



# **GMT Exploration Company, LLC**

**Elbert County, CO (NAD 83)  
Marble-Redstone Pad  
REDSTONE 6-65 24-36 10HN**

**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 10HN  
 Wellbore: Wellbore #1  
 Design: Design #1

# GMT Exploration Company, LLC

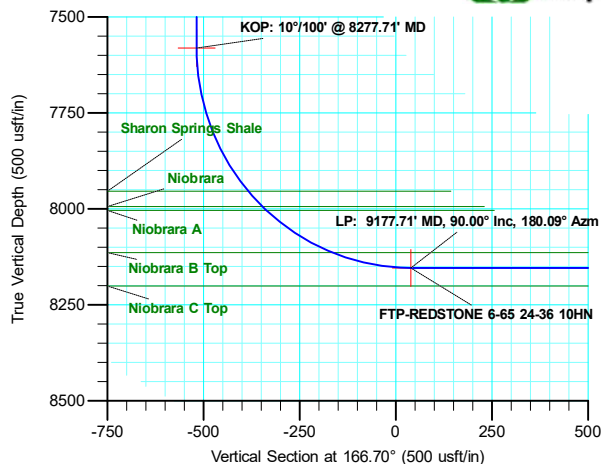
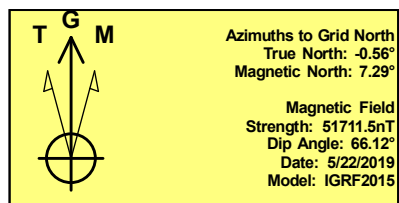
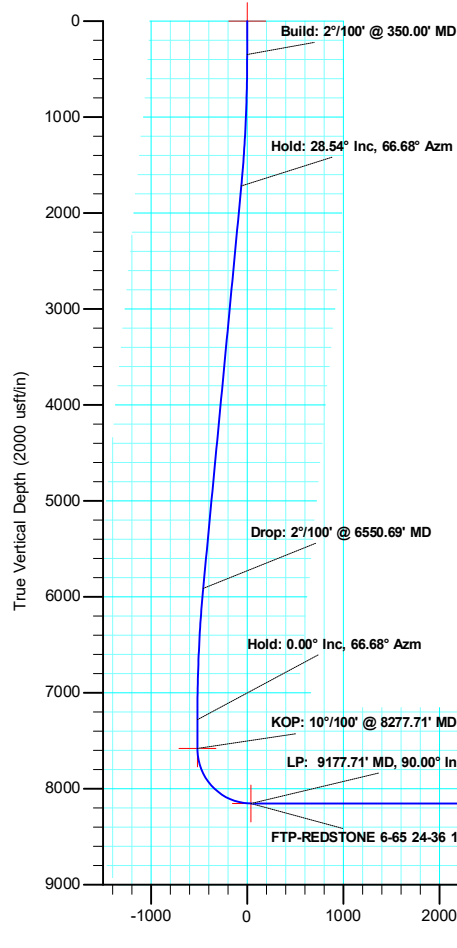
Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Colorado Central Zone  
 System Datum: Mean Sea Level

## WELL DETAILS: REDSTONE 6-65 24-36 10HN

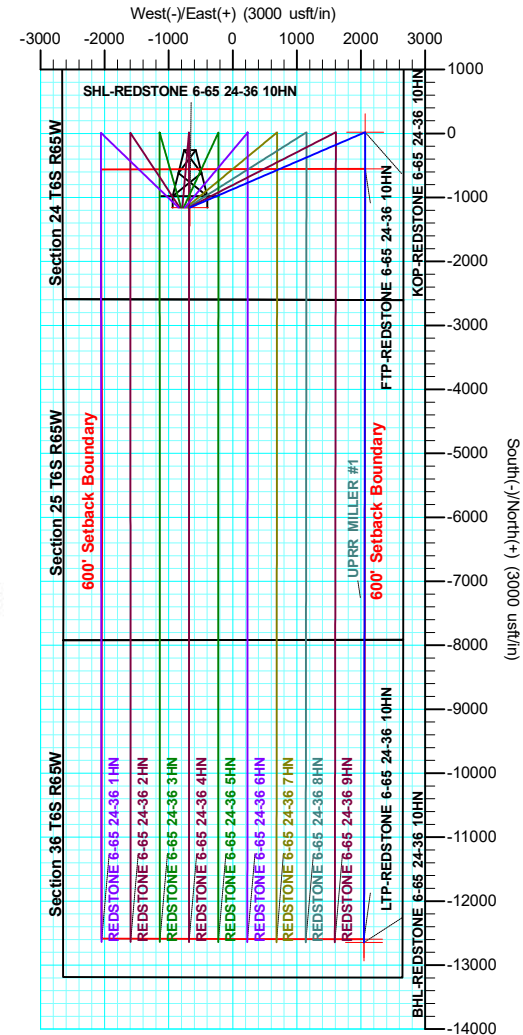
+N/-S	+E/-W	Northing	Ground Level: Easting	6279.00 Latitude	Longitude
-1157.41	-667.10	1612079.92	3249044.90	39.510614	-104.617292

## SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
0.00	0.00	0.00	0.00	-1157.41	-667.10	0.00	0.00	0.00	
350.00	0.00	0.00	350.00	-1157.41	-667.10	0.00	0.00	0.00	
1777.03	28.54	66.68	1718.74	-1019.61	-347.40	2.00	66.68	-60.57	
6550.69	28.54	66.68	5912.30	-116.83	1747.09	0.00	0.00	-457.38	
7977.71	0.00	0.00	7281.04	20.96	2066.78	2.00	180.00	-517.95	
8277.71	0.00	0.00	7581.04	20.96	2066.78	0.00	0.00	-517.95	
9177.71	90.00	180.09	8154.00	-551.99	2065.93	10.00	0.00	39.44	FTP-REDSTONE 6-65 24-36 10HN
21220.26	90.00	180.09	8154.00	-12594.52	2047.94	0.00	0.00	11754.95	LTP-REDSTONE 6-65 24-36 10HN
21270.26	90.00	180.09	8154.00	-12644.52	2047.86	0.00	0.00	11803.59	BHL-REDSTONE 6-65 24-36 10HN



SHL: 1437 FSL/ 1988 FWL Sec. 24  
 FTP: 2051 FSL/ 600 FEL Sec. 24  
 LTP: 600 FSL/ 600 FEL Sec. 36  
 BHL: 550 FSL/ 600 FEL Sec. 36



<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 10HN
<b>Company:</b>	GMT Exploration Company, LLC	<b>TVD Reference:</b>	KB @ 6299.00usft
<b>Project:</b>	Elbert County, CO (NAD 83)	<b>MD Reference:</b>	KB @ 6299.00usft
<b>Site:</b>	Marble-Redstone Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	REDSTONE 6-65 24-36 10HN	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<b>Project</b>	Elbert County, CO (NAD 83)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	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 10HN				
Well Position	+N/-S	-1,157.41 usft	Northing:	1,612,079.92 usft	Latitude:	39.510614
	+E/-W	-667.10 usft	Easting:	3,249,044.90 usft	Longitude:	-104.617293
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	6,279.00 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	5/22/2019	7.85	66.12	51,711.46401980

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	166.70

<b>Plan Survey Tool Program</b>	<b>Date</b>	5/24/2019		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	21,270.26	Design #1 (Wellbore #1)	MWD
				OWSG MWD - Standard

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
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	
1,777.03	28.54	66.68	1,718.74	137.80	319.70	2.00	2.00	0.00	66.68	
6,550.69	28.54	66.68	5,912.30	1,040.57	2,414.18	0.00	0.00	0.00	0.00	
7,977.71	0.00	0.00	7,281.04	1,178.37	2,733.88	2.00	-2.00	0.00	180.00	
8,277.71	0.00	0.00	7,581.04	1,178.37	2,733.88	0.00	0.00	0.00	0.00	
9,177.71	90.00	180.09	8,154.00	605.41	2,733.02	10.00	10.00	0.00	0.00	FTP-REDSTONE 6
21,220.26	90.00	180.09	8,154.00	-11,437.12	2,715.03	0.00	0.00	0.00	0.00	LTP-REDSTONE 6-
21,270.26	90.00	180.09	8,154.00	-11,487.12	2,714.96	0.00	0.00	0.00	0.00	BHL-REDSTONE 6

