



GMT Exploration Company, LLC

Elbert County, CO (NAD 83)

Marble-Redstone Pad

MARBLE 6-65 24-12 10HN

Wellbore #1

Plan: Design #1

Standard Planning Report

24 May, 2019



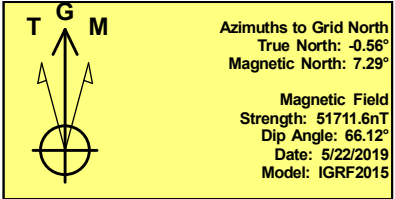
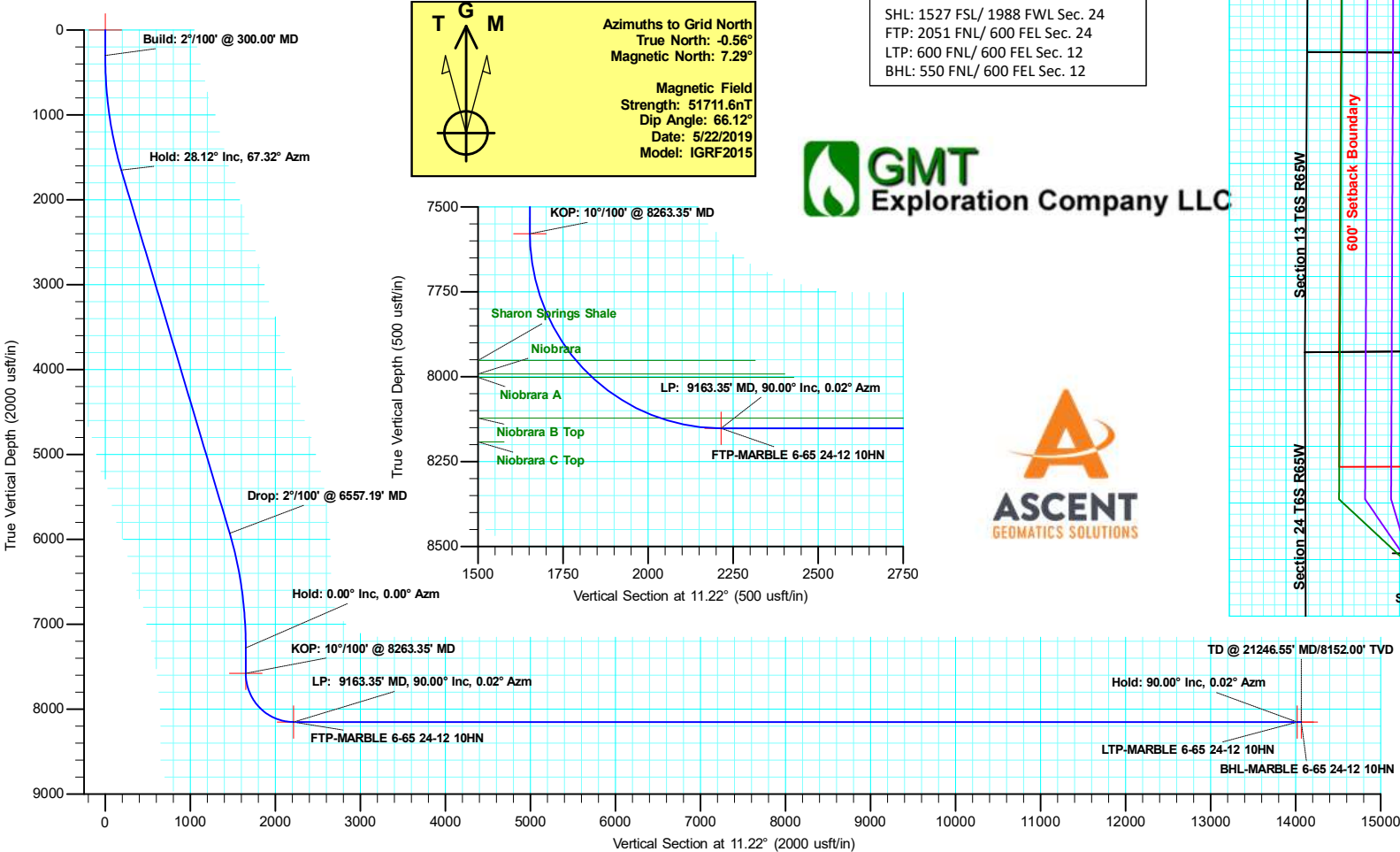
Project: Elbert County, CO (NAD 83)
Site: Marble-Redstone Pad
Well: MARBLE 6-65 24-12 10HN
Wellbore: Wellbore #1
Design: Design #1

