00	0.00
6,000.00	9.99	5.08	5,918.69	941.54	83.67	942.37	0.00	0.00	0.00
6,100.00	9.99	5.08	6,017.17	958.81	85.20	959.66	0.00	0.00	0.00
6,200.00	9.99	5.08	6,115.66	976.08	86.74	976.95	0.00	0.00	0.00
6,300.00	9.99	5.08	6,214.14	993.36	88.27	994.24	0.00	0.00	0.00
6,400.00	9.99	5.08	6,312.63	1,010.63	89.81	1,011.52	0.00	0.00	0.00
6,500.00	9.99	5.08	6,411.11	1,027.90	91.34	1,028.81	0.00	0.00	0.00
6,600.00	9.99	5.08	6,509.60	1,045.17	92.88	1,046.10	0.00	0.00	0.00
6,700.00	9.99	5.08	6,608.08	1,062.45	94.41	1,063.39	0.00	0.00	0.00
6,800.00	9.99	5.08	6,706.57	1,079.72	95.95	1,080.68	0.00	0.00	0.00
6,876.86	9.99	5.08	6,782.26	1,093.00	97.13	1,093.96	0.00	0.00	0.00
Drop: 2°/100' @ 6876.86' MD									
6,900.00	9.52	5.08	6,805.07	1,096.90	97.47	1,097.87	2.00	-2.00	0.00
7,000.00	7.52	5.08	6,903.96	1,111.66	98.78	1,112.65	2.00	-2.00	0.00
7,100.00	5.52	5.08	7,003.30	1,122.98	99.79	1,123.97	2.00	-2.00	0.00
7,200.00	3.52	5.08	7,102.99	1,130.83	100.49	1,131.84	2.00	-2.00	0.00
7,300.00	1.52	5.08	7,202.89	1,135.22	100.88	1,136.22	2.00	-2.00	0.00
7,376.17	0.00	0.00	7,279.04	1,136.23	100.97	1,137.23	2.00	-2.00	0.00
Hold: 0.00° Inc, 0.00° Azm									
7,400.00	0.00	0.00	7,302.88	1,136.23	100.97	1,137.23	0.00	0.00	0.00
7,500.00	0.00	0.00	7,402.88	1,136.23	100.97	1,137.23	0.00	0.00	0.00
7,600.00	0.00	0.00	7,502.88	1,136.23	100.97	1,137.23	0.00	0.00	0.00
7,676.17	0.00	0.00	7,579.04	1,136.23	100.97	1,137.23	0.00	0.00	0.00
KOP: 10°/100' @ 7676.17' MD - KOP-MARBLE 6-65 24-12 4HN									
7,700.00	2.38	0.20	7,602.87	1,136.72	100.97	1,137.73	10.00	10.00	0.00
7,750.00	7.38	0.20	7,652.67	1,140.98	100.98	1,141.98	10.00	10.00	0.00
7,800.00	12.38	0.20	7,701.91	1,149.56	101.01	1,150.56	10.00	10.00	0.00
7,850.00	17.38	0.20	7,750.22	1,162.40	101.06	1,163.40	10.00	10.00	0.00
7,900.00	22.38	0.20	7,797.23	1,179.40	101.12	1,180.40	10.00	10.00	0.00
7,950.00	27.38	0.20	7,842.57	1,200.43	101.20	1,201.43	10.00	10.00	0.00
8,000.00	32.38	0.20	7,885.91	1,225.33	101.28	1,226.34	10.00	10.00	0.00
8,050.00	37.38	0.20	7,926.91	1,253.92	101.39	1,254.92	10.00	10.00	0.00
8,100.00	42.38	0.20	7,965.27	1,285.97	101.50	1,286.97	10.00	10.00	0.00
8,150.00	47.38	0.20	8,000.68	1,321.24	101.63	1,322.24	10.00	10.00	0.00
8,200.00	52.38	0.20	8,032.89	1,359.47	101.76	1,360.47	10.00	10.00	0.00
8,250.00	57.38	0.20	8,061.64	1,400.35	101.91	1,401.35	10.00	10.00	0.00
8,300.00	62.38	0.20	8,086.72	1,443.59	102.06	1,444.59	10.00	10.00	0.00
8,350.00	67.38	0.20	8,107.94	1,488.85	102.22	1,489.84	10.00	10.00	0.00
8,400.00	72.38	0.20	8,125.13	1,535.78	102.39	1,536.78	10.00	10.00	0.00
8,450.00	77.38	0.20	8,138.17	1,584.03	102.56	1,585.03	10.00	10.00	0.00
8,500.00	82.38	0.20	8,146.95	1,633.24	102.74	1,634.24	10.00	10.00	0.00
8,550.00	87.38	0.20	8,151.40	1,683.03	102.92	1,684.02	10.00	10.00	0.00
8,576.17	90.00	0.20	8,152.00	1,709.18	103.01	1,710.18	10.00	10.00	0.00
LP: 8576.17' MD, 90.00° Inc, 0.20° Azm - FTP-MARBLE 6-65 24-12 4HN									