<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 10HN
<b>Company:</b>	GMT Exploration Company, LLC	<b>TVD Reference:</b>	KB @ 6299.00usft
<b>Project:</b>	Elbert County, CO (NAD 83)	<b>MD Reference:</b>	KB @ 6299.00usft
<b>Site:</b>	Marble-Redstone Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	REDSTONE 6-65 24-36 10HN	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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
<b>SHL-REDSTONE 6-65 24-36 10HN</b>									
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
<b>Build: 2°/100' @ 350.00' MD</b>									
400.00	1.00	66.68	400.00	0.17	0.40	-0.08	2.00	2.00	0.00
500.00	3.00	66.68	499.93	1.55	3.61	-0.68	2.00	2.00	0.00
600.00	5.00	66.68	599.68	4.32	10.01	-1.90	2.00	2.00	0.00
700.00	7.00	66.68	699.13	8.45	19.61	-3.72	2.00	2.00	0.00
800.00	9.00	66.68	798.15	13.96	32.39	-6.14	2.00	2.00	0.00
900.00	11.00	66.68	896.63	20.83	48.34	-9.16	2.00	2.00	0.00
1,000.00	13.00	66.68	994.44	29.06	67.43	-12.77	2.00	2.00	0.00
1,100.00	15.00	66.68	1,091.46	38.64	89.64	-16.98	2.00	2.00	0.00
1,200.00	17.00	66.68	1,187.58	49.55	114.95	-21.78	2.00	2.00	0.00
1,300.00	19.00	66.68	1,282.68	61.78	143.33	-27.16	2.00	2.00	0.00
1,400.00	21.00	66.68	1,376.65	75.32	174.74	-33.11	2.00	2.00	0.00
1,500.00	23.00	66.68	1,469.36	90.14	209.14	-39.62	2.00	2.00	0.00
1,600.00	25.00	66.68	1,560.71	106.24	246.49	-46.70	2.00	2.00	0.00
1,700.00	27.00	66.68	1,650.59	123.59	286.74	-54.33	2.00	2.00	0.00
1,777.03	28.54	66.68	1,718.74	137.80	319.70	-60.57	2.00	2.00	0.00
<b>Hold: 28.54° Inc, 66.68° Azm</b>									
1,800.00	28.54	66.68	1,738.92	142.14	329.78	-62.48	0.00	0.00	0.00
1,900.00	28.54	66.68	1,826.77	161.05	373.65	-70.79	0.00	0.00	0.00
2,000.00	28.54	66.68	1,914.62	179.97	417.53	-79.10	0.00	0.00	0.00
2,100.00	28.54	66.68	2,002.47	198.88	461.41	-87.42	0.00	0.00	0.00
2,200.00	28.54	66.68	2,090.31	217.79	505.28	-95.73	0.00	0.00	0.00
2,300.00	28.54	66.68	2,178.16	236.70	549.16	-104.04	0.00	0.00	0.00
2,400.00	28.54	66.68	2,266.01	255.61	593.03	-112.35	0.00	0.00	0.00
2,500.00	28.54	66.68	2,353.86	274.52	636.91	-120.67	0.00	0.00	0.00
2,600.00	28.54	66.68	2,441.71	293.44	680.78	-128.98	0.00	0.00	0.00
2,700.00	28.54	66.68	2,529.55	312.35	724.66	-137.29	0.00	0.00	0.00
2,800.00	28.54	66.68	2,617.40	331.26	768.54	-145.60	0.00	0.00	0.00
2,900.00	28.54	66.68	2,705.25	350.17	812.41	-153.92	0.00	0.00	0.00
3,000.00	28.54	66.68	2,793.10	369.08	856.29	-162.23	0.00	0.00	0.00
3,100.00	28.54	66.68	2,880.94	387.99	900.16	-170.54	0.00	0.00	0.00
3,200.00	28.54	66.68	2,968.79	406.90	944.04	-178.86	0.00	0.00	0.00
3,300.00	28.54	66.68	3,056.64	425.82	987.92	-187.17	0.00	0.00	0.00
3,400.00	28.54	66.68	3,144.49	444.73	1,031.79	-195.48	0.00	0.00	0.00
3,500.00	28.54	66.68	3,232.34	463.64	1,075.67	-203.79	0.00	0.00	0.00
3,600.00	28.54	66.68	3,320.18	482.55	1,119.54	-212.11	0.00	0.00	0.00
3,700.00	28.54	66.68	3,408.03	501.46	1,163.42	-220.42	0.00	0.00	0.00
3,800.00	28.54	66.68	3,495.88	520.37	1,207.29	-228.73	0.00	0.00	0.00
3,900.00	28.54	66.68	3,583.73	539.29	1,251.17	-237.04	0.00	0.00	0.00
4,000.00	28.54	66.68	3,671.58	558.20	1,295.05	-245.36	0.00	0.00	0.00
4,100.00	28.54	66.68	3,759.42	577.11	1,338.92	-253.67	0.00	0.00	0.00
4,200.00	28.54	66.68	3,847.27	596.02	1,382.80	-261.98	0.00	0.00	0.00
4,300.00	28.54	66.68	3,935.12	614.93	1,426.67	-270.29	0.00	0.00	0.00
4,400.00	28.54	66.68	4,022.97	633.84	1,470.55	-278.61	0.00	0.00	0.00
4,500.00	28.54	66.68	4,110.82	652.76	1,514.43	-286.92	0.00	0.00	0.00
4,600.00	28.54	66.68	4,198.66	671.67	1,558.30	-295.23	0.00	0.00	0.00
4,700.00	28.54	66.68	4,286.51	690.58	1,602.18	-303.54	0.00	0.00	0.00

