



# **GMT Exploration Company, LLC**

**Elbert County, CO (NAD 83)**

**Marble-Redstone Pad**

**REDSTONE 6-65 24-36 9HN**

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

# GMT Exploration Company, LLC

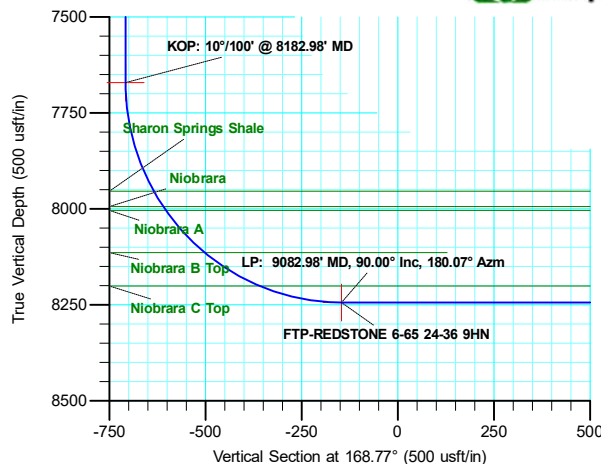
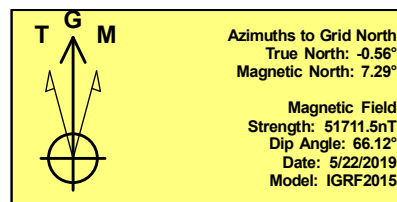
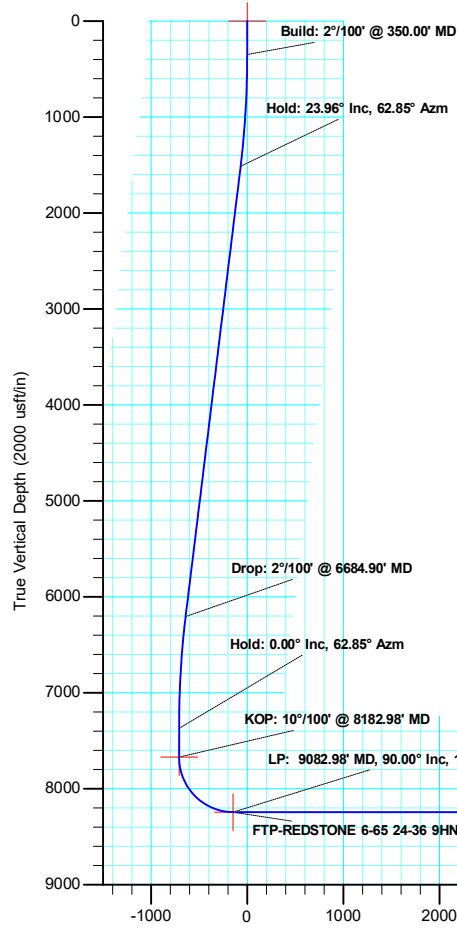
Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Colorado Central Zone  
 System Datum: Mean Sea Level

## WELL DETAILS: REDSTONE 6-65 24-36 9HN

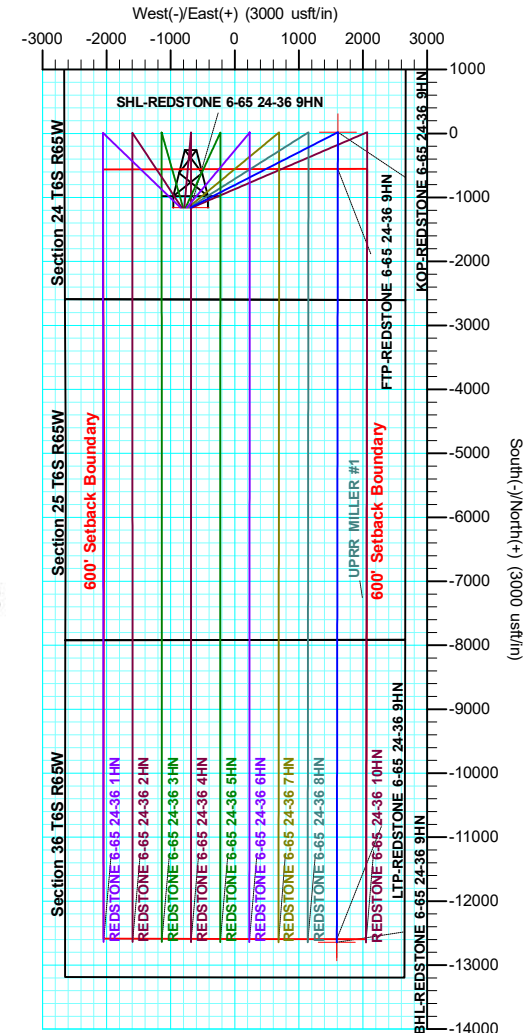
+N/-S	+E/-W	Northing	Ground Level: Easting	6279.00 Latitude	Longitude
-1157.41	-687.10	1612079.92	3249024.90	39.510615	-104.617363

## SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
0.00	0.00	0.00	0.00	-1157.41	-687.10	0.00	0.00	0.00	
350.00	0.00	0.00	350.00	-1157.41	-687.10	0.00	0.00	0.00	
1548.08	23.96	62.85	1513.46	-1044.74	-467.41	2.00	62.85	-67.74	
6684.90	23.96	62.85	6207.58	-92.74	1388.90	0.00	0.00	-640.12	
7882.98	0.00	0.00	7371.04	19.93	1608.59	2.00	180.00	-707.86	
8182.98	0.00	0.00	7671.04	19.93	1608.59	0.00	0.00	-707.86	
9082.98	90.00	180.07	8244.00	-553.03	1607.87	10.00	0.00	-146.01	FTP-REDSTONE 6-65 24-36 9HN
21123.58	90.00	180.07	8244.00	-12593.62	1592.81	0.00	0.00	11661.25	LTP-REDSTONE 6-65 24-36 9HN
21173.58	90.00	180.07	8244.00	-12643.62	1592.75	0.00	0.00	11710.28	BHL-REDSTONE 6-65 24-36 9HN



SHL: 1437 FSL/ 1968 FWL Sec. 24  
 FTP: 2049 FSL/ 1058 FEL Sec. 24  
 LTP: 600 FSL/ 1055 FEL Sec. 36  
 BHL: 550 FSL/ 1055 FEL Sec. 36



<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 9HN
<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 9HN	<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 9HN				
Well Position	+N/-S	-1,157.41 usft	Northing:	1,612,079.92 usft	Latitude:	39.510615
	+E/-W	-687.10 usft	Easting:	3,249,024.90 usft	Longitude:	-104.617363
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	51,711.45684422

