



GMT Exploration Company, LLC

Elbert County, CO (NAD 83)

Marble-Redstone Pad

MARBLE 6-65 24-12 9HN

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 9HN
 Wellbore: Wellbore #1
 Design: Design #1

GMT Exploration Company, LLC

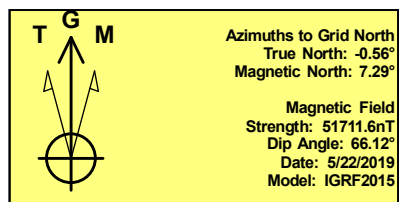
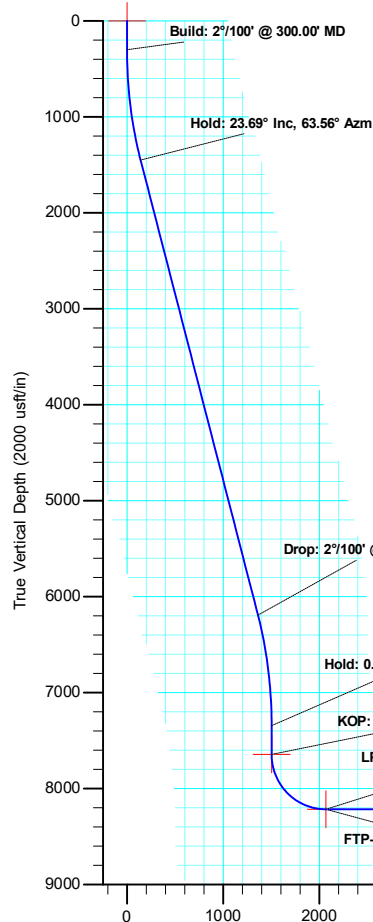
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Central Zone
 System Datum: Mean Sea Level

WELL DETAILS: MARBLE 6-65 24-12 9HN

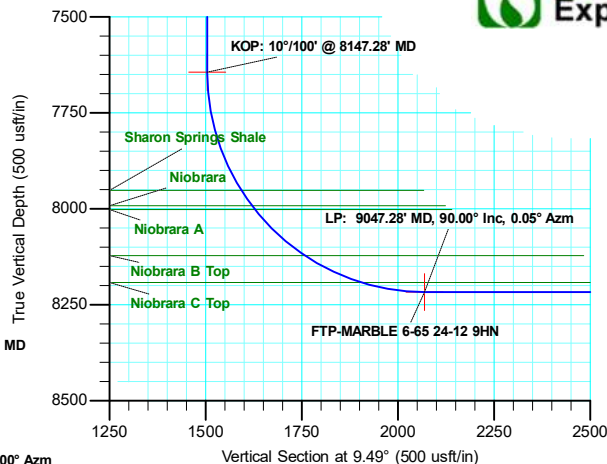
+N/-S	+E/-W	Northing	Ground Level: Easting	6277.00 Latitude	Longitude
-1067.41	-687.10	1612169.92	3249024.90	39.510862	-104.617360

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	-1067.41	-687.10	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	-1067.41	-687.10	0.00	0.00	0.00	
1484.44	23.69	63.56	1450.98	-959.92	-470.97	2.00	63.56	141.66	
6662.84	23.69	63.56	6193.06	-33.47	1391.89	0.00	0.00	1362.64	
7847.28	0.00	0.00	7344.04	74.02	1608.02	2.00	180.00	1504.29	
8147.28	0.00	0.00	7644.04	74.02	1608.02	0.00	0.00	1504.29	
9047.28	90.00	0.05	8217.00	646.97	1608.54	10.00	0.00	2069.49	FTP-MARBLE 6-65 24-12 9HN
21078.01	90.00	0.05	8217.00	12677.69	1619.46	0.00	0.00	13937.29	LTP-MARBLE 6-65 24-12 9HN
21128.01	90.00	0.05	8217.00	12727.70	1619.51	0.00	0.00	13986.61	BHL-MARBLE 6-65 24-12 9HN



SHL: 1527 FSL/ 1968 FWL Sec. 24
 FTP: 2049 FNL/ 1059 FEL Sec. 24
 LTP: 600 FNL/ 1052 FEL Sec. 12
 BHL: 550 FNL/ 1052 FEL Sec. 12

