

Black Diamond Minerals, LLC

**Garfield County, CO
Tepee Park Ranch 25A Pad
TPR 112-6 - Slot A3**

OH

Plan: Plan #2

Standard Planning Report

09 July, 2013



Database:	Grand Junction District	Local Co-ordinate Reference:	Well TPR 112-6 - Slot A3
Company:	Black Diamond Minerals, LLC	TVD Reference:	9131' GL & 24' RKB @ 9155.00ft (RKB Elevation)
Project:	Garfield County, CO	MD Reference:	9131' GL & 24' RKB @ 9155.00ft (RKB Elevation)
Site:	Tepee Park Ranch 25A Pad	North Reference:	True
Well:	TPR 112-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Project	Garfield County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		Using geodetic scale factor

Site	Tepee Park Ranch 25A Pad, Sec 25 T7S R94W		
Site Position:		Northing:	1,580,619.31 usft
From:	Map	Easting:	2,340,957.77 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	39° 24' 15.594 N
		Longitude:	107° 49' 57.316 W
		Grid Convergence:	-1.47 °

Well	TPR 112-6 - Slot A3, S-Well		
Well Position	+N/-S	12.56 ft	Northing:
	+E/-W	-8.19 ft	Easting:
Position Uncertainty	0.00 ft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/29/2010	10.42	65.73	52,319

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	112.93

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,232.61	21.65	112.93	1,207.03	-78.77	186.16	2.00	2.00	0.00	112.93	
6,379.37	21.65	112.93	5,990.63	-818.75	1,935.06	0.00	0.00	0.00	0.00	
7,822.85	0.00	0.00	7,400.00	-923.77	2,183.28	1.50	-1.50	0.00	180.00	
8,022.85	0.00	0.00	7,600.00	-923.77	2,183.28	0.00	0.00	0.00	0.00	TPR 212-6 Target
16,422.85	0.00	0.00	16,000.00	-923.77	2,183.28	0.00	0.00	0.00	0.00	

