



GMT Exploration Company, LLC

Elbert County, CO (NAD 83)

Marble-Redstone Pad

REDSTONE 6-65 24-36 8HN

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 8HN
 Wellbore: Wellbore #1
 Design: Design #1

GMT Exploration Company, LLC

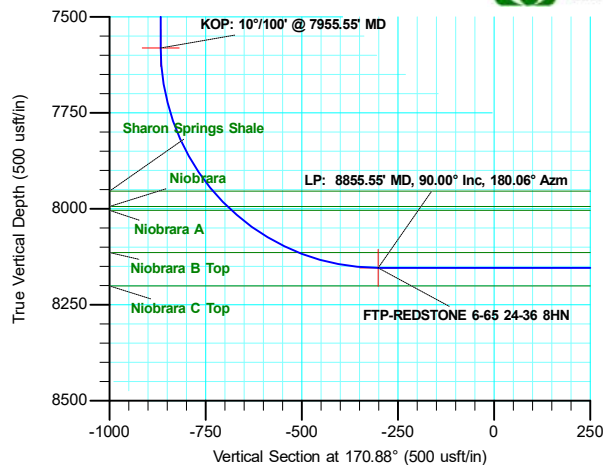
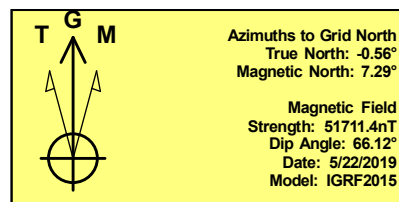
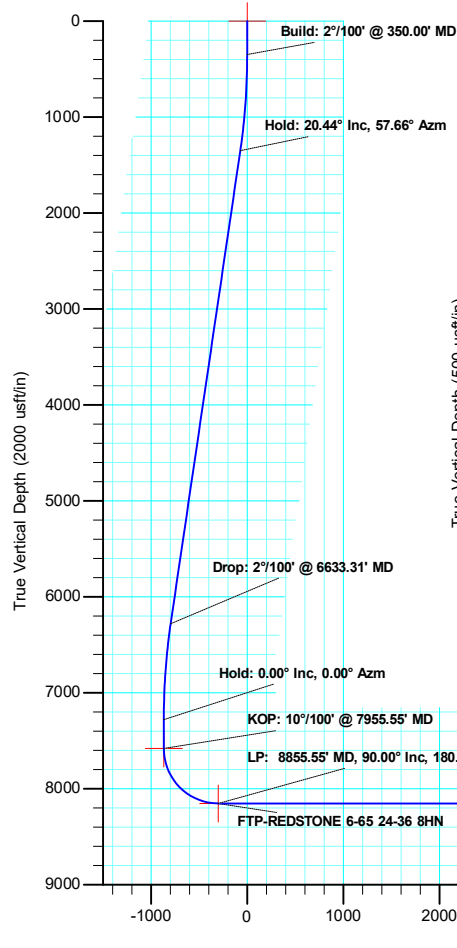
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Central Zone
 System Datum: Mean Sea Level

WELL DETAILS: REDSTONE 6-65 24-36 8HN

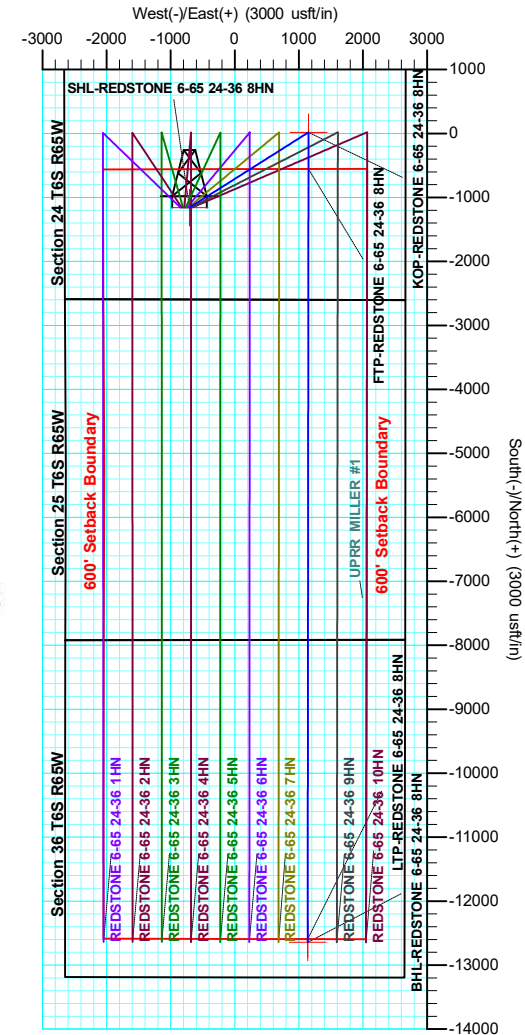
+N/-S	+E/-W	Northing	Ground Level: Easting	6279.00 Latitude	Longitude
-1157.41	-707.10	1612079.92	3249004.90	39.510615	-104.617434