GMT Exploration Company, LLC

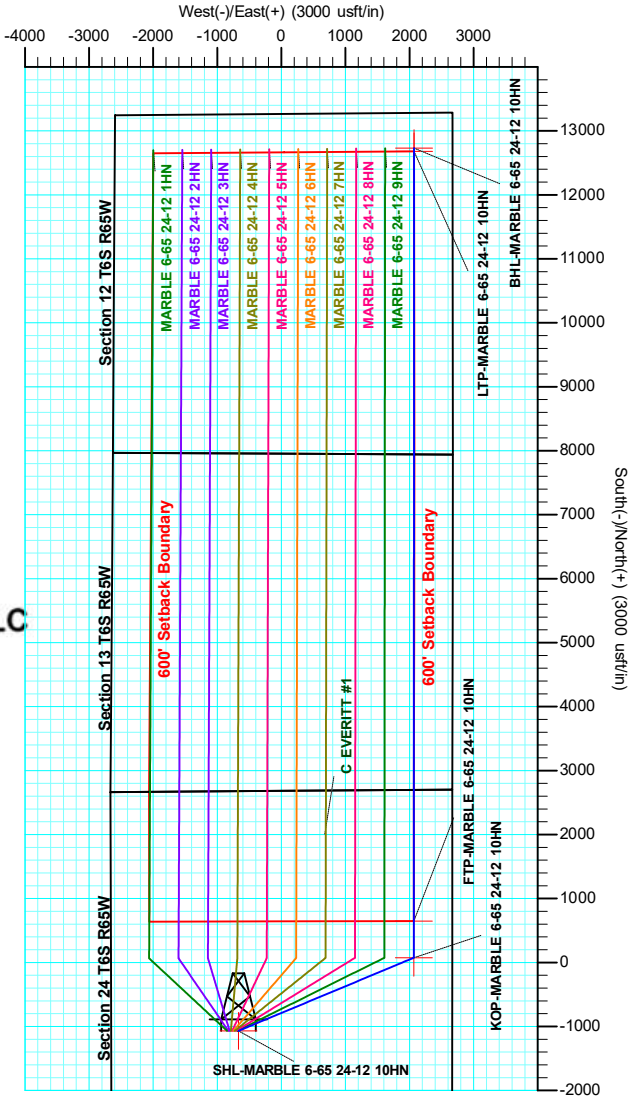
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Central Zone
System Datum: Mean Sea Level

WELL DETAILS: MARBLE 6-65 24-12 10HN						
+N/-S	+E/-W	Northing	Ground Level:	6277.00	Latitude	Longitude
-1067.41	-667.10	1612169.92	Easting	3249044.90	39.510861	-104.617289

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
0.00	0.00	0.00	0.00	-1067.41	-667.10	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	-1067.41	-667.10	0.00	0.00	0.00	
1706.16	28.12	67.32	1650.37	-937.00	-355.02	2.00	67.32	188.66	
6557.19	28.12	67.32	5928.67	-55.35	1754.80	0.00	0.00	1464.12	
7963.35	0.00	0.00	7279.04	75.05	2066.87	2.00	180.00	1652.78	
8263.35	0.00	0.00	7579.04	75.05	2066.87	0.00	0.00	1652.78	
9163.35	90.00	0.02	8152.00	648.01	2067.07	10.00	0.00	2214.82	FTP-MARBLE 6-65 24-12 10HN
21196.54	90.00	0.02	8152.00	12681.21	2071.18	0.00	0.00	14018.65	LTP-MARBLE 6-65 24-12 10HN
21246.55	90.00	0.02	8152.00	12731.21	2071.20	0.00	0.00	14067.70	BHL-MARBLE 6-65 24-12 10HN



SHL: 1527 FSL/ 1988 FWL Sec. 24
FTP: 2051 FNL/ 600 FEL Sec. 24
LTP: 600 FNL/ 600 FEL Sec. 12
BHL: 550 FNL/ 600 FEL Sec. 12



Database:	Local	Local Co-ordinate Reference:	Well MARBLE 6-65 24-12 10HN
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 10HN	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 10HN					
Well Position	+N/-S	-1,067.41 usft	Northing:	1,612,169.92 usft	Latitude:	39.510862
	+E/-W	-667.10 usft	Easting:	3,249,044.90 usft	Longitude:	-104.617289
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	51,711.61065574

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	11.22

Plan Survey Tool Program	Date	5/24/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	21,246.55	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	
1,706.16	28.12	67.32	1,650.37	130.41	312.08	2.00	2.00	0.00	67.32	
6,557.19	28.12	67.32	5,928.67	1,012.05	2,421.90	0.00	0.00	0.00	0.00	
7,963.35	0.00	0.00	7,279.04	1,142.46	2,733.97	2.00	-2.00	0.00	180.00	
8,263.35	0.00	0.00	7,579.04	1,142.46	2,733.97	0.00	0.00	0.00	0.00	
9,163.35	90.00	0.02	8,152.00	1,715.42	2,734.17	10.00	10.00	0.00	0.00	FTP-MARBLE 6-65
21,196.54	90.00	0.02	8,152.00	13,748.62	2,738.28	0.00	0.00	0.00	0.00	LTP-MARBLE 6-65
21,246.55	90.00	0.02	8,152.00	13,798.62	2,738.30	0.00	0.00	0.00	0.00	BHL-MARBLE 6-65

