



# **GMT Exploration Company, LLC**

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

**Marble-Redstone Pad**

**REDSTONE 6-65 24-36 1HN**

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

# GMT Exploration Company, LLC

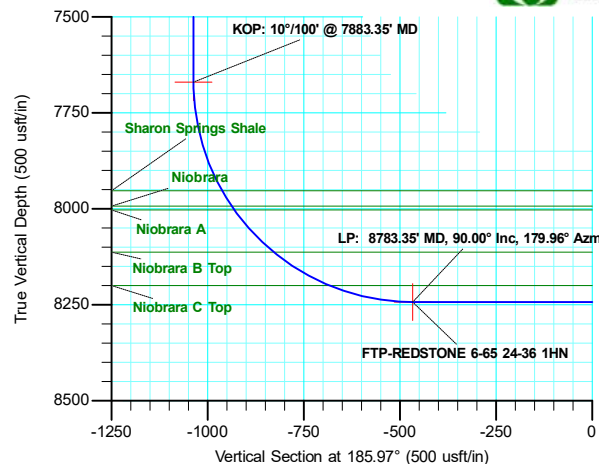
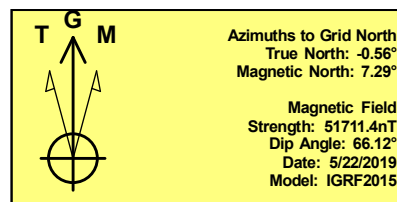
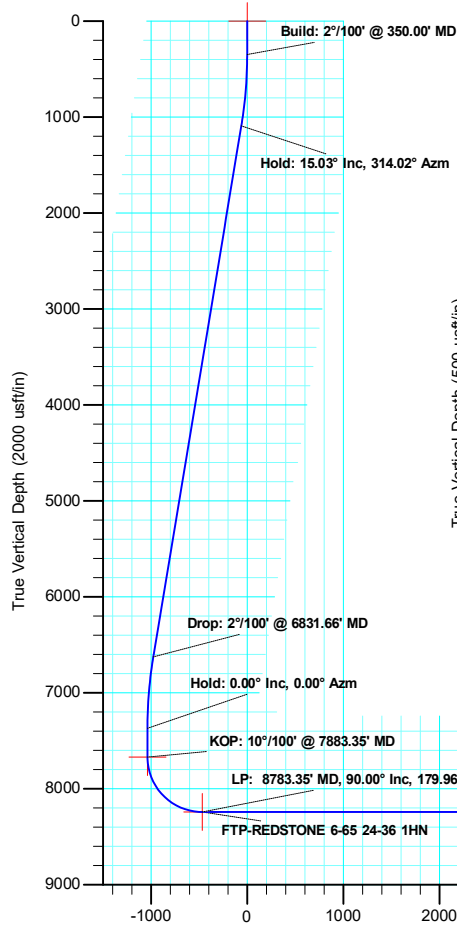
Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Colorado Central Zone  
 System Datum: Mean Sea Level

## WELL DETAILS: REDSTONE 6-65 24-36 1HN

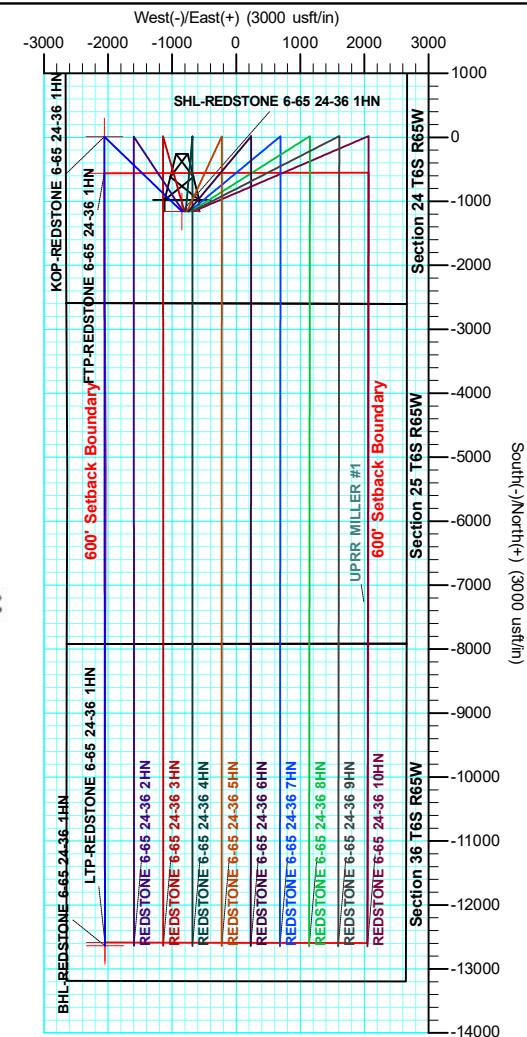
+N/-S	+E/-W	Northing	Ground Level: Easting	6278.00 Latitude	Longitude
-1157.41	-847.10	1612079.92	3248864.90	39.510619	-104.617930

## SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
0.00	0.00	0.00	0.00	-1157.41	-847.10	0.00	0.00	0.00	
350.00	0.00	0.00	350.00	-1157.41	-847.10	0.00	0.00	0.00	
1101.69	15.03	314.02	1093.09	-1089.27	-917.61	2.00	314.02	-60.42	
6831.66	15.03	314.02	6626.95	-56.52	-1986.48	0.00	0.00	-976.34	
7583.35	0.00	0.00	7370.04	11.61	-2056.99	2.00	180.00	-1036.76	
7883.35	0.00	0.00	7670.04	11.61	-2056.99	0.00	0.00	-1036.76	
8783.35	90.00	179.96	8243.00	-561.34	-2056.59	10.00	0.00	-466.96	FTP-REDSTONE 6-65 24-36 1HN
20807.95	90.00	179.96	8243.00	-12585.94	-2048.18	0.00	0.00	11491.47	LTP-REDSTONE 6-65 24-36 1HN
20857.95	90.00	179.96	8243.00	-12635.94	-2048.15	0.00	0.00	11541.19	BHL-REDSTONE 6-65 24-36 1HN



SHL: 1436 FSL/ 1808 FWL Sec. 24  
 FTP: 2029 FSL/ 600 FWL Sec. 24  
 LTP: 600 FSL/ 600 FWL Sec. 36  
 BHL: 550 FSL/ 600 FWL Sec. 36



TD @ 20857.95' MD/8243.00' TVD  
 Hold: 90.00° Inc, 179.96° Azm  
 LTP-REDSTONE 6-65 24-36 1HN  
 BHL-REDSTONE 6-65 24-36 1HN

Vertical Section at 185.97° (2000 usft/in)

<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 1HN
<b>Company:</b>	GMT Exploration Company, LLC	<b>TVD Reference:</b>	KB @ 6298.00usft
<b>Project:</b>	Elbert County, CO (NAD 83)	<b>MD Reference:</b>	KB @ 6298.00usft
<b>Site:</b>	Marble-Redstone Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	REDSTONE 6-65 24-36 1HN	<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 1HN				
Well Position	+N/-S	-1,157.41 usft	Northing:	1,612,079.92 usft	Latitude:	39.510619
	+E/-W	-847.10 usft	Easting:	3,248,864.90 usft	Longitude:	-104.617930
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	6,278.00 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	51,711.40739408