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
0.00	0.00	0.00	0.00	-1157.41	-707.10	0.00	0.00	0.00	
350.00	0.00	0.00	350.00	-1157.41	-707.10	0.00	0.00	0.00	
1372.24	20.44	57.66	1350.68	-1060.86	-554.64	2.00	57.66	-71.15	
6633.31	20.44	57.66	6280.36	-77.66	997.94	0.00	0.00	-795.69	
7655.55	0.00	0.00	7281.04	18.89	1150.39	2.00	180.00	-866.84	
7955.55	0.00	0.00	7581.04	18.89	1150.39	0.00	0.00	-866.84	
8855.55	90.00	180.06	8154.00	-554.07	1149.81	10.00	0.00	-301.23	FTP-REDSTONE 6-65 24-36 8HN
20894.19	90.00	180.06	8154.00	-12592.71	1137.69	0.00	0.00	11583.15	LTP-REDSTONE 6-65 24-36 8HN
20944.19	90.00	180.06	8154.00	-12642.71	1137.64	0.00	0.00	11632.50	BHL-REDSTONE 6-65 24-36 8HN



SHL: 1437 FSL/ 1948 FWL Sec. 24
 FTP: 2046 FSL/ 1516 FEL Sec. 24
 LTP: 600 FSL/ 1510 FEL Sec. 36
 BHL: 550 FSL/ 1510 FEL Sec. 36



Database:	Local	Local Co-ordinate Reference:	Well REDSTONE 6-65 24-36 8HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6299.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6299.00usft
Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	REDSTONE 6-65 24-36 8HN	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 8HN				
Well Position	+N/-S	-1,157.41 usft	Northing:	1,612,079.92 usft	Latitude:	39.510616
	+E/-W	-707.10 usft	Easting:	3,249,004.90 usft	Longitude:	-104.617434
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	6,279.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/22/2019	7.85	66.12	51,711.44966859

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	170.88

Plan Survey Tool Program	Date	5/24/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	20,944.19	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	
1,372.24	20.44	57.66	1,350.68	96.55	152.46	2.00	2.00	0.00	57.66	
6,633.31	20.44	57.66	6,280.36	1,079.75	1,705.03	0.00	0.00	0.00	0.00	
7,655.55	0.00	0.00	7,281.04	1,176.30	1,857.49	2.00	-2.00	0.00	180.00	
7,955.55	0.00	0.00	7,581.04	1,176.30	1,857.49	0.00	0.00	0.00	0.00	
8,855.55	90.00	180.06	8,154.00	603.34	1,856.91	10.00	10.00	0.00	0.00	FTP-REDSTONE 6
20,894.19	90.00	180.06	8,154.00	-11,435.30	1,844.79	0.00	0.00	0.00	0.00	LTP-REDSTONE 6-
20,944.19	90.00	180.06	8,154.00	-11,485.30	1,844.73	0.00	0.00	0.00	0.00	BHL-REDSTONE 6