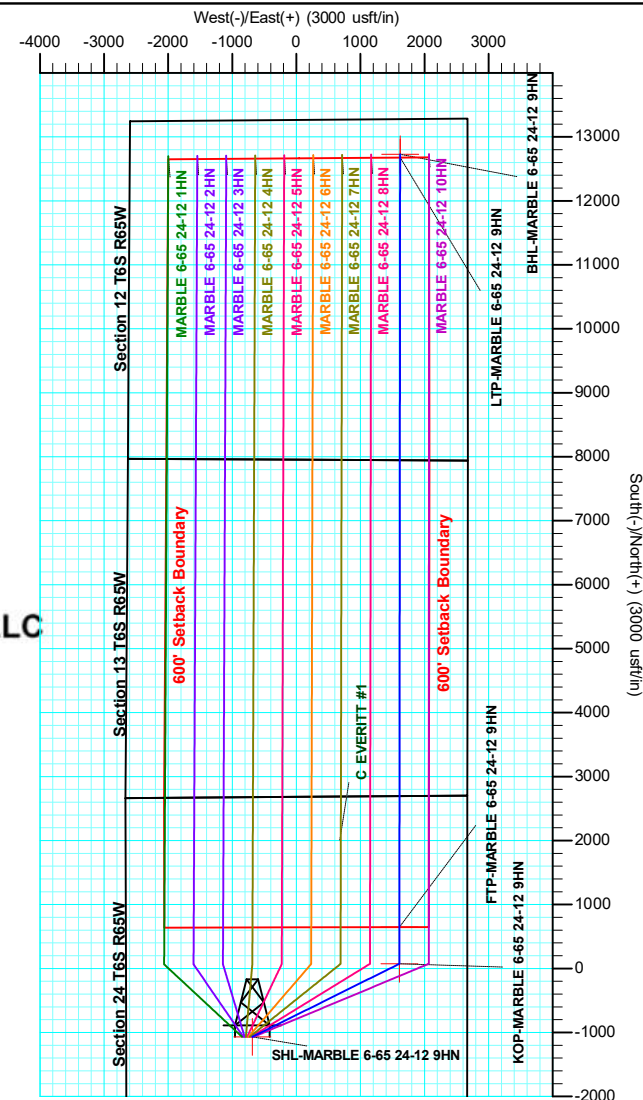


KOP: 10°/100' @ 8147.28' MD
 LP: 9047.28' MD, 90.00° Inc, 0.05° Azm

KOP: 10°/100' @ 8147.28' MD

LP: 9047.28' MD, 90.00° Inc, 0.05° Azm

FTP-MARBLE 6-65 24-12 9HN



TD @ 21128.01' MD/8217.00' TVD
 Hold: 90.00° Inc, 0.05° Azm
 LTP-MARBLE 6-65 24-12 9HN
 BHL-MARBLE 6-65 24-12 9HN

Database:	Local	Local Co-ordinate Reference:	Well MARBLE 6-65 24-12 9HN
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 9HN	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 9HN					
Well Position	+N/-S	-1,067.41 usft	Northing:	1,612,169.92 usft	Latitude:	39.510862
	+E/-W	-687.10 usft	Easting:	3,249,024.90 usft	Longitude:	-104.617360
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	51,711.60348017

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	9.49

Plan Survey Tool Program	Date	5/24/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	21,128.01	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	
1,484.44	23.69	63.56	1,450.98	107.49	216.13	2.00	2.00	0.00	63.56	
6,662.84	23.69	63.56	6,193.06	1,033.94	2,078.99	0.00	0.00	0.00	0.00	
7,847.28	0.00	0.00	7,344.04	1,141.42	2,295.12	2.00	-2.00	0.00	180.00	
8,147.28	0.00	0.00	7,644.04	1,141.42	2,295.12	0.00	0.00	0.00	0.00	
9,047.28	90.00	0.05	8,217.00	1,714.38	2,295.64	10.00	10.00	0.00	0.00	FTP-MARBLE 6-65
21,078.01	90.00	0.05	8,217.00	13,745.10	2,306.56	0.00	0.00	0.00	0.00	LTP-MARBLE 6-65
21,128.01	90.00	0.05	8,217.00	13,795.10	2,306.61	0.00	0.00	0.00	0.00	BHL-MARBLE 6-65

