



GMT Exploration Company, LLC

Elbert County, CO (NAD 83)

Ruby-Crystal Pad

RUBY 6-65 22-27 10HN

Wellbore #1

Plan: Design #1

Standard Planning Report

24 May, 2019



Project: Elbert County, CO (NAD 83)
 Site: Ruby-Crystal Pad
 Well: RUBY 6-65 22-27 10HN
 Wellbore: Wellbore #1
 Design: Design #1

GMT Exploration Company, LLC

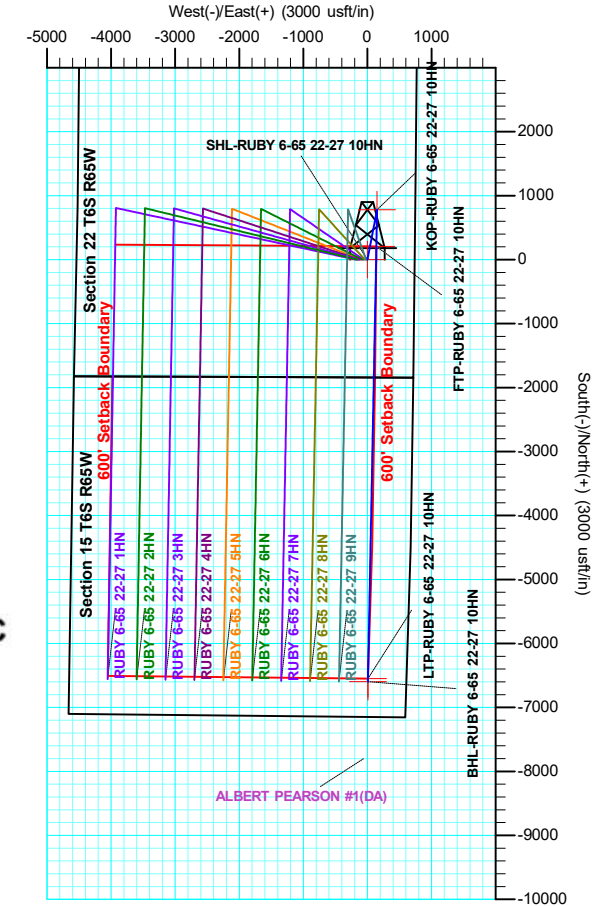
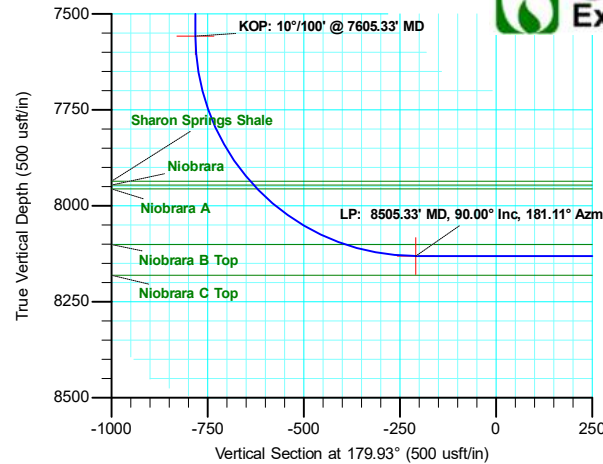
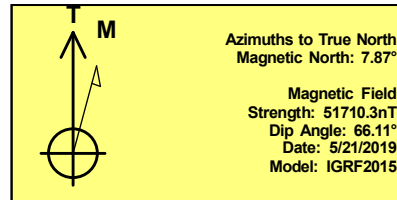
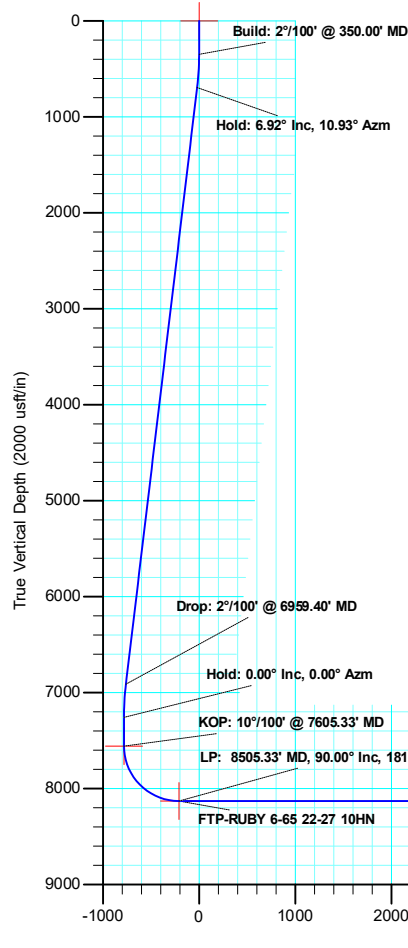
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Central Zone
 System Datum: Mean Sea Level