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Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	REDSTONE 6-65 24-36 8HN	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 8HN									
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	57.66	400.00	0.23	0.37	-0.17	2.00	2.00	0.00
500.00	3.00	57.66	499.93	2.10	3.32	-1.55	2.00	2.00	0.00
600.00	5.00	57.66	599.68	5.83	9.21	-4.30	2.00	2.00	0.00
700.00	7.00	57.66	699.13	11.42	18.04	-8.42	2.00	2.00	0.00
800.00	9.00	57.66	798.15	18.87	29.80	-13.91	2.00	2.00	0.00
900.00	11.00	57.66	896.63	28.16	44.47	-20.75	2.00	2.00	0.00
1,000.00	13.00	57.66	994.44	39.28	62.03	-28.95	2.00	2.00	0.00
1,100.00	15.00	57.66	1,091.46	52.23	82.47	-38.49	2.00	2.00	0.00
1,200.00	17.00	57.66	1,187.58	66.97	105.76	-49.35	2.00	2.00	0.00
1,300.00	19.00	57.66	1,282.68	83.50	131.86	-61.54	2.00	2.00	0.00
1,372.24	20.44	57.66	1,350.68	96.55	152.46	-71.15	2.00	2.00	0.00
Hold: 20.44° Inc, 57.66° Azm									
1,400.00	20.44	57.66	1,376.70	101.73	160.65	-74.97	0.00	0.00	0.00
1,500.00	20.44	57.66	1,470.40	120.42	190.16	-88.74	0.00	0.00	0.00
1,600.00	20.44	57.66	1,564.10	139.11	219.67	-102.51	0.00	0.00	0.00
1,700.00	20.44	57.66	1,657.80	157.80	249.18	-116.29	0.00	0.00	0.00
1,800.00	20.44	57.66	1,751.50	176.49	278.69	-130.06	0.00	0.00	0.00
1,900.00	20.44	57.66	1,845.20	195.18	308.20	-143.83	0.00	0.00	0.00
2,000.00	20.44	57.66	1,938.90	213.86	337.71	-157.60	0.00	0.00	0.00
2,100.00	20.44	57.66	2,032.60	232.55	367.22	-171.37	0.00	0.00	0.00
2,200.00	20.44	57.66	2,126.30	251.24	396.73	-185.15	0.00	0.00	0.00
2,300.00	20.44	57.66	2,220.00	269.93	426.24	-198.92	0.00	0.00	0.00
2,400.00	20.44	57.66	2,313.71	288.62	455.76	-212.69	0.00	0.00	0.00
2,500.00	20.44	57.66	2,407.41	307.31	485.27	-226.46	0.00	0.00	0.00
2,600.00	20.44	57.66	2,501.11	325.99	514.78	-240.23	0.00	0.00	0.00
2,700.00	20.44	57.66	2,594.81	344.68	544.29	-254.00	0.00	0.00	0.00
2,800.00	20.44	57.66	2,688.51	363.37	573.80	-267.78	0.00	0.00	0.00
2,900.00	20.44	57.66	2,782.21	382.06	603.31	-281.55	0.00	0.00	0.00
3,000.00	20.44	57.66	2,875.91	400.75	632.82	-295.32	0.00	0.00	0.00
3,100.00	20.44	57.66	2,969.61	419.43	662.33	-309.09	0.00	0.00	0.00
3,200.00	20.44	57.66	3,063.31	438.12	691.84	-322.86	0.00	0.00	0.00
3,300.00	20.44	57.66	3,157.01	456.81	721.35	-336.64	0.00	0.00	0.00
3,400.00	20.44	57.66	3,250.72	475.50	750.86	-350.41	0.00	0.00	0.00
3,500.00	20.44	57.66	3,344.42	494.19	780.37	-364.18	0.00	0.00	0.00
3,600.00	20.44	57.66	3,438.12	512.88	809.88	-377.95	0.00	0.00	0.00
3,700.00	20.44	57.66	3,531.82	531.56	839.39	-391.72	0.00	0.00	0.00
3,800.00	20.44	57.66	3,625.52	550.25	868.90	-405.49	0.00	0.00	0.00
3,900.00	20.44	57.66	3,719.22	568.94	898.41	-419.27	0.00	0.00	0.00
4,000.00	20.44	57.66	3,812.92	587.63	927.93	-433.04	0.00	0.00	0.00
4,100.00	20.44	57.66	3,906.62	606.32	957.44	-446.81	0.00	0.00	0.00
4,200.00	20.44	57.66	4,000.32	625.01	986.95	-460.58	0.00	0.00	0.00
4,300.00	20.44	57.66	4,094.02	643.69	1,016.46	-474.35	0.00	0.00	0.00
4,400.00	20.44	57.66	4,187.73	662.38	1,045.97	-488.13	0.00	0.00	0.00
4,500.00	20.44	57.66	4,281.43	681.07	1,075.48	-501.90	0.00	0.00	0.00
4,600.00	20.44	57.66	4,375.13	699.76	1,104.99	-515.67	0.00	0.00	0.00
4,700.00	20.44	57.66	4,468.83	718.45	1,134.50	-529.44	0.00	0.00	0.00