8,600.00	90.00	0.20	8,152.00	1,733.02	103.09	1,734.01	0.00	0.00	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)
8,700.00	90.00	0.20	8,152.00	1,833.02	103.45	1,834.01	0.00	0.00	0.00
8,800.00	90.00	0.20	8,152.00	1,933.01	103.81	1,934.01	0.00	0.00	0.00
8,900.00	90.00	0.20	8,152.00	2,033.01	104.16	2,034.00	0.00	0.00	0.00
9,000.00	90.00	0.20	8,152.00	2,133.01	104.52	2,134.00	0.00	0.00	0.00
9,100.00	90.00	0.20	8,152.00	2,233.01	104.88	2,234.00	0.00	0.00	0.00
9,200.00	90.00	0.20	8,152.00	2,333.01	105.23	2,334.00	0.00	0.00	0.00
9,300.00	90.00	0.20	8,152.00	2,433.01	105.59	2,433.99	0.00	0.00	0.00
9,400.00	90.00	0.20	8,152.00	2,533.01	105.95	2,533.99	0.00	0.00	0.00
9,500.00	90.00	0.20	8,152.00	2,633.01	106.30	2,633.99	0.00	0.00	0.00
9,600.00	90.00	0.20	8,152.00	2,733.01	106.66	2,733.99	0.00	0.00	0.00
9,700.00	90.00	0.20	8,152.00	2,833.01	107.02	2,833.98	0.00	0.00	0.00
9,800.00	90.00	0.20	8,152.00	2,933.01	107.37	2,933.98	0.00	0.00	0.00
9,900.00	90.00	0.20	8,152.00	3,033.01	107.73	3,033.98	0.00	0.00	0.00
10,000.00	90.00	0.20	8,152.00	3,133.01	108.09	3,133.98	0.00	0.00	0.00
10,100.00	90.00	0.20	8,152.00	3,233.01	108.44	3,233.97	0.00	0.00	0.00
10,200.00	90.00	0.20	8,152.00	3,333.01	108.80	3,333.97	0.00	0.00	0.00
10,300.00	90.00	0.20	8,152.00	3,433.01	109.16	3,433.97	0.00	0.00	0.00
10,400.00	90.00	0.20	8,152.00	3,533.00	109.51	3,533.97	0.00	0.00	0.00
10,500.00	90.00	0.20	8,152.00	3,633.00	109.87	3,633.96	0.00	0.00	0.00
10,600.00	90.00	0.20	8,152.00	3,733.00	110.22	3,733.96	0.00	0.00	0.00
10,700.00	90.00	0.20	8,152.00	3,833.00	110.58	3,833.96	0.00	0.00	0.00
10,800.00	90.00	0.20	8,152.00	3,933.00	110.94	3,933.96	0.00	0.00	0.00
10,900.00	90.00	0.20	8,152.00	4,033.00	111.29	4,033.95	0.00	0.00	0.00
11,000.00	90.00	0.20	8,152.00	4,133.00	111.65	4,133.95	0.00	0.00	0.00
11,100.00	90.00	0.20	8,152.00	4,233.00	112.01	4,233.95	0.00	0.00	0.00
11,200.00	90.00	0.20	8,152.00	4,333.00	112.36	4,333.95	0.00	0.00	0.00
11,300.00	90.00	0.20	8,152.00	4,433.00	112.72	4,433.94	0.00	0.00	0.00
11,400.00	90.00	0.20	8,152.00	4,533.00	113.08	4,533.94	0.00	0.00	0.00
11,500.00	90.00	0.20	8,152.00	4,633.00	113.43	4,633.94	0.00	0.00	0.00
11,600.00	90.00	0.20	8,152.00	4,733.00	113.79	4,733.94	0.00	0.00	0.00
11,700.00	90.00	0.20	8,152.00	4,833.00	114.15	4,833.93	0.00	0.00	0.00
11,800.00	90.00	0.20	8,152.00	4,933.00	114.50	4,933.93	0.00	0.00	0.00
11,900.00	90.00	0.20	8,152.00	5,032.99	114.86	5,033.93	0.00	0.00	0.00
12,000.00	90.00	0.20	8,152.00	5,132.99	115.22	5,133.93	0.00	0.00	0.00
12,100.00	90.00	0.20	8,152.00	5,232.99	115.57	5,233.92	0.00	0.00	0.00
12,200.00	90.00	0.20	8,152.00	5,332.99	115.93	5,333.92	0.00	0.00	0.00
12,300.00	90.00	0.20	8,152.00	5,432.99	116.29	5,433.92	0.00	0.00	0.00
12,400.00	90.00	0.20	8,152.00	5,532.99	116.64	5,533.92	0.00	0.00	0.00
12,500.00	90.00	0.20	8,152.00	5,632.99	117.00	5,633.91	0.00	0.00	0.00
