



GMT Exploration Company, LLC

Elbert County, CO (NAD 83)

Marble-Redstone Pad

REDSTONE 6-65 24-36 2HN

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 2HN
 Wellbore: Wellbore #1
 Design: Design #1

GMT Exploration Company, LLC

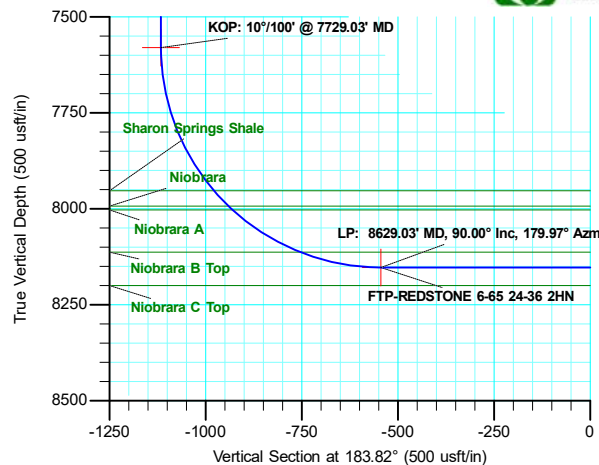
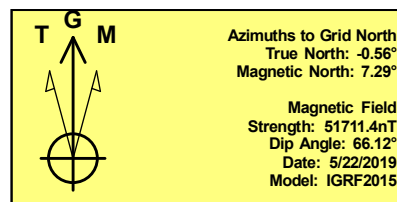
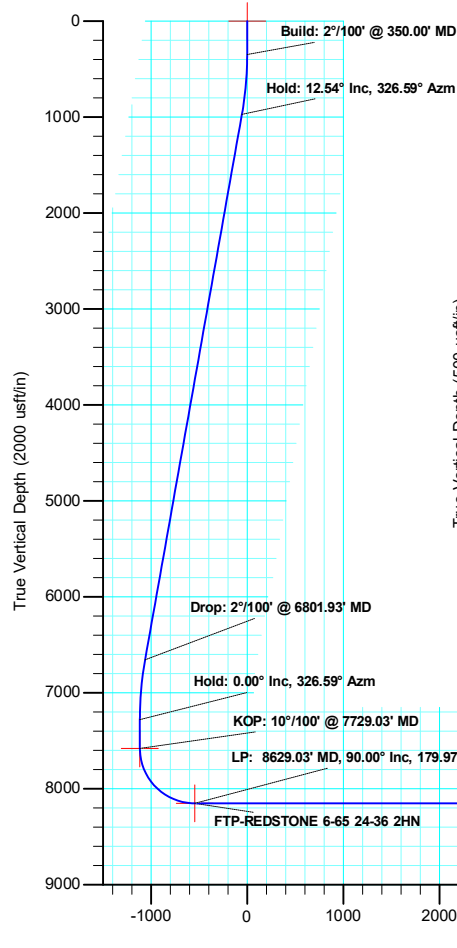
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Central Zone
 System Datum: Mean Sea Level

WELL DETAILS: REDSTONE 6-65 24-36 2HN

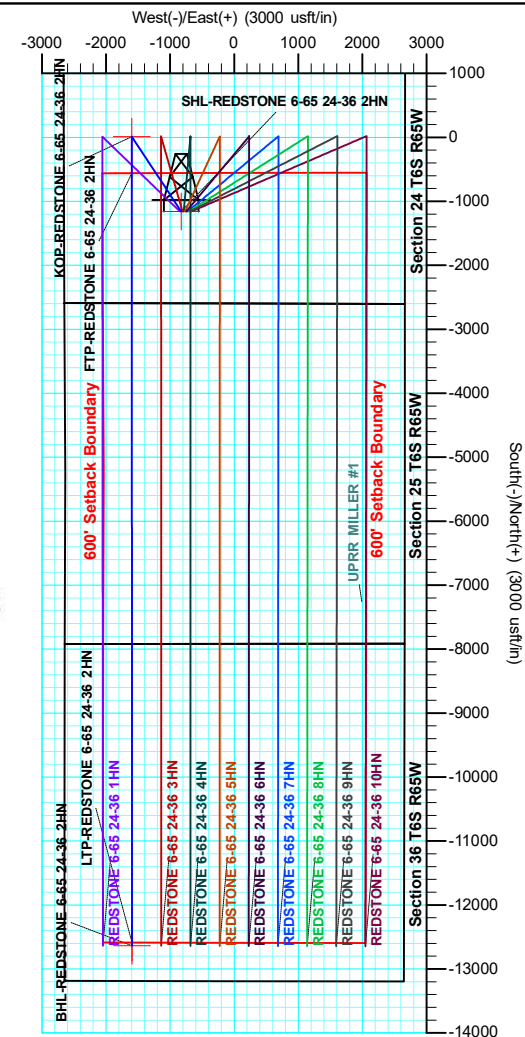
+N/-S	+E/-W	Northing	Ground Level: Easting	6278.00 Latitude	Longitude
-1157.41	-827.10	1612079.92	3248884.90	39.510619	-104.617859