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Well:	REDSTONE 6-65 24-36 8HN	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	20.44	57.66	4,562.53	737.14	1,164.01	-543.21	0.00	0.00	0.00	
4,900.00	20.44	57.66	4,656.23	755.82	1,193.52	-556.98	0.00	0.00	0.00	
5,000.00	20.44	57.66	4,749.93	774.51	1,223.03	-570.76	0.00	0.00	0.00	
5,100.00	20.44	57.66	4,843.63	793.20	1,252.54	-584.53	0.00	0.00	0.00	
5,200.00	20.44	57.66	4,937.33	811.89	1,282.05	-598.30	0.00	0.00	0.00	
5,300.00	20.44	57.66	5,031.03	830.58	1,311.56	-612.07	0.00	0.00	0.00	
5,400.00	20.44	57.66	5,124.73	849.26	1,341.07	-625.84	0.00	0.00	0.00	
5,500.00	20.44	57.66	5,218.44	867.95	1,370.58	-639.62	0.00	0.00	0.00	
5,600.00	20.44	57.66	5,312.14	886.64	1,400.10	-653.39	0.00	0.00	0.00	
5,700.00	20.44	57.66	5,405.84	905.33	1,429.61	-667.16	0.00	0.00	0.00	
5,800.00	20.44	57.66	5,499.54	924.02	1,459.12	-680.93	0.00	0.00	0.00	
5,900.00	20.44	57.66	5,593.24	942.71	1,488.63	-694.70	0.00	0.00	0.00	
6,000.00	20.44	57.66	5,686.94	961.39	1,518.14	-708.47	0.00	0.00	0.00	
6,100.00	20.44	57.66	5,780.64	980.08	1,547.65	-722.25	0.00	0.00	0.00	
6,200.00	20.44	57.66	5,874.34	998.77	1,577.16	-736.02	0.00	0.00	0.00	
6,300.00	20.44	57.66	5,968.04	1,017.46	1,606.67	-749.79	0.00	0.00	0.00	
6,400.00	20.44	57.66	6,061.74	1,036.15	1,636.18	-763.56	0.00	0.00	0.00	
6,500.00	20.44	57.66	6,155.45	1,054.84	1,665.69	-777.33	0.00	0.00	0.00	
6,600.00	20.44	57.66	6,249.15	1,073.52	1,695.20	-791.11	0.00	0.00	0.00	
6,633.31	20.44	57.66	6,280.36	1,079.75	1,705.03	-795.69	0.00	0.00	0.00	
Drop: 2°/100' @ 6633.31' MD										
6,700.00	19.11	57.66	6,343.11	1,091.82	1,724.10	-804.59	2.00	-2.00	0.00	
6,800.00	17.11	57.66	6,438.15	1,108.45	1,750.36	-816.85	2.00	-2.00	0.00	
6,900.00	15.11	57.66	6,534.22	1,123.30	1,773.80	-827.79	2.00	-2.00	0.00	
7,000.00	13.11	57.66	6,631.20	1,136.34	1,794.40	-837.40	2.00	-2.00	0.00	
7,100.00	11.11	57.66	6,728.97	1,147.57	1,812.12	-845.67	2.00	-2.00	0.00	
7,200.00	9.11	57.66	6,827.41	1,156.96	1,826.95	-852.59	2.00	-2.00	0.00	
7,300.00	7.11	57.66	6,926.40	1,164.51	1,838.87	-858.15	2.00	-2.00	0.00	
7,400.00	5.11	57.66	7,025.83	1,170.20	1,847.87	-862.35	2.00	-2.00	0.00	
7,500.00	3.11	57.66	7,125.57	1,174.04	1,853.92	-865.18	2.00	-2.00	0.00	
7,600.00	1.11	57.66	7,225.50	1,176.01	1,857.03	-866.63	2.00	-2.00	0.00	
7,655.55	0.00	0.00	7,281.04	1,176.30	1,857.49	-866.84	2.00	-2.00	0.00	
Hold: 0.00° Inc, 0.00° Azm										
7,700.00	0.00	0.00	7,325.49	1,176.30	1,857.49	-866.84	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,425.49	1,176.30	1,857.49	-866.84	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,525.49	1,176.30	1,857.49	-866.84	0.00	0.00	0.00	
7,955.55	0.00	0.00	7,581.04	1,176.30	1,857.49	-866.84	0.00	0.00	0.00	
KOP: 10°/100' @ 7955.55' MD - KOP-REDSTONE 6-65 24-36 8HN										
8,000.00	4.45	180.06	7,625.45	1,174.57	1,857.49	-865.14	10.00	10.00	0.00	
8,050.00	9.45	180.06	7,675.07	1,168.53	1,857.48	-859.17	10.00	10.00	0.00	
8,100.00	14.45	180.06	7,723.97	1,158.18	1,857.47	-848.96	10.00	10.00	0.00	
8,150.00	19.45	180.06	7,771.78	1,143.61	1,857.46	-834.58	10.00	10.00	0.00	
8,200.00	24.45	180.06	7,818.14	1,124.93	1,857.44	-816.14	10.00	10.00	0.00	
8,250.00	29.45	180.06	7,862.70	1,102.28	1,857.41	-793.78	10.00	10.00	0.00	
8,300.00	34.45	180.06	7,905.12	1,075.84	1,857.39	-767.67	10.00	10.00	0.00	
8,350.00	39.45	180.06	7,945.06	1,045.80	1,857.36	-738.01	10.00	10.00	0.00	
8,400.00	44.45	180.06	7,982.24	1,012.38	1,857.32	-705.03	10.00	10.00	0.00	
8,450.00	49.45	180.06	8,016.37	975.86	1,857.29	-668.98	10.00	10.00	0.00	
8,500.00	54.45	180.06	8,047.18	936.50	1,857.25	-630.12	10.00	10.00	0.00	
8,550.00	59.45	180.06	8,074.44	894.61	1,857.20	-588.76	10.00	10.00	0.00	
8,600.00	64.45	180.06	8,097.95	850.50	1,857.16	-545.22	10.00	10.00	0.00	
8,650.00	69.45	180.06	8,117.52	804.51	1,857.11	-499.82	10.00	10.00	0.00	
8,700.00	74.45	180.06	8,133.01	756.98	1,857.07	-452.90	10.00	10.00	0.00	