12,600.00	90.00	0.20	8,152.00	5,732.99	117.35	5,733.91	0.00	0.00	0.00
12,700.00	90.00	0.20	8,152.00	5,832.99	117.71	5,833.91	0.00	0.00	0.00
12,800.00	90.00	0.20	8,152.00	5,932.99	118.07	5,933.91	0.00	0.00	0.00
12,900.00	90.00	0.20	8,152.00	6,032.99	118.42	6,033.90	0.00	0.00	0.00
13,000.00	90.00	0.20	8,152.00	6,132.99	118.78	6,133.90	0.00	0.00	0.00
13,100.00	90.00	0.20	8,152.00	6,232.99	119.14	6,233.90	0.00	0.00	0.00
13,200.00	90.00	0.20	8,152.00	6,332.99	119.49	6,333.90	0.00	0.00	0.00
13,300.00	90.00	0.20	8,152.00	6,432.99	119.85	6,433.89	0.00	0.00	0.00
13,400.00	90.00	0.20	8,152.00	6,532.99	120.21	6,533.89	0.00	0.00	0.00
13,500.00	90.00	0.20	8,152.00	6,632.98	120.56	6,633.89	0.00	0.00	0.00
13,600.00	90.00	0.20	8,152.00	6,732.98	120.92	6,733.89	0.00	0.00	0.00
13,700.00	90.00	0.20	8,152.00	6,832.98	121.28	6,833.89	0.00	0.00	0.00
13,800.00	90.00	0.20	8,152.00	6,932.98	121.63	6,933.88	0.00	0.00	0.00
13,900.00	90.00	0.20	8,152.00	7,032.98	121.99	7,033.88	0.00	0.00	0.00
14,000.00	90.00	0.20	8,152.00	7,132.98	122.35	7,133.88	0.00	0.00	0.00

Database:	Local	Local Co-ordinate Reference:	Well MARBLE 6-65 24-12 4HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6297.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6297.00usft
Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	MARBLE 6-65 24-12 4HN	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)
14,100.00	90.00	0.20	8,152.00	7,232.98	122.70	7,233.88	0.00	0.00	0.00
14,200.00	90.00	0.20	8,152.00	7,332.98	123.06	7,333.87	0.00	0.00	0.00
14,300.00	90.00	0.20	8,152.00	7,432.98	123.42	7,433.87	0.00	0.00	0.00
14,400.00	90.00	0.20	8,152.00	7,532.98	123.77	7,533.87	0.00	0.00	0.00
14,500.00	90.00	0.20	8,152.00	7,632.98	124.13	7,633.87	0.00	0.00	0.00
14,600.00	90.00	0.20	8,152.00	7,732.98	124.48	7,733.86	0.00	0.00	0.00
14,700.00	90.00	0.20	8,152.00	7,832.98	124.84	7,833.86	0.00	0.00	0.00
14,800.00	90.00	0.20	8,152.00	7,932.98	125.20	7,933.86	0.00	0.00	0.00
14,900.00	90.00	0.20	8,152.00	8,032.98	125.55	8,033.86	0.00	0.00	0.00
15,000.00	90.00	0.20	8,152.00	8,132.98	125.91	8,133.85	0.00	0.00	0.00
15,100.00	90.00	0.20	8,152.00	8,232.97	126.27	8,233.85	0.00	0.00	0.00
15,200.00	90.00	0.20	8,152.00	8,332.97	126.62	8,333.85	0.00	0.00	0.00
15,300.00	90.00	0.20	8,152.00	8,432.97	126.98	8,433.85	0.00	0.00	0.00
15,400.00	90.00	0.20	8,152.00	8,532.97	127.34	8,533.84	0.00	0.00	0.00
15,500.00	90.00	0.20	8,152.00	8,632.97	127.69	8,633.84	0.00	0.00	0.00
15,600.00	90.00	0.20	8,152.00	8,732.97	128.05	8,733.84	0.00	0.00	0.00
15,700.00	90.00	0.20	8,152.00	8,832.97	128.41	8,833.84	0.00	0.00	0.00
15,800.00	90.00	0.20	8,152.00	8,932.97	128.76	8,933.83	0.00	0.00	0.00
15,900.00	90.00	0.20	8,152.00	9,032.97	129.12	9,033.83	0.00	0.00	0.00
16,000.00	90.00	0.20	8,152.00	9,132.97	129.48	9,133.83	0.00	0.00	0.00
16,100.00	90.00	0.20	8,152.00	9,232.97	129.83	9,233.83	0.00	0.00	0.00
16,200.00	90.00	0.20	8,152.00	9,332.97	130.19	9,333.82	0.00	0.00	0.00