<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 10HN
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<b>Project:</b>	Elbert County, CO (NAD 83)	<b>MD Reference:</b>	KB @ 6299.00usft
<b>Site:</b>	Marble-Redstone Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	REDSTONE 6-65 24-36 10HN	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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	28.54	66.68	4,374.36	709.49	1,646.05	-311.86	0.00	0.00	0.00	
4,900.00	28.54	66.68	4,462.21	728.40	1,689.93	-320.17	0.00	0.00	0.00	
5,000.00	28.54	66.68	4,550.06	747.31	1,733.81	-328.48	0.00	0.00	0.00	
5,100.00	28.54	66.68	4,637.90	766.23	1,777.68	-336.79	0.00	0.00	0.00	
5,200.00	28.54	66.68	4,725.75	785.14	1,821.56	-345.11	0.00	0.00	0.00	
5,300.00	28.54	66.68	4,813.60	804.05	1,865.43	-353.42	0.00	0.00	0.00	
5,400.00	28.54	66.68	4,901.45	822.96	1,909.31	-361.73	0.00	0.00	0.00	
5,500.00	28.54	66.68	4,989.30	841.87	1,953.18	-370.05	0.00	0.00	0.00	
5,600.00	28.54	66.68	5,077.14	860.78	1,997.06	-378.36	0.00	0.00	0.00	
5,700.00	28.54	66.68	5,164.99	879.69	2,040.94	-386.67	0.00	0.00	0.00	
5,800.00	28.54	66.68	5,252.84	898.61	2,084.81	-394.98	0.00	0.00	0.00	
5,900.00	28.54	66.68	5,340.69	917.52	2,128.69	-403.30	0.00	0.00	0.00	
6,000.00	28.54	66.68	5,428.54	936.43	2,172.56	-411.61	0.00	0.00	0.00	
6,100.00	28.54	66.68	5,516.38	955.34	2,216.44	-419.92	0.00	0.00	0.00	
6,200.00	28.54	66.68	5,604.23	974.25	2,260.32	-428.23	0.00	0.00	0.00	
6,300.00	28.54	66.68	5,692.08	993.16	2,304.19	-436.55	0.00	0.00	0.00	
6,400.00	28.54	66.68	5,779.93	1,012.08	2,348.07	-444.86	0.00	0.00	0.00	
6,500.00	28.54	66.68	5,867.78	1,030.99	2,391.94	-453.17	0.00	0.00	0.00	
6,550.69	28.54	66.68	5,912.30	1,040.57	2,414.18	-457.38	0.00	0.00	0.00	
<b>Drop: 2°/100' @ 6550.69' MD</b>										
6,600.00	27.55	66.68	5,955.82	1,049.75	2,435.48	-461.42	2.00	-2.00	0.00	
6,700.00	25.55	66.68	6,045.27	1,067.45	2,476.53	-469.20	2.00	-2.00	0.00	
6,800.00	23.55	66.68	6,136.22	1,083.89	2,514.69	-476.43	2.00	-2.00	0.00	
6,900.00	21.55	66.68	6,228.57	1,099.07	2,549.91	-483.10	2.00	-2.00	0.00	
7,000.00	19.55	66.68	6,322.20	1,112.97	2,582.15	-489.21	2.00	-2.00	0.00	
7,100.00	17.55	66.68	6,417.00	1,125.57	2,611.37	-494.74	2.00	-2.00	0.00	
7,200.00	15.55	66.68	6,512.85	1,136.84	2,637.53	-499.70	2.00	-2.00	0.00	
7,300.00	13.55	66.68	6,609.63	1,146.79	2,660.61	-504.07	2.00	-2.00	0.00	
7,400.00	11.55	66.68	6,707.24	1,155.39	2,680.57	-507.85	2.00	-2.00	0.00	
7,500.00	9.55	66.68	6,805.54	1,162.64	2,697.39	-511.04	2.00	-2.00	0.00	
7,600.00	7.55	66.68	6,904.42	1,168.53	2,711.05	-513.63	2.00	-2.00	0.00	
7,700.00	5.55	66.68	7,003.76	1,173.05	2,721.53	-515.61	2.00	-2.00	0.00	
7,800.00	3.55	66.68	7,103.44	1,176.19	2,728.82	-517.00	2.00	-2.00	0.00	
7,900.00	1.55	66.68	7,203.34	1,177.95	2,732.91	-517.77	2.00	-2.00	0.00	
7,977.71	0.00	0.00	7,281.04	1,178.37	2,733.88	-517.95	2.00	-2.00	0.00	
<b>Hold: 0.00° Inc, 66.68° Azm</b>										
8,000.00	0.00	0.00	7,303.33	1,178.37	2,733.88	-517.95	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,403.33	1,178.37	2,733.88	-517.95	0.00	0.00	0.00	
8,200.00	0.00	0.00	7,503.33	1,178.37	2,733.88	-517.95	0.00	0.00	0.00	
8,277.71	0.00	0.00	7,581.04	1,178.37	2,733.88	-517.95	0.00	0.00	0.00	
<b>KOP: 10°/100' @ 8277.71' MD - KOP-REDSTONE 6-65 24-36 10HN</b>										
8,300.00	2.23	180.09	7,603.32	1,177.94	2,733.88	-517.53	10.00	10.00	0.00	
8,350.00	7.23	180.09	7,653.14	1,173.82	2,733.87	-513.52	10.00	10.00	0.00	
8,400.00	12.23	180.09	7,702.40	1,165.37	2,733.86	-505.31	10.00	10.00	0.00	
8,450.00	17.23	180.09	7,750.74	1,152.66	2,733.84	-492.94	10.00	10.00	0.00	
8,500.00	22.23	180.09	7,797.79	1,135.79	2,733.82	-476.53	10.00	10.00	0.00	
8,550.00	27.23	180.09	7,843.19	1,114.88	2,733.79	-456.19	10.00	10.00	0.00	
8,600.00	32.23	180.09	7,886.60	1,090.09	2,733.75	-432.07	10.00	10.00	0.00	
8,650.00	37.23	180.09	7,927.68	1,061.62	2,733.71	-404.37	10.00	10.00	0.00	
8,700.00	42.23	180.09	7,966.12	1,029.67	2,733.66	-373.29	10.00	10.00	0.00	
8,750.00	47.23	180.09	8,001.63	994.49	2,733.61	-339.07	10.00	10.00	0.00	
8,800.00	52.23	180.09	8,033.94	956.36	2,733.55	-301.97	10.00	10.00	0.00	
8,850.00	57.23	180.09	8,062.81	915.55	2,733.49	-262.27	10.00	10.00	0.00	