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Well:	MARBLE 6-65 24-12 9HN	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 9HN									
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	63.56	399.98	0.78	1.56	1.02	2.00	2.00	0.00
500.00	4.00	63.56	499.84	3.11	6.25	4.10	2.00	2.00	0.00
600.00	6.00	63.56	599.45	6.99	14.05	9.21	2.00	2.00	0.00
700.00	8.00	63.56	698.70	12.41	24.96	16.36	2.00	2.00	0.00
800.00	10.00	63.56	797.47	19.38	38.97	25.54	2.00	2.00	0.00
900.00	12.00	63.56	895.62	27.88	56.05	36.74	2.00	2.00	0.00
1,000.00	14.00	63.56	993.06	37.89	76.19	49.94	2.00	2.00	0.00
1,100.00	16.00	63.56	1,089.64	49.42	99.37	65.13	2.00	2.00	0.00
1,200.00	18.00	63.56	1,185.27	62.44	125.54	82.29	2.00	2.00	0.00
1,300.00	20.00	63.56	1,279.82	76.93	154.69	101.39	2.00	2.00	0.00
1,400.00	22.00	63.56	1,373.17	92.89	186.78	122.42	2.00	2.00	0.00
1,484.44	23.69	63.56	1,450.98	107.49	216.13	141.66	2.00	2.00	0.00
Hold: 23.69° Inc, 63.56° Azm									
1,500.00	23.69	63.56	1,465.23	110.27	221.73	145.33	0.00	0.00	0.00
1,600.00	23.69	63.56	1,556.81	128.16	257.70	168.91	0.00	0.00	0.00
1,700.00	23.69	63.56	1,648.38	146.05	293.68	192.48	0.00	0.00	0.00
1,800.00	23.69	63.56	1,739.95	163.94	329.65	216.06	0.00	0.00	0.00
1,900.00	23.69	63.56	1,831.53	181.83	365.62	239.64	0.00	0.00	0.00
2,000.00	23.69	63.56	1,923.10	199.72	401.60	263.22	0.00	0.00	0.00
2,100.00	23.69	63.56	2,014.68	217.62	437.57	286.80	0.00	0.00	0.00
2,200.00	23.69	63.56	2,106.25	235.51	473.54	310.38	0.00	0.00	0.00
2,300.00	23.69	63.56	2,197.83	253.40	509.52	333.95	0.00	0.00	0.00
2,400.00	23.69	63.56	2,289.40	271.29	545.49	357.53	0.00	0.00	0.00
2,500.00	23.69	63.56	2,380.97	289.18	581.46	381.11	0.00	0.00	0.00
2,600.00	23.69	63.56	2,472.55	307.07	617.44	404.69	0.00	0.00	0.00
2,700.00	23.69	63.56	2,564.12	324.96	653.41	428.27	0.00	0.00	0.00
2,800.00	23.69	63.56	2,655.70	342.85	689.39	451.85	0.00	0.00	0.00
2,900.00	23.69	63.56	2,747.27	360.74	725.36	475.42	0.00	0.00	0.00
3,000.00	23.69	63.56	2,838.84	378.63	761.33	499.00	0.00	0.00	0.00
3,100.00	23.69	63.56	2,930.42	396.52	797.31	522.58	0.00	0.00	0.00
3,200.00	23.69	63.56	3,021.99	414.41	833.28	546.16	0.00	0.00	0.00
3,300.00	23.69	63.56	3,113.57	432.30	869.25	569.74	0.00	0.00	0.00
3,400.00	23.69	63.56	3,205.14	450.19	905.23	593.31	0.00	0.00	0.00
3,500.00	23.69	63.56	3,296.71	468.08	941.20	616.89	0.00	0.00	0.00
3,600.00	23.69	63.56	3,388.29	485.97	977.17	640.47	0.00	0.00	0.00
3,700.00	23.69	63.56	3,479.86	503.86	1,013.15	664.05	0.00	0.00	0.00
3,800.00	23.69	63.56	3,571.44	521.76	1,049.12	687.63	0.00	0.00	0.00
3,900.00	23.69	63.56	3,663.01	539.65	1,085.09	711.21	0.00	0.00	0.00
4,000.00	23.69	63.56	3,754.59	557.54	1,121.07	734.78	0.00	0.00	0.00
4,100.00	23.69	63.56	3,846.16	575.43	1,157.04	758.36	0.00	0.00	0.00
4,200.00	23.69	63.56	3,937.73	593.32	1,193.02	781.94	0.00	0.00	0.00
4,300.00	23.69	63.56	4,029.31	611.21	1,228.99	805.52	0.00	0.00	0.00
4,400.00	23.69	63.56	4,120.88	629.10	1,264.96	829.10	0.00	0.00	0.00
4,500.00	23.69	63.56	4,212.46	646.99	1,300.94	852.68	0.00	0.00	0.00
4,600.00	23.69	63.56	4,304.03	664.88	1,336.91	876.25	0.00	0.00	0.00
4,700.00	23.69	63.56	4,395.60	682.77	1,372.88	899.83	0.00	0.00	0.00
4,800.00	23.69	63.56	4,487.18	700.66	1,408.86	923.41	0.00	0.00	0.00