<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	168.77

<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	21,173.58	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	
1,548.08	23.96	62.85	1,513.46	112.67	219.69	2.00	2.00	0.00	62.85	
6,684.90	23.96	62.85	6,207.58	1,064.67	2,076.00	0.00	0.00	0.00	0.00	
7,882.98	0.00	0.00	7,371.04	1,177.33	2,295.69	2.00	-2.00	0.00	180.00	
8,182.98	0.00	0.00	7,671.04	1,177.33	2,295.69	0.00	0.00	0.00	0.00	
9,082.98	90.00	180.07	8,244.00	604.38	2,294.97	10.00	10.00	0.00	0.00	FTP-REDSTONE 6
21,123.58	90.00	180.07	8,244.00	-11,436.21	2,279.91	0.00	0.00	0.00	0.00	LTP-REDSTONE 6-
21,173.58	90.00	180.07	8,244.00	-11,486.21	2,279.85	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 9HN
<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 9HN	<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 9HN</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	62.85	400.00	0.20	0.39	-0.12	2.00	2.00	0.00
500.00	3.00	62.85	499.93	1.79	3.49	-1.08	2.00	2.00	0.00
600.00	5.00	62.85	599.68	4.97	9.70	-2.99	2.00	2.00	0.00
700.00	7.00	62.85	699.13	9.74	19.00	-5.86	2.00	2.00	0.00
800.00	9.00	62.85	798.15	16.10	31.38	-9.68	2.00	2.00	0.00
900.00	11.00	62.85	896.63	24.02	46.83	-14.44	2.00	2.00	0.00
1,000.00	13.00	62.85	994.44	33.51	65.33	-20.15	2.00	2.00	0.00
1,100.00	15.00	62.85	1,091.46	44.55	86.86	-26.78	2.00	2.00	0.00
1,200.00	17.00	62.85	1,187.58	57.12	111.38	-34.34	2.00	2.00	0.00
1,300.00	19.00	62.85	1,282.68	71.22	138.88	-42.82	2.00	2.00	0.00
1,400.00	21.00	62.85	1,376.65	86.83	169.31	-52.21	2.00	2.00	0.00
1,500.00	23.00	62.85	1,469.36	103.92	202.64	-62.48	2.00	2.00	0.00
1,548.08	23.96	62.85	1,513.46	112.67	219.69	-67.74	2.00	2.00	0.00
<b>Hold: 23.96° Inc, 62.85° Azm</b>									
1,600.00	23.96	62.85	1,560.91	122.29	238.45	-73.53	0.00	0.00	0.00
1,700.00	23.96	62.85	1,652.29	140.82	274.59	-84.67	0.00	0.00	0.00
1,800.00	23.96	62.85	1,743.67	159.35	310.73	-95.81	0.00	0.00	0.00
1,900.00	23.96	62.85	1,835.05	177.89	346.86	-106.95	0.00	0.00	0.00
2,000.00	23.96	62.85	1,926.43	196.42	383.00	-118.10	0.00	0.00	0.00
2,100.00	23.96	62.85	2,017.81	214.95	419.14	-129.24	0.00	0.00	0.00
2,200.00	23.96	62.85	2,109.20	233.49	455.27	-140.38	0.00	0.00	0.00
2,300.00	23.96	62.85	2,200.58	252.02	491.41	-151.52	0.00	0.00	0.00
2,400.00	23.96	62.85	2,291.96	270.55	527.55	-162.67	0.00	0.00	0.00
2,500.00	23.96	62.85	2,383.34	289.08	563.69	-173.81	0.00	0.00	0.00
2,600.00	23.96	62.85	2,474.72	307.62	599.82	-184.95	0.00	0.00	0.00
2,700.00	23.96	62.85	2,566.11	326.15	635.96	-196.10	0.00	0.00	0.00
2,800.00	23.96	62.85	2,657.49	344.68	672.10	-207.24	0.00	0.00	0.00
2,900.00	23.96	62.85	2,748.87	363.22	708.24	-218.38	0.00	0.00	0.00
3,000.00	23.96	62.85	2,840.25	381.75	744.37	-229.52	0.00	0.00	0.00
3,100.00	23.96	62.85	2,931.63	400.28	780.51	-240.67	0.00	0.00	0.00
3,200.00	23.96	62.85	3,023.01	418.81	816.65	-251.81	0.00	0.00	0.00
3,300.00	23.96	62.85	3,114.40	437.35	852.78	-262.95	0.00	0.00	0.00
3,400.00	23.96	62.85	3,205.78	455.88	888.92	-274.09	0.00	0.00	0.00
3,500.00	23.96	62.85	3,297.16	474.41	925.06	-285.24	0.00	0.00	0.00
3,600.00	23.96	62.85	3,388.54	492.95	961.20	-296.38	0.00	0.00	0.00
3,700.00	23.96	62.85	3,479.92	511.48	997.33	-307.52	0.00	0.00	0.00
3,800.00	23.96	62.85	3,571.30	530.01	1,033.47	-318.67	0.00	0.00	0.00
3,900.00	23.96	62.85	3,662.69	548.54	1,069.61	-329.81	0.00	0.00	0.00
4,000.00	23.96	62.85	3,754.07	567.08	1,105.75	-340.95	0.00	0.00	0.00
4,100.00	23.96	62.85	3,845.45	585.61	1,141.88	-352.09	0.00	0.00	0.00
4,200.00	23.96	62.85	3,936.83	604.14	1,178.02	-363.24	0.00	0.00	0.00
4,300.00	23.96	62.85	4,028.21	622.68	1,214.16	-374.38	0.00	0.00	0.00
4,400.00	23.96	62.85	4,119.60	641.21	1,250.29	-385.52	0.00	0.00	0.00
4,500.00	23.96	62.85	4,210.98	659.74	1,286.43	-396.67	0.00	0.00	0.00
4,600.00	23.96	62.85	4,302.36	678.27	1,322.57	-407.81	0.00	0.00	0.00
4,700.00	23.96	62.85	4,393.74	696.81	1,358.71	-418.95	0.00	0.00	0.00