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
0.00	0.00	0.00	0.00	-1157.41	-827.10	0.00	0.00	0.00	
350.00	0.00	0.00	350.00	-1157.41	-827.10	0.00	0.00	0.00	
977.10	12.54	326.59	972.11	-1100.34	-864.74	2.00	326.59	-54.44	
6801.93	12.54	326.59	6657.93	-44.42	-1561.15	0.00	0.00	-1061.65	
7429.03	0.00	0.00	7280.04	12.65	-1598.79	2.00	180.00	-1116.09	
7729.03	0.00	0.00	7580.04	12.65	-1598.79	0.00	0.00	-1116.09	
8629.03	90.00	179.97	8153.00	-560.30	-1598.53	10.00	0.00	-544.42	FTP-REDSTONE 6-65 24-36 2HN
20655.67	90.00	179.97	8153.00	-12586.94	-1593.06	0.00	0.00	11455.17	LTP-REDSTONE 6-65 24-36 2HN
20705.67	90.00	179.97	8153.00	-12636.94	-1593.04	0.00	0.00	11505.05	BHL-REDSTONE 6-65 24-36 2HN



SHL: 1437 FSL/ 1828 FWL Sec. 24
 FTP: 2031 FSL/ 1058 FWL Sec. 24
 LTP: 600 FSL/ 1055 FWL Sec. 36
 BHL: 550 FSL/ 1055 FWL Sec. 36



Database:	Local	Local Co-ordinate Reference:	Well REDSTONE 6-65 24-36 2HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6298.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6298.00usft
Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	REDSTONE 6-65 24-36 2HN	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 2HN				
Well Position	+N/-S	-1,157.41 usft	Northing:	1,612,079.92 usft	Latitude:	39.510619
	+E/-W	-827.10 usft	Easting:	3,248,884.90 usft	Longitude:	-104.617860
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	6,278.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/22/2019	7.85	66.12	51,711.41457011

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	183.82	

Plan Survey Tool Program	Date	5/24/2019			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	20,705.67	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	
977.10	12.54	326.59	972.11	57.07	-37.64	2.00	2.00	0.00	326.59	
6,801.93	12.54	326.59	6,657.93	1,112.99	-734.06	0.00	0.00	0.00	0.00	
7,429.03	0.00	0.00	7,280.04	1,170.06	-771.70	2.00	-2.00	0.00	180.00	
7,729.03	0.00	0.00	7,580.04	1,170.06	-771.70	0.00	0.00	0.00	0.00	
8,629.03	90.00	179.97	8,153.00	597.10	-771.44	10.00	10.00	0.00	0.00	FTP-REDSTONE 6
20,655.67	90.00	179.97	8,153.00	-11,429.53	-765.96	0.00	0.00	0.00	0.00	LTP-REDSTONE 6-
20,705.67	90.00	179.97	8,153.00	-11,479.53	-765.94	0.00	0.00	0.00	0.00	BHL-REDSTONE 6