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Well:	MARBLE 6-65 24-12 9HN	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)
4,900.00	23.69	63.56	4,578.75	718.55	1,444.83	946.99	0.00	0.00	0.00
5,000.00	23.69	63.56	4,670.33	736.44	1,480.80	970.57	0.00	0.00	0.00
5,100.00	23.69	63.56	4,761.90	754.33	1,516.78	994.14	0.00	0.00	0.00
5,200.00	23.69	63.56	4,853.48	772.22	1,552.75	1,017.72	0.00	0.00	0.00
5,300.00	23.69	63.56	4,945.05	790.11	1,588.73	1,041.30	0.00	0.00	0.00
5,400.00	23.69	63.56	5,036.62	808.01	1,624.70	1,064.88	0.00	0.00	0.00
5,500.00	23.69	63.56	5,128.20	825.90	1,660.67	1,088.46	0.00	0.00	0.00
5,600.00	23.69	63.56	5,219.77	843.79	1,696.65	1,112.04	0.00	0.00	0.00
5,700.00	23.69	63.56	5,311.35	861.68	1,732.62	1,135.61	0.00	0.00	0.00
5,800.00	23.69	63.56	5,402.92	879.57	1,768.59	1,159.19	0.00	0.00	0.00
5,900.00	23.69	63.56	5,494.49	897.46	1,804.57	1,182.77	0.00	0.00	0.00
6,000.00	23.69	63.56	5,586.07	915.35	1,840.54	1,206.35	0.00	0.00	0.00
6,100.00	23.69	63.56	5,677.64	933.24	1,876.51	1,229.93	0.00	0.00	0.00
6,200.00	23.69	63.56	5,769.22	951.13	1,912.49	1,253.51	0.00	0.00	0.00
6,300.00	23.69	63.56	5,860.79	969.02	1,948.46	1,277.08	0.00	0.00	0.00
6,400.00	23.69	63.56	5,952.37	986.91	1,984.43	1,300.66	0.00	0.00	0.00
6,500.00	23.69	63.56	6,043.94	1,004.80	2,020.41	1,324.24	0.00	0.00	0.00
6,600.00	23.69	63.56	6,135.51	1,022.69	2,056.38	1,347.82	0.00	0.00	0.00
6,662.84	23.69	63.56	6,193.06	1,033.94	2,078.99	1,362.64	0.00	0.00	0.00
Drop: 2°/100' @ 6662.84' MD									
6,700.00	22.95	63.56	6,227.18	1,040.48	2,092.16	1,371.27	2.00	-2.00	0.00
6,800.00	20.95	63.56	6,319.93	1,057.13	2,125.62	1,393.20	2.00	-2.00	0.00
6,900.00	18.95	63.56	6,413.93	1,072.32	2,156.16	1,413.22	2.00	-2.00	0.00
7,000.00	16.95	63.56	6,509.06	1,086.03	2,183.75	1,431.30	2.00	-2.00	0.00
7,100.00	14.95	63.56	6,605.21	1,098.27	2,208.35	1,447.42	2.00	-2.00	0.00
7,200.00	12.95	63.56	6,702.25	1,109.00	2,229.92	1,461.56	2.00	-2.00	0.00
7,300.00	10.95	63.56	6,800.08	1,118.22	2,248.45	1,473.71	2.00	-2.00	0.00
7,400.00	8.95	63.56	6,898.58	1,125.91	2,263.92	1,483.84	2.00	-2.00	0.00
7,500.00	6.95	63.56	6,997.61	1,132.06	2,276.29	1,491.96	2.00	-2.00	0.00
7,600.00	4.95	63.56	7,097.07	1,136.67	2,285.57	1,498.03	2.00	-2.00	0.00
7,700.00	2.95	63.56	7,196.83	1,139.74	2,291.73	1,502.07	2.00	-2.00	0.00
7,800.00	0.95	63.56	7,296.76	1,141.25	2,294.77	1,504.07	2.00	-2.00	0.00
7,847.28	0.00	0.00	7,344.04	1,141.42	2,295.12	1,504.29	2.00	-2.00	0.00
Hold: 0.00° Inc, 0.00° Azm									
7,900.00	0.00	0.00	7,396.76	1,141.42	2,295.12	1,504.29	0.00	0.00	0.00
8,000.00	0.00	0.00	7,496.76	1,141.42	2,295.12	1,504.29	0.00	0.00	0.00
8,100.00	0.00	0.00	7,596.76	1,141.42	2,295.12	1,504.29	0.00	0.00	0.00
8,147.28	0.00	0.00	7,644.04	1,141.42	2,295.12	1,504.29	0.00	0.00	0.00
KOP: 10°/100' @ 8147.28' MD - KOP-MARBLE 6-65 24-12 9HN									
8,150.00	0.27	0.05	7,646.76	1,141.43	2,295.12	1,504.30	10.00	10.00	0.00
8,200.00	5.27	0.05	7,696.69	1,143.85	2,295.12	1,506.68	10.00	10.00	0.00
8,250.00	10.27	0.05	7,746.21	1,150.61	2,295.13	1,513.35	10.00	10.00	0.00
8,300.00	15.27	0.05	7,794.96	1,161.66	2,295.14	1,524.25	10.00	10.00	0.00
8,350.00	20.27	0.05	7,842.56	1,176.91	2,295.15	1,539.30	10.00	10.00	0.00
8,400.00	25.27	0.05	7,888.65	1,196.26	2,295.17	1,558.39	10.00	10.00	0.00
8,450.00	30.27	0.05	7,932.87	1,219.55	2,295.19	1,581.36	10.00	10.00	0.00
8,500.00	35.27	0.05	7,974.90	1,246.61	2,295.21	1,608.05	10.00	10.00	0.00
8,550.00	40.27	0.05	8,014.41	1,277.22	2,295.24	1,638.25	10.00	10.00	0.00
8,600.00	45.27	0.05	8,051.10	1,311.17	2,295.27	1,671.74	10.00	10.00	0.00
8,650.00	50.27	0.05	8,084.70	1,348.18	2,295.31	1,708.25	10.00	10.00	0.00
8,700.00	55.27	0.05	8,114.94	1,387.98	2,295.34	1,747.51	10.00	10.00	0.00
8,750.00	60.27	0.05	8,141.59	1,430.26	2,295.38	1,789.22	10.00	10.00	0.00
8,800.00	65.27	0.05	8,164.46	1,474.71	2,295.42	1,833.06	10.00	10.00	0.00