WELL DETAILS: RUBY 6-65 22-27 10HN

+N/-S	+E/-W	Northing	Ground Level: Easting	6176.00 Latitude	Longitude
0.00	0.00	1612493.88	3241110.14	39.511959	-104.645401

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
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	
695.94	6.92	10.93	695.10	20.48	3.96	2.00	10.93	-20.48	
6959.40	6.92	10.93	6912.95	761.30	147.02	0.00	0.00	-761.12	
7305.33	0.00	0.00	7258.04	781.78	150.98	2.00	180.00	-781.60	
7605.33	0.00	0.00	7558.04	781.78	150.98	0.00	0.00	-781.60	
8505.33	90.00	181.11	8131.00	208.93	139.86	10.00	0.00	-208.76	FTP-RUBY 6-65 22-27 10HN
15262.96	90.00	181.11	8131.00	-6547.43	8.73	0.00	0.00	6547.43	LTP-RUBY 6-65 22-27 10HN
15312.96	90.00	181.11	8131.00	-6597.42	7.76	0.00	0.00	6597.43	BHL-RUBY 6-65 22-27 10HN



Database:	Local	Local Co-ordinate Reference:	Well RUBY 6-65 22-27 10HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6196.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6196.00usft
Site:	Ruby-Crystal Pad	North Reference:	True
Well:	RUBY 6-65 22-27 10HN	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	Ruby-Crystal Pad				
Site Position:		Northing:	1,613,266.75 usft	Latitude:	39.514130
From:	Lat/Long	Easting:	3,239,201.95 usft	Longitude:	-104.652138
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.53 °

Well	RUBY 6-65 22-27 10HN					
Well Position	+N-S	-790.65 usft	Northing:	1,612,493.88 usft	Latitude:	39.511959
	+E-W	1,900.89 usft	Easting:	3,241,110.14 usft	Longitude:	-104.645401
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	6,176.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/21/2019	7.87	66.11	51,710.34419758

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	179.93

Plan Survey Tool Program	Date	5/24/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	15,312.96	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	
695.94	6.92	10.93	695.10	20.48	3.96	2.00	2.00	0.00	10.93	
6,959.40	6.92	10.93	6,912.95	761.30	147.02	0.00	0.00	0.00	0.00	
7,305.33	0.00	0.00	7,258.04	781.78	150.98	2.00	-2.00	0.00	180.00	
7,605.33	0.00	0.00	7,558.04	781.78	150.98	0.00	0.00	0.00	0.00	
8,505.33	90.00	181.11	8,131.00	208.93	139.86	10.00	10.00	0.00	0.00	FTP-RUBY 6-65 22
15,262.96	90.00	181.11	8,131.00	-6,547.43	8.73	0.00	0.00	0.00	0.00	LTP-RUBY 6-65 22
15,312.97	90.00	181.11	8,131.00	-6,597.42	7.76	0.00	0.00	0.00	0.00	BHL-RUBY 6-65 22