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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)
8,750.00	79.45	180.06	8,144.31	708.29	1,857.02	-404.83	10.00	10.00	0.00
8,800.00	84.45	180.06	8,151.31	658.80	1,856.97	-355.98	10.00	10.00	0.00
8,850.00	89.45	180.06	8,153.97	608.89	1,856.92	-306.70	10.00	10.00	0.00
8,855.55	90.00	180.06	8,154.00	603.34	1,856.91	-301.23	10.00	10.00	0.00
LP: 8855.55' MD, 90.00° Inc, 180.06° Azm - FTP-REDSTONE 6-65 24-36 8HN									
8,900.00	90.00	180.06	8,154.00	558.89	1,856.87	-257.34	0.00	0.00	0.00
9,000.00	90.00	180.06	8,154.00	458.89	1,856.77	-158.63	0.00	0.00	0.00
9,100.00	90.00	180.06	8,154.00	358.89	1,856.66	-59.91	0.00	0.00	0.00
9,200.00	90.00	180.06	8,154.00	258.89	1,856.56	38.81	0.00	0.00	0.00
9,300.00	90.00	180.06	8,154.00	158.89	1,856.46	137.53	0.00	0.00	0.00
9,400.00	90.00	180.06	8,154.00	58.89	1,856.36	236.25	0.00	0.00	0.00
9,500.00	90.00	180.06	8,154.00	-41.11	1,856.26	334.97	0.00	0.00	0.00
9,600.00	90.00	180.06	8,154.00	-141.11	1,856.16	433.69	0.00	0.00	0.00
9,700.00	90.00	180.06	8,154.00	-241.11	1,856.06	532.40	0.00	0.00	0.00
9,800.00	90.00	180.06	8,154.00	-341.11	1,855.96	631.12	0.00	0.00	0.00
9,900.00	90.00	180.06	8,154.00	-441.11	1,855.86	729.84	0.00	0.00	0.00
10,000.00	90.00	180.06	8,154.00	-541.11	1,855.76	828.56	0.00	0.00	0.00
10,100.00	90.00	180.06	8,154.00	-641.11	1,855.66	927.28	0.00	0.00	0.00
10,200.00	90.00	180.06	8,154.00	-741.11	1,855.56	1,026.00	0.00	0.00	0.00
10,300.00	90.00	180.06	8,154.00	-841.11	1,855.46	1,124.71	0.00	0.00	0.00
10,400.00	90.00	180.06	8,154.00	-941.11	1,855.36	1,223.43	0.00	0.00	0.00
10,500.00	90.00	180.06	8,154.00	-1,041.11	1,855.25	1,322.15	0.00	0.00	0.00
10,600.00	90.00	180.06	8,154.00	-1,141.11	1,855.15	1,420.87	0.00	0.00	0.00
10,700.00	90.00	180.06	8,154.00	-1,241.11	1,855.05	1,519.59	0.00	0.00	0.00
10,800.00	90.00	180.06	8,154.00	-1,341.11	1,854.95	1,618.31	0.00	0.00	0.00
10,900.00	90.00	180.06	8,154.00	-1,441.11	1,854.85	1,717.03	0.00	0.00	0.00
11,000.00	90.00	180.06	8,154.00	-1,541.11	1,854.75	1,815.74	0.00	0.00	0.00
11,100.00	90.00	180.06	8,154.00	-1,641.11	1,854.65	1,914.46	0.00	0.00	0.00
11,200.00	90.00	180.06	8,154.00	-1,741.11	1,854.55	2,013.18	0.00	0.00	0.00
11,300.00	90.00	180.06	8,154.00	-1,841.11	1,854.45	2,111.90	0.00	0.00	0.00
11,400.00	90.00	180.06	8,154.00	-1,941.11	1,854.35	2,210.62	0.00	0.00	0.00
11,500.00	90.00	180.06	8,154.00	-2,041.11	1,854.25	2,309.34	0.00	0.00	0.00
11,600.00	90.00	180.06	8,154.00	-2,141.11	1,854.15	2,408.06	0.00	0.00	0.00
11,700.00	90.00	180.06	8,154.00	-2,241.11	1,854.05	2,506.77	0.00	0.00	0.00
11,800.00	90.00	180.06	8,154.00	-2,341.11	1,853.95	2,605.49	0.00	0.00	0.00
11,900.00	90.00	180.06	8,154.00	-2,441.11	1,853.84	2,704.21	0.00	0.00	0.00
12,000.00	90.00	180.06	8,154.00	-2,541.11	1,853.74	2,802.93	0.00	0.00	0.00
12,100.00	90.00	180.06	8,154.00	-2,641.11	1,853.64	2,901.65	0.00	0.00	0.00
12,200.00	90.00	180.06	8,154.00	-2,741.11	1,853.54	3,000.37	0.00	0.00	0.00
12,300.00	90.00	180.06	8,154.00	-2,841.11	1,853.44	3,099.09	0.00	0.00	0.00
12,400.00	90.00	180.06	8,154.00	-2,941.11	1,853.34	3,197.80	0.00	0.00	0.00
12,500.00	90.00	180.06	8,154.00	-3,041.11	1,853.24	3,296.52	0.00	0.00	0.00
12,600.00	90.00	180.06	8,154.00	-3,141.11	1,853.14	3,395.24	0.00	0.00	0.00
12,700.00	90.00	180.06	8,154.00	-3,241.11	1,853.04	3,493.96	0.00	0.00	0.00
12,800.00	90.00	180.06	8,154.00	-3,341.11	1,852.94	3,592.68	0.00	0.00	0.00
12,900.00	90.00	180.06	8,154.00	-3,441.11	1,852.84	3,691.40	0.00	0.00	0.00
13,000.00	90.00	180.06	8,154.00	-3,541.11	1,852.74	3,790.11	0.00	0.00	0.00
13,100.00	90.00	180.06	8,154.00	-3,641.11	1,852.64	3,888.83	0.00	0.00	0.00
13,200.00	90.00	180.06	8,154.00	-3,741.11	1,852.54	3,987.55	0.00	0.00	0.00
13,300.00	90.00	180.06	8,154.00	-3,841.11	1,852.43	4,086.27	0.00	0.00	0.00
13,400.00	90.00	180.06	8,154.00	-3,941.11	1,852.33	4,184.99	0.00	0.00	0.00
13,500.00	90.00	180.06	8,154.00	-4,041.11	1,852.23	4,283.71	0.00	0.00	0.00
13,600.00	90.00	180.06	8,154.00	-4,141.11	1,852.13	4,382.43	0.00	0.00	0.00
13,700.00	90.00	180.06	8,154.00	-4,241.11	1,852.03	4,481.14	0.00	0.00	0.00