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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)
8,850.00	70.27	0.05	8,183.37	1,520.97	2,295.46	1,878.71	10.00	10.00	0.00
8,900.00	75.27	0.05	8,198.17	1,568.72	2,295.51	1,925.80	10.00	10.00	0.00
8,950.00	80.27	0.05	8,208.76	1,617.57	2,295.55	1,973.99	10.00	10.00	0.00
9,000.00	85.27	0.05	8,215.05	1,667.15	2,295.60	2,022.90	10.00	10.00	0.00
9,047.28	90.00	0.05	8,217.00	1,714.38	2,295.64	2,069.49	10.00	10.00	0.00
LP: 9047.28' MD, 90.00° Inc, 0.05° Azm - FTP-MARBLE 6-65 24-12 9HN									
9,100.00	90.00	0.05	8,217.00	1,767.10	2,295.69	2,121.50	0.00	0.00	0.00
9,200.00	90.00	0.05	8,217.00	1,867.10	2,295.78	2,220.14	0.00	0.00	0.00
9,300.00	90.00	0.05	8,217.00	1,967.10	2,295.87	2,318.79	0.00	0.00	0.00
9,400.00	90.00	0.05	8,217.00	2,067.10	2,295.96	2,417.43	0.00	0.00	0.00
9,500.00	90.00	0.05	8,217.00	2,167.10	2,296.05	2,516.08	0.00	0.00	0.00
9,600.00	90.00	0.05	8,217.00	2,267.10	2,296.14	2,614.73	0.00	0.00	0.00
9,700.00	90.00	0.05	8,217.00	2,367.10	2,296.23	2,713.37	0.00	0.00	0.00
9,800.00	90.00	0.05	8,217.00	2,467.10	2,296.32	2,812.02	0.00	0.00	0.00
9,900.00	90.00	0.05	8,217.00	2,567.10	2,296.41	2,910.66	0.00	0.00	0.00
10,000.00	90.00	0.05	8,217.00	2,667.10	2,296.50	3,009.31	0.00	0.00	0.00
10,100.00	90.00	0.05	8,217.00	2,767.10	2,296.59	3,107.95	0.00	0.00	0.00
10,200.00	90.00	0.05	8,217.00	2,867.10	2,296.69	3,206.60	0.00	0.00	0.00
10,300.00	90.00	0.05	8,217.00	2,967.10	2,296.78	3,305.25	0.00	0.00	0.00
10,400.00	90.00	0.05	8,217.00	3,067.10	2,296.87	3,403.89	0.00	0.00	0.00
10,500.00	90.00	0.05	8,217.00	3,167.10	2,296.96	3,502.54	0.00	0.00	0.00
10,600.00	90.00	0.05	8,217.00	3,267.10	2,297.05	3,601.18	0.00	0.00	0.00
10,700.00	90.00	0.05	8,217.00	3,367.10	2,297.14	3,699.83	0.00	0.00	0.00
10,800.00	90.00	0.05	8,217.00	3,467.10	2,297.23	3,798.47	0.00	0.00	0.00
10,900.00	90.00	0.05	8,217.00	3,567.10	2,297.32	3,897.12	0.00	0.00	0.00
11,000.00	90.00	0.05	8,217.00	3,667.10	2,297.41	3,995.77	0.00	0.00	0.00
11,100.00	90.00	0.05	8,217.00	3,767.10	2,297.50	4,094.41	0.00	0.00	0.00
11,200.00	90.00	0.05	8,217.00	3,867.10	2,297.59	4,193.06	0.00	0.00	0.00
11,300.00	90.00	0.05	8,217.00	3,967.10	2,297.68	4,291.70	0.00	0.00	0.00
11,400.00	90.00	0.05	8,217.00	4,067.10	2,297.77	4,390.35	0.00	0.00	0.00
11,500.00	90.00	0.05	8,217.00	4,167.10	2,297.87	4,488.99	0.00	0.00	0.00
11,600.00	90.00	0.05	8,217.00	4,267.10	2,297.96	4,587.64	0.00	0.00	0.00
11,700.00	90.00	0.05	8,217.00	4,367.10	2,298.05	4,686.29	0.00	0.00	0.00
11,800.00	90.00	0.05	8,217.00	4,467.10	2,298.14	4,784.93	0.00	0.00	0.00
11,900.00	90.00	0.05	8,217.00	4,567.10	2,298.23	4,883.58	0.00	0.00	0.00
12,000.00	90.00	0.05	8,217.00	4,667.10	2,298.32	4,982.22	0.00	0.00	0.00
12,100.00	90.00	0.05	8,217.00	4,767.10	2,298.41	5,080.87	0.00	0.00	0.00
12,200.00	90.00	0.05	8,217.00	4,867.10	2,298.50	5,179.51	0.00	0.00	0.00
12,300.00	90.00	0.05	8,217.00	4,967.10	2,298.59	5,278.16	0.00	0.00	0.00
12,400.00	90.00	0.05	8,217.00	5,067.10	2,298.68	5,376.81	0.00	0.00	0.00
12,500.00	90.00	0.05	8,217.00	5,167.10	2,298.77	5,475.45	0.00	0.00	0.00
12,600.00	90.00	0.05	8,217.00	5,267.10	2,298.86	5,574.10	0.00	0.00	0.00
12,700.00	90.00	0.05	8,217.00	5,367.10	2,298.95	5,672.74	0.00	0.00	0.00
12,800.00	90.00	0.05	8,217.00	5,467.10	2,299.05	5,771.39	0.00	0.00	0.00
12,900.00	90.00	0.05	8,217.00	5,567.10	2,299.14	5,870.03	0.00	0.00	0.00
13,000.00	90.00	0.05	8,217.00	5,667.10	2,299.23	5,968.68	0.00	0.00	0.00
13,100.00	90.00	0.05	8,217.00	5,767.10	2,299.32	6,067.33	0.00	0.00	0.00
13,200.00	90.00	0.05	8,217.00	5,867.10	2,299.41	6,165.97	0.00	0.00	0.00
13,300.00	90.00	0.05	8,217.00	5,967.10	2,299.50	6,264.62	0.00	0.00	0.00
13,400.00	90.00	0.05	8,217.00	6,067.10	2,299.59	6,363.26	0.00	0.00	0.00
13,500.00	90.00	0.05	8,217.00	6,167.10	2,299.68	6,461.91	0.00	0.00	0.00
13,600.00	90.00	0.05	8,217.00	6,267.10	2,299.77	6,560.55	0.00	0.00	0.00
13,700.00	90.00	0.05	8,217.00	6,367.10	2,299.86	6,659.20	0.00	0.00	0.00
13,800.00	90.00	0.05	8,217.00	6,467.10	2,299.95	6,757.85	0.00	0.00	0.00