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Well:	RUBY 6-65 22-27 10HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL-RUBY 6-65 22-27 10HN									
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	10.93	400.00	0.43	0.08	-0.43	2.00	2.00	0.00
500.00	3.00	10.93	499.93	3.85	0.74	-3.85	2.00	2.00	0.00
600.00	5.00	10.93	599.68	10.70	2.07	-10.70	2.00	2.00	0.00
695.94	6.92	10.93	695.10	20.48	3.96	-20.48	2.00	2.00	0.00
Hold: 6.92° Inc, 10.93° Azm									
700.00	6.92	10.93	699.13	20.96	4.05	-20.96	0.00	0.00	0.00
800.00	6.92	10.93	798.40	32.79	6.33	-32.78	0.00	0.00	0.00
900.00	6.92	10.93	897.67	44.62	8.62	-44.61	0.00	0.00	0.00
1,000.00	6.92	10.93	996.95	56.45	10.90	-56.43	0.00	0.00	0.00
1,100.00	6.92	10.93	1,096.22	68.27	13.19	-68.26	0.00	0.00	0.00
1,200.00	6.92	10.93	1,195.49	80.10	15.47	-80.08	0.00	0.00	0.00
1,300.00	6.92	10.93	1,294.76	91.93	17.75	-91.91	0.00	0.00	0.00
1,400.00	6.92	10.93	1,394.03	103.76	20.04	-103.73	0.00	0.00	0.00
1,500.00	6.92	10.93	1,493.30	115.58	22.32	-115.56	0.00	0.00	0.00
1,600.00	6.92	10.93	1,592.58	127.41	24.61	-127.38	0.00	0.00	0.00
1,700.00	6.92	10.93	1,691.85	139.24	26.89	-139.21	0.00	0.00	0.00
1,800.00	6.92	10.93	1,791.12	151.07	29.17	-151.03	0.00	0.00	0.00
1,900.00	6.92	10.93	1,890.39	162.89	31.46	-162.86	0.00	0.00	0.00
2,000.00	6.92	10.93	1,989.66	174.72	33.74	-174.68	0.00	0.00	0.00
2,100.00	6.92	10.93	2,088.94	186.55	36.03	-186.51	0.00	0.00	0.00
2,200.00	6.92	10.93	2,188.21	198.38	38.31	-198.33	0.00	0.00	0.00
2,300.00	6.92	10.93	2,287.48	210.20	40.60	-210.16	0.00	0.00	0.00
2,400.00	6.92	10.93	2,386.75	222.03	42.88	-221.98	0.00	0.00	0.00
2,500.00	6.92	10.93	2,486.02	233.86	45.16	-233.81	0.00	0.00	0.00
2,600.00	6.92	10.93	2,585.29	245.69	47.45	-245.63	0.00	0.00	0.00
2,700.00	6.92	10.93	2,684.57	257.51	49.73	-257.46	0.00	0.00	0.00
2,800.00	6.92	10.93	2,783.84	269.34	52.02	-269.28	0.00	0.00	0.00
2,900.00	6.92	10.93	2,883.11	281.17	54.30	-281.11	0.00	0.00	0.00
3,000.00	6.92	10.93	2,982.38	293.00	56.58	-292.93	0.00	0.00	0.00
3,100.00	6.92	10.93	3,081.65	304.82	58.87	-304.76	0.00	0.00	0.00
3,200.00	6.92	10.93	3,180.93	316.65	61.15	-316.58	0.00	0.00	0.00
3,300.00	6.92	10.93	3,280.20	328.48	63.44	-328.40	0.00	0.00	0.00
3,400.00	6.92	10.93	3,379.47	340.31	65.72	-340.23	0.00	0.00	0.00
3,500.00	6.92	10.93	3,478.74	352.13	68.01	-352.05	0.00	0.00	0.00
3,600.00	6.92	10.93	3,578.01	363.96	70.29	-363.88	0.00	0.00	0.00
3,700.00	6.92	10.93	3,677.28	375.79	72.57	-375.70	0.00	0.00	0.00
3,800.00	6.92	10.93	3,776.56	387.62	74.86	-387.53	0.00	0.00	0.00
3,900.00	6.92	10.93	3,875.83	399.44	77.14	-399.35	0.00	0.00	0.00
4,000.00	6.92	10.93	3,975.10	411.27	79.43	-411.18	0.00	0.00	0.00
4,100.00	6.92	10.93	4,074.37	423.10	81.71	-423.00	0.00	0.00	0.00
4,200.00	6.92	10.93	4,173.64	434.93	84.00	-434.83	0.00	0.00	0.00
4,300.00	6.92	10.93	4,272.92	446.75	86.28	-446.65	0.00	0.00	0.00
4,400.00	6.92	10.93	4,372.19	458.58	88.56	-458.48	0.00	0.00	0.00
4,500.00	6.92	10.93	4,471.46	470.41	90.85	-470.30	0.00	0.00	0.00
4,600.00	6.92	10.93	4,570.73	482.24	93.13	-482.13	0.00	0.00	0.00
4,700.00	6.92	10.93	4,670.00	494.07	95.42	-493.95	0.00	0.00	0.00