<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 10HN
<b>Company:</b>	GMT Exploration Company, LLC	<b>TVD Reference:</b>	KB @ 6299.00usft
<b>Project:</b>	Elbert County, CO (NAD 83)	<b>MD Reference:</b>	KB @ 6299.00usft
<b>Site:</b>	Marble-Redstone Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	REDSTONE 6-65 24-36 10HN	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)	
8,900.00	62.23	180.09	8,088.00	872.38	2,733.42	-220.27	10.00	10.00	0.00	
8,950.00	67.23	180.09	8,109.34	827.18	2,733.36	-176.30	10.00	10.00	0.00	
9,000.00	72.23	180.09	8,126.66	780.29	2,733.29	-130.68	10.00	10.00	0.00	
9,050.00	77.23	180.09	8,139.83	732.07	2,733.21	-83.77	10.00	10.00	0.00	
9,100.00	82.23	180.09	8,148.74	682.89	2,733.14	-35.93	10.00	10.00	0.00	
9,150.00	87.23	180.09	8,153.33	633.12	2,733.07	12.49	10.00	10.00	0.00	
9,177.71	90.00	180.09	8,154.00	605.41	2,733.02	39.44	10.00	10.00	0.00	
LP: 9177.71' MD, 90.00° Inc, 180.09° Azm - FTP-REDSTONE 6-65 24-36 10HN										
9,200.00	90.00	180.09	8,154.00	583.13	2,732.99	61.13	0.00	0.00	0.00	
9,300.00	90.00	180.09	8,154.00	483.13	2,732.84	158.41	0.00	0.00	0.00	
9,400.00	90.00	180.09	8,154.00	383.13	2,732.69	255.69	0.00	0.00	0.00	
9,500.00	90.00	180.09	8,154.00	283.13	2,732.54	352.98	0.00	0.00	0.00	
9,600.00	90.00	180.09	8,154.00	183.13	2,732.39	450.26	0.00	0.00	0.00	
9,700.00	90.00	180.09	8,154.00	83.13	2,732.24	547.55	0.00	0.00	0.00	
9,800.00	90.00	180.09	8,154.00	-16.87	2,732.09	644.83	0.00	0.00	0.00	
9,900.00	90.00	180.09	8,154.00	-116.87	2,731.95	742.12	0.00	0.00	0.00	
10,000.00	90.00	180.09	8,154.00	-216.87	2,731.80	839.40	0.00	0.00	0.00	
10,100.00	90.00	180.09	8,154.00	-316.87	2,731.65	936.68	0.00	0.00	0.00	
10,200.00	90.00	180.09	8,154.00	-416.87	2,731.50	1,033.97	0.00	0.00	0.00	
10,300.00	90.00	180.09	8,154.00	-516.87	2,731.35	1,131.25	0.00	0.00	0.00	
10,400.00	90.00	180.09	8,154.00	-616.87	2,731.20	1,228.54	0.00	0.00	0.00	
10,500.00	90.00	180.09	8,154.00	-716.87	2,731.05	1,325.82	0.00	0.00	0.00	
10,600.00	90.00	180.09	8,154.00	-816.87	2,730.90	1,423.11	0.00	0.00	0.00	
10,700.00	90.00	180.09	8,154.00	-916.87	2,730.75	1,520.39	0.00	0.00	0.00	
10,800.00	90.00	180.09	8,154.00	-1,016.87	2,730.60	1,617.67	0.00	0.00	0.00	
10,900.00	90.00	180.09	8,154.00	-1,116.87	2,730.45	1,714.96	0.00	0.00	0.00	
11,000.00	90.00	180.09	8,154.00	-1,216.87	2,730.30	1,812.24	0.00	0.00	0.00	
11,100.00	90.00	180.09	8,154.00	-1,316.87	2,730.15	1,909.53	0.00	0.00	0.00	
11,200.00	90.00	180.09	8,154.00	-1,416.87	2,730.00	2,006.81	0.00	0.00	0.00	
11,300.00	90.00	180.09	8,154.00	-1,516.87	2,729.85	2,104.10	0.00	0.00	0.00	
11,400.00	90.00	180.09	8,154.00	-1,616.87	2,729.70	2,201.38	0.00	0.00	0.00	
11,500.00	90.00	180.09	8,154.00	-1,716.87	2,729.55	2,298.67	0.00	0.00	0.00	
11,600.00	90.00	180.09	8,154.00	-1,816.87	2,729.41	2,395.95	0.00	0.00	0.00	
11,700.00	90.00	180.09	8,154.00	-1,916.87	2,729.26	2,493.23	0.00	0.00	0.00	
11,800.00	90.00	180.09	8,154.00	-2,016.87	2,729.11	2,590.52	0.00	0.00	0.00	
11,900.00	90.00	180.09	8,154.00	-2,116.87	2,728.96	2,687.80	0.00	0.00	0.00	
12,000.00	90.00	180.09	8,154.00	-2,216.87	2,728.81	2,785.09	0.00	0.00	0.00	
12,100.00	90.00	180.09	8,154.00	-2,316.87	2,728.66	2,882.37	0.00	0.00	0.00	
12,200.00	90.00	180.09	8,154.00	-2,416.87	2,728.51	2,979.66	0.00	0.00	0.00	
12,300.00	90.00	180.09	8,154.00	-2,516.87	2,728.36	3,076.94	0.00	0.00	0.00	
12,400.00	90.00	180.09	8,154.00	-2,616.87	2,728.21	3,174.22	0.00	0.00	0.00	
12,500.00	90.00	180.09	8,154.00	-2,716.87	2,728.06	3,271.51	0.00	0.00	0.00	
12,600.00	90.00	180.09	8,154.00	-2,816.87	2,727.91	3,368.79	0.00	0.00	0.00	
12,700.00	90.00	180.09	8,154.00	-2,916.87	2,727.76	3,466.08	0.00	0.00	0.00	
12,800.00	90.00	180.09	8,154.00	-3,016.87	2,727.61	3,563.36	0.00	0.00	0.00	
12,900.00	90.00	180.09	8,154.00	-3,116.87	2,727.46	3,660.65	0.00	0.00	0.00	
13,000.00	90.00	180.09	8,154.00	-3,216.87	2,727.31	3,757.93	0.00	0.00	0.00	
13,100.00	90.00	180.09	8,154.00	-3,316.87	2,727.16	3,855.21	0.00	0.00	0.00	
13,200.00	90.00	180.09	8,154.00	-3,416.87	2,727.02	3,952.50	0.00	0.00	0.00	
13,300.00	90.00	180.09	8,154.00	-3,516.87	2,726.87	4,049.78	0.00	0.00	0.00	
13,400.00	90.00	180.09	8,154.00	-3,616.87	2,726.72	4,147.07	0.00	0.00	0.00	
13,500.00	90.00	180.09	8,154.00	-3,716.87	2,726.57	4,244.35	0.00	0.00	0.00	
13,600.00	90.00	180.09	8,154.00	-3,816.87	2,726.42	4,341.64	0.00	0.00	0.00	
13,700.00	90.00	180.09	8,154.00	-3,916.87	2,726.27	4,438.92	0.00	0.00	0.00	