Database:	Local	Local Co-ordinate Reference:	Well MARBLE 6-65 24-12 9HN
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 9HN	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)
13,900.00	90.00	0.05	8,217.00	6,567.10	2,300.04	6,856.49	0.00	0.00	0.00
14,000.00	90.00	0.05	8,217.00	6,667.10	2,300.13	6,955.14	0.00	0.00	0.00
14,100.00	90.00	0.05	8,217.00	6,767.10	2,300.23	7,053.78	0.00	0.00	0.00
14,200.00	90.00	0.05	8,217.00	6,867.10	2,300.32	7,152.43	0.00	0.00	0.00
14,300.00	90.00	0.05	8,217.00	6,967.10	2,300.41	7,251.07	0.00	0.00	0.00
14,400.00	90.00	0.05	8,217.00	7,067.10	2,300.50	7,349.72	0.00	0.00	0.00
14,500.00	90.00	0.05	8,217.00	7,167.10	2,300.59	7,448.37	0.00	0.00	0.00
14,600.00	90.00	0.05	8,217.00	7,267.10	2,300.68	7,547.01	0.00	0.00	0.00
14,700.00	90.00	0.05	8,217.00	7,367.10	2,300.77	7,645.66	0.00	0.00	0.00
14,800.00	90.00	0.05	8,217.00	7,467.10	2,300.86	7,744.30	0.00	0.00	0.00
14,900.00	90.00	0.05	8,217.00	7,567.10	2,300.95	7,842.95	0.00	0.00	0.00
15,000.00	90.00	0.05	8,217.00	7,667.10	2,301.04	7,941.59	0.00	0.00	0.00
15,100.00	90.00	0.05	8,217.00	7,767.10	2,301.13	8,040.24	0.00	0.00	0.00
15,200.00	90.00	0.05	8,217.00	7,867.10	2,301.22	8,138.89	0.00	0.00	0.00
15,300.00	90.00	0.05	8,217.00	7,967.10	2,301.31	8,237.53	0.00	0.00	0.00
15,400.00	90.00	0.05	8,217.00	8,067.10	2,301.41	8,336.18	0.00	0.00	0.00
15,500.00	90.00	0.05	8,217.00	8,167.10	2,301.50	8,434.82	0.00	0.00	0.00
15,600.00	90.00	0.05	8,217.00	8,267.10	2,301.59	8,533.47	0.00	0.00	0.00
15,700.00	90.00	0.05	8,217.00	8,367.10	2,301.68	8,632.11	0.00	0.00	0.00
15,800.00	90.00	0.05	8,217.00	8,467.10	2,301.77	8,730.76	0.00	0.00	0.00
15,900.00	90.00	0.05	8,217.00	8,567.10	2,301.86	8,829.41	0.00	0.00	0.00
16,000.00	90.00	0.05	8,217.00	8,667.10	2,301.95	8,928.05	0.00	0.00	0.00
16,100.00	90.00	0.05	8,217.00	8,767.10	2,302.04	9,026.70	0.00	0.00	0.00
16,200.00	90.00	0.05	8,217.00	8,867.10	2,302.13	9,125.34	0.00	0.00	0.00
16,300.00	90.00	0.05	8,217.00	8,967.10	2,302.22	9,223.99	0.00	0.00	0.00
16,400.00	90.00	0.05	8,217.00	9,067.10	2,302.31	9,322.63	0.00	0.00	0.00
16,500.00	90.00	0.05	8,217.00	9,167.10	2,302.40	9,421.28	0.00	0.00	0.00
16,600.00	90.00	0.05	8,217.00	9,267.10	2,302.50	9,519.93	0.00	0.00	0.00
16,700.00	90.00	0.05	8,217.00	9,367.10	2,302.59	9,618.57	0.00	0.00	0.00
16,800.00	90.00	0.05	8,217.00	9,467.10	2,302.68	9,717.22	0.00	0.00	0.00
16,900.00	90.00	0.05	8,217.00	9,567.10	2,302.77	9,815.86	0.00	0.00	0.00
17,000.00	90.00	0.05	8,217.00	9,667.10	2,302.86	9,914.51	0.00	0.00	0.00
17,100.00	90.00	0.05	8,217.00	9,767.10	2,302.95	10,013.15	0.00	0.00	0.00
17,200.00	90.00	0.05	8,217.00	9,867.10	2,303.04	10,111.80	0.00	0.00	0.00
17,300.00	90.00	0.05	8,217.00	9,967.10	2,303.13	10,210.45	0.00	0.00	0.00
17,400.00	90.00	0.05	8,217.00	10,067.10	2,303.22	10,309.09	0.00	0.00	0.00
17,500.00	90.00	0.05	8,217.00	10,167.10	2,303.31	10,407.74	0.00	0.00	0.00
17,600.00	90.00	0.05	8,217.00	10,267.10	2,303.40	10,506.38	0.00	0.00	0.00
17,700.00	90.00	0.05	8,217.00	10,367.10	2,303.49	10,605.03	0.00	0.00	0.00
17,800.00	90.00	0.05	8,217.00	10,467.10	2,303.58	10,703.67	0.00	0.00	0.00
17,900.00	90.00	0.05	8,217.00	10,567.10	2,303.68	10,802.32	0.00	0.00	0.00
18,000.00	90.00	0.05	8,217.00	10,667.10	2,303.77	10,900.97	0.00	0.00	0.00
18,100.00	90.00	0.05	8,217.00	10,767.10	2,303.86	10,999.61	0.00	0.00	0.00
18,200.00	90.00	0.05	8,217.00	10,867.10	2,303.95	11,098.26	0.00	0.00	0.00
18,300.00	90.00	0.05	8,217.00	10,967.10	2,304.04	11,196.90	0.00	0.00	0.00
18,400.00	90.00	0.05	8,217.00	11,067.10	2,304.13	11,295.55	0.00	0.00	0.00
18,500.00	90.00	0.05	8,217.00	11,167.10	2,304.22	11,394.19	0.00	0.00	0.00
18,600.00	90.00	0.05	8,217.00	11,267.10	2,304.31	11,492.84	0.00	0.00	0.00
18,700.00	90.00	0.05	8,217.00	11,367.10	2,304.40	11,591.49	0.00	0.00	0.00
18,800.00	90.00	0.05	8,217.00	11,467.10	2,304.49	11,690.13	0.00	0.00	0.00
18,900.00	90.00	0.05	8,217.00	11,567.10	2,304.58	11,788.78	0.00	0.00	0.00
19,000.00	90.00	0.05	8,217.00	11,667.10	2,304.67	11,887.42	0.00	0.00	0.00
19,100.00	90.00	0.05	8,217.00	11,767.10	2,304.76	11,986.07	0.00	0.00	0.00
19,200.00	90.00	0.05	8,217.00	11,867.10	2,304.86	12,084.71	0.00	0.00	0.00