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Well:	RUBY 6-65 22-27 10HN	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	6.92	10.93	4,769.27	505.89	97.70	-505.78	0.00	0.00	0.00
4,900.00	6.92	10.93	4,868.55	517.72	99.98	-517.60	0.00	0.00	0.00
5,000.00	6.92	10.93	4,967.82	529.55	102.27	-529.43	0.00	0.00	0.00
5,100.00	6.92	10.93	5,067.09	541.38	104.55	-541.25	0.00	0.00	0.00
5,200.00	6.92	10.93	5,166.36	553.20	106.84	-553.08	0.00	0.00	0.00
5,300.00	6.92	10.93	5,265.63	565.03	109.12	-564.90	0.00	0.00	0.00
5,400.00	6.92	10.93	5,364.91	576.86	111.41	-576.73	0.00	0.00	0.00
5,500.00	6.92	10.93	5,464.18	588.69	113.69	-588.55	0.00	0.00	0.00
5,600.00	6.92	10.93	5,563.45	600.51	115.97	-600.38	0.00	0.00	0.00
5,700.00	6.92	10.93	5,662.72	612.34	118.26	-612.20	0.00	0.00	0.00
5,800.00	6.92	10.93	5,761.99	624.17	120.54	-624.03	0.00	0.00	0.00
5,900.00	6.92	10.93	5,861.26	636.00	122.83	-635.85	0.00	0.00	0.00
6,000.00	6.92	10.93	5,960.54	647.82	125.11	-647.68	0.00	0.00	0.00
6,100.00	6.92	10.93	6,059.81	659.65	127.39	-659.50	0.00	0.00	0.00
6,200.00	6.92	10.93	6,159.08	671.48	129.68	-671.33	0.00	0.00	0.00
6,300.00	6.92	10.93	6,258.35	683.31	131.96	-683.15	0.00	0.00	0.00
6,400.00	6.92	10.93	6,357.62	695.13	134.25	-694.97	0.00	0.00	0.00
6,500.00	6.92	10.93	6,456.90	706.96	136.53	-706.80	0.00	0.00	0.00
6,600.00	6.92	10.93	6,556.17	718.79	138.82	-718.62	0.00	0.00	0.00
6,700.00	6.92	10.93	6,655.44	730.62	141.10	-730.45	0.00	0.00	0.00
6,800.00	6.92	10.93	6,754.71	742.44	143.38	-742.27	0.00	0.00	0.00
6,900.00	6.92	10.93	6,853.98	754.27	145.67	-754.10	0.00	0.00	0.00
6,959.40	6.92	10.93	6,912.95	761.30	147.02	-761.12	0.00	0.00	0.00
Drop: 2°/100' @ 6959.40' MD									
7,000.00	6.11	10.93	6,953.29	765.82	147.90	-765.64	2.00	-2.00	0.00
7,100.00	4.11	10.93	7,052.89	774.56	149.59	-774.38	2.00	-2.00	0.00
7,200.00	2.11	10.93	7,152.73	779.88	150.61	-779.70	2.00	-2.00	0.00
7,305.33	0.00	0.00	7,258.04	781.78	150.98	-781.60	2.00	-2.00	0.00
Hold: 0.00° Inc, 0.00° Azm									
7,400.00	0.00	0.00	7,352.71	781.78	150.98	-781.60	0.00	0.00	0.00
7,500.00	0.00	0.00	7,452.71	781.78	150.98	-781.60	0.00	0.00	0.00
7,605.33	0.00	0.00	7,558.04	781.78	150.98	-781.60	0.00	0.00	0.00
KOP: 10°/100' @ 7605.33' MD - KOP-RUBY 6-65 22-27 10HN									
7,650.00	4.47	181.11	7,602.66	780.04	150.95	-779.86	10.00	10.00	0.00
7,700.00	9.47	181.11	7,652.28	773.98	150.83	-773.80	10.00	10.00	0.00
7,750.00	14.47	181.11	7,701.18	763.62	150.63	-763.44	10.00	10.00	0.00
7,800.00	19.47	181.11	7,748.99	749.03	150.35	-748.85	10.00	10.00	0.00
7,850.00	24.47	181.11	7,795.34	730.34	149.98	-730.16	10.00	10.00	0.00
7,900.00	29.47	181.11	7,839.89	707.68	149.54	-707.50	10.00	10.00	0.00
7,950.00	34.47	181.11	7,882.30	681.22	149.03	-681.04	10.00	10.00	0.00
8,000.00	39.47	181.11	7,922.23	651.17	148.45	-650.99	10.00	10.00	0.00
8,050.00	44.47	181.11	7,959.40	617.75	147.80	-617.57	10.00	10.00	0.00
8,100.00	49.47	181.11	7,993.51	581.22	147.09	-581.04	10.00	10.00	0.00
8,150.00	54.47	181.11	8,024.30	541.86	146.32	-541.68	10.00	10.00	0.00
8,200.00	59.47	181.11	8,051.55	499.96	145.51	-499.79	10.00	10.00	0.00
8,250.00	64.47	181.11	8,075.04	455.85	144.65	-455.68	10.00	10.00	0.00
8,300.00	69.47	181.11	8,094.60	409.86	143.76	-409.69	10.00	10.00	0.00
8,350.00	74.47	181.11	8,110.07	362.34	142.84	-362.17	10.00	10.00	0.00
8,400.00	79.47	181.11	8,121.35	313.65	141.89	-313.48	10.00	10.00	0.00
8,450.00	84.47	181.11	8,128.33	264.17	140.93	-264.00	10.00	10.00	0.00
8,500.00	89.47	181.11	8,130.98	214.26	139.97	-214.10	10.00	10.00	0.00
8,505.33	90.00	181.11	8,131.00	208.93	139.86	-208.76	10.00	10.00	0.00
LP: 8505.33' MD, 90.00° Inc, 181.11° Azm - FTP-RUBY 6-65 22-27 10HN									
8,600.00	90.00	181.11	8,131.00	114.28	138.03	-114.12	0.00	0.00	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)
8,700.00	90.00	181.11	8,131.00	14.30	136.08	-14.14	0.00	0.00	0.00