<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	185.97

<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	20,857.95	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	
1,101.69	15.03	314.02	1,093.09	68.13	-70.51	2.00	2.00	0.00	314.02	
6,831.66	15.03	314.02	6,626.95	1,100.89	-1,139.38	0.00	0.00	0.00	0.00	
7,583.35	0.00	0.00	7,370.04	1,169.02	-1,209.89	2.00	-2.00	0.00	180.00	
7,883.35	0.00	0.00	7,670.04	1,169.02	-1,209.89	0.00	0.00	0.00	0.00	
8,783.35	90.00	179.96	8,243.00	596.06	-1,209.49	10.00	10.00	0.00	0.00	FTP-REDSTONE 6
20,807.95	90.00	179.96	8,243.00	-11,428.53	-1,201.09	0.00	0.00	0.00	0.00	LTP-REDSTONE 6-
20,857.95	90.00	179.96	8,243.00	-11,478.53	-1,201.05	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 1HN
<b>Company:</b>	GMT Exploration Company, LLC	<b>TVD Reference:</b>	KB @ 6298.00usft
<b>Project:</b>	Elbert County, CO (NAD 83)	<b>MD Reference:</b>	KB @ 6298.00usft
<b>Site:</b>	Marble-Redstone Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	REDSTONE 6-65 24-36 1HN	<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 1HN</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	314.02	400.00	0.30	-0.31	-0.27	2.00	2.00	0.00
500.00	3.00	314.02	499.93	2.73	-2.82	-2.42	2.00	2.00	0.00
600.00	5.00	314.02	599.68	7.57	-7.84	-6.72	2.00	2.00	0.00
700.00	7.00	314.02	699.13	14.84	-15.36	-13.16	2.00	2.00	0.00
800.00	9.00	314.02	798.15	24.51	-25.36	-21.74	2.00	2.00	0.00
900.00	11.00	314.02	896.63	36.57	-37.85	-32.44	2.00	2.00	0.00
1,000.00	13.00	314.02	994.44	51.02	-52.80	-45.25	2.00	2.00	0.00
1,101.69	15.03	314.02	1,093.09	68.13	-70.51	-60.42	2.00	2.00	0.00
<b>Hold: 15.03° Inc, 314.02° Azm</b>									
1,200.00	15.03	314.02	1,188.04	85.85	-88.85	-76.14	0.00	0.00	0.00
1,300.00	15.03	314.02	1,284.62	103.88	-107.51	-92.12	0.00	0.00	0.00
1,400.00	15.03	314.02	1,381.19	121.90	-126.16	-108.11	0.00	0.00	0.00
1,500.00	15.03	314.02	1,477.77	139.92	-144.82	-124.09	0.00	0.00	0.00
1,600.00	15.03	314.02	1,574.35	157.95	-163.47	-140.08	0.00	0.00	0.00
1,700.00	15.03	314.02	1,670.93	175.97	-182.12	-156.06	0.00	0.00	0.00
1,800.00	15.03	314.02	1,767.50	193.99	-200.78	-172.05	0.00	0.00	0.00
1,900.00	15.03	314.02	1,864.08	212.02	-219.43	-188.03	0.00	0.00	0.00
2,000.00	15.03	314.02	1,960.66	230.04	-238.08	-204.02	0.00	0.00	0.00
2,100.00	15.03	314.02	2,057.24	248.07	-256.74	-220.00	0.00	0.00	0.00
2,200.00	15.03	314.02	2,153.81	266.09	-275.39	-235.99	0.00	0.00	0.00
2,300.00	15.03	314.02	2,250.39	284.11	-294.05	-251.97	0.00	0.00	0.00
2,400.00	15.03	314.02	2,346.97	302.14	-312.70	-267.95	0.00	0.00	0.00
2,500.00	15.03	314.02	2,443.54	320.16	-331.35	-283.94	0.00	0.00	0.00
2,600.00	15.03	314.02	2,540.12	338.18	-350.01	-299.92	0.00	0.00	0.00
2,700.00	15.03	314.02	2,636.70	356.21	-368.66	-315.91	0.00	0.00	0.00
2,800.00	15.03	314.02	2,733.28	374.23	-387.32	-331.89	0.00	0.00	0.00
2,900.00	15.03	314.02	2,829.85	392.26	-405.97	-347.88	0.00	0.00	0.00
3,000.00	15.03	314.02	2,926.43	410.28	-424.62	-363.86	0.00	0.00	0.00
3,100.00	15.03	314.02	3,023.01	428.30	-443.28	-379.85	0.00	0.00	0.00
3,200.00	15.03	314.02	3,119.59	446.33	-461.93	-395.83	0.00	0.00	0.00
3,300.00	15.03	314.02	3,216.16	464.35	-480.59	-411.82	0.00	0.00	0.00
3,400.00	15.03	314.02	3,312.74	482.37	-499.24	-427.80	0.00	0.00	0.00
3,500.00	15.03	314.02	3,409.32	500.40	-517.89	-443.79	0.00	0.00	0.00
3,600.00	15.03	314.02	3,505.89	518.42	-536.55	-459.77	0.00	0.00	0.00
3,700.00	15.03	314.02	3,602.47	536.45	-555.20	-475.75	0.00	0.00	0.00
3,800.00	15.03	314.02	3,699.05	554.47	-573.86	-491.74	0.00	0.00	0.00
3,900.00	15.03	314.02	3,795.63	572.49	-592.51	-507.72	0.00	0.00	0.00
4,000.00	15.03	314.02	3,892.20	590.52	-611.16	-523.71	0.00	0.00	0.00
4,100.00	15.03	314.02	3,988.78	608.54	-629.82	-539.69	0.00	0.00	0.00
4,200.00	15.03	314.02	4,085.36	626.56	-648.47	-555.68	0.00	0.00	0.00
4,300.00	15.03	314.02	4,181.94	644.59	-667.12	-571.66	0.00	0.00	0.00
4,400.00	15.03	314.02	4,278.51	662.61	-685.78	-587.65	0.00	0.00	0.00
4,500.00	15.03	314.02	4,375.09	680.64	-704.43	-603.63	0.00	0.00	0.00
4,600.00	15.03	314.02	4,471.67	698.66	-723.09	-619.62	0.00	0.00	0.00
4,700.00	15.03	314.02	4,568.25	716.68	-741.74	-635.60	0.00	0.00	0.00
4,800.00	15.03	314.02	4,664.82	734.71	-760.39	-651.59	0.00	0.00	0.00