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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)
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 2HN									
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	326.59	400.00	0.36	-0.24	-0.35	2.00	2.00	0.00
500.00	3.00	326.59	499.93	3.28	-2.16	-3.13	2.00	2.00	0.00
600.00	5.00	326.59	599.68	9.10	-6.00	-8.68	2.00	2.00	0.00
700.00	7.00	326.59	699.13	17.83	-11.76	-17.00	2.00	2.00	0.00
800.00	9.00	326.59	798.15	29.44	-19.42	-28.09	2.00	2.00	0.00
900.00	11.00	326.59	896.63	43.94	-28.98	-41.91	2.00	2.00	0.00
977.10	12.54	326.59	972.11	57.07	-37.64	-54.44	2.00	2.00	0.00
Hold: 12.54° Inc, 326.59° Azm									
1,000.00	12.54	326.59	994.46	61.22	-40.38	-58.40	0.00	0.00	0.00
1,100.00	12.54	326.59	1,092.07	79.35	-52.33	-75.69	0.00	0.00	0.00
1,200.00	12.54	326.59	1,189.68	97.48	-64.29	-92.98	0.00	0.00	0.00
1,300.00	12.54	326.59	1,287.30	115.60	-76.24	-110.27	0.00	0.00	0.00
1,400.00	12.54	326.59	1,384.91	133.73	-88.20	-127.56	0.00	0.00	0.00
1,500.00	12.54	326.59	1,482.53	151.86	-100.16	-144.85	0.00	0.00	0.00
1,600.00	12.54	326.59	1,580.14	169.99	-112.11	-162.15	0.00	0.00	0.00
1,700.00	12.54	326.59	1,677.75	188.12	-124.07	-179.44	0.00	0.00	0.00
1,800.00	12.54	326.59	1,775.37	206.24	-136.02	-196.73	0.00	0.00	0.00
1,900.00	12.54	326.59	1,872.98	224.37	-147.98	-214.02	0.00	0.00	0.00
2,000.00	12.54	326.59	1,970.59	242.50	-159.94	-231.31	0.00	0.00	0.00
2,100.00	12.54	326.59	2,068.21	260.63	-171.89	-248.61	0.00	0.00	0.00
2,200.00	12.54	326.59	2,165.82	278.76	-183.85	-265.90	0.00	0.00	0.00
2,300.00	12.54	326.59	2,263.44	296.88	-195.80	-283.19	0.00	0.00	0.00
2,400.00	12.54	326.59	2,361.05	315.01	-207.76	-300.48	0.00	0.00	0.00
2,500.00	12.54	326.59	2,458.66	333.14	-219.72	-317.77	0.00	0.00	0.00
2,600.00	12.54	326.59	2,556.28	351.27	-231.67	-335.06	0.00	0.00	0.00
2,700.00	12.54	326.59	2,653.89	369.40	-243.63	-352.36	0.00	0.00	0.00
2,800.00	12.54	326.59	2,751.50	387.52	-255.59	-369.65	0.00	0.00	0.00
2,900.00	12.54	326.59	2,849.12	405.65	-267.54	-386.94	0.00	0.00	0.00
3,000.00	12.54	326.59	2,946.73	423.78	-279.50	-404.23	0.00	0.00	0.00
3,100.00	12.54	326.59	3,044.34	441.91	-291.45	-421.52	0.00	0.00	0.00
3,200.00	12.54	326.59	3,141.96	460.03	-303.41	-438.82	0.00	0.00	0.00
3,300.00	12.54	326.59	3,239.57	478.16	-315.37	-456.11	0.00	0.00	0.00
3,400.00	12.54	326.59	3,337.19	496.29	-327.32	-473.40	0.00	0.00	0.00
3,500.00	12.54	326.59	3,434.80	514.42	-339.28	-490.69	0.00	0.00	0.00
3,600.00	12.54	326.59	3,532.41	532.55	-351.23	-507.98	0.00	0.00	0.00
3,700.00	12.54	326.59	3,630.03	550.67	-363.19	-525.27	0.00	0.00	0.00
3,800.00	12.54	326.59	3,727.64	568.80	-375.15	-542.57	0.00	0.00	0.00
3,900.00	12.54	326.59	3,825.25	586.93	-387.10	-559.86	0.00	0.00	0.00
4,000.00	12.54	326.59	3,922.87	605.06	-399.06	-577.15	0.00	0.00	0.00
4,100.00	12.54	326.59	4,020.48	623.19	-411.01	-594.44	0.00	0.00	0.00
4,200.00	12.54	326.59	4,118.10	641.31	-422.97	-611.73	0.00	0.00	0.00
4,300.00	12.54	326.59	4,215.71	659.44	-434.93	-629.02	0.00	0.00	0.00
4,400.00	12.54	326.59	4,313.32	677.57	-446.88	-646.32	0.00	0.00	0.00
4,500.00	12.54	326.59	4,410.94	695.70	-458.84	-663.61	0.00	0.00	0.00
4,600.00	12.54	326.59	4,508.55	713.83	-470.79	-680.90	0.00	0.00	0.00
4,700.00	12.54	326.59	4,606.16	731.95	-482.75	-698.19	0.00	0.00	0.00