8,800.00	90.00	181.11	8,131.00	-85.68	134.14	85.84	0.00	0.00	0.00
8,900.00	90.00	181.11	8,131.00	-185.66	132.20	185.82	0.00	0.00	0.00
9,000.00	90.00	181.11	8,131.00	-285.65	130.26	285.80	0.00	0.00	0.00
9,100.00	90.00	181.11	8,131.00	-385.63	128.32	385.78	0.00	0.00	0.00
9,200.00	90.00	181.11	8,131.00	-485.61	126.38	485.76	0.00	0.00	0.00
9,300.00	90.00	181.11	8,131.00	-585.59	124.44	585.73	0.00	0.00	0.00
9,400.00	90.00	181.11	8,131.00	-685.57	122.50	685.71	0.00	0.00	0.00
9,500.00	90.00	181.11	8,131.00	-785.55	120.56	785.69	0.00	0.00	0.00
9,600.00	90.00	181.11	8,131.00	-885.53	118.62	885.67	0.00	0.00	0.00
9,700.00	90.00	181.11	8,131.00	-985.51	116.68	985.65	0.00	0.00	0.00
9,800.00	90.00	181.11	8,131.00	-1,085.49	114.74	1,085.63	0.00	0.00	0.00
9,900.00	90.00	181.11	8,131.00	-1,185.48	112.80	1,185.61	0.00	0.00	0.00
10,000.00	90.00	181.11	8,131.00	-1,285.46	110.86	1,285.59	0.00	0.00	0.00
10,100.00	90.00	181.11	8,131.00	-1,385.44	108.92	1,385.57	0.00	0.00	0.00
10,200.00	90.00	181.11	8,131.00	-1,485.42	106.98	1,485.54	0.00	0.00	0.00
10,300.00	90.00	181.11	8,131.00	-1,585.40	105.04	1,585.52	0.00	0.00	0.00
10,400.00	90.00	181.11	8,131.00	-1,685.38	103.10	1,685.50	0.00	0.00	0.00
10,500.00	90.00	181.11	8,131.00	-1,785.36	101.16	1,785.48	0.00	0.00	0.00
10,600.00	90.00	181.11	8,131.00	-1,885.34	99.22	1,885.46	0.00	0.00	0.00
10,700.00	90.00	181.11	8,131.00	-1,985.33	97.27	1,985.44	0.00	0.00	0.00
10,800.00	90.00	181.11	8,131.00	-2,085.31	95.33	2,085.42	0.00	0.00	0.00
10,900.00	90.00	181.11	8,131.00	-2,185.29	93.39	2,185.40	0.00	0.00	0.00
11,000.00	90.00	181.11	8,131.00	-2,285.27	91.45	2,285.37	0.00	0.00	0.00
11,100.00	90.00	181.11	8,131.00	-2,385.25	89.51	2,385.35	0.00	0.00	0.00
11,200.00	90.00	181.11	8,131.00	-2,485.23	87.57	2,485.33	0.00	0.00	0.00
11,300.00	90.00	181.11	8,131.00	-2,585.21	85.63	2,585.31	0.00	0.00	0.00
11,400.00	90.00	181.11	8,131.00	-2,685.19	83.69	2,685.29	0.00	0.00	0.00
11,500.00	90.00	181.11	8,131.00	-2,785.17	81.75	2,785.27	0.00	0.00	0.00
11,600.00	90.00	181.11	8,131.00	-2,885.16	79.81	2,885.25	0.00	0.00	0.00
11,700.00	90.00	181.11	8,131.00	-2,985.14	77.87	2,985.23	0.00	0.00	0.00
11,800.00	90.00	181.11	8,131.00	-3,085.12	75.93	3,085.21	0.00	0.00	0.00
11,900.00	90.00	181.11	8,131.00	-3,185.10	73.99	3,185.18	0.00	0.00	0.00
12,000.00	90.00	181.11	8,131.00	-3,285.08	72.05	3,285.16	0.00	0.00	0.00
12,100.00	90.00	181.11	8,131.00	-3,385.06	70.11	3,385.14	0.00	0.00	0.00
12,200.00	90.00	181.11	8,131.00	-3,485.04	68.17	3,485.12	0.00	0.00	0.00
12,300.00	90.00	181.11	8,131.00	-3,585.02	66.23	3,585.10	0.00	0.00	0.00
12,400.00	90.00	181.11	8,131.00	-3,685.01	64.29	3,685.08	0.00	0.00	0.00
12,500.00	90.00	181.11	8,131.00	-3,784.99	62.35	3,785.06	0.00	0.00	0.00
12,600.00	90.00	181.11	8,131.00	-3,884.97	60.40	3,885.04	0.00	0.00	0.00
12,700.00	90.00	181.11	8,131.00	-3,984.95	58.46	3,985.01	0.00	0.00	0.00
12,800.00	90.00	181.11	8,131.00	-4,084.93	56.52	4,084.99	0.00	0.00	0.00
12,900.00	90.00	181.11	8,131.00	-4,184.91	54.58	4,184.97	0.00	0.00	0.00
13,000.00	90.00	181.11	8,131.00	-4,284.89	52.64	4,284.95	0.00	0.00	0.00
13,100.00	90.00	181.11	8,131.00	-4,384.87	50.70	4,384.93	0.00	0.00	0.00
13,200.00	90.00	181.11	8,131.00	-4,484.85	48.76	4,484.91	0.00	0.00	0.00
13,300.00	90.00	181.11	8,131.00	-4,584.84	46.82	4,584.89	0.00	0.00	0.00
13,400.00	90.00	181.11	8,131.00	-4,684.82	44.88	4,684.87	0.00	0.00	0.00
13,500.00	90.00	181.11	8,131.00	-4,784.80	42.94	4,784.85	0.00	0.00	0.00
13,600.00	90.00	181.11	8,131.00	-4,884.78	41.00	4,884.82	0.00	0.00	0.00
13,700.00	90.00	181.11	8,131.00	-4,984.76	39.06	4,984.80	0.00	0.00	0.00
13,800.00	90.00	181.11	8,131.00	-5,084.74	37.12	5,084.78	0.00	0.00	0.00
13,900.00	90.00	181.11	8,131.00	-5,184.72	35.18	5,184.76	0.00	0.00	0.00
14,000.00	90.00	181.11	8,131.00	-5,284.70	33.24	5,284.74	0.00	0.00	0.00