<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 1HN
<b>Company:</b>	GMT Exploration Company, LLC	<b>TVD Reference:</b>	KB @ 6298.00usft
<b>Project:</b>	Elbert County, CO (NAD 83)	<b>MD Reference:</b>	KB @ 6298.00usft
<b>Site:</b>	Marble-Redstone Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	REDSTONE 6-65 24-36 1HN	<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)
4,900.00	15.03	314.02	4,761.40	752.73	-779.05	-667.57	0.00	0.00	0.00
5,000.00	15.03	314.02	4,857.98	770.75	-797.70	-683.56	0.00	0.00	0.00
5,100.00	15.03	314.02	4,954.55	788.78	-816.36	-699.54	0.00	0.00	0.00
5,200.00	15.03	314.02	5,051.13	806.80	-835.01	-715.52	0.00	0.00	0.00
5,300.00	15.03	314.02	5,147.71	824.83	-853.66	-731.51	0.00	0.00	0.00
5,400.00	15.03	314.02	5,244.29	842.85	-872.32	-747.49	0.00	0.00	0.00
5,500.00	15.03	314.02	5,340.86	860.87	-890.97	-763.48	0.00	0.00	0.00
5,600.00	15.03	314.02	5,437.44	878.90	-909.63	-779.46	0.00	0.00	0.00
5,700.00	15.03	314.02	5,534.02	896.92	-928.28	-795.45	0.00	0.00	0.00
5,800.00	15.03	314.02	5,630.60	914.94	-946.93	-811.43	0.00	0.00	0.00
5,900.00	15.03	314.02	5,727.17	932.97	-965.59	-827.42	0.00	0.00	0.00
6,000.00	15.03	314.02	5,823.75	950.99	-984.24	-843.40	0.00	0.00	0.00
6,100.00	15.03	314.02	5,920.33	969.02	-1,002.90	-859.39	0.00	0.00	0.00
6,200.00	15.03	314.02	6,016.90	987.04	-1,021.55	-875.37	0.00	0.00	0.00
6,300.00	15.03	314.02	6,113.48	1,005.06	-1,040.20	-891.36	0.00	0.00	0.00
6,400.00	15.03	314.02	6,210.06	1,023.09	-1,058.86	-907.34	0.00	0.00	0.00
6,500.00	15.03	314.02	6,306.64	1,041.11	-1,077.51	-923.32	0.00	0.00	0.00
6,600.00	15.03	314.02	6,403.21	1,059.13	-1,096.17	-939.31	0.00	0.00	0.00
6,700.00	15.03	314.02	6,499.79	1,077.16	-1,114.82	-955.29	0.00	0.00	0.00
6,800.00	15.03	314.02	6,596.37	1,095.18	-1,133.47	-971.28	0.00	0.00	0.00
6,831.66	15.03	314.02	6,626.95	1,100.89	-1,139.38	-976.34	0.00	0.00	0.00
<b>Drop: 2°/100' @ 6831.66' MD</b>									
6,900.00	13.67	314.02	6,693.15	1,112.66	-1,151.56	-986.78	2.00	-2.00	0.00
7,000.00	11.67	314.02	6,790.71	1,127.89	-1,167.33	-1,000.29	2.00	-2.00	0.00
7,100.00	9.67	314.02	6,888.98	1,140.75	-1,180.64	-1,011.70	2.00	-2.00	0.00
7,200.00	7.67	314.02	6,987.83	1,151.23	-1,191.48	-1,020.98	2.00	-2.00	0.00
7,300.00	5.67	314.02	7,087.15	1,159.29	-1,199.82	-1,028.14	2.00	-2.00	0.00
7,400.00	3.67	314.02	7,186.81	1,164.95	-1,205.68	-1,033.15	2.00	-2.00	0.00
7,500.00	1.67	314.02	7,286.70	1,168.18	-1,209.02	-1,036.02	2.00	-2.00	0.00
7,583.35	0.00	0.00	7,370.04	1,169.02	-1,209.89	-1,036.76	2.00	-2.00	0.00
<b>Hold: 0.00° Inc, 0.00° Azm</b>									
7,600.00	0.00	0.00	7,386.69	1,169.02	-1,209.89	-1,036.76	0.00	0.00	0.00
7,700.00	0.00	0.00	7,486.69	1,169.02	-1,209.89	-1,036.76	0.00	0.00	0.00
7,800.00	0.00	0.00	7,586.69	1,169.02	-1,209.89	-1,036.76	0.00	0.00	0.00
7,883.35	0.00	0.00	7,670.04	1,169.02	-1,209.89	-1,036.76	0.00	0.00	0.00
<b>KOP: 10°/100' @ 7883.35' MD - KOP-REDSTONE 6-65 24-36 1HN</b>									
7,900.00	1.66	179.96	7,686.69	1,168.78	-1,209.89	-1,036.52	10.00	10.00	0.00
7,950.00	6.66	179.96	7,736.54	1,165.15	-1,209.89	-1,032.91	10.00	10.00	0.00
8,000.00	11.66	179.96	7,785.89	1,157.19	-1,209.89	-1,025.00	10.00	10.00	0.00
8,050.00	16.66	179.96	7,834.35	1,144.96	-1,209.88	-1,012.83	10.00	10.00	0.00
8,100.00	21.66	179.96	7,881.56	1,128.55	-1,209.87	-996.51	10.00	10.00	0.00
8,150.00	26.66	179.96	7,927.17	1,108.09	-1,209.85	-976.16	10.00	10.00	0.00
8,200.00	31.66	179.96	7,970.81	1,083.73	-1,209.83	-951.94	10.00	10.00	0.00
8,250.00	36.66	179.96	8,012.17	1,055.66	-1,209.81	-924.02	10.00	10.00	0.00
8,300.00	41.66	179.96	8,050.93	1,024.09	-1,209.79	-892.63	10.00	10.00	0.00
8,350.00	46.66	179.96	8,086.78	989.27	-1,209.77	-858.00	10.00	10.00	0.00
8,400.00	51.66	179.96	8,119.47	951.45	-1,209.74	-820.39	10.00	10.00	0.00
8,450.00	56.66	179.96	8,148.73	910.93	-1,209.71	-780.09	10.00	10.00	0.00
8,500.00	61.66	179.96	8,174.35	868.01	-1,209.68	-737.41	10.00	10.00	0.00
8,550.00	66.66	179.96	8,196.13	823.02	-1,209.65	-692.67	10.00	10.00	0.00
8,600.00	71.66	179.96	8,213.91	776.30	-1,209.62	-646.21	10.00	10.00	0.00
8,650.00	76.66	179.96	8,227.55	728.22	-1,209.59	-598.38	10.00	10.00	0.00
8,700.00	81.66	179.96	8,236.95	679.12	-1,209.55	-549.56	10.00	10.00	0.00