<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 9HN
<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 9HN	<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	23.96	62.85	4,485.12	715.34	1,394.84	-430.09	0.00	0.00	0.00
4,900.00	23.96	62.85	4,576.50	733.87	1,430.98	-441.24	0.00	0.00	0.00
5,000.00	23.96	62.85	4,667.89	752.41	1,467.12	-452.38	0.00	0.00	0.00
5,100.00	23.96	62.85	4,759.27	770.94	1,503.26	-463.52	0.00	0.00	0.00
5,200.00	23.96	62.85	4,850.65	789.47	1,539.39	-474.66	0.00	0.00	0.00
5,300.00	23.96	62.85	4,942.03	808.00	1,575.53	-485.81	0.00	0.00	0.00
5,400.00	23.96	62.85	5,033.41	826.54	1,611.67	-496.95	0.00	0.00	0.00
5,500.00	23.96	62.85	5,124.80	845.07	1,647.81	-508.09	0.00	0.00	0.00
5,600.00	23.96	62.85	5,216.18	863.60	1,683.94	-519.24	0.00	0.00	0.00
5,700.00	23.96	62.85	5,307.56	882.14	1,720.08	-530.38	0.00	0.00	0.00
5,800.00	23.96	62.85	5,398.94	900.67	1,756.22	-541.52	0.00	0.00	0.00
5,900.00	23.96	62.85	5,490.32	919.20	1,792.35	-552.66	0.00	0.00	0.00
6,000.00	23.96	62.85	5,581.70	937.73	1,828.49	-563.81	0.00	0.00	0.00
6,100.00	23.96	62.85	5,673.09	956.27	1,864.63	-574.95	0.00	0.00	0.00
6,200.00	23.96	62.85	5,764.47	974.80	1,900.77	-586.09	0.00	0.00	0.00
6,300.00	23.96	62.85	5,855.85	993.33	1,936.90	-597.23	0.00	0.00	0.00
6,400.00	23.96	62.85	5,947.23	1,011.87	1,973.04	-608.38	0.00	0.00	0.00
6,500.00	23.96	62.85	6,038.61	1,030.40	2,009.18	-619.52	0.00	0.00	0.00
6,600.00	23.96	62.85	6,129.99	1,048.93	2,045.32	-630.66	0.00	0.00	0.00
6,684.90	23.96	62.85	6,207.58	1,064.67	2,076.00	-640.12	0.00	0.00	0.00
<b>Drop: 2°/100' @ 6684.90' MD</b>									
6,700.00	23.66	62.85	6,221.39	1,067.45	2,081.42	-641.80	2.00	-2.00	0.00
6,800.00	21.66	62.85	6,313.67	1,085.03	2,115.70	-652.37	2.00	-2.00	0.00
6,900.00	19.66	62.85	6,407.23	1,101.13	2,147.09	-662.05	2.00	-2.00	0.00
7,000.00	17.66	62.85	6,501.97	1,115.73	2,175.56	-670.82	2.00	-2.00	0.00
7,100.00	15.66	62.85	6,597.77	1,128.81	2,201.07	-678.69	2.00	-2.00	0.00
7,200.00	13.66	62.85	6,694.51	1,140.36	2,223.59	-685.63	2.00	-2.00	0.00
7,300.00	11.66	62.85	6,792.07	1,150.36	2,243.09	-691.64	2.00	-2.00	0.00
7,400.00	9.66	62.85	6,890.34	1,158.80	2,259.54	-696.72	2.00	-2.00	0.00
7,500.00	7.66	62.85	6,989.20	1,165.67	2,272.94	-700.85	2.00	-2.00	0.00
7,600.00	5.66	62.85	7,088.52	1,170.96	2,283.26	-704.03	2.00	-2.00	0.00
7,700.00	3.66	62.85	7,188.18	1,174.67	2,290.49	-706.26	2.00	-2.00	0.00
7,800.00	1.66	62.85	7,288.07	1,176.78	2,294.62	-707.53	2.00	-2.00	0.00
7,882.98	0.00	0.00	7,371.04	1,177.33	2,295.69	-707.86	2.00	-2.00	0.00
<b>Hold: 0.00° Inc, 62.85° Azm</b>									
7,900.00	0.00	0.00	7,388.06	1,177.33	2,295.69	-707.86	0.00	0.00	0.00
8,000.00	0.00	0.00	7,488.06	1,177.33	2,295.69	-707.86	0.00	0.00	0.00
8,100.00	0.00	0.00	7,588.06	1,177.33	2,295.69	-707.86	0.00	0.00	0.00
8,182.98	0.00	0.00	7,671.04	1,177.33	2,295.69	-707.86	0.00	0.00	0.00
<b>KOP: 10°/100' @ 8182.98' MD - KOP-REDSTONE 6-65 24-36 9HN</b>									
8,200.00	1.70	180.07	7,688.06	1,177.08	2,295.69	-707.62	10.00	10.00	0.00
8,250.00	6.70	180.07	7,737.91	1,173.42	2,295.68	-704.02	10.00	10.00	0.00
8,300.00	11.70	180.07	7,787.25	1,165.43	2,295.67	-696.19	10.00	10.00	0.00
8,350.00	16.70	180.07	7,835.70	1,153.16	2,295.66	-684.16	10.00	10.00	0.00
8,400.00	21.70	180.07	7,882.91	1,136.72	2,295.63	-668.04	10.00	10.00	0.00
8,450.00	26.70	180.07	7,928.50	1,116.23	2,295.61	-647.95	10.00	10.00	0.00
8,500.00	31.70	180.07	7,972.13	1,091.85	2,295.58	-624.03	10.00	10.00	0.00
8,550.00	36.70	180.07	8,013.47	1,063.75	2,295.54	-596.48	10.00	10.00	0.00
8,600.00	41.70	180.07	8,052.20	1,032.16	2,295.50	-565.50	10.00	10.00	0.00
8,650.00	46.70	180.07	8,088.04	997.31	2,295.46	-531.33	10.00	10.00	0.00
8,700.00	51.70	180.07	8,120.70	959.47	2,295.41	-494.22	10.00	10.00	0.00
8,750.00	56.70	180.07	8,149.93	918.93	2,295.36	-454.47	10.00	10.00	0.00
8,800.00	61.70	180.07	8,175.53	875.99	2,295.31	-412.36	10.00	10.00	0.00