<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 10HN
<b>Company:</b>	GMT Exploration Company, LLC	<b>TVD Reference:</b>	KB @ 6299.00usft
<b>Project:</b>	Elbert County, CO (NAD 83)	<b>MD Reference:</b>	KB @ 6299.00usft
<b>Site:</b>	Marble-Redstone Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	REDSTONE 6-65 24-36 10HN	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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	180.09	8,154.00	-4,016.87	2,726.12	4,536.20	0.00	0.00	0.00
13,900.00	90.00	180.09	8,154.00	-4,116.87	2,725.97	4,633.49	0.00	0.00	0.00
14,000.00	90.00	180.09	8,154.00	-4,216.87	2,725.82	4,730.77	0.00	0.00	0.00
14,100.00	90.00	180.09	8,154.00	-4,316.87	2,725.67	4,828.06	0.00	0.00	0.00
14,200.00	90.00	180.09	8,154.00	-4,416.87	2,725.52	4,925.34	0.00	0.00	0.00
14,300.00	90.00	180.09	8,154.00	-4,516.87	2,725.37	5,022.63	0.00	0.00	0.00
14,400.00	90.00	180.09	8,154.00	-4,616.87	2,725.22	5,119.91	0.00	0.00	0.00
14,500.00	90.00	180.09	8,154.00	-4,716.87	2,725.07	5,217.19	0.00	0.00	0.00
14,600.00	90.00	180.09	8,154.00	-4,816.87	2,724.92	5,314.48	0.00	0.00	0.00
14,700.00	90.00	180.09	8,154.00	-4,916.87	2,724.77	5,411.76	0.00	0.00	0.00
14,800.00	90.00	180.09	8,154.00	-5,016.87	2,724.62	5,509.05	0.00	0.00	0.00
14,900.00	90.00	180.09	8,154.00	-5,116.87	2,724.48	5,606.33	0.00	0.00	0.00
15,000.00	90.00	180.09	8,154.00	-5,216.87	2,724.33	5,703.62	0.00	0.00	0.00
15,100.00	90.00	180.09	8,154.00	-5,316.87	2,724.18	5,800.90	0.00	0.00	0.00
15,200.00	90.00	180.09	8,154.00	-5,416.87	2,724.03	5,898.19	0.00	0.00	0.00
15,300.00	90.00	180.09	8,154.00	-5,516.87	2,723.88	5,995.47	0.00	0.00	0.00
15,400.00	90.00	180.09	8,154.00	-5,616.87	2,723.73	6,092.75	0.00	0.00	0.00
15,500.00	90.00	180.09	8,154.00	-5,716.87	2,723.58	6,190.04	0.00	0.00	0.00
15,600.00	90.00	180.09	8,154.00	-5,816.87	2,723.43	6,287.32	0.00	0.00	0.00
15,700.00	90.00	180.09	8,154.00	-5,916.87	2,723.28	6,384.61	0.00	0.00	0.00
15,800.00	90.00	180.09	8,154.00	-6,016.87	2,723.13	6,481.89	0.00	0.00	0.00
15,900.00	90.00	180.09	8,154.00	-6,116.86	2,722.98	6,579.18	0.00	0.00	0.00
16,000.00	90.00	180.09	8,154.00	-6,216.86	2,722.83	6,676.46	0.00	0.00	0.00
16,100.00	90.00	180.09	8,154.00	-6,316.86	2,722.68	6,773.74	0.00	0.00	0.00
16,200.00	90.00	180.09	8,154.00	-6,416.86	2,722.53	6,871.03	0.00	0.00	0.00
16,300.00	90.00	180.09	8,154.00	-6,516.86	2,722.38	6,968.31	0.00	0.00	0.00
16,400.00	90.00	180.09	8,154.00	-6,616.86	2,722.23	7,065.60	0.00	0.00	0.00
16,500.00	90.00	180.09	8,154.00	-6,716.86	2,722.08	7,162.88	0.00	0.00	0.00
16,600.00	90.00	180.09	8,154.00	-6,816.86	2,721.94	7,260.17	0.00	0.00	0.00
16,700.00	90.00	180.09	8,154.00	-6,916.86	2,721.79	7,357.45	0.00	0.00	0.00
16,800.00	90.00	180.09	8,154.00	-7,016.86	2,721.64	7,454.73	0.00	0.00	0.00
16,900.00	90.00	180.09	8,154.00	-7,116.86	2,721.49	7,552.02	0.00	0.00	0.00
17,000.00	90.00	180.09	8,154.00	-7,216.86	2,721.34	7,649.30	0.00	0.00	0.00
17,100.00	90.00	180.09	8,154.00	-7,316.86	2,721.19	7,746.59	0.00	0.00	0.00
17,200.00	90.00	180.09	8,154.00	-7,416.86	2,721.04	7,843.87	0.00	0.00	0.00
17,300.00	90.00	180.09	8,154.00	-7,516.86	2,720.89	7,941.16	0.00	0.00	0.00
17,400.00	90.00	180.09	8,154.00	-7,616.86	2,720.74	8,038.44	0.00	0.00	0.00
17,500.00	90.00	180.09	8,154.00	-7,716.86	2,720.59	8,135.72	0.00	0.00	0.00
17,600.00	90.00	180.09	8,154.00	-7,816.86	2,720.44	8,233.01	0.00	0.00	0.00
17,700.00	90.00	180.09	8,154.00	-7,916.86	2,720.29	8,330.29	0.00	0.00	0.00
17,800.00	90.00	180.09	8,154.00	-8,016.86	2,720.14	8,427.58	0.00	0.00	0.00
17,900.00	90.00	180.09	8,154.00	-8,116.86	2,719.99	8,524.86	0.00	0.00	0.00
18,000.00	90.00	180.09	8,154.00	-8,216.86	2,719.84	8,622.15	0.00	0.00	0.00
18,100.00	90.00	180.09	8,154.00	-8,316.86	2,719.69	8,719.43	0.00	0.00	0.00
18,200.00	90.00	180.09	8,154.00	-8,416.86	2,719.55	8,816.72	0.00	0.00	0.00
18,300.00	90.00	180.09	8,154.00	-8,516.86	2,719.40	8,914.00	0.00	0.00	0.00
18,400.00	90.00	180.09	8,154.00	-8,616.86	2,719.25	9,011.28	0.00	0.00	0.00
18,500.00	90.00	180.09	8,154.00	-8,716.86	2,719.10	9,108.57	0.00	0.00	0.00
18,600.00	90.00	180.09	8,154.00	-8,816.86	2,718.95	9,205.85	0.00	0.00	0.00
18,700.00	90.00	180.09	8,154.00	-8,916.86	2,718.80	9,303.14	0.00	0.00	0.00
18,800.00	90.00	180.09	8,154.00	-9,016.86	2,718.65	9,400.42	0.00	0.00	0.00
18,900.00	90.00	180.09	8,154.00	-9,116.86	2,718.50	9,497.71	0.00	0.00	0.00
19,000.00	90.00	180.09	8,154.00	-9,216.86	2,718.35	9,594.99	0.00	0.00	0.00
19,100.00	90.00	180.09	8,154.00	-9,316.86	2,718.20	9,692.27	0.00	0.00	0.00