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Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	MARBLE 6-65 24-12 10HN	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 10HN									
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	67.32	399.98	0.67	1.61	0.97	2.00	2.00	0.00
500.00	4.00	67.32	499.84	2.69	6.44	3.89	2.00	2.00	0.00
600.00	6.00	67.32	599.45	6.05	14.48	8.75	2.00	2.00	0.00
700.00	8.00	67.32	698.70	10.75	25.72	15.55	2.00	2.00	0.00
800.00	10.00	67.32	797.47	16.78	40.16	24.28	2.00	2.00	0.00
900.00	12.00	67.32	895.62	24.14	57.76	34.92	2.00	2.00	0.00
1,000.00	14.00	67.32	993.06	32.81	78.52	47.47	2.00	2.00	0.00
1,100.00	16.00	67.32	1,089.64	42.79	102.40	61.90	2.00	2.00	0.00
1,200.00	18.00	67.32	1,185.27	54.06	129.37	78.21	2.00	2.00	0.00
1,300.00	20.00	67.32	1,279.82	66.61	159.41	96.37	2.00	2.00	0.00
1,400.00	22.00	67.32	1,373.17	80.43	192.47	116.36	2.00	2.00	0.00
1,500.00	24.00	67.32	1,465.21	95.49	228.52	138.15	2.00	2.00	0.00
1,600.00	26.00	67.32	1,555.84	111.79	267.52	161.72	2.00	2.00	0.00
1,706.16	28.12	67.32	1,650.37	130.41	312.08	188.66	2.00	2.00	0.00
Hold: 28.12° Inc, 67.32° Azm									
1,800.00	28.12	67.32	1,733.13	147.46	352.89	213.33	0.00	0.00	0.00
1,900.00	28.12	67.32	1,821.33	165.64	396.38	239.63	0.00	0.00	0.00
2,000.00	28.12	67.32	1,909.52	183.81	439.87	265.92	0.00	0.00	0.00
2,100.00	28.12	67.32	1,997.71	201.99	483.37	292.21	0.00	0.00	0.00
2,200.00	28.12	67.32	2,085.91	220.16	526.86	318.50	0.00	0.00	0.00
2,300.00	28.12	67.32	2,174.10	238.34	570.35	344.80	0.00	0.00	0.00
2,400.00	28.12	67.32	2,262.30	256.51	613.84	371.09	0.00	0.00	0.00
2,500.00	28.12	67.32	2,350.49	274.68	657.33	397.38	0.00	0.00	0.00
2,600.00	28.12	67.32	2,438.68	292.86	700.83	423.67	0.00	0.00	0.00
2,700.00	28.12	67.32	2,526.88	311.03	744.32	449.97	0.00	0.00	0.00
2,800.00	28.12	67.32	2,615.07	329.21	787.81	476.26	0.00	0.00	0.00
2,900.00	28.12	67.32	2,703.26	347.38	831.30	502.55	0.00	0.00	0.00
3,000.00	28.12	67.32	2,791.46	365.56	874.80	528.84	0.00	0.00	0.00
3,100.00	28.12	67.32	2,879.65	383.73	918.29	555.14	0.00	0.00	0.00
3,200.00	28.12	67.32	2,967.84	401.91	961.78	581.43	0.00	0.00	0.00
3,300.00	28.12	67.32	3,056.04	420.08	1,005.27	607.72	0.00	0.00	0.00
3,400.00	28.12	67.32	3,144.23	438.25	1,048.76	634.01	0.00	0.00	0.00
3,500.00	28.12	67.32	3,232.43	456.43	1,092.26	660.31	0.00	0.00	0.00
3,600.00	28.12	67.32	3,320.62	474.60	1,135.75	686.60	0.00	0.00	0.00
3,700.00	28.12	67.32	3,408.81	492.78	1,179.24	712.89	0.00	0.00	0.00
3,800.00	28.12	67.32	3,497.01	510.95	1,222.73	739.19	0.00	0.00	0.00
3,900.00	28.12	67.32	3,585.20	529.13	1,266.23	765.48	0.00	0.00	0.00
4,000.00	28.12	67.32	3,673.39	547.30	1,309.72	791.77	0.00	0.00	0.00
4,100.00	28.12	67.32	3,761.59	565.47	1,353.21	818.06	0.00	0.00	0.00
4,200.00	28.12	67.32	3,849.78	583.65	1,396.70	844.36	0.00	0.00	0.00
4,300.00	28.12	67.32	3,937.98	601.82	1,440.19	870.65	0.00	0.00	0.00
4,400.00	28.12	67.32	4,026.17	620.00	1,483.69	896.94	0.00	0.00	0.00
4,500.00	28.12	67.32	4,114.36	638.17	1,527.18	923.23	0.00	0.00	0.00
4,600.00	28.12	67.32	4,202.56	656.35	1,570.67	949.53	0.00	0.00	0.00
4,700.00	28.12	67.32	4,290.75	674.52	1,614.16	975.82	0.00	0.00	0.00
4,800.00	28.12	67.32	4,378.94	692.70	1,657.66	1,002.11	0.00	0.00	0.00
4,900.00	28.12	67.32	4,467.14	710.87	1,701.15	1,028.40	0.00	0.00	0.00