Database:	Local	Local Co-ordinate Reference:	Well MARBLE 6-65 24-12 9HN
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 9HN	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)	
19,300.00	90.00	0.05	8,217.00	11,967.10	2,304.95	12,183.36	0.00	0.00	0.00	
19,400.00	90.00	0.05	8,217.00	12,067.10	2,305.04	12,282.01	0.00	0.00	0.00	
19,500.00	90.00	0.05	8,217.00	12,167.10	2,305.13	12,380.65	0.00	0.00	0.00	
19,600.00	90.00	0.05	8,217.00	12,267.10	2,305.22	12,479.30	0.00	0.00	0.00	
19,700.00	90.00	0.05	8,217.00	12,367.10	2,305.31	12,577.94	0.00	0.00	0.00	
19,800.00	90.00	0.05	8,217.00	12,467.10	2,305.40	12,676.59	0.00	0.00	0.00	
19,900.00	90.00	0.05	8,217.00	12,567.10	2,305.49	12,775.23	0.00	0.00	0.00	
20,000.00	90.00	0.05	8,217.00	12,667.10	2,305.58	12,873.88	0.00	0.00	0.00	
20,100.00	90.00	0.05	8,217.00	12,767.10	2,305.67	12,972.53	0.00	0.00	0.00	
20,200.00	90.00	0.05	8,217.00	12,867.10	2,305.76	13,071.17	0.00	0.00	0.00	
20,300.00	90.00	0.05	8,217.00	12,967.10	2,305.85	13,169.82	0.00	0.00	0.00	
20,400.00	90.00	0.05	8,217.00	13,067.10	2,305.94	13,268.46	0.00	0.00	0.00	
20,500.00	90.00	0.05	8,217.00	13,167.10	2,306.04	13,367.11	0.00	0.00	0.00	
20,600.00	90.00	0.05	8,217.00	13,267.10	2,306.13	13,465.75	0.00	0.00	0.00	
20,700.00	90.00	0.05	8,217.00	13,367.10	2,306.22	13,564.40	0.00	0.00	0.00	
20,800.00	90.00	0.05	8,217.00	13,467.10	2,306.31	13,663.05	0.00	0.00	0.00	
20,900.00	90.00	0.05	8,217.00	13,567.09	2,306.40	13,761.69	0.00	0.00	0.00	
21,000.00	90.00	0.05	8,217.00	13,667.09	2,306.49	13,860.34	0.00	0.00	0.00	
21,078.01	90.00	0.05	8,217.00	13,745.10	2,306.56	13,937.29	0.00	0.00	0.00	
Hold: 90.00° Inc, 0.05° Azm - LTP-MARBLE 6-65 24-12 9HN										
21,100.00	90.00	0.05	8,217.00	13,767.09	2,306.58	13,958.98	0.00	0.00	0.00	
21,128.01	90.00	0.05	8,217.00	13,795.10	2,306.61	13,986.61	0.00	0.00	0.00	
TD @ 21128.01' MD/8217.00' TVD - BHL-MARBLE 6-65 24-12 9HN										