<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 9HN
<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 9HN	<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)
8,850.00	66.70	180.07	8,197.28	830.99	2,295.25	-368.23	10.00	10.00	0.00
8,900.00	71.70	180.07	8,215.03	784.27	2,295.19	-322.41	10.00	10.00	0.00
8,950.00	76.70	180.07	8,228.64	736.17	2,295.13	-275.25	10.00	10.00	0.00
9,000.00	81.70	180.07	8,238.00	687.07	2,295.07	-227.10	10.00	10.00	0.00
9,050.00	86.70	180.07	8,243.05	637.34	2,295.01	-178.34	10.00	10.00	0.00
9,082.98	90.00	180.07	8,244.00	604.38	2,294.97	-146.01	10.00	10.00	0.00
LP: 9082.98' MD, 90.00° Inc, 180.07° Azm - FTP-REDSTONE 6-65 24-36 9HN									
9,100.00	90.00	180.07	8,244.00	587.36	2,294.95	-129.32	0.00	0.00	0.00
9,200.00	90.00	180.07	8,244.00	487.36	2,294.82	-31.26	0.00	0.00	0.00
9,300.00	90.00	180.07	8,244.00	387.36	2,294.70	66.80	0.00	0.00	0.00
9,400.00	90.00	180.07	8,244.00	287.36	2,294.57	164.86	0.00	0.00	0.00
9,500.00	90.00	180.07	8,244.00	187.36	2,294.45	262.92	0.00	0.00	0.00
9,600.00	90.00	180.07	8,244.00	87.36	2,294.32	360.99	0.00	0.00	0.00
9,700.00	90.00	180.07	8,244.00	-12.64	2,294.20	459.05	0.00	0.00	0.00
9,800.00	90.00	180.07	8,244.00	-112.64	2,294.07	557.11	0.00	0.00	0.00
9,900.00	90.00	180.07	8,244.00	-212.64	2,293.95	655.17	0.00	0.00	0.00
10,000.00	90.00	180.07	8,244.00	-312.64	2,293.82	753.24	0.00	0.00	0.00
10,100.00	90.00	180.07	8,244.00	-412.64	2,293.70	851.30	0.00	0.00	0.00
10,200.00	90.00	180.07	8,244.00	-512.64	2,293.57	949.36	0.00	0.00	0.00
10,300.00	90.00	180.07	8,244.00	-612.64	2,293.45	1,047.42	0.00	0.00	0.00
10,400.00	90.00	180.07	8,244.00	-712.64	2,293.32	1,145.48	0.00	0.00	0.00
10,500.00	90.00	180.07	8,244.00	-812.64	2,293.20	1,243.55	0.00	0.00	0.00
10,600.00	90.00	180.07	8,244.00	-912.64	2,293.07	1,341.61	0.00	0.00	0.00
10,700.00	90.00	180.07	8,244.00	-1,012.64	2,292.95	1,439.67	0.00	0.00	0.00
10,800.00	90.00	180.07	8,244.00	-1,112.64	2,292.82	1,537.73	0.00	0.00	0.00
10,900.00	90.00	180.07	8,244.00	-1,212.64	2,292.70	1,635.79	0.00	0.00	0.00
11,000.00	90.00	180.07	8,244.00	-1,312.64	2,292.57	1,733.86	0.00	0.00	0.00
11,100.00	90.00	180.07	8,244.00	-1,412.64	2,292.45	1,831.92	0.00	0.00	0.00
11,200.00	90.00	180.07	8,244.00	-1,512.64	2,292.32	1,929.98	0.00	0.00	0.00
11,300.00	90.00	180.07	8,244.00	-1,612.64	2,292.20	2,028.04	0.00	0.00	0.00
11,400.00	90.00	180.07	8,244.00	-1,712.64	2,292.07	2,126.10	0.00	0.00	0.00
11,500.00	90.00	180.07	8,244.00	-1,812.64	2,291.95	2,224.17	0.00	0.00	0.00
11,600.00	90.00	180.07	8,244.00	-1,912.64	2,291.82	2,322.23	0.00	0.00	0.00
11,700.00	90.00	180.07	8,244.00	-2,012.64	2,291.70	2,420.29	0.00	0.00	0.00
11,800.00	90.00	180.07	8,244.00	-2,112.64	2,291.57	2,518.35	0.00	0.00	0.00
11,900.00	90.00	180.07	8,244.00	-2,212.64	2,291.45	2,616.42	0.00	0.00	0.00
12,000.00	90.00	180.07	8,244.00	-2,312.64	2,291.32	2,714.48	0.00	0.00	0.00
12,100.00	90.00	180.07	8,244.00	-2,412.64	2,291.20	2,812.54	0.00	0.00	0.00
12,200.00	90.00	180.07	8,244.00	-2,512.64	2,291.07	2,910.60	0.00	0.00	0.00
12,300.00	90.00	180.07	8,244.00	-2,612.64	2,290.95	3,008.66	0.00	0.00	0.00
12,400.00	90.00	180.07	8,244.00	-2,712.64	2,290.82	3,106.73	0.00	0.00	0.00
12,500.00	90.00	180.07	8,244.00	-2,812.64	2,290.70	3,204.79	0.00	0.00	0.00
12,600.00	90.00	180.07	8,244.00	-2,912.64	2,290.57	3,302.85	0.00	0.00	0.00
12,700.00	90.00	180.07	8,244.00	-3,012.64	2,290.45	3,400.91	0.00	0.00	0.00
12,800.00	90.00	180.07	8,244.00	-3,112.64	2,290.32	3,498.97	0.00	0.00	0.00
12,900.00	90.00	180.07	8,244.00	-3,212.64	2,290.20	3,597.04	0.00	0.00	0.00
13,000.00	90.00	180.07	8,244.00	-3,312.64	2,290.07	3,695.10	0.00	0.00	0.00
13,100.00	90.00	180.07	8,244.00	-3,412.64	2,289.94	3,793.16	0.00	0.00	0.00
13,200.00	90.00	180.07	8,244.00	-3,512.64	2,289.82	3,891.22	0.00	0.00	0.00
13,300.00	90.00	180.07	8,244.00	-3,612.64	2,289.69	3,989.28	0.00	0.00	0.00
13,400.00	90.00	180.07	8,244.00	-3,712.64	2,289.57	4,087.35	0.00	0.00	0.00
13,500.00	90.00	180.07	8,244.00	-3,812.64	2,289.44	4,185.41	0.00	0.00	0.00
13,600.00	90.00	180.07	8,244.00	-3,912.64	2,289.32	4,283.47	0.00	0.00	0.00
13,700.00	90.00	180.07	8,244.00	-4,012.64	2,289.19	4,381.53	0.00	0.00	0.00