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Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	REDSTONE 6-65 24-36 2HN	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	12.54	326.59	4,703.78	750.08	-494.71	-715.48	0.00	0.00	0.00
4,900.00	12.54	326.59	4,801.39	768.21	-506.66	-732.78	0.00	0.00	0.00
5,000.00	12.54	326.59	4,899.00	786.34	-518.62	-750.07	0.00	0.00	0.00
5,100.00	12.54	326.59	4,996.62	804.47	-530.57	-767.36	0.00	0.00	0.00
5,200.00	12.54	326.59	5,094.23	822.59	-542.53	-784.65	0.00	0.00	0.00
5,300.00	12.54	326.59	5,191.85	840.72	-554.49	-801.94	0.00	0.00	0.00
5,400.00	12.54	326.59	5,289.46	858.85	-566.44	-819.23	0.00	0.00	0.00
5,500.00	12.54	326.59	5,387.07	876.98	-578.40	-836.53	0.00	0.00	0.00
5,600.00	12.54	326.59	5,484.69	895.11	-590.35	-853.82	0.00	0.00	0.00
5,700.00	12.54	326.59	5,582.30	913.23	-602.31	-871.11	0.00	0.00	0.00
5,800.00	12.54	326.59	5,679.91	931.36	-614.27	-888.40	0.00	0.00	0.00
5,900.00	12.54	326.59	5,777.53	949.49	-626.22	-905.69	0.00	0.00	0.00
6,000.00	12.54	326.59	5,875.14	967.62	-638.18	-922.99	0.00	0.00	0.00
6,100.00	12.54	326.59	5,972.75	985.75	-650.13	-940.28	0.00	0.00	0.00
6,200.00	12.54	326.59	6,070.37	1,003.87	-662.09	-957.57	0.00	0.00	0.00
6,300.00	12.54	326.59	6,167.98	1,022.00	-674.05	-974.86	0.00	0.00	0.00
6,400.00	12.54	326.59	6,265.60	1,040.13	-686.00	-992.15	0.00	0.00	0.00
6,500.00	12.54	326.59	6,363.21	1,058.26	-697.96	-1,009.44	0.00	0.00	0.00
6,600.00	12.54	326.59	6,460.82	1,076.39	-709.91	-1,026.74	0.00	0.00	0.00
6,700.00	12.54	326.59	6,558.44	1,094.51	-721.87	-1,044.03	0.00	0.00	0.00
6,801.93	12.54	326.59	6,657.93	1,112.99	-734.06	-1,061.65	0.00	0.00	0.00
Drop: 2°/100' @ 6801.93' MD									
6,900.00	10.58	326.59	6,754.01	1,129.40	-744.88	-1,077.30	2.00	-2.00	0.00
7,000.00	8.58	326.59	6,852.61	1,143.29	-754.04	-1,090.56	2.00	-2.00	0.00
7,100.00	6.58	326.59	6,951.73	1,154.30	-761.30	-1,101.06	2.00	-2.00	0.00
7,200.00	4.58	326.59	7,051.25	1,162.42	-766.66	-1,108.80	2.00	-2.00	0.00
7,300.00	2.58	326.59	7,151.05	1,167.64	-770.10	-1,113.78	2.00	-2.00	0.00
7,400.00	0.58	326.59	7,251.01	1,169.94	-771.62	-1,115.97	2.00	-2.00	0.00
7,429.03	0.00	0.00	7,280.04	1,170.06	-771.70	-1,116.09	2.00	-2.00	0.00
Hold: 0.00° Inc, 326.59° Azm									
7,500.00	0.00	0.00	7,351.01	1,170.06	-771.70	-1,116.09	0.00	0.00	0.00
7,600.00	0.00	0.00	7,451.01	1,170.06	-771.70	-1,116.09	0.00	0.00	0.00
7,700.00	0.00	0.00	7,551.01	1,170.06	-771.70	-1,116.09	0.00	0.00	0.00
7,729.03	0.00	0.00	7,580.04	1,170.06	-771.70	-1,116.09	0.00	0.00	0.00
KOP: 10°/100' @ 7729.03' MD - KOP-REDSTONE 6-65 24-36 2HN									
7,750.00	2.10	179.97	7,601.00	1,169.68	-771.70	-1,115.71	10.00	10.00	0.00
7,800.00	7.10	179.97	7,650.83	1,165.67	-771.69	-1,111.71	10.00	10.00	0.00
7,850.00	12.10	179.97	7,700.11	1,157.34	-771.69	-1,103.40	10.00	10.00	0.00
7,900.00	17.10	179.97	7,748.48	1,144.74	-771.68	-1,090.83	10.00	10.00	0.00
7,950.00	22.10	179.97	7,795.57	1,127.98	-771.68	-1,074.10	10.00	10.00	0.00
8,000.00	27.10	179.97	7,841.02	1,107.17	-771.67	-1,053.34	10.00	10.00	0.00
8,050.00	32.10	179.97	7,884.48	1,082.49	-771.66	-1,028.71	10.00	10.00	0.00
8,100.00	37.10	179.97	7,925.63	1,054.11	-771.64	-1,000.40	10.00	10.00	0.00
8,150.00	42.10	179.97	7,964.14	1,022.25	-771.63	-968.61	10.00	10.00	0.00
8,200.00	47.10	179.97	7,999.74	987.15	-771.61	-933.59	10.00	10.00	0.00
8,250.00	52.10	179.97	8,032.13	949.09	-771.60	-895.62	10.00	10.00	0.00
8,300.00	57.10	179.97	8,061.09	908.35	-771.58	-854.97	10.00	10.00	0.00
8,350.00	62.10	179.97	8,086.39	865.24	-771.56	-811.95	10.00	10.00	0.00
8,400.00	67.10	179.97	8,107.83	820.09	-771.54	-766.90	10.00	10.00	0.00
8,450.00	72.10	179.97	8,125.26	773.24	-771.52	-720.16	10.00	10.00	0.00
8,500.00	77.10	179.97	8,138.53	725.05	-771.49	-672.08	10.00	10.00	0.00
8,550.00	82.10	179.97	8,147.56	675.89	-771.47	-623.03	10.00	10.00	0.00
8,600.00	87.10	179.97	8,152.26	626.13	-771.45	-573.38	10.00	10.00	0.00