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Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	MARBLE 6-65 24-12 10HN	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	28.12	67.32	4,555.33	729.04	1,744.64	1,054.70	0.00	0.00	0.00	
5,100.00	28.12	67.32	4,643.52	747.22	1,788.13	1,080.99	0.00	0.00	0.00	
5,200.00	28.12	67.32	4,731.72	765.39	1,831.62	1,107.28	0.00	0.00	0.00	
5,300.00	28.12	67.32	4,819.91	783.57	1,875.12	1,133.57	0.00	0.00	0.00	
5,400.00	28.12	67.32	4,908.11	801.74	1,918.61	1,159.87	0.00	0.00	0.00	
5,500.00	28.12	67.32	4,996.30	819.92	1,962.10	1,186.16	0.00	0.00	0.00	
5,600.00	28.12	67.32	5,084.49	838.09	2,005.59	1,212.45	0.00	0.00	0.00	
5,700.00	28.12	67.32	5,172.69	856.26	2,049.09	1,238.74	0.00	0.00	0.00	
5,800.00	28.12	67.32	5,260.88	874.44	2,092.58	1,265.04	0.00	0.00	0.00	
5,900.00	28.12	67.32	5,349.07	892.61	2,136.07	1,291.33	0.00	0.00	0.00	
6,000.00	28.12	67.32	5,437.27	910.79	2,179.56	1,317.62	0.00	0.00	0.00	
6,100.00	28.12	67.32	5,525.46	928.96	2,223.05	1,343.91	0.00	0.00	0.00	
6,200.00	28.12	67.32	5,613.65	947.14	2,266.55	1,370.21	0.00	0.00	0.00	
6,300.00	28.12	67.32	5,701.85	965.31	2,310.04	1,396.50	0.00	0.00	0.00	
6,400.00	28.12	67.32	5,790.04	983.49	2,353.53	1,422.79	0.00	0.00	0.00	
6,500.00	28.12	67.32	5,878.24	1,001.66	2,397.02	1,449.08	0.00	0.00	0.00	
6,557.19	28.12	67.32	5,928.67	1,012.05	2,421.90	1,464.12	0.00	0.00	0.00	
Drop: 2°/100' @ 6557.19' MD										
6,600.00	27.27	67.32	5,966.58	1,019.72	2,440.25	1,475.22	2.00	-2.00	0.00	
6,700.00	25.27	67.32	6,056.25	1,036.79	2,481.09	1,499.90	2.00	-2.00	0.00	
6,800.00	23.27	67.32	6,147.41	1,052.63	2,519.00	1,522.83	2.00	-2.00	0.00	
6,900.00	21.27	67.32	6,239.95	1,067.24	2,553.97	1,543.96	2.00	-2.00	0.00	
7,000.00	19.27	67.32	6,333.75	1,080.60	2,585.92	1,563.28	2.00	-2.00	0.00	
7,100.00	17.27	67.32	6,428.71	1,092.68	2,614.84	1,580.76	2.00	-2.00	0.00	
7,200.00	15.27	67.32	6,524.70	1,103.48	2,640.69	1,596.39	2.00	-2.00	0.00	
7,300.00	13.27	67.32	6,621.61	1,112.98	2,663.43	1,610.13	2.00	-2.00	0.00	
7,400.00	11.27	67.32	6,719.32	1,121.17	2,683.03	1,621.98	2.00	-2.00	0.00	
7,500.00	9.27	67.32	6,817.71	1,128.05	2,699.47	1,631.93	2.00	-2.00	0.00	
7,600.00	7.27	67.32	6,916.67	1,133.59	2,712.74	1,639.95	2.00	-2.00	0.00	
7,700.00	5.27	67.32	7,016.07	1,137.80	2,722.81	1,646.03	2.00	-2.00	0.00	
7,800.00	3.27	67.32	7,115.79	1,140.67	2,729.67	1,650.18	2.00	-2.00	0.00	
7,900.00	1.27	67.32	7,215.70	1,142.19	2,733.32	1,652.39	2.00	-2.00	0.00	
7,963.35	0.00	0.00	7,279.04	1,142.46	2,733.97	1,652.78	2.00	-2.00	0.00	
Hold: 0.00° Inc, 0.00° Azm										
8,000.00	0.00	0.00	7,315.70	1,142.46	2,733.97	1,652.78	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,415.70	1,142.46	2,733.97	1,652.78	0.00	0.00	0.00	
8,200.00	0.00	0.00	7,515.70	1,142.46	2,733.97	1,652.78	0.00	0.00	0.00	
8,263.35	0.00	0.00	7,579.04	1,142.46	2,733.97	1,652.78	0.00	0.00	0.00	
KOP: 10°/100' @ 8263.35' MD - KOP-MARBLE 6-65 24-12 10HN										
8,300.00	3.67	0.02	7,615.67	1,143.63	2,733.97	1,653.93	10.00	10.00	0.00	
8,350.00	8.67	0.02	7,665.37	1,149.00	2,733.97	1,659.20	10.00	10.00	0.00	
8,400.00	13.67	0.02	7,714.41	1,158.68	2,733.98	1,668.69	10.00	10.00	0.00	
8,450.00	18.67	0.02	7,762.41	1,172.60	2,733.98	1,682.34	10.00	10.00	0.00	
8,500.00	23.67	0.02	7,809.03	1,190.65	2,733.99	1,700.05	10.00	10.00	0.00	
8,550.00	28.67	0.02	7,853.89	1,212.69	2,733.99	1,721.67	10.00	10.00	0.00	
8,600.00	33.67	0.02	7,896.66	1,238.55	2,734.00	1,747.04	10.00	10.00	0.00	
8,650.00	38.67	0.02	7,937.01	1,268.05	2,734.01	1,775.98	10.00	10.00	0.00	
8,700.00	43.67	0.02	7,974.64	1,300.95	2,734.02	1,808.25	10.00	10.00	0.00	
8,750.00	48.67	0.02	8,009.26	1,337.01	2,734.04	1,843.62	10.00	10.00	0.00	
8,800.00	53.67	0.02	8,040.60	1,375.94	2,734.05	1,881.81	10.00	10.00	0.00	
8,850.00	58.67	0.02	8,068.43	1,417.46	2,734.06	1,922.54	10.00	10.00	0.00	
8,900.00	63.67	0.02	8,092.54	1,461.25	2,734.08	1,965.49	10.00	10.00	0.00	