<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 9HN
<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 9HN	<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	180.07	8,244.00	-4,112.64	2,289.07	4,479.60	0.00	0.00	0.00
13,900.00	90.00	180.07	8,244.00	-4,212.64	2,288.94	4,577.66	0.00	0.00	0.00
14,000.00	90.00	180.07	8,244.00	-4,312.64	2,288.82	4,675.72	0.00	0.00	0.00
14,100.00	90.00	180.07	8,244.00	-4,412.64	2,288.69	4,773.78	0.00	0.00	0.00
14,200.00	90.00	180.07	8,244.00	-4,512.64	2,288.57	4,871.84	0.00	0.00	0.00
14,300.00	90.00	180.07	8,244.00	-4,612.64	2,288.44	4,969.91	0.00	0.00	0.00
14,400.00	90.00	180.07	8,244.00	-4,712.64	2,288.32	5,067.97	0.00	0.00	0.00
14,500.00	90.00	180.07	8,244.00	-4,812.64	2,288.19	5,166.03	0.00	0.00	0.00
14,600.00	90.00	180.07	8,244.00	-4,912.64	2,288.07	5,264.09	0.00	0.00	0.00
14,700.00	90.00	180.07	8,244.00	-5,012.64	2,287.94	5,362.15	0.00	0.00	0.00
14,800.00	90.00	180.07	8,244.00	-5,112.64	2,287.82	5,460.22	0.00	0.00	0.00
14,900.00	90.00	180.07	8,244.00	-5,212.64	2,287.69	5,558.28	0.00	0.00	0.00
15,000.00	90.00	180.07	8,244.00	-5,312.63	2,287.57	5,656.34	0.00	0.00	0.00
15,100.00	90.00	180.07	8,244.00	-5,412.63	2,287.44	5,754.40	0.00	0.00	0.00
15,200.00	90.00	180.07	8,244.00	-5,512.63	2,287.32	5,852.46	0.00	0.00	0.00
15,300.00	90.00	180.07	8,244.00	-5,612.63	2,287.19	5,950.53	0.00	0.00	0.00
15,400.00	90.00	180.07	8,244.00	-5,712.63	2,287.07	6,048.59	0.00	0.00	0.00
15,500.00	90.00	180.07	8,244.00	-5,812.63	2,286.94	6,146.65	0.00	0.00	0.00
15,600.00	90.00	180.07	8,244.00	-5,912.63	2,286.82	6,244.71	0.00	0.00	0.00
15,700.00	90.00	180.07	8,244.00	-6,012.63	2,286.69	6,342.78	0.00	0.00	0.00
15,800.00	90.00	180.07	8,244.00	-6,112.63	2,286.57	6,440.84	0.00	0.00	0.00
15,900.00	90.00	180.07	8,244.00	-6,212.63	2,286.44	6,538.90	0.00	0.00	0.00
16,000.00	90.00	180.07	8,244.00	-6,312.63	2,286.32	6,636.96	0.00	0.00	0.00
16,100.00	90.00	180.07	8,244.00	-6,412.63	2,286.19	6,735.02	0.00	0.00	0.00
16,200.00	90.00	180.07	8,244.00	-6,512.63	2,286.07	6,833.09	0.00	0.00	0.00
16,300.00	90.00	180.07	8,244.00	-6,612.63	2,285.94	6,931.15	0.00	0.00	0.00
16,400.00	90.00	180.07	8,244.00	-6,712.63	2,285.82	7,029.21	0.00	0.00	0.00
16,500.00	90.00	180.07	8,244.00	-6,812.63	2,285.69	7,127.27	0.00	0.00	0.00
16,600.00	90.00	180.07	8,244.00	-6,912.63	2,285.57	7,225.33	0.00	0.00	0.00
16,700.00	90.00	180.07	8,244.00	-7,012.63	2,285.44	7,323.40	0.00	0.00	0.00
16,800.00	90.00	180.07	8,244.00	-7,112.63	2,285.32	7,421.46	0.00	0.00	0.00
16,900.00	90.00	180.07	8,244.00	-7,212.63	2,285.19	7,519.52	0.00	0.00	0.00
17,000.00	90.00	180.07	8,244.00	-7,312.63	2,285.07	7,617.58	0.00	0.00	0.00
17,100.00	90.00	180.07	8,244.00	-7,412.63	2,284.94	7,715.64	0.00	0.00	0.00
17,200.00	90.00	180.07	8,244.00	-7,512.63	2,284.82	7,813.71	0.00	0.00	0.00
17,300.00	90.00	180.07	8,244.00	-7,612.63	2,284.69	7,911.77	0.00	0.00	0.00
17,400.00	90.00	180.07	8,244.00	-7,712.63	2,284.57	8,009.83	0.00	0.00	0.00
17,500.00	90.00	180.07	8,244.00	-7,812.63	2,284.44	8,107.89	0.00	0.00	0.00
17,600.00	90.00	180.07	8,244.00	-7,912.63	2,284.32	8,205.96	0.00	0.00	0.00
17,700.00	90.00	180.07	8,244.00	-8,012.63	2,284.19	8,304.02	0.00	0.00	0.00
17,800.00	90.00	180.07	8,244.00	-8,112.63	2,284.07	8,402.08	0.00	0.00	0.00
17,900.00	90.00	180.07	8,244.00	-8,212.63	2,283.94	8,500.14	0.00	0.00	0.00
18,000.00	90.00	180.07	8,244.00	-8,312.63	2,283.82	8,598.20	0.00	0.00	0.00
18,100.00	90.00	180.07	8,244.00	-8,412.63	2,283.69	8,696.27	0.00	0.00	0.00
18,200.00	90.00	180.07	8,244.00	-8,512.63	2,283.57	8,794.33	0.00	0.00	0.00
18,300.00	90.00	180.07	8,244.00	-8,612.63	2,283.44	8,892.39	0.00	0.00	0.00
18,400.00	90.00	180.07	8,244.00	-8,712.63	2,283.32	8,990.45	0.00	0.00	0.00
18,500.00	90.00	180.07	8,244.00	-8,812.63	2,283.19	9,088.51	0.00	0.00	0.00
18,600.00	90.00	180.07	8,244.00	-8,912.63	2,283.07	9,186.58	0.00	0.00	0.00
18,700.00	90.00	180.07	8,244.00	-9,012.63	2,282.94	9,284.64	0.00	0.00	0.00
18,800.00	90.00	180.07	8,244.00	-9,112.63	2,282.82	9,382.70	0.00	0.00	0.00
18,900.00	90.00	180.07	8,244.00	-9,212.63	2,282.69	9,480.76	0.00	0.00	0.00
19,000.00	90.00	180.07	8,244.00	-9,312.63	2,282.57	9,578.82	0.00	0.00	0.00
19,100.00	90.00	180.07	8,244.00	-9,412.63	2,282.44	9,676.89	0.00	0.00	0.00