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Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,629.03	90.00	179.97	8,153.00	597.10	-771.44	-544.42	10.00	10.00	0.00
LP: 8629.03' MD, 90.00° Inc, 179.97° Azm - FTP-REDSTONE 6-65 24-36 2HN									
8,700.00	90.00	179.97	8,153.00	526.14	-771.40	-473.61	0.00	0.00	0.00
8,800.00	90.00	179.97	8,153.00	426.14	-771.36	-373.84	0.00	0.00	0.00
8,900.00	90.00	179.97	8,153.00	326.14	-771.31	-274.06	0.00	0.00	0.00
9,000.00	90.00	179.97	8,153.00	226.14	-771.27	-174.29	0.00	0.00	0.00
9,100.00	90.00	179.97	8,153.00	126.14	-771.22	-74.51	0.00	0.00	0.00
9,200.00	90.00	179.97	8,153.00	26.14	-771.18	25.26	0.00	0.00	0.00
9,300.00	90.00	179.97	8,153.00	-73.86	-771.13	125.04	0.00	0.00	0.00
9,400.00	90.00	179.97	8,153.00	-173.86	-771.08	224.81	0.00	0.00	0.00
9,500.00	90.00	179.97	8,153.00	-273.86	-771.04	324.59	0.00	0.00	0.00
9,600.00	90.00	179.97	8,153.00	-373.86	-770.99	424.36	0.00	0.00	0.00
9,700.00	90.00	179.97	8,153.00	-473.86	-770.95	524.14	0.00	0.00	0.00
9,800.00	90.00	179.97	8,153.00	-573.86	-770.90	623.91	0.00	0.00	0.00
9,900.00	90.00	179.97	8,153.00	-673.86	-770.86	723.69	0.00	0.00	0.00
10,000.00	90.00	179.97	8,153.00	-773.86	-770.81	823.46	0.00	0.00	0.00
10,100.00	90.00	179.97	8,153.00	-873.86	-770.77	923.24	0.00	0.00	0.00
10,200.00	90.00	179.97	8,153.00	-973.86	-770.72	1,023.01	0.00	0.00	0.00
10,300.00	90.00	179.97	8,153.00	-1,073.86	-770.68	1,122.79	0.00	0.00	0.00
10,400.00	90.00	179.97	8,153.00	-1,173.86	-770.63	1,222.56	0.00	0.00	0.00
10,500.00	90.00	179.97	8,153.00	-1,273.86	-770.58	1,322.34	0.00	0.00	0.00
10,600.00	90.00	179.97	8,153.00	-1,373.86	-770.54	1,422.11	0.00	0.00	0.00
10,700.00	90.00	179.97	8,153.00	-1,473.86	-770.49	1,521.89	0.00	0.00	0.00
10,800.00	90.00	179.97	8,153.00	-1,573.86	-770.45	1,621.66	0.00	0.00	0.00
10,900.00	90.00	179.97	8,153.00	-1,673.86	-770.40	1,721.44	0.00	0.00	0.00
11,000.00	90.00	179.97	8,153.00	-1,773.86	-770.36	1,821.21	0.00	0.00	0.00
11,100.00	90.00	179.97	8,153.00	-1,873.86	-770.31	1,920.99	0.00	0.00	0.00
11,200.00	90.00	179.97	8,153.00	-1,973.86	-770.27	2,020.76	0.00	0.00	0.00
11,300.00	90.00	179.97	8,153.00	-2,073.86	-770.22	2,120.54	0.00	0.00	0.00
11,400.00	90.00	179.97	8,153.00	-2,173.86	-770.17	2,220.31	0.00	0.00	0.00
11,500.00	90.00	179.97	8,153.00	-2,273.86	-770.13	2,320.09	0.00	0.00	0.00
11,600.00	90.00	179.97	8,153.00	-2,373.86	-770.08	2,419.86	0.00	0.00	0.00
11,700.00	90.00	179.97	8,153.00	-2,473.86	-770.04	2,519.64	0.00	0.00	0.00
11,800.00	90.00	179.97	8,153.00	-2,573.86	-769.99	2,619.41	0.00	0.00	0.00
11,900.00	90.00	179.97	8,153.00	-2,673.86	-769.95	2,719.19	0.00	0.00	0.00
12,000.00	90.00	179.97	8,153.00	-2,773.86	-769.90	2,818.96	0.00	0.00	0.00
12,100.00	90.00	179.97	8,153.00	-2,873.86	-769.86	2,918.74	0.00	0.00	0.00
12,200.00	90.00	179.97	8,153.00	-2,973.86	-769.81	3,018.51	0.00	0.00	0.00
12,300.00	90.00	179.97	8,153.00	-3,073.86	-769.77	3,118.29	0.00	0.00	0.00
12,400.00	90.00	179.97	8,153.00	-3,173.86	-769.72	3,218.06	0.00	0.00	0.00
12,500.00	90.00	179.97	8,153.00	-3,273.86	-769.67	3,317.84	0.00	0.00	0.00
12,600.00	90.00	179.97	8,153.00	-3,373.86	-769.63	3,417.61	0.00	0.00	0.00
12,700.00	90.00	179.97	8,153.00	-3,473.86	-769.58	3,517.39	0.00	0.00	0.00
12,800.00	90.00	179.97	8,153.00	-3,573.86	-769.54	3,617.16	0.00	0.00	0.00
12,900.00	90.00	179.97	8,153.00	-3,673.86	-769.49	3,716.94	0.00	0.00	0.00
13,000.00	90.00	179.97	8,153.00	-3,773.86	-769.45	3,816.72	0.00	0.00	0.00
13,100.00	90.00	179.97	8,153.00	-3,873.86	-769.40	3,916.49	0.00	0.00	0.00
13,200.00	90.00	179.97	8,153.00	-3,973.86	-769.36	4,016.27	0.00	0.00	0.00
13,300.00	90.00	179.97	8,153.00	-4,073.86	-769.31	4,116.04	0.00	0.00	0.00
13,400.00	90.00	179.97	8,153.00	-4,173.86	-769.26	4,215.82	0.00	0.00	0.00
13,500.00	90.00	179.97	8,153.00	-4,273.86	-769.22	4,315.59	0.00	0.00	0.00
13,600.00	90.00	179.97	8,153.00	-4,373.86	-769.17	4,415.37	0.00	0.00	0.00
13,700.00	90.00	179.97	8,153.00	-4,473.86	-769.13	4,515.14	0.00	0.00	0.00
13,800.00	90.00	179.97	8,153.00	-4,573.86	-769.08	4,614.92	0.00	0.00	0.00