8,950.00	68.67	0.02	8,112.74	1,506.97	2,734.10	2,010.34	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)
9,000.00	73.67	0.02	8,128.87	1,554.28	2,734.11	2,056.75	10.00	10.00	0.00
9,050.00	78.67	0.02	8,140.83	1,602.81	2,734.13	2,104.36	10.00	10.00	0.00
9,100.00	83.67	0.02	8,148.50	1,652.20	2,734.14	2,152.81	10.00	10.00	0.00
9,150.00	88.67	0.02	8,151.84	1,702.08	2,734.16	2,201.73	10.00	10.00	0.00
9,163.35	90.00	0.02	8,152.00	1,715.42	2,734.17	2,214.82	10.00	10.00	0.00
LP: 9163.35' MD, 90.00° Inc, 0.02° Azm - FTP-MARBLE 6-65 24-12 10HN									
9,200.00	90.00	0.02	8,152.00	1,752.07	2,734.18	2,250.77	0.00	0.00	0.00
9,300.00	90.00	0.02	8,152.00	1,852.07	2,734.21	2,348.87	0.00	0.00	0.00
9,400.00	90.00	0.02	8,152.00	1,952.07	2,734.25	2,446.96	0.00	0.00	0.00
9,500.00	90.00	0.02	8,152.00	2,052.07	2,734.28	2,545.05	0.00	0.00	0.00
9,600.00	90.00	0.02	8,152.00	2,152.07	2,734.32	2,643.15	0.00	0.00	0.00
9,700.00	90.00	0.02	8,152.00	2,252.07	2,734.35	2,741.24	0.00	0.00	0.00
9,800.00	90.00	0.02	8,152.00	2,352.07	2,734.38	2,839.34	0.00	0.00	0.00
9,900.00	90.00	0.02	8,152.00	2,452.07	2,734.42	2,937.43	0.00	0.00	0.00
10,000.00	90.00	0.02	8,152.00	2,552.07	2,734.45	3,035.52	0.00	0.00	0.00
10,100.00	90.00	0.02	8,152.00	2,652.07	2,734.49	3,133.62	0.00	0.00	0.00
10,200.00	90.00	0.02	8,152.00	2,752.07	2,734.52	3,231.71	0.00	0.00	0.00
10,300.00	90.00	0.02	8,152.00	2,852.07	2,734.55	3,329.81	0.00	0.00	0.00
10,400.00	90.00	0.02	8,152.00	2,952.07	2,734.59	3,427.90	0.00	0.00	0.00
10,500.00	90.00	0.02	8,152.00	3,052.07	2,734.62	3,525.99	0.00	0.00	0.00
10,600.00	90.00	0.02	8,152.00	3,152.07	2,734.66	3,624.09	0.00	0.00	0.00
10,700.00	90.00	0.02	8,152.00	3,252.07	2,734.69	3,722.18	0.00	0.00	0.00
10,800.00	90.00	0.02	8,152.00	3,352.07	2,734.73	3,820.28	0.00	0.00	0.00
10,900.00	90.00	0.02	8,152.00	3,452.07	2,734.76	3,918.37	0.00	0.00	0.00
11,000.00	90.00	0.02	8,152.00	3,552.07	2,734.79	4,016.46	0.00	0.00	0.00
11,100.00	90.00	0.02	8,152.00	3,652.07	2,734.83	4,114.56	0.00	0.00	0.00
11,200.00	90.00	0.02	8,152.00	3,752.07	2,734.86	4,212.65	0.00	0.00	0.00
11,300.00	90.00	0.02	8,152.00	3,852.07	2,734.90	4,310.75	0.00	0.00	0.00
11,400.00	90.00	0.02	8,152.00	3,952.07	2,734.93	4,408.84	0.00	0.00	0.00
11,500.00	90.00	0.02	8,152.00	4,052.07	2,734.96	4,506.93	0.00	0.00	0.00
11,600.00	90.00	0.02	8,152.00	4,152.07	2,735.00	4,605.03	0.00	0.00	0.00
11,700.00	90.00	0.02	8,152.00	4,252.07	2,735.03	4,703.12	0.00	0.00	0.00
11,800.00	90.00	0.02	8,152.00	4,352.07	2,735.07	4,801.21	0.00	0.00	0.00
11,900.00	90.00	0.02	8,152.00	4,452.07	2,735.10	4,899.31	0.00	0.00	0.00
12,000.00	90.00	0.02	8,152.00	4,552.07	2,735.14	4,997.40	0.00	0.00	0.00
12,100.00	90.00	0.02	8,152.00	4,652.07	2,735.17	5,095.50	0.00	0.00	0.00
12,200.00	90.00	0.02	8,152.00	4,752.07	2,735.20	5,193.59	0.00	0.00	0.00
12,300.00	90.00	0.02	8,152.00	4,852.07	2,735.24	5,291.68	0.00	0.00	0.00
12,400.00	90.00	0.02	8,152.00	4,952.07	2,735.27	5,389.78	0.00	0.00	0.00
12,500.00	90.00	0.02	8,152.00	5,052.07	2,735.31	5,487.87	0.00	0.00	0.00
12,600.00	90.00	0.02	8,152.00	5,152.07	2,735.34	5,585.97	0.00	0.00	0.00
12,700.00	90.00	0.02	8,152.00	5,252.07	2,735.37	5,684.06	0.00	0.00	0.00
12,800.00	90.00	0.02	8,152.00	5,352.07	2,735.41	5,782.15	0.00	0.00	0.00
12,900.00	90.00	0.02	8,152.00	5,452.07	2,735.44	5,880.25	0.00	0.00	0.00
13,000.00	90.00	0.02	8,152.00	5,552.07	2,735.48	5,978.34	0.00	0.00	0.00
13,100.00	90.00	0.02	8,152.00	5,652.07	2,735.51	6,076.44	0.00	0.00	0.00
13,200.00	90.00	0.02	8,152.00	5,752.07	2,735.55	6,174.53	0.00	0.00	0.00
13,300.00	90.00	0.02	8,152.00	5,852.07	2,735.58	6,272.62	0.00	0.00	0.00
13,400.00	90.00	0.02	8,152.00	5,952.07	2,735.61	6,370.72	0.00	0.00	0.00
13,500.00	90.00	0.02	8,152.00	6,052.07	2,735.65	6,468.81	0.00	0.00	0.00
13,600.00	90.00	0.02	8,152.00	6,152.07	2,735.68	6,566.90	0.00	0.00	0.00
13,700.00	90.00	0.02	8,152.00	6,252.07	2,735.72	6,665.00	0.00	0.00	0.00
13,800.00	90.00	0.02	8,152.00	6,352.07	2,735.75	6,763.09	0.00	0.00	0.00
13,900.00	90.00	0.02	8,152.00	6,452.07	2,735.79	6,861.19	0.00	0.00	0.00