<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 10HN
<b>Company:</b>	GMT Exploration Company, LLC	<b>TVD Reference:</b>	KB @ 6299.00usft
<b>Project:</b>	Elbert County, CO (NAD 83)	<b>MD Reference:</b>	KB @ 6299.00usft
<b>Site:</b>	Marble-Redstone Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	REDSTONE 6-65 24-36 10HN	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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	180.09	8,154.00	-9,416.86	2,718.05	9,789.56	0.00	0.00	0.00	
19,300.00	90.00	180.09	8,154.00	-9,516.86	2,717.90	9,886.84	0.00	0.00	0.00	
19,400.00	90.00	180.09	8,154.00	-9,616.86	2,717.75	9,984.13	0.00	0.00	0.00	
19,500.00	90.00	180.09	8,154.00	-9,716.86	2,717.60	10,081.41	0.00	0.00	0.00	
19,600.00	90.00	180.09	8,154.00	-9,816.86	2,717.45	10,178.70	0.00	0.00	0.00	
19,700.00	90.00	180.09	8,154.00	-9,916.86	2,717.30	10,275.98	0.00	0.00	0.00	
19,800.00	90.00	180.09	8,154.00	-10,016.86	2,717.15	10,373.26	0.00	0.00	0.00	
19,900.00	90.00	180.09	8,154.00	-10,116.86	2,717.01	10,470.55	0.00	0.00	0.00	
20,000.00	90.00	180.09	8,154.00	-10,216.86	2,716.86	10,567.83	0.00	0.00	0.00	
20,100.00	90.00	180.09	8,154.00	-10,316.86	2,716.71	10,665.12	0.00	0.00	0.00	
20,200.00	90.00	180.09	8,154.00	-10,416.86	2,716.56	10,762.40	0.00	0.00	0.00	
20,300.00	90.00	180.09	8,154.00	-10,516.86	2,716.41	10,859.69	0.00	0.00	0.00	
20,400.00	90.00	180.09	8,154.00	-10,616.86	2,716.26	10,956.97	0.00	0.00	0.00	
20,500.00	90.00	180.09	8,154.00	-10,716.86	2,716.11	11,054.25	0.00	0.00	0.00	
20,600.00	90.00	180.09	8,154.00	-10,816.86	2,715.96	11,151.54	0.00	0.00	0.00	
20,700.00	90.00	180.09	8,154.00	-10,916.86	2,715.81	11,248.82	0.00	0.00	0.00	
20,800.00	90.00	180.09	8,154.00	-11,016.86	2,715.66	11,346.11	0.00	0.00	0.00	
20,900.00	90.00	180.09	8,154.00	-11,116.86	2,715.51	11,443.39	0.00	0.00	0.00	
21,000.00	90.00	180.09	8,154.00	-11,216.86	2,715.36	11,540.68	0.00	0.00	0.00	
21,100.00	90.00	180.09	8,154.00	-11,316.86	2,715.21	11,637.96	0.00	0.00	0.00	
21,200.00	90.00	180.09	8,154.00	-11,416.86	2,715.06	11,735.25	0.00	0.00	0.00	
21,220.26	90.00	180.09	8,154.00	-11,437.12	2,715.03	11,754.95	0.00	0.00	0.00	
<b>Hold: 90.00° Inc, 180.09° Azm - LTP-REDSTONE 6-65 24-36 10HN</b>										
21,270.26	90.00	180.09	8,154.00	-11,487.12	2,714.96	11,803.59	0.00	0.00	0.00	
<b>TD @ 21270.26' MD/8154.00' TVD - BHL-REDSTONE 6-65 24-36 10HN</b>										