Database:	Local	Local Co-ordinate Reference:	Well REDSTONE 6-65 24-36 2HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6298.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6298.00usft
Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	REDSTONE 6-65 24-36 2HN	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	179.97	8,153.00	-4,673.86	-769.04	4,714.69	0.00	0.00	0.00
14,000.00	90.00	179.97	8,153.00	-4,773.86	-768.99	4,814.47	0.00	0.00	0.00
14,100.00	90.00	179.97	8,153.00	-4,873.86	-768.95	4,914.24	0.00	0.00	0.00
14,200.00	90.00	179.97	8,153.00	-4,973.86	-768.90	5,014.02	0.00	0.00	0.00
14,300.00	90.00	179.97	8,153.00	-5,073.86	-768.86	5,113.79	0.00	0.00	0.00
14,400.00	90.00	179.97	8,153.00	-5,173.86	-768.81	5,213.57	0.00	0.00	0.00
14,500.00	90.00	179.97	8,153.00	-5,273.86	-768.76	5,313.34	0.00	0.00	0.00
14,600.00	90.00	179.97	8,153.00	-5,373.86	-768.72	5,413.12	0.00	0.00	0.00
14,700.00	90.00	179.97	8,153.00	-5,473.86	-768.67	5,512.89	0.00	0.00	0.00
14,800.00	90.00	179.97	8,153.00	-5,573.86	-768.63	5,612.67	0.00	0.00	0.00
14,900.00	90.00	179.97	8,153.00	-5,673.86	-768.58	5,712.44	0.00	0.00	0.00
15,000.00	90.00	179.97	8,153.00	-5,773.86	-768.54	5,812.22	0.00	0.00	0.00
15,100.00	90.00	179.97	8,153.00	-5,873.86	-768.49	5,911.99	0.00	0.00	0.00
15,200.00	90.00	179.97	8,153.00	-5,973.86	-768.45	6,011.77	0.00	0.00	0.00
15,300.00	90.00	179.97	8,153.00	-6,073.86	-768.40	6,111.54	0.00	0.00	0.00
15,400.00	90.00	179.97	8,153.00	-6,173.86	-768.35	6,211.32	0.00	0.00	0.00
15,500.00	90.00	179.97	8,153.00	-6,273.86	-768.31	6,311.09	0.00	0.00	0.00
15,600.00	90.00	179.97	8,153.00	-6,373.86	-768.26	6,410.87	0.00	0.00	0.00
15,700.00	90.00	179.97	8,153.00	-6,473.86	-768.22	6,510.64	0.00	0.00	0.00
15,800.00	90.00	179.97	8,153.00	-6,573.86	-768.17	6,610.42	0.00	0.00	0.00
15,900.00	90.00	179.97	8,153.00	-6,673.86	-768.13	6,710.19	0.00	0.00	0.00
16,000.00	90.00	179.97	8,153.00	-6,773.86	-768.08	6,809.97	0.00	0.00	0.00
16,100.00	90.00	179.97	8,153.00	-6,873.86	-768.04	6,909.74	0.00	0.00	0.00
16,200.00	90.00	179.97	8,153.00	-6,973.86	-767.99	7,009.52	0.00	0.00	0.00
16,300.00	90.00	179.97	8,153.00	-7,073.86	-767.94	7,109.29	0.00	0.00	0.00
16,400.00	90.00	179.97	8,153.00	-7,173.86	-767.90	7,209.07	0.00	0.00	0.00
16,500.00	90.00	179.97	8,153.00	-7,273.86	-767.85	7,308.84	0.00	0.00	0.00
16,600.00	90.00	179.97	8,153.00	-7,373.86	-767.81	7,408.62	0.00	0.00	0.00
16,700.00	90.00	179.97	8,153.00	-7,473.86	-767.76	7,508.39	0.00	0.00	0.00
16,800.00	90.00	179.97	8,153.00	-7,573.86	-767.72	7,608.17	0.00	0.00	0.00
16,900.00	90.00	179.97	8,153.00	-7,673.86	-767.67	7,707.94	0.00	0.00	0.00
17,000.00	90.00	179.97	8,153.00	-7,773.86	-767.63	7,807.72	0.00	0.00	0.00
17,100.00	90.00	179.97	8,153.00	-7,873.86	-767.58	7,907.49	0.00	0.00	0.00
17,200.00	90.00	179.97	8,153.00	-7,973.86	-767.54	8,007.27	0.00	0.00	0.00
17,300.00	90.00	179.97	8,153.00	-8,073.86	-767.49	8,107.04	0.00	0.00	0.00
17,400.00	90.00	179.97	8,153.00	-8,173.86	-767.44	8,206.82	0.00	0.00	0.00
17,500.00	90.00	179.97	8,153.00	-8,273.86	-767.40	8,306.60	0.00	0.00	0.00
17,600.00	90.00	179.97	8,153.00	-8,373.86	-767.35	8,406.37	0.00	0.00	0.00
17,700.00	90.00	179.97	8,153.00	-8,473.86	-767.31	8,506.15	0.00	0.00	0.00
17,800.00	90.00	179.97	8,153.00	-8,573.86	-767.26	8,605.92	0.00	0.00	0.00
17,900.00	90.00	179.97	8,153.00	-8,673.86	-767.22	8,705.70	0.00	0.00	0.00
18,000.00	90.00	179.97	8,153.00	-8,773.86	-767.17	8,805.47	0.00	0.00	0.00
18,100.00	90.00	179.97	8,153.00	-8,873.86	-767.13	8,905.25	0.00	0.00	0.00
18,200.00	90.00	179.97	8,153.00	-8,973.86	-767.08	9,005.02	0.00	0.00	0.00
18,300.00	90.00	179.97	8,153.00	-9,073.86	-767.03	9,104.80	0.00	0.00	0.00
18,400.00	90.00	179.97	8,153.00	-9,173.86	-766.99	9,204.57	0.00	0.00	0.00
18,500.00	90.00	179.97	8,153.00	-9,273.86	-766.94	9,304.35	0.00	0.00	0.00
18,600.00	90.00	179.97	8,153.00	-9,373.86	-766.90	9,404.12	0.00	0.00	0.00
18,700.00	90.00	179.97	8,153.00	-9,473.86	-766.85	9,503.90	0.00	0.00	0.00
18,800.00	90.00	179.97	8,153.00	-9,573.86	-766.81	9,603.67	0.00	0.00	0.00
18,900.00	90.00	179.97	8,153.00	-9,673.86	-766.76	9,703.45	0.00	0.00	0.00
19,000.00	90.00	179.97	8,153.00	-9,773.86	-766.72	9,803.22	0.00	0.00	0.00
19,100.00	90.00	179.97	8,153.00	-9,873.86	-766.67	9,903.00	0.00	0.00	0.00
19,200.00	90.00	179.97	8,153.00	-9,973.86	-766.63	10,002.77	0.00	0.00	0.00