<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 1HN
<b>Company:</b>	GMT Exploration Company, LLC	<b>TVD Reference:</b>	KB @ 6298.00usft
<b>Project:</b>	Elbert County, CO (NAD 83)	<b>MD Reference:</b>	KB @ 6298.00usft
<b>Site:</b>	Marble-Redstone Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	REDSTONE 6-65 24-36 1HN	<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)
8,750.00	86.66	179.96	8,242.03	629.40	-1,209.52	-500.11	10.00	10.00	0.00
8,783.35	90.00	179.96	8,243.00	596.06	-1,209.49	-466.96	10.00	10.00	0.00
<b>LP: 8783.35' MD, 90.00° Inc, 179.96° Azm - FTP-REDSTONE 6-65 24-36 1HN</b>									
8,800.00	90.00	179.96	8,243.00	579.42	-1,209.48	-450.40	0.00	0.00	0.00
8,900.00	90.00	179.96	8,243.00	479.42	-1,209.41	-350.95	0.00	0.00	0.00
9,000.00	90.00	179.96	8,243.00	379.42	-1,209.34	-251.50	0.00	0.00	0.00
9,100.00	90.00	179.96	8,243.00	279.42	-1,209.27	-152.05	0.00	0.00	0.00
9,200.00	90.00	179.96	8,243.00	179.42	-1,209.20	-52.61	0.00	0.00	0.00
9,300.00	90.00	179.96	8,243.00	79.42	-1,209.13	46.84	0.00	0.00	0.00
9,400.00	90.00	179.96	8,243.00	-20.58	-1,209.06	146.29	0.00	0.00	0.00
9,500.00	90.00	179.96	8,243.00	-120.58	-1,208.99	245.74	0.00	0.00	0.00
9,600.00	90.00	179.96	8,243.00	-220.58	-1,208.92	345.19	0.00	0.00	0.00
9,700.00	90.00	179.96	8,243.00	-320.58	-1,208.85	444.64	0.00	0.00	0.00
9,800.00	90.00	179.96	8,243.00	-420.58	-1,208.78	544.09	0.00	0.00	0.00
9,900.00	90.00	179.96	8,243.00	-520.58	-1,208.71	643.54	0.00	0.00	0.00
10,000.00	90.00	179.96	8,243.00	-620.58	-1,208.64	742.99	0.00	0.00	0.00
10,100.00	90.00	179.96	8,243.00	-720.58	-1,208.57	842.44	0.00	0.00	0.00
10,200.00	90.00	179.96	8,243.00	-820.58	-1,208.50	941.89	0.00	0.00	0.00
10,300.00	90.00	179.96	8,243.00	-920.58	-1,208.43	1,041.34	0.00	0.00	0.00
10,400.00	90.00	179.96	8,243.00	-1,020.58	-1,208.36	1,140.79	0.00	0.00	0.00
10,500.00	90.00	179.96	8,243.00	-1,120.58	-1,208.29	1,240.24	0.00	0.00	0.00
10,600.00	90.00	179.96	8,243.00	-1,220.58	-1,208.22	1,339.69	0.00	0.00	0.00
10,700.00	90.00	179.96	8,243.00	-1,320.58	-1,208.15	1,439.14	0.00	0.00	0.00
10,800.00	90.00	179.96	8,243.00	-1,420.58	-1,208.08	1,538.59	0.00	0.00	0.00
10,900.00	90.00	179.96	8,243.00	-1,520.58	-1,208.01	1,638.04	0.00	0.00	0.00
11,000.00	90.00	179.96	8,243.00	-1,620.58	-1,207.94	1,737.49	0.00	0.00	0.00
11,100.00	90.00	179.96	8,243.00	-1,720.58	-1,207.87	1,836.94	0.00	0.00	0.00
11,200.00	90.00	179.96	8,243.00	-1,820.58	-1,207.80	1,936.39	0.00	0.00	0.00
11,300.00	90.00	179.96	8,243.00	-1,920.58	-1,207.73	2,035.84	0.00	0.00	0.00
11,400.00	90.00	179.96	8,243.00	-2,020.58	-1,207.66	2,135.29	0.00	0.00	0.00
11,500.00	90.00	179.96	8,243.00	-2,120.58	-1,207.59	2,234.74	0.00	0.00	0.00
11,600.00	90.00	179.96	8,243.00	-2,220.58	-1,207.52	2,334.19	0.00	0.00	0.00
11,700.00	90.00	179.96	8,243.00	-2,320.58	-1,207.45	2,433.64	0.00	0.00	0.00
11,800.00	90.00	179.96	8,243.00	-2,420.58	-1,207.38	2,533.09	0.00	0.00	0.00
11,900.00	90.00	179.96	8,243.00	-2,520.58	-1,207.31	2,632.54	0.00	0.00	0.00
12,000.00	90.00	179.96	8,243.00	-2,620.58	-1,207.24	2,731.99	0.00	0.00	0.00
12,100.00	90.00	179.96	8,243.00	-2,720.58	-1,207.17	2,831.44	0.00	0.00	0.00
12,200.00	90.00	179.96	8,243.00	-2,820.58	-1,207.11	2,930.89	0.00	0.00	0.00
12,300.00	90.00	179.96	8,243.00	-2,920.58	-1,207.04	3,030.34	0.00	0.00	0.00
12,400.00	90.00	179.96	8,243.00	-3,020.58	-1,206.97	3,129.79	0.00	0.00	0.00
12,500.00	90.00	179.96	8,243.00	-3,120.58	-1,206.90	3,229.24	0.00	0.00	0.00
12,600.00	90.00	179.96	8,243.00	-3,220.58	-1,206.83	3,328.69	0.00	0.00	0.00
12,700.00	90.00	179.96	8,243.00	-3,320.58	-1,206.76	3,428.14	0.00	0.00	0.00
12,800.00	90.00	179.96	8,243.00	-3,420.58	-1,206.69	3,527.59	0.00	0.00	0.00
12,900.00	90.00	179.96	8,243.00	-3,520.58	-1,206.62	3,627.04	0.00	0.00	0.00
13,000.00	90.00	179.96	8,243.00	-3,620.58	-1,206.55	3,726.48	0.00	0.00	0.00
13,100.00	90.00	179.96	8,243.00	-3,720.58	-1,206.48	3,825.93	0.00	0.00	0.00
13,200.00	90.00	179.96	8,243.00	-3,820.58	-1,206.41	3,925.38	0.00	0.00	0.00
13,300.00	90.00	179.96	8,243.00	-3,920.58	-1,206.34	4,024.83	0.00	0.00	0.00
13,400.00	90.00	179.96	8,243.00	-4,020.58	-1,206.27	4,124.28	0.00	0.00	0.00
13,500.00	90.00	179.96	8,243.00	-4,120.58	-1,206.20	4,223.73	0.00	0.00	0.00
13,600.00	90.00	179.96	8,243.00	-4,220.58	-1,206.13	4,323.18	0.00	0.00	0.00
13,700.00	90.00	179.96	8,243.00	-4,320.58	-1,206.06	4,422.63	0.00	0.00	0.00
13,800.00	90.00	179.96	8,243.00	-4,420.58	-1,205.99	4,522.08	0.00	0.00	0.00