<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 9HN
<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 9HN	<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	180.07	8,244.00	-9,512.63	2,282.32	9,774.95	0.00	0.00	0.00	
19,300.00	90.00	180.07	8,244.00	-9,612.63	2,282.19	9,873.01	0.00	0.00	0.00	
19,400.00	90.00	180.07	8,244.00	-9,712.63	2,282.07	9,971.07	0.00	0.00	0.00	
19,500.00	90.00	180.07	8,244.00	-9,812.63	2,281.94	10,069.14	0.00	0.00	0.00	
19,600.00	90.00	180.07	8,244.00	-9,912.63	2,281.82	10,167.20	0.00	0.00	0.00	
19,700.00	90.00	180.07	8,244.00	-10,012.63	2,281.69	10,265.26	0.00	0.00	0.00	
19,800.00	90.00	180.07	8,244.00	-10,112.63	2,281.57	10,363.32	0.00	0.00	0.00	
19,900.00	90.00	180.07	8,244.00	-10,212.63	2,281.44	10,461.38	0.00	0.00	0.00	
20,000.00	90.00	180.07	8,244.00	-10,312.63	2,281.32	10,559.45	0.00	0.00	0.00	
20,100.00	90.00	180.07	8,244.00	-10,412.63	2,281.19	10,657.51	0.00	0.00	0.00	
20,200.00	90.00	180.07	8,244.00	-10,512.63	2,281.06	10,755.57	0.00	0.00	0.00	
20,300.00	90.00	180.07	8,244.00	-10,612.63	2,280.94	10,853.63	0.00	0.00	0.00	
20,400.00	90.00	180.07	8,244.00	-10,712.63	2,280.81	10,951.69	0.00	0.00	0.00	
20,500.00	90.00	180.07	8,244.00	-10,812.63	2,280.69	11,049.76	0.00	0.00	0.00	
20,600.00	90.00	180.07	8,244.00	-10,912.63	2,280.56	11,147.82	0.00	0.00	0.00	
20,700.00	90.00	180.07	8,244.00	-11,012.63	2,280.44	11,245.88	0.00	0.00	0.00	
20,800.00	90.00	180.07	8,244.00	-11,112.63	2,280.31	11,343.94	0.00	0.00	0.00	
20,900.00	90.00	180.07	8,244.00	-11,212.63	2,280.19	11,442.00	0.00	0.00	0.00	
21,000.00	90.00	180.07	8,244.00	-11,312.63	2,280.06	11,540.07	0.00	0.00	0.00	
21,100.00	90.00	180.07	8,244.00	-11,412.63	2,279.94	11,638.13	0.00	0.00	0.00	
21,123.58	90.00	180.07	8,244.00	-11,436.21	2,279.91	11,661.25	0.00	0.00	0.00	
<b>Hold: 90.00° Inc, 180.07° Azm - LTP-REDSTONE 6-65 24-36 9HN</b>										
21,173.58	90.00	180.07	8,244.00	-11,486.21	2,279.85	11,710.28	0.00	0.00	0.00	
<b>TD @ 21173.58' MD/8244.00' TVD - BHL-REDSTONE 6-65 24-36 9HN</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 6-65 - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	1,612,079.92	3,249,024.90	39.510615	-104.617363	
KOP-REDSTONE 6-65 - plan hits target center - Point	0.00	0.00	7,671.04	1,177.33	2,295.69	1,613,257.25	3,251,320.59	39.513786	-104.609186	
LTP-REDSTONE 6-65 - plan hits target center - Point	0.00	0.00	8,244.00	-11,436.21	2,279.91	1,600,643.71	3,251,304.81	39.479158	-104.609680	
FTP-REDSTONE 6-65 - plan hits target center - Point	0.00	0.00	8,244.00	604.38	2,294.97	1,612,684.29	3,251,319.87	39.512213	-104.609209	
BHL-REDSTONE 6-65 - plan hits target center - Point	0.00	0.00	8,244.00	-11,486.21	2,279.85	1,600,593.71	3,251,304.75	39.479021	-104.609682	