Database:	Local	Local Co-ordinate Reference:	Well REDSTONE 6-65 24-36 2HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6298.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6298.00usft
Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	REDSTONE 6-65 24-36 2HN	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	179.97	8,153.00	-10,073.86	-766.58	10,102.55	0.00	0.00	0.00
19,400.00	90.00	179.97	8,153.00	-10,173.86	-766.53	10,202.32	0.00	0.00	0.00
19,500.00	90.00	179.97	8,153.00	-10,273.86	-766.49	10,302.10	0.00	0.00	0.00
19,600.00	90.00	179.97	8,153.00	-10,373.86	-766.44	10,401.87	0.00	0.00	0.00
19,700.00	90.00	179.97	8,153.00	-10,473.86	-766.40	10,501.65	0.00	0.00	0.00
19,800.00	90.00	179.97	8,153.00	-10,573.86	-766.35	10,601.42	0.00	0.00	0.00
19,900.00	90.00	179.97	8,153.00	-10,673.86	-766.31	10,701.20	0.00	0.00	0.00
20,000.00	90.00	179.97	8,153.00	-10,773.86	-766.26	10,800.97	0.00	0.00	0.00
20,100.00	90.00	179.97	8,153.00	-10,873.86	-766.22	10,900.75	0.00	0.00	0.00
20,200.00	90.00	179.97	8,153.00	-10,973.86	-766.17	11,000.52	0.00	0.00	0.00
20,300.00	90.00	179.97	8,153.00	-11,073.86	-766.12	11,100.30	0.00	0.00	0.00
20,400.00	90.00	179.97	8,153.00	-11,173.86	-766.08	11,200.07	0.00	0.00	0.00
20,500.00	90.00	179.97	8,153.00	-11,273.86	-766.03	11,299.85	0.00	0.00	0.00
20,600.00	90.00	179.97	8,153.00	-11,373.86	-765.99	11,399.62	0.00	0.00	0.00
20,655.67	90.00	179.97	8,153.00	-11,429.53	-765.96	11,455.17	0.00	0.00	0.00
Hold: 90.00° Inc, 179.97° Azm - LTP-REDSTONE 6-65 24-36 2HN									
20,705.67	90.00	179.97	8,153.00	-11,479.53	-765.94	11,505.05	0.00	0.00	0.00
TD @ 20705.67' MD/8153.00' TVD - BHL-REDSTONE 6-65 24-36 2HN									