Database:	Local	Local Co-ordinate Reference:	Well MARBLE 6-65 24-12 10HN
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 10HN	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)
14,000.00	90.00	0.02	8,152.00	6,552.07	2,735.82	6,959.28	0.00	0.00	0.00
14,100.00	90.00	0.02	8,152.00	6,652.07	2,735.85	7,057.37	0.00	0.00	0.00
14,200.00	90.00	0.02	8,152.00	6,752.07	2,735.89	7,155.47	0.00	0.00	0.00
14,300.00	90.00	0.02	8,152.00	6,852.07	2,735.92	7,253.56	0.00	0.00	0.00
14,400.00	90.00	0.02	8,152.00	6,952.07	2,735.96	7,351.66	0.00	0.00	0.00
14,500.00	90.00	0.02	8,152.00	7,052.07	2,735.99	7,449.75	0.00	0.00	0.00
14,600.00	90.00	0.02	8,152.00	7,152.07	2,736.02	7,547.84	0.00	0.00	0.00
14,700.00	90.00	0.02	8,152.00	7,252.07	2,736.06	7,645.94	0.00	0.00	0.00
14,800.00	90.00	0.02	8,152.00	7,352.07	2,736.09	7,744.03	0.00	0.00	0.00
14,900.00	90.00	0.02	8,152.00	7,452.07	2,736.13	7,842.13	0.00	0.00	0.00
15,000.00	90.00	0.02	8,152.00	7,552.07	2,736.16	7,940.22	0.00	0.00	0.00
15,100.00	90.00	0.02	8,152.00	7,652.07	2,736.20	8,038.31	0.00	0.00	0.00
15,200.00	90.00	0.02	8,152.00	7,752.07	2,736.23	8,136.41	0.00	0.00	0.00
15,300.00	90.00	0.02	8,152.00	7,852.07	2,736.26	8,234.50	0.00	0.00	0.00
15,400.00	90.00	0.02	8,152.00	7,952.07	2,736.30	8,332.59	0.00	0.00	0.00
15,500.00	90.00	0.02	8,152.00	8,052.07	2,736.33	8,430.69	0.00	0.00	0.00
15,600.00	90.00	0.02	8,152.00	8,152.07	2,736.37	8,528.78	0.00	0.00	0.00
15,700.00	90.00	0.02	8,152.00	8,252.07	2,736.40	8,626.88	0.00	0.00	0.00
15,800.00	90.00	0.02	8,152.00	8,352.07	2,736.43	8,724.97	0.00	0.00	0.00
15,900.00	90.00	0.02	8,152.00	8,452.07	2,736.47	8,823.06	0.00	0.00	0.00
16,000.00	90.00	0.02	8,152.00	8,552.07	2,736.50	8,921.16	0.00	0.00	0.00
16,100.00	90.00	0.02	8,152.00	8,652.07	2,736.54	9,019.25	0.00	0.00	0.00
16,200.00	90.00	0.02	8,152.00	8,752.07	2,736.57	9,117.35	0.00	0.00	0.00
16,300.00	90.00	0.02	8,152.00	8,852.07	2,736.61	9,215.44	0.00	0.00	0.00
16,400.00	90.00	0.02	8,152.00	8,952.07	2,736.64	9,313.53	0.00	0.00	0.00
16,500.00	90.00	0.02	8,152.00	9,052.07	2,736.67	9,411.63	0.00	0.00	0.00
16,600.00	90.00	0.02	8,152.00	9,152.07	2,736.71	9,509.72	0.00	0.00	0.00
16,700.00	90.00	0.02	8,152.00	9,252.07	2,736.74	9,607.82	0.00	0.00	0.00
16,800.00	90.00	0.02	8,152.00	9,352.07	2,736.78	9,705.91	0.00	0.00	0.00
16,900.00	90.00	0.02	8,152.00	9,452.07	2,736.81	9,804.00	0.00	0.00	0.00
17,000.00	90.00	0.02	8,152.00	9,552.07	2,736.84	9,902.10	0.00	0.00	0.00
17,100.00	90.00	0.02	8,152.00	9,652.07	2,736.88	10,000.19	0.00	0.00	0.00
17,200.00	90.00	0.02	8,152.00	9,752.07	2,736.91	10,098.29	0.00	0.00	0.00
17,300.00	90.00	0.02	8,152.00	9,852.07	2,736.95	10,196.38	0.00	0.00	0.00
17,400.00	90.00	0.02	8,152.00	9,952.07	2,736.98	10,294.47	0.00	0.00	0.00
17,500.00	90.00	0.02	8,152.00	10,052.07	2,737.02	10,392.57	0.00	0.00	0.00
17,600.00	90.00	0.02	8,152.00	10,152.07	2,737.05	10,490.66	0.00	0.00	0.00
17,700.00	90.00	0.02	8,152.00	10,252.07	2,737.08	10,588.75	0.00	0.00	0.00
17,800.00	90.00	0.02	8,152.00	10,352.07	2,737.12	10,686.85	0.00	0.00	0.00
17,900.00	90.00	0.02	8,152.00	10,452.07	2,737.15	10,784.94	0.00	0.00	0.00
18,000.00	90.00	0.02	8,152.00	10,552.07	2,737.19	10,883.04	0.00	0.00	0.00
18,100.00	90.00	0.02	8,152.00	10,652.07	2,737.22	10,981.13	0.00	0.00	0.00
18,200.00	90.00	0.02	8,152.00	10,752.07	2,737.25	11,079.22	0.00	0.00	0.00
18,300.00	90.00	0.02	8,152.00	10,852.07	2,737.29	11,177.32	0.00	0.00	0.00
18,400.00	90.00	0.02	8,152.00	10,952.07	2,737.32	11,275.41	0.00	0.00	0.00
18,500.00	90.00	0.02	8,152.00	11,052.07	2,737.36	11,373.51	0.00	0.00	0.00
18,600.00	90.00	0.02	8,152.00	11,152.07	2,737.39	11,471.60	0.00	0.00	0.00
18,700.00	90.00	0.02	8,152.00	11,252.07	2,737.43	11,569.69	0.00	0.00	0.00
18,800.00	90.00	0.02	8,152.00	11,352.07	2,737.46	11,667.79	0.00	0.00	0.00
18,900.00	90.00	0.02	8,152.00	11,452.07	2,737.49	11,765.88	0.00	0.00	0.00
19,000.00	90.00	0.02	8,152.00	11,552.07	2,737.53	11,863.98	0.00	0.00	0.00
19,100.00	90.00	0.02	8,152.00	11,652.07	2,737.56	11,962.07	0.00	0.00	0.00
19,200.00	90.00	0.02	8,152.00	11,752.07	2,737.60	12,060.16	0.00	0.00	0.00
19,300.00	90.00	0.02	8,152.00	11,852.07	2,737.63	12,158.26	0.00	0.00	0.00