16,300.00	90.00	0.20	8,152.00	9,432.97	130.55	9,433.82	0.00	0.00	0.00
16,400.00	90.00	0.20	8,152.00	9,532.97	130.90	9,533.82	0.00	0.00	0.00
16,500.00	90.00	0.20	8,152.00	9,632.97	131.26	9,633.82	0.00	0.00	0.00
16,600.00	90.00	0.20	8,152.00	9,732.97	131.61	9,733.81	0.00	0.00	0.00
16,700.00	90.00	0.20	8,152.00	9,832.96	131.97	9,833.81	0.00	0.00	0.00
16,800.00	90.00	0.20	8,152.00	9,932.96	132.33	9,933.81	0.00	0.00	0.00
16,900.00	90.00	0.20	8,152.00	10,032.96	132.68	10,033.81	0.00	0.00	0.00
17,000.00	90.00	0.20	8,152.00	10,132.96	133.04	10,133.80	0.00	0.00	0.00
17,100.00	90.00	0.20	8,152.00	10,232.96	133.40	10,233.80	0.00	0.00	0.00
17,200.00	90.00	0.20	8,152.00	10,332.96	133.75	10,333.80	0.00	0.00	0.00
17,300.00	90.00	0.20	8,152.00	10,432.96	134.11	10,433.80	0.00	0.00	0.00
17,400.00	90.00	0.20	8,152.00	10,532.96	134.47	10,533.79	0.00	0.00	0.00
17,500.00	90.00	0.20	8,152.00	10,632.96	134.82	10,633.79	0.00	0.00	0.00
17,600.00	90.00	0.20	8,152.00	10,732.96	135.18	10,733.79	0.00	0.00	0.00
17,700.00	90.00	0.20	8,152.00	10,832.96	135.54	10,833.79	0.00	0.00	0.00
17,800.00	90.00	0.20	8,152.00	10,932.96	135.89	10,933.78	0.00	0.00	0.00
17,900.00	90.00	0.20	8,152.00	11,032.96	136.25	11,033.78	0.00	0.00	0.00
18,000.00	90.00	0.20	8,152.00	11,132.96	136.61	11,133.78	0.00	0.00	0.00
18,100.00	90.00	0.20	8,152.00	11,232.96	136.96	11,233.78	0.00	0.00	0.00
18,200.00	90.00	0.20	8,152.00	11,332.96	137.32	11,333.77	0.00	0.00	0.00
18,300.00	90.00	0.20	8,152.00	11,432.95	137.67	11,433.77	0.00	0.00	0.00
18,400.00	90.00	0.20	8,152.00	11,532.95	138.03	11,533.77	0.00	0.00	0.00
18,500.00	90.00	0.20	8,152.00	11,632.95	138.39	11,633.77	0.00	0.00	0.00
18,600.00	90.00	0.20	8,152.00	11,732.95	138.74	11,733.76	0.00	0.00	0.00
18,700.00	90.00	0.20	8,152.00	11,832.95	139.10	11,833.76	0.00	0.00	0.00
18,800.00	90.00	0.20	8,152.00	11,932.95	139.46	11,933.76	0.00	0.00	0.00
18,900.00	90.00	0.20	8,152.00	12,032.95	139.81	12,033.76	0.00	0.00	0.00
19,000.00	90.00	0.20	8,152.00	12,132.95	140.17	12,133.75	0.00	0.00	0.00
19,100.00	90.00	0.20	8,152.00	12,232.95	140.53	12,233.75	0.00	0.00	0.00
19,200.00	90.00	0.20	8,152.00	12,332.95	140.88	12,333.75	0.00	0.00	0.00
19,300.00	90.00	0.20	8,152.00	12,432.95	141.24	12,433.75	0.00	0.00	0.00
19,400.00	90.00	0.20	8,152.00	12,532.95	141.60	12,533.74	0.00	0.00	0.00

Database:	Local	Local Co-ordinate Reference:	Well MARBLE 6-65 24-12 4HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6297.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6297.00usft
Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	MARBLE 6-65 24-12 4HN	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)	
19,500.00	90.00	0.20	8,152.00	12,632.95	141.95	12,633.74	0.00	0.00	0.00	
19,600.00	90.00	0.20	8,152.00	12,732.95	142.31	12,733.74	0.00	0.00	0.00	
19,700.00	90.00	0.20	8,152.00	12,832.95	142.67	12,833.74	0.00	0.00	0.00	