<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 1HN
<b>Company:</b>	GMT Exploration Company, LLC	<b>TVD Reference:</b>	KB @ 6298.00usft
<b>Project:</b>	Elbert County, CO (NAD 83)	<b>MD Reference:</b>	KB @ 6298.00usft
<b>Site:</b>	Marble-Redstone Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	REDSTONE 6-65 24-36 1HN	<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)
13,900.00	90.00	179.96	8,243.00	-4,520.58	-1,205.92	4,621.53	0.00	0.00	0.00
14,000.00	90.00	179.96	8,243.00	-4,620.58	-1,205.85	4,720.98	0.00	0.00	0.00
14,100.00	90.00	179.96	8,243.00	-4,720.58	-1,205.78	4,820.43	0.00	0.00	0.00
14,200.00	90.00	179.96	8,243.00	-4,820.58	-1,205.71	4,919.88	0.00	0.00	0.00
14,300.00	90.00	179.96	8,243.00	-4,920.58	-1,205.64	5,019.33	0.00	0.00	0.00
14,400.00	90.00	179.96	8,243.00	-5,020.58	-1,205.57	5,118.78	0.00	0.00	0.00
14,500.00	90.00	179.96	8,243.00	-5,120.58	-1,205.50	5,218.23	0.00	0.00	0.00
14,600.00	90.00	179.96	8,243.00	-5,220.58	-1,205.43	5,317.68	0.00	0.00	0.00
14,700.00	90.00	179.96	8,243.00	-5,320.58	-1,205.36	5,417.13	0.00	0.00	0.00
14,800.00	90.00	179.96	8,243.00	-5,420.58	-1,205.29	5,516.58	0.00	0.00	0.00
14,900.00	90.00	179.96	8,243.00	-5,520.58	-1,205.22	5,616.03	0.00	0.00	0.00
15,000.00	90.00	179.96	8,243.00	-5,620.58	-1,205.15	5,715.48	0.00	0.00	0.00
15,100.00	90.00	179.96	8,243.00	-5,720.58	-1,205.08	5,814.93	0.00	0.00	0.00
15,200.00	90.00	179.96	8,243.00	-5,820.58	-1,205.01	5,914.38	0.00	0.00	0.00
15,300.00	90.00	179.96	8,243.00	-5,920.58	-1,204.94	6,013.83	0.00	0.00	0.00
15,400.00	90.00	179.96	8,243.00	-6,020.58	-1,204.87	6,113.28	0.00	0.00	0.00
15,500.00	90.00	179.96	8,243.00	-6,120.58	-1,204.80	6,212.73	0.00	0.00	0.00
15,600.00	90.00	179.96	8,243.00	-6,220.58	-1,204.73	6,312.18	0.00	0.00	0.00
15,700.00	90.00	179.96	8,243.00	-6,320.58	-1,204.66	6,411.63	0.00	0.00	0.00
15,800.00	90.00	179.96	8,243.00	-6,420.58	-1,204.59	6,511.08	0.00	0.00	0.00
15,900.00	90.00	179.96	8,243.00	-6,520.58	-1,204.52	6,610.53	0.00	0.00	0.00
16,000.00	90.00	179.96	8,243.00	-6,620.58	-1,204.45	6,709.98	0.00	0.00	0.00
16,100.00	90.00	179.96	8,243.00	-6,720.58	-1,204.38	6,809.43	0.00	0.00	0.00
16,200.00	90.00	179.96	8,243.00	-6,820.58	-1,204.31	6,908.88	0.00	0.00	0.00
16,300.00	90.00	179.96	8,243.00	-6,920.58	-1,204.24	7,008.33	0.00	0.00	0.00
16,400.00	90.00	179.96	8,243.00	-7,020.58	-1,204.17	7,107.78	0.00	0.00	0.00
16,500.00	90.00	179.96	8,243.00	-7,120.58	-1,204.10	7,207.23	0.00	0.00	0.00
16,600.00	90.00	179.96	8,243.00	-7,220.58	-1,204.03	7,306.68	0.00	0.00	0.00
16,700.00	90.00	179.96	8,243.00	-7,320.58	-1,203.96	7,406.13	0.00	0.00	0.00
16,800.00	90.00	179.96	8,243.00	-7,420.58	-1,203.89	7,505.57	0.00	0.00	0.00
16,900.00	90.00	179.96	8,243.00	-7,520.58	-1,203.82	7,605.02	0.00	0.00	0.00
17,000.00	90.00	179.96	8,243.00	-7,620.58	-1,203.75	7,704.47	0.00	0.00	0.00
17,100.00	90.00	179.96	8,243.00	-7,720.58	-1,203.68	7,803.92	0.00	0.00	0.00
17,200.00	90.00	179.96	8,243.00	-7,820.58	-1,203.61	7,903.37	0.00	0.00	0.00
17,300.00	90.00	179.96	8,243.00	-7,920.58	-1,203.54	8,002.82	0.00	0.00	0.00
17,400.00	90.00	179.96	8,243.00	-8,020.58	-1,203.47	8,102.27	0.00	0.00	0.00
17,500.00	90.00	179.96	8,243.00	-8,120.58	-1,203.40	8,201.72	0.00	0.00	0.00
17,600.00	90.00	179.96	8,243.00	-8,220.58	-1,203.33	8,301.17	0.00	0.00	0.00
17,700.00	90.00	179.96	8,243.00	-8,320.58	-1,203.26	8,400.62	0.00	0.00	0.00
17,800.00	90.00	179.96	8,243.00	-8,420.58	-1,203.19	8,500.07	0.00	0.00	0.00
17,900.00	90.00	179.96	8,243.00	-8,520.58	-1,203.12	8,599.52	0.00	0.00	0.00
18,000.00	90.00	179.96	8,243.00	-8,620.58	-1,203.05	8,698.97	0.00	0.00	0.00
18,100.00	90.00	179.96	8,243.00	-8,720.58	-1,202.98	8,798.42	0.00	0.00	0.00
18,200.00	90.00	179.96	8,243.00	-8,820.58	-1,202.91	8,897.87	0.00	0.00	0.00
18,300.00	90.00	179.96	8,243.00	-8,920.58	-1,202.84	8,997.32	0.00	0.00	0.00
18,400.00	90.00	179.96	8,243.00	-9,020.58	-1,202.77	9,096.77	0.00	0.00	0.00
18,500.00	90.00	179.96	8,243.00	-9,120.58	-1,202.70	9,196.22	0.00	0.00	0.00
18,600.00	90.00	179.96	8,243.00	-9,220.58	-1,202.63	9,295.67	0.00	0.00	0.00
18,700.00	90.00	179.96	8,243.00	-9,320.58	-1,202.56	9,395.12	0.00	0.00	0.00
18,800.00	90.00	179.96	8,243.00	-9,420.58	-1,202.49	9,494.57	0.00	0.00	0.00
18,900.00	90.00	179.96	8,243.00	-9,520.58	-1,202.42	9,594.02	0.00	0.00	0.00
19,000.00	90.00	179.96	8,243.00	-9,620.58	-1,202.35	9,693.47	0.00	0.00	0.00
19,100.00	90.00	179.96	8,243.00	-9,720.58	-1,202.28	9,792.92	0.00	0.00	0.00
19,200.00	90.00	179.96	8,243.00	-9,820.58	-1,202.21	9,892.37	0.00	0.00	0.00