Database:	Local	Local Co-ordinate Reference:	Well RUBY 6-65 22-27 10HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6196.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6196.00usft
Site:	Ruby-Crystal Pad	North Reference:	True
Well:	RUBY 6-65 22-27 10HN	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)
14,100.00	90.00	181.11	8,131.00	-5,384.69	31.30	5,384.72	0.00	0.00	0.00
14,200.00	90.00	181.11	8,131.00	-5,484.67	29.36	5,484.70	0.00	0.00	0.00
14,300.00	90.00	181.11	8,131.00	-5,584.65	27.42	5,584.68	0.00	0.00	0.00
14,400.00	90.00	181.11	8,131.00	-5,684.63	25.48	5,684.65	0.00	0.00	0.00
14,500.00	90.00	181.11	8,131.00	-5,784.61	23.54	5,784.63	0.00	0.00	0.00
14,600.00	90.00	181.11	8,131.00	-5,884.59	21.59	5,884.61	0.00	0.00	0.00
14,700.00	90.00	181.11	8,131.00	-5,984.57	19.65	5,984.59	0.00	0.00	0.00
14,800.00	90.00	181.11	8,131.00	-6,084.55	17.71	6,084.57	0.00	0.00	0.00
14,900.00	90.00	181.11	8,131.00	-6,184.53	15.77	6,184.55	0.00	0.00	0.00
15,000.00	90.00	181.11	8,131.00	-6,284.52	13.83	6,284.53	0.00	0.00	0.00
15,100.00	90.00	181.11	8,131.00	-6,384.50	11.89	6,384.51	0.00	0.00	0.00
15,200.00	90.00	181.11	8,131.00	-6,484.48	9.95	6,484.49	0.00	0.00	0.00
15,262.96	90.00	181.11	8,131.00	-6,547.43	8.73	6,547.43	0.00	0.00	0.00
Hold: 90.00° Inc, 181.11° Azm - LTP-RUBY 6-65 22-27 10HN									
15,300.00	90.00	181.11	8,131.00	-6,584.46	8.01	6,584.46	0.00	0.00	0.00
15,312.97	90.00	181.11	8,131.00	-6,597.42	7.76	6,597.43	0.00	0.00	0.00
TD @ 15312.96' MD/8131.00' TVD - BHL-RUBY 6-65 22-27 10HN									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL-RUBY 6-65 22-2	0.00	0.00	0.00	0.00	0.00	1,612,493.88	3,241,110.14	39.511959	-104.645401
- plan hits target center									
- Point									
KOP-RUBY 6-65 22-2	0.00	0.00	7,558.04	781.78	150.98	1,613,277.04	3,241,253.76	39.514106	-104.644866
- plan hits target center									
- Point									
BHL-RUBY 6-65 22-2	0.00	0.00	8,131.00	-6,597.42	7.76	1,605,896.82	3,241,179.96	39.493846	-104.645373
- plan hits target center									
- Point									
LTP-RUBY 6-65 22-2	0.00	0.00	8,131.00	-6,547.43	8.73	1,605,946.82	3,241,180.46	39.493984	-104.645370
- plan hits target center									
- Point									
FTP-RUBY 6-65 22-2	0.00	0.00	8,131.00	208.93	139.86	1,612,704.11	3,241,248.03	39.512533	-104.644905
- plan hits target center									
- Point									