Database:	Local	Local Co-ordinate Reference:	Well REDSTONE 6-65 24-36 8HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6299.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6299.00usft
Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	REDSTONE 6-65 24-36 8HN	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	180.06	8,154.00	-4,341.11	1,851.93	4,579.86	0.00	0.00	0.00
13,900.00	90.00	180.06	8,154.00	-4,441.11	1,851.83	4,678.58	0.00	0.00	0.00
14,000.00	90.00	180.06	8,154.00	-4,541.11	1,851.73	4,777.30	0.00	0.00	0.00
14,100.00	90.00	180.06	8,154.00	-4,641.11	1,851.63	4,876.02	0.00	0.00	0.00
14,200.00	90.00	180.06	8,154.00	-4,741.11	1,851.53	4,974.74	0.00	0.00	0.00
14,300.00	90.00	180.06	8,154.00	-4,841.11	1,851.43	5,073.46	0.00	0.00	0.00
14,400.00	90.00	180.06	8,154.00	-4,941.11	1,851.33	5,172.17	0.00	0.00	0.00
14,500.00	90.00	180.06	8,154.00	-5,041.11	1,851.23	5,270.89	0.00	0.00	0.00
14,600.00	90.00	180.06	8,154.00	-5,141.11	1,851.13	5,369.61	0.00	0.00	0.00
14,700.00	90.00	180.06	8,154.00	-5,241.11	1,851.02	5,468.33	0.00	0.00	0.00
14,800.00	90.00	180.06	8,154.00	-5,341.11	1,850.92	5,567.05	0.00	0.00	0.00
14,900.00	90.00	180.06	8,154.00	-5,441.11	1,850.82	5,665.77	0.00	0.00	0.00
15,000.00	90.00	180.06	8,154.00	-5,541.11	1,850.72	5,764.49	0.00	0.00	0.00
15,100.00	90.00	180.06	8,154.00	-5,641.11	1,850.62	5,863.20	0.00	0.00	0.00
15,200.00	90.00	180.06	8,154.00	-5,741.11	1,850.52	5,961.92	0.00	0.00	0.00
15,300.00	90.00	180.06	8,154.00	-5,841.11	1,850.42	6,060.64	0.00	0.00	0.00
15,400.00	90.00	180.06	8,154.00	-5,941.11	1,850.32	6,159.36	0.00	0.00	0.00
15,500.00	90.00	180.06	8,154.00	-6,041.11	1,850.22	6,258.08	0.00	0.00	0.00
15,600.00	90.00	180.06	8,154.00	-6,141.11	1,850.12	6,356.80	0.00	0.00	0.00
15,700.00	90.00	180.06	8,154.00	-6,241.11	1,850.02	6,455.51	0.00	0.00	0.00
15,800.00	90.00	180.06	8,154.00	-6,341.11	1,849.92	6,554.23	0.00	0.00	0.00
15,900.00	90.00	180.06	8,154.00	-6,441.11	1,849.82	6,652.95	0.00	0.00	0.00
16,000.00	90.00	180.06	8,154.00	-6,541.11	1,849.71	6,751.67	0.00	0.00	0.00
16,100.00	90.00	180.06	8,154.00	-6,641.11	1,849.61	6,850.39	0.00	0.00	0.00
16,200.00	90.00	180.06	8,154.00	-6,741.11	1,849.51	6,949.11	0.00	0.00	0.00
16,300.00	90.00	180.06	8,154.00	-6,841.11	1,849.41	7,047.83	0.00	0.00	0.00
16,400.00	90.00	180.06	8,154.00	-6,941.11	1,849.31	7,146.54	0.00	0.00	0.00
16,500.00	90.00	180.06	8,154.00	-7,041.11	1,849.21	7,245.26	0.00	0.00	0.00
16,600.00	90.00	180.06	8,154.00	-7,141.11	1,849.11	7,343.98	0.00	0.00	0.00
16,700.00	90.00	180.06	8,154.00	-7,241.11	1,849.01	7,442.70	0.00	0.00	0.00
16,800.00	90.00	180.06	8,154.00	-7,341.11	1,848.91	7,541.42	0.00	0.00	0.00
16,900.00	90.00	180.06	8,154.00	-7,441.11	1,848.81	7,640.14	0.00	0.00	0.00
17,000.00	90.00	180.06	8,154.00	-7,541.11	1,848.71	7,738.86	0.00	0.00	0.00
17,100.00	90.00	180.06	8,154.00	-7,641.11	1,848.61	7,837.57	0.00	0.00	0.00
17,200.00	90.00	180.06	8,154.00	-7,741.11	1,848.51	7,936.29	0.00	0.00	0.00
17,300.00	90.00	180.06	8,154.00	-7,841.11	1,848.41	8,035.01	0.00	0.00	0.00
17,400.00	90.00	180.06	8,154.00	-7,941.11	1,848.30	8,133.73	0.00	0.00	0.00
17,500.00	90.00	180.06	8,154.00	-8,041.11	1,848.20	8,232.45	0.00	0.00	0.00
17,600.00	90.00	180.06	8,154.00	-8,141.11	1,848.10	8,331.17	0.00	0.00	0.00
17,700.00	90.00	180.06	8,154.00	-8,241.11	1,848.00	8,429.89	0.00	0.00	0.00
17,800.00	90.00	180.06	8,154.00	-8,341.11	1,847.90	8,528.60	0.00	0.00	0.00
17,900.00	90.00	180.06	8,154.00	-8,441.11	1,847.80	8,627.32	0.00	0.00	0.00
18,000.00	90.00	180.06	8,154.00	-8,541.11	1,847.70	8,726.04	0.00	0.00	0.00
18,100.00	90.00	180.06	8,154.00	-8,641.11	1,847.60	8,824.76	0.00	0.00	0.00
18,200.00	90.00	180.06	8,154.00	-8,741.11	1,847.50	8,923.48	0.00	0.00	0.00
18,300.00	90.00	180.06	8,154.00	-8,841.11	1,847.40	9,022.20	0.00	0.00	0.00
18,400.00	90.00	180.06	8,154.00	-8,941.11	1,847.30	9,120.91	0.00	0.00	0.00
18,500.00	90.00	180.06	8,154.00	-9,041.11	1,847.20	9,219.63	0.00	0.00	0.00
18,600.00	90.00	180.06	8,154.00	-9,141.11	1,847.10	9,318.35	0.00	0.00	0.00
18,700.00	90.00	180.06	8,154.00	-9,241.11	1,847.00	9,417.07	0.00	0.00	0.00
18,800.00	90.00	180.06	8,154.00	-9,341.11	1,846.89	9,515.79	0.00	0.00	0.00
18,900.00	90.00	180.06	8,154.00	-9,441.11	1,846.79	9,614.51	0.00	0.00	0.00
19,000.00	90.00	180.06	8,154.00	-9,541.11	1,846.69	9,713.23	0.00	0.00	0.00
19,100.00	90.00	180.06	8,154.00	-9,641.11	1,846.59	9,811.94	0.00	0.00	0.00