Database:	Local	Local Co-ordinate Reference:	Well MARBLE 6-65 24-12 10HN
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 10HN	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)	
19,400.00	90.00	0.02	8,152.00	11,952.07	2,737.66	12,256.35	0.00	0.00	0.00	
19,500.00	90.00	0.02	8,152.00	12,052.07	2,737.70	12,354.44	0.00	0.00	0.00	
19,600.00	90.00	0.02	8,152.00	12,152.07	2,737.73	12,452.54	0.00	0.00	0.00	
19,700.00	90.00	0.02	8,152.00	12,252.07	2,737.77	12,550.63	0.00	0.00	0.00	
19,800.00	90.00	0.02	8,152.00	12,352.07	2,737.80	12,648.73	0.00	0.00	0.00	
19,900.00	90.00	0.02	8,152.00	12,452.07	2,737.84	12,746.82	0.00	0.00	0.00	
20,000.00	90.00	0.02	8,152.00	12,552.07	2,737.87	12,844.91	0.00	0.00	0.00	
20,100.00	90.00	0.02	8,152.00	12,652.07	2,737.90	12,943.01	0.00	0.00	0.00	
20,200.00	90.00	0.02	8,152.00	12,752.07	2,737.94	13,041.10	0.00	0.00	0.00	
20,300.00	90.00	0.02	8,152.00	12,852.07	2,737.97	13,139.20	0.00	0.00	0.00	
20,400.00	90.00	0.02	8,152.00	12,952.07	2,738.01	13,237.29	0.00	0.00	0.00	
20,500.00	90.00	0.02	8,152.00	13,052.07	2,738.04	13,335.38	0.00	0.00	0.00	
20,600.00	90.00	0.02	8,152.00	13,152.07	2,738.07	13,433.48	0.00	0.00	0.00	
20,700.00	90.00	0.02	8,152.00	13,252.07	2,738.11	13,531.57	0.00	0.00	0.00	
20,800.00	90.00	0.02	8,152.00	13,352.07	2,738.14	13,629.67	0.00	0.00	0.00	
20,900.00	90.00	0.02	8,152.00	13,452.07	2,738.18	13,727.76	0.00	0.00	0.00	
21,000.00	90.00	0.02	8,152.00	13,552.07	2,738.21	13,825.85	0.00	0.00	0.00	
21,100.00	90.00	0.02	8,152.00	13,652.07	2,738.25	13,923.95	0.00	0.00	0.00	
21,196.54	90.00	0.02	8,152.00	13,748.62	2,738.28	14,018.65	0.00	0.00	0.00	
Hold: 90.00° Inc, 0.02° Azm - LTP-MARBLE 6-65 24-12 10HN										
21,200.00	90.00	0.02	8,152.00	13,752.07	2,738.28	14,022.04	0.00	0.00	0.00	
21,246.55	90.00	0.02	8,152.00	13,798.62	2,738.30	14,067.70	0.00	0.00	0.00	
TD @ 21246.55' MD/8152.00' TVD - BHL-MARBLE 6-65 24-12 10HN										