19,800.00	90.00	0.20	8,152.00	12,932.94	143.02	12,933.73	0.00	0.00	0.00	
19,900.00	90.00	0.20	8,152.00	13,032.94	143.38	13,033.73	0.00	0.00	0.00	
20,000.00	90.00	0.20	8,152.00	13,132.94	143.74	13,133.73	0.00	0.00	0.00	
20,100.00	90.00	0.20	8,152.00	13,232.94	144.09	13,233.73	0.00	0.00	0.00	
20,200.00	90.00	0.20	8,152.00	13,332.94	144.45	13,333.72	0.00	0.00	0.00	
20,300.00	90.00	0.20	8,152.00	13,432.94	144.80	13,433.72	0.00	0.00	0.00	
20,400.00	90.00	0.20	8,152.00	13,532.94	145.16	13,533.72	0.00	0.00	0.00	
20,500.00	90.00	0.20	8,152.00	13,632.94	145.52	13,633.72	0.00	0.00	0.00	
20,594.56	90.00	0.20	8,152.00	13,727.50	145.86	13,728.28	0.00	0.00	0.00	
Hold: 90.00° Inc, 0.20° Azm - LTP-MARBLE 6-65 24-12 4HN										
20,600.00	90.00	0.20	8,152.00	13,732.94	145.87	13,733.71	0.00	0.00	0.00	
20,644.56	90.00	0.20	8,152.00	13,777.50	146.03	13,778.28	0.00	0.00	0.00	
TD @ 20644.56' MD/8152.00' TVD - BHL-MARBLE 6-65 24-12 4HN										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL-MARBLE 6-65 2' - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	1,612,169.92	3,248,924.90	39.510865	-104.617715	
KOP-MARBLE 6-65 2' - plan hits target center - Point	0.00	0.00	7,579.04	1,136.23	100.97	1,613,306.14	3,249,025.87	39.513981	-104.617318	
BHL-MARBLE 6-65 2' - plan hits target center - Point	0.00	0.00	8,152.00	13,777.50	146.03	1,625,947.42	3,249,070.94	39.548684	-104.616722	
LTP-MARBLE 6-65 24' - plan hits target center - Point	0.00	0.00	8,152.00	13,727.50	145.86	1,625,897.42	3,249,070.76	39.548547	-104.616725	
FTP-MARBLE 6-65 2' - plan hits target center - Point	0.00	0.00	8,152.00	1,709.18	103.01	1,613,879.10	3,249,027.91	39.515554	-104.617291	

Database:	Local	Local Co-ordinate Reference:	Well MARBLE 6-65 24-12 4HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6297.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6297.00usft
Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	MARBLE 6-65 24-12 4HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
512.19	512.00	Denver				
1,627.06	1,612.00	Upper Arapahoe				
2,281.99	2,257.00	Laramie - Fox Hills				
2,454.60	2,427.00	Pierre Shale (Base of Fox Hills)				
5,693.67	5,617.00	Sussex Sandstone				
8,082.29	7,952.00	Sharon Springs Shale				
8,137.33	7,992.00	Niobrara				
8,151.95	8,002.00	Niobrara A				
8,389.94	8,122.00	Niobrara B Top				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
300.00	300.00	0.00	0.00	Build: 2°/100' @ 300.00' MD	
799.30	796.78	43.23	3.84	Hold: 9.99° Inc, 5.08° Azm	
6,876.86	6,782.26	1,093.00	97.13	Drop: 2°/100' @ 6876.86' MD	
7,376.17	7,279.04	1,136.23	100.97	Hold: 0.00° Inc, 0.00° Azm	
7,676.17	7,579.04	1,136.23	100.97	KOP: 10°/100' @ 7676.17' MD	
8,576.17	8,152.00	1,709.18	103.01	LP: 8576.17' MD, 90.00° Inc, 0.20° Azm	
20,594.56	8,152.00	13,727.50	145.86	Hold: 90.00° Inc, 0.20° Azm	
20,644.56	8,152.00	13,777.50	146.03	TD @ 20644.56' MD/8152.00' TVD	