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	3,249,044.90	39.510614	-104.617293	
KOP-REDSTONE 6-6: - plan hits target center - Point	0.00	0.00	7,581.04	1,178.37	2,733.88	1,613,258.29	3,251,778.78	39.513776	-104.607562	
LTP-REDSTONE 6-6: - plan hits target center - Point	0.00	0.00	8,154.00	-11,437.12	2,715.03	1,600,642.80	3,251,759.94	39.479143	-104.608068	
BHL-REDSTONE 6-6: - plan hits target center - Point	0.00	0.00	8,154.00	-11,487.12	2,714.96	1,600,592.80	3,251,759.86	39.479006	-104.608070	
FTP-REDSTONE 6-6: - plan hits target center - Point	0.00	0.00	8,154.00	605.41	2,733.02	1,612,685.33	3,251,777.93	39.512203	-104.607585	



<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 10HN
<b>Company:</b>	GMT Exploration Company, LLC	<b>TVD Reference:</b>	KB @ 6299.00usft
<b>Project:</b>	Elbert County, CO (NAD 83)	<b>MD Reference:</b>	KB @ 6299.00usft
<b>Site:</b>	Marble-Redstone Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	REDSTONE 6-65 24-36 10HN	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
514.09	514.00	Denver				
1,659.08	1,614.00	Upper Arapahoe				
2,392.02	2,259.00	Laramie - Fox Hills				
2,585.54	2,429.00	Pierre Shale (Base of Fox Hills)				
6,216.81	5,619.00	Sussex Sandstone				
8,683.83	7,954.00	Sharon Springs Shale				
8,738.88	7,994.00	Niobrara				
8,753.50	8,004.00	Niobrara A				
8,962.35	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	
1,777.03	1,718.74	137.80	319.70	Hold: 28.54° Inc, 66.68° Azm	
6,550.69	5,912.30	1,040.57	2,414.18	Drop: 2°/100' @ 6550.69' MD	
7,977.71	7,281.04	1,178.37	2,733.88	Hold: 0.00° Inc, 66.68° Azm	
8,277.71	7,581.04	1,178.37	2,733.88	KOP: 10°/100' @ 8277.71' MD	
9,177.71	8,154.00	605.41	2,733.02	LP: 9177.71' MD, 90.00° Inc, 180.09° Azm	
21,220.26	8,154.00	-11,437.12	2,715.03	Hold: 90.00° Inc, 180.09° Azm	
21,270.26	8,154.00	-11,487.12	2,714.96	TD @ 21270.26' MD/8154.00' TVD	