Design Targets										
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL-MARBLE 6-65 24	- plan hits target center	0.00	0.00	0.00	0.00	0.00	1,612,169.92	3,249,024.90	39.510862	-104.617360
KOP-MARBLE 6-65 2	- plan hits target center	0.00	0.00	7,644.04	1,141.42	2,295.12	1,613,311.34	3,251,320.02	39.513934	-104.609186
LTP-MARBLE 6-65 24	- plan hits target center	0.00	0.00	8,217.00	13,745.10	2,306.56	1,625,915.02	3,251,331.46	39.548534	-104.608708
BHL-MARBLE 6-65 24	- plan hits target center	0.00	0.00	8,217.00	13,795.10	2,306.61	1,625,965.02	3,251,331.51	39.548672	-104.608706
FTP-MARBLE 6-65 24	- plan hits target center	0.00	0.01	8,217.00	1,714.38	2,295.64	1,613,884.30	3,251,320.54	39.515507	-104.609165

Database:	Local	Local Co-ordinate Reference:	Well MARBLE 6-65 24-12 9HN
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 9HN	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				
1,660.27	1,612.00	Upper Arapahoe				
2,364.62	2,257.00	Laramie - Fox Hills				
2,550.26	2,427.00	Pierre Shale (Base of Fox Hills)				
6,033.78	5,617.00	Sussex Sandstone				
8,472.41	7,952.00	Sharon Springs Shale				
8,521.23	7,992.00	Niobrara				
8,533.92	8,002.00	Niobrara A				
8,712.60	8,122.00	Niobrara B Top				
8,877.40	8,192.00	Niobrara C 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	
1,484.44	1,450.98	107.49	216.13	Hold: 23.69° Inc, 63.56° Azm	
6,662.84	6,193.06	1,033.94	2,078.99	Drop: 2°/100' @ 6662.84' MD	
7,847.28	7,344.04	1,141.42	2,295.12	Hold: 0.00° Inc, 0.00° Azm	
8,147.28	7,644.04	1,141.42	2,295.12	KOP: 10°/100' @ 8147.28' MD	
9,047.28	8,217.00	1,714.38	2,295.64	LP: 9047.28' MD, 90.00° Inc, 0.05° Azm	
21,078.01	8,217.00	13,745.10	2,306.56	Hold: 90.00° Inc, 0.05° Azm	
21,128.01	8,217.00	13,795.10	2,306.61	TD @ 21128.01' MD/8217.00' TVD	