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	
- Shape										
SHL-MARBLE 6-65 24	0.00	0.00	0.00	0.00	0.00	1,612,169.92	3,249,044.90	39.510862	-104.617289	
- plan hits target center										
- Point										
KOP-MARBLE 6-65 2	0.00	0.00	7,579.04	1,142.46	2,733.97	1,613,312.38	3,251,778.87	39.513925	-104.607560	
- plan hits target center										
- Point										
LTP-MARBLE 6-65 24	0.00	0.00	8,152.00	13,748.62	2,738.28	1,625,918.53	3,251,783.18	39.548532	-104.607106	
- plan hits target center										
- Point										
FTP-MARBLE 6-65 24	0.00	0.00	8,152.00	1,715.42	2,734.17	1,613,885.34	3,251,779.07	39.515498	-104.607539	
- plan hits target center										
- Point										
BHL-MARBLE 6-65 24	0.00	0.00	8,152.00	13,798.62	2,738.30	1,625,968.54	3,251,783.20	39.548669	-104.607104	
- plan hits target center										
- Point										

Database:	Local	Local Co-ordinate Reference:	Well MARBLE 6-65 24-12 10HN
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 10HN	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				
1,662.82	1,612.00	Upper Arapahoe				
2,394.00	2,257.00	Laramie - Fox Hills				
2,586.75	2,427.00	Pierre Shale (Base of Fox Hills)				
6,203.79	5,617.00	Sussex Sandstone				
8,669.47	7,952.00	Sharon Springs Shale				
8,724.51	7,992.00	Niobrara				
8,739.13	8,002.00	Niobrara A				
8,977.12	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	
1,706.16	1,650.37	130.41	312.08	Hold: 28.12° Inc, 67.32° Azm	
6,557.19	5,928.67	1,012.05	2,421.90	Drop: 2°/100' @ 6557.19' MD	
7,963.35	7,279.04	1,142.46	2,733.97	Hold: 0.00° Inc, 0.00° Azm	
8,263.35	7,579.04	1,142.46	2,733.97	KOP: 10°/100' @ 8263.35' MD	
9,163.35	8,152.00	1,715.42	2,734.17	LP: 9163.35' MD, 90.00° Inc, 0.02° Azm	
21,196.54	8,152.00	13,748.62	2,738.28	Hold: 90.00° Inc, 0.02° Azm	
21,246.55	8,152.00	13,798.62	2,738.30	TD @ 21246.55' MD/8152.00' TVD	