<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 1HN
<b>Company:</b>	GMT Exploration Company, LLC	<b>TVD Reference:</b>	KB @ 6298.00usft
<b>Project:</b>	Elbert County, CO (NAD 83)	<b>MD Reference:</b>	KB @ 6298.00usft
<b>Site:</b>	Marble-Redstone Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	REDSTONE 6-65 24-36 1HN	<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)
19,300.00	90.00	179.96	8,243.00	-9,920.58	-1,202.14	9,991.82	0.00	0.00	0.00
19,400.00	90.00	179.96	8,243.00	-10,020.58	-1,202.07	10,091.27	0.00	0.00	0.00
19,500.00	90.00	179.96	8,243.00	-10,120.58	-1,202.00	10,190.72	0.00	0.00	0.00
19,600.00	90.00	179.96	8,243.00	-10,220.58	-1,201.93	10,290.17	0.00	0.00	0.00
19,700.00	90.00	179.96	8,243.00	-10,320.58	-1,201.86	10,389.62	0.00	0.00	0.00
19,800.00	90.00	179.96	8,243.00	-10,420.58	-1,201.79	10,489.07	0.00	0.00	0.00
19,900.00	90.00	179.96	8,243.00	-10,520.58	-1,201.72	10,588.52	0.00	0.00	0.00
20,000.00	90.00	179.96	8,243.00	-10,620.58	-1,201.65	10,687.97	0.00	0.00	0.00
20,100.00	90.00	179.96	8,243.00	-10,720.58	-1,201.58	10,787.42	0.00	0.00	0.00
20,200.00	90.00	179.96	8,243.00	-10,820.58	-1,201.51	10,886.87	0.00	0.00	0.00
20,300.00	90.00	179.96	8,243.00	-10,920.58	-1,201.44	10,986.32	0.00	0.00	0.00
20,400.00	90.00	179.96	8,243.00	-11,020.58	-1,201.37	11,085.77	0.00	0.00	0.00
20,500.00	90.00	179.96	8,243.00	-11,120.58	-1,201.30	11,185.22	0.00	0.00	0.00
20,600.00	90.00	179.96	8,243.00	-11,220.58	-1,201.23	11,284.66	0.00	0.00	0.00
20,700.00	90.00	179.96	8,243.00	-11,320.58	-1,201.16	11,384.11	0.00	0.00	0.00
20,807.95	90.00	179.96	8,243.00	-11,428.53	-1,201.09	11,491.47	0.00	0.00	0.00
<b>Hold: 90.00° Inc, 179.96° Azm - LTP-REDSTONE 6-65 24-36 1HN</b>									
20,857.95	90.00	179.96	8,243.00	-11,478.53	-1,201.05	11,541.19	0.00	0.00	0.00
<b>TD @ 20857.95' MD/8243.00' TVD - BHL-REDSTONE 6-65 24-36 1HN</b>									