Database:	Local	Local Co-ordinate Reference:	Well REDSTONE 6-65 24-36 8HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6299.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6299.00usft
Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	REDSTONE 6-65 24-36 8HN	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	180.06	8,154.00	-9,741.11	1,846.49	9,910.66	0.00	0.00	0.00	
19,300.00	90.00	180.06	8,154.00	-9,841.11	1,846.39	10,009.38	0.00	0.00	0.00	
19,400.00	90.00	180.06	8,154.00	-9,941.11	1,846.29	10,108.10	0.00	0.00	0.00	
19,500.00	90.00	180.06	8,154.00	-10,041.11	1,846.19	10,206.82	0.00	0.00	0.00	
19,600.00	90.00	180.06	8,154.00	-10,141.11	1,846.09	10,305.54	0.00	0.00	0.00	
19,700.00	90.00	180.06	8,154.00	-10,241.11	1,845.99	10,404.26	0.00	0.00	0.00	
19,800.00	90.00	180.06	8,154.00	-10,341.11	1,845.89	10,502.97	0.00	0.00	0.00	
19,900.00	90.00	180.06	8,154.00	-10,441.11	1,845.79	10,601.69	0.00	0.00	0.00	
20,000.00	90.00	180.06	8,154.00	-10,541.11	1,845.69	10,700.41	0.00	0.00	0.00	
20,100.00	90.00	180.06	8,154.00	-10,641.11	1,845.59	10,799.13	0.00	0.00	0.00	
20,200.00	90.00	180.06	8,154.00	-10,741.11	1,845.48	10,897.85	0.00	0.00	0.00	
20,300.00	90.00	180.06	8,154.00	-10,841.11	1,845.38	10,996.57	0.00	0.00	0.00	
20,400.00	90.00	180.06	8,154.00	-10,941.11	1,845.28	11,095.29	0.00	0.00	0.00	
20,500.00	90.00	180.06	8,154.00	-11,041.11	1,845.18	11,194.00	0.00	0.00	0.00	
20,600.00	90.00	180.06	8,154.00	-11,141.11	1,845.08	11,292.72	0.00	0.00	0.00	
20,700.00	90.00	180.06	8,154.00	-11,241.11	1,844.98	11,391.44	0.00	0.00	0.00	
20,800.00	90.00	180.06	8,154.00	-11,341.11	1,844.88	11,490.16	0.00	0.00	0.00	
20,894.19	90.00	180.06	8,154.00	-11,435.30	1,844.79	11,583.15	0.00	0.00	0.00	
Hold: 90.00° Inc, 180.06° Azm - LTP-REDSTONE 6-65 24-36 8HN										
20,900.00	90.00	180.06	8,154.00	-11,441.11	1,844.78	11,588.88	0.00	0.00	0.00	
20,944.19	90.00	180.06	8,154.00	-11,485.30	1,844.73	11,632.50	0.00	0.00	0.00	
TD @ 20944.19' MD/8154.00' TVD - BHL-REDSTONE 6-65 24-36 8HN										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL-REDSTONE 6-6: - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	1,612,079.92	3,249,004.90	39.510616	-104.617434	
KOP-REDSTONE 6-6: - plan hits target center - Point	0.00	0.00	7,581.04	1,176.30	1,857.49	1,613,256.21	3,250,862.39	39.513795	-104.610810	
FTP-REDSTONE 6-6: - plan hits target center - Point	0.00	0.00	8,154.00	603.34	1,856.91	1,612,683.25	3,250,861.81	39.512222	-104.610832	
LTP-REDSTONE 6-6: - plan hits target center - Point	0.00	0.00	8,154.00	-11,435.30	1,844.79	1,600,644.62	3,250,849.69	39.479173	-104.611293	
BHL-REDSTONE 6-6: - plan hits target center - Point	0.00	0.00	8,154.00	-11,485.30	1,844.73	1,600,594.62	3,250,849.64	39.479035	-104.611294	