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: - hit/miss target - Shape - Point	0.00	0.00	0.00	0.00	0.00	1,612,079.92	3,248,884.90	39.510619	-104.617860
KOP-REDSTONE 6-6: - plan hits target center - Point	0.00	0.00	7,580.04	1,170.06	-771.70	1,613,249.98	3,248,113.21	39.513851	-104.620554
FTP-REDSTONE 6-6: - plan hits target center - Point	0.00	0.00	8,153.00	597.10	-771.44	1,612,677.02	3,248,113.47	39.512279	-104.620573
LTP-REDSTONE 6-6: - plan hits target center - Point	0.00	0.00	8,153.00	-11,429.53	-765.96	1,600,650.39	3,248,118.94	39.479261	-104.620966
BHL-REDSTONE 6-6: - plan hits target center - Point	0.00	0.00	8,153.00	-11,479.53	-765.94	1,600,600.39	3,248,118.96	39.479124	-104.620968

Database:	Local	Local Co-ordinate Reference:	Well REDSTONE 6-65 24-36 2HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6298.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6298.00usft
Site:	Marble-Redstone Pad	North Reference:	Grid
Well:	REDSTONE 6-65 24-36 2HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
513.09	513.00	Denver				
1,633.66	1,613.00	Upper Arapahoe				
2,294.43	2,258.00	Laramie - Fox Hills				
2,468.59	2,428.00	Pierre Shale (Base of Fox Hills)				
5,736.57	5,618.00	Sussex Sandstone				
8,135.15	7,953.00	Sharon Springs Shale				
8,190.20	7,993.00	Niobrara				
8,204.82	8,003.00	Niobrara A				
8,413.67	8,113.00	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	
977.10	972.11	57.07	-37.64	Hold: 12.54° Inc, 326.59° Azm	
6,801.93	6,657.93	1,112.99	-734.06	Drop: 2°/100' @ 6801.93' MD	
7,429.03	7,280.04	1,170.06	-771.70	Hold: 0.00° Inc, 326.59° Azm	
7,729.03	7,580.04	1,170.06	-771.70	KOP: 10°/100' @ 7729.03' MD	
8,629.03	8,153.00	597.10	-771.44	LP: 8629.03' MD, 90.00° Inc, 179.97° Azm	
20,655.67	8,153.00	-11,429.53	-765.96	Hold: 90.00° Inc, 179.97° Azm	
20,705.67	8,153.00	-11,479.53	-765.94	TD @ 20705.67' MD/8153.00' TVD	