<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 9HN
<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 9HN	<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				
1,658.10	1,614.00	Upper Arapahoe				
2,363.93	2,259.00	Laramie - Fox Hills				
2,549.96	2,429.00	Pierre Shale (Base of Fox Hills)				
6,040.81	5,619.00	Sussex Sandstone				
8,478.93	7,954.00	Sharon Springs Shale				
8,526.08	7,994.00	Niobrara				
8,538.28	8,004.00	Niobrara A				
8,689.32	8,114.00	Niobrara B Top				
8,859.59	8,201.00	Niobrara C 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	
1,548.08	1,513.46	112.67	219.69	Hold: 23.96° Inc, 62.85° Azm	
6,684.90	6,207.58	1,064.67	2,076.00	Drop: 2°/100' @ 6684.90' MD	
7,882.98	7,371.04	1,177.33	2,295.69	Hold: 0.00° Inc, 62.85° Azm	
8,182.98	7,671.04	1,177.33	2,295.69	KOP: 10°/100' @ 8182.98' MD	
9,082.98	8,244.00	604.38	2,294.97	LP: 9082.98' MD, 90.00° Inc, 180.07° Azm	
21,123.58	8,244.00	-11,436.21	2,279.91	Hold: 90.00° Inc, 180.07° Azm	
21,173.58	8,244.00	-11,486.21	2,279.85	TD @ 21173.58' MD/8244.00' TVD	