Database:	Local	Local Co-ordinate Reference:	Well REDSTONE 6-65 24-36 8HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6299.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6299.00usft
Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	REDSTONE 6-65 24-36 8HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
514.09	514.00	Denver				
1,653.26	1,614.00	Upper Arapahoe				
2,341.62	2,259.00	Laramie - Fox Hills				
2,523.05	2,429.00	Pierre Shale (Base of Fox Hills)				
5,927.49	5,619.00	Sussex Sandstone				
8,361.67	7,954.00	Sharon Springs Shale				
8,416.71	7,994.00	Niobrara				
8,431.33	8,004.00	Niobrara A				
8,640.19	8,114.00	Niobrara B 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	
1,372.24	1,350.68	96.55	152.46	Hold: 20.44° Inc, 57.66° Azm	
6,633.31	6,280.36	1,079.75	1,705.03	Drop: 2°/100' @ 6633.31' MD	
7,655.55	7,281.04	1,176.30	1,857.49	Hold: 0.00° Inc, 0.00° Azm	
7,955.55	7,581.04	1,176.30	1,857.49	KOP: 10°/100' @ 7955.55' MD	
8,855.55	8,154.00	603.34	1,856.91	LP: 8855.55' MD, 90.00° Inc, 180.06° Azm	
20,894.19	8,154.00	-11,435.30	1,844.79	Hold: 90.00° Inc, 180.06° Azm	
20,944.19	8,154.00	-11,485.30	1,844.73	TD @ 20944.19' MD/8154.00' TVD	