Database:	Local	Local Co-ordinate Reference:	Well RUBY 6-65 22-27 10HN
Company:	GMT Exploration Company, LLC	TVD Reference:	KB @ 6196.00usft
Project:	Elbert County, CO (NAD 83)	MD Reference:	KB @ 6196.00usft
Site:	Ruby-Crystal Pad	North Reference:	True
Well:	RUBY 6-65 22-27 10HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
456.02	456.00	Denver			
1,537.97	1,531.00	Upper Arapahoe			
2,243.11	2,231.00	Laramie - Fox Hills			
2,414.35	2,401.00	Pierre Shale (Base of Fox Hills)			
5,663.01	5,626.00	Sussex Sandstone			
8,018.07	7,936.00	Sharon Springs Shale			
8,031.52	7,946.00	Niobrara			
8,045.26	7,956.00	Niobrara A			
8,319.10	8,101.00	Niobrara B Top			

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
350.00	350.00	0.00	0.00	Build: 2°/100' @ 350.00' MD
695.94	695.10	20.48	3.96	Hold: 6.92° Inc, 10.93° Azm
6,959.40	6,912.95	761.30	147.02	Drop: 2°/100' @ 6959.40' MD
7,305.33	7,258.04	781.78	150.98	Hold: 0.00° Inc, 0.00° Azm
7,605.33	7,558.04	781.78	150.98	KOP: 10°/100' @ 7605.33' MD
8,505.33	8,131.00	208.93	139.86	LP: 8505.33' MD, 90.00° Inc, 181.11° Azm
15,262.96	8,131.00	-6,547.43	8.73	Hold: 90.00° Inc, 181.11° Azm
15,312.97	8,131.00	-6,597.42	7.76	TD @ 15312.96' MD/8131.00' TVD