Design Targets									
Target Name - hit/miss target - Shape	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	3,248,864.90	39.510619	-104.617930
KOP-REDSTONE 6-65 - plan hits target center - Point	0.00	0.00	7,670.04	1,169.02	-1,209.89	1,613,248.94	3,247,655.01	39.513861	-104.622178
LTP-REDSTONE 6-65 - plan hits target center - Point	0.00	0.00	8,243.00	-11,428.53	-1,201.09	1,600,651.39	3,247,663.82	39.479276	-104.622579
FTP-REDSTONE 6-65 - plan hits target center - Point	0.00	0.00	8,243.00	596.06	-1,209.49	1,612,675.98	3,247,655.41	39.512288	-104.622197
BHL-REDSTONE 6-65 - plan hits target center - Point	0.00	0.00	8,243.00	-11,478.53	-1,201.05	1,600,601.39	3,247,663.85	39.479139	-104.622580



<b>Database:</b>	Local	<b>Local Co-ordinate Reference:</b>	Well REDSTONE 6-65 24-36 1HN
<b>Company:</b>	GMT Exploration Company, LLC	<b>TVD Reference:</b>	KB @ 6298.00usft
<b>Project:</b>	Elbert County, CO (NAD 83)	<b>MD Reference:</b>	KB @ 6298.00usft
<b>Site:</b>	Marble-Redstone Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	REDSTONE 6-65 24-36 1HN	<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 (°)	
513.09	513.00	Denver				
1,640.02	1,613.00	Upper Arapahoe				
2,307.88	2,258.00	Laramie - Fox Hills				
2,483.90	2,428.00	Pierre Shale (Base of Fox Hills)				
5,786.96	5,618.00	Sussex Sandstone				
8,179.30	7,953.00	Sharon Springs Shale				
8,226.45	7,993.00	Niobrara				
8,238.65	8,003.00	Niobrara A				
8,389.69	8,113.00	Niobrara B Top				
8,559.96	8,200.00	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	
1,101.69	1,093.09	68.13	-70.51	Hold: 15.03° Inc, 314.02° Azm	
6,831.66	6,626.95	1,100.89	-1,139.38	Drop: 2°/100' @ 6831.66' MD	
7,583.35	7,370.04	1,169.02	-1,209.89	Hold: 0.00° Inc, 0.00° Azm	
7,883.35	7,670.04	1,169.02	-1,209.89	KOP: 10°/100' @ 7883.35' MD	
8,783.35	8,243.00	596.06	-1,209.49	LP: 8783.35' MD, 90.00° Inc, 179.96° Azm	
20,807.95	8,243.00	-11,428.53	-1,201.09	Hold: 90.00° Inc, 179.96° Azm	
20,857.95	8,243.00	-11,478.53	-1,201.05	TD @ 20857.95' MD/8243.00' TVD	