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Project:	Garfield County, CO	MD Reference:	9131' GL & 24' RKB @ 9155.00ft (RKB Elevation)
Site:	Tepee Park Ranch 25A Pad	North Reference:	True
Well:	TPR 112-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
200.00	1.00	112.93	200.00	-0.17	0.40	0.44	2.00	2.00	0.00
300.00	3.00	112.93	299.93	-1.53	3.62	3.93	2.00	2.00	0.00
400.00	5.00	112.93	399.68	-4.25	10.04	10.90	2.00	2.00	0.00
500.00	7.00	112.93	499.13	-8.32	19.67	21.35	2.00	2.00	0.00
600.00	9.00	112.93	598.15	-13.74	32.48	35.27	2.00	2.00	0.00
700.00	11.00	112.93	696.63	-20.51	48.47	52.63	2.00	2.00	0.00
800.00	13.00	112.93	794.44	-28.61	67.62	73.42	2.00	2.00	0.00
900.00	15.00	112.93	891.46	-38.04	89.90	97.62	2.00	2.00	0.00
1,000.00	17.00	112.93	987.58	-48.78	115.28	125.18	2.00	2.00	0.00
1,100.00	19.00	112.93	1,082.68	-60.82	143.74	156.08	2.00	2.00	0.00
1,200.00	21.00	112.93	1,176.65	-74.15	175.24	190.28	2.00	2.00	0.00
1,232.61	21.65	112.93	1,207.03	-78.77	186.16	202.14	2.00	2.00	0.00
Start 5146.76 hold at 1232.61 MD									
1,300.00	21.65	112.93	1,269.66	-88.46	209.06	227.00	0.00	0.00	0.00
1,400.00	21.65	112.93	1,362.60	-102.83	243.04	263.90	0.00	0.00	0.00
1,500.00	21.65	112.93	1,455.55	-117.21	277.02	300.80	0.00	0.00	0.00
1,600.00	21.65	112.93	1,548.49	-131.59	311.00	337.69	0.00	0.00	0.00
1,700.00	21.65	112.93	1,641.44	-145.97	344.98	374.59	0.00	0.00	0.00
1,800.00	21.65	112.93	1,734.38	-160.34	378.96	411.49	0.00	0.00	0.00
1,900.00	21.65	112.93	1,827.32	-174.72	412.94	448.39	0.00	0.00	0.00
2,000.00	21.65	112.93	1,920.27	-189.10	446.92	485.28	0.00	0.00	0.00
2,100.00	21.65	112.93	2,013.21	-203.48	480.90	522.18	0.00	0.00	0.00
2,200.00	21.65	112.93	2,106.16	-217.85	514.89	559.08	0.00	0.00	0.00
2,300.00	21.65	112.93	2,199.10	-232.23	548.87	595.97	0.00	0.00	0.00
2,400.00	21.65	112.93	2,292.05	-246.61	582.85	632.87	0.00	0.00	0.00
2,500.00	21.65	112.93	2,384.99	-260.99	616.83	669.77	0.00	0.00	0.00
2,600.00	21.65	112.93	2,477.93	-275.36	650.81	706.67	0.00	0.00	0.00
2,623.74	21.65	112.93	2,500.00	-278.78	658.88	715.43	0.00	0.00	0.00
9 5/8"									
2,700.00	21.65	112.93	2,570.88	-289.74	684.79	743.56	0.00	0.00	0.00
2,800.00	21.65	112.93	2,663.82	-304.12	718.77	780.46	0.00	0.00	0.00
2,900.00	21.65	112.93	2,756.77	-318.50	752.75	817.36	0.00	0.00	0.00
3,000.00	21.65	112.93	2,849.71	-332.87	786.73	854.25	0.00	0.00	0.00
3,100.00	21.65	112.93	2,942.65	-347.25	820.71	891.15	0.00	0.00	0.00
3,200.00	21.65	112.93	3,035.60	-361.63	854.69	928.05	0.00	0.00	0.00
3,300.00	21.65	112.93	3,128.54	-376.01	888.67	964.95	0.00	0.00	0.00
3,400.00	21.65	112.93	3,221.49	-390.38	922.65	1,001.84	0.00	0.00	0.00
3,500.00	21.65	112.93	3,314.43	-404.76	956.63	1,038.74	0.00	0.00	0.00
3,600.00	21.65	112.93	3,407.37	-419.14	990.61	1,075.64	0.00	0.00	0.00
3,700.00	21.65	112.93	3,500.32	-433.52	1,024.60	1,112.53	0.00	0.00	0.00
3,800.00	21.65	112.93	3,593.26	-447.90	1,058.58	1,149.43	0.00	0.00	0.00
3,900.00	21.65	112.93	3,686.21	-462.27	1,092.56	1,186.33	0.00	0.00	0.00
4,000.00	21.65	112.93	3,779.15	-476.65	1,126.54	1,223.23	0.00	0.00	0.00
4,100.00	21.65	112.93	3,872.09	-491.03	1,160.52	1,260.12	0.00	0.00	0.00
4,200.00	21.65	112.93	3,965.04	-505.41	1,194.50	1,297.02	0.00	0.00	0.00
4,300.00	21.65	112.93	4,057.98	-519.78	1,228.48	1,333.92	0.00	0.00	0.00
4,400.00	21.65	112.93	4,150.93	-534.16	1,262.46	1,370.81	0.00	0.00	0.00
4,500.00	21.65	112.93	4,243.87	-548.54	1,296.44	1,407.71	0.00	0.00	0.00

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Site:	Tepee Park Ranch 25A Pad	North Reference:	True
Well:	TPR 112-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,600.00	21.65	112.93	4,336.81	-562.92	1,330.42	1,444.61	0.00	0.00	0.00
4,700.00	21.65	112.93	4,429.76	-577.29	1,364.40	1,481.51	0.00	0.00	0.00
4,800.00	21.65	112.93	4,522.70	-591.67	1,398.38	1,518.40	0.00	0.00	0.00
4,900.00	21.65	112.93	4,615.65	-606.05	1,432.36	1,555.30	0.00	0.00	0.00
5,000.00	21.65	112.93	4,708.59	-620.43	1,466.34	1,592.20	0.00	0.00	0.00
5,100.00	21.65	112.93	4,801.54	-634.80	1,500.32	1,629.09	0.00	0.00	0.00
5,200.00	21.65	112.93	4,894.48	-649.18	1,534.31	1,665.99	0.00	0.00	0.00
5,300.00	21.65	112.93	4,987.42	-663.56	1,568.29	1,702.89	0.00	0.00	0.00
5,400.00	21.65	112.93	5,080.37	-677.94	1,602.27	1,739.79	0.00	0.00	0.00
5,500.00	21.65	112.93	5,173.31	-692.31	1,636.25	1,776.68	0.00	0.00	0.00
5,600.00	21.65	112.93	5,266.26	-706.69	1,670.23	1,813.58	0.00	0.00	0.00
5,700.00	21.65	112.93	5,359.20	-721.07	1,704.21	1,850.48	0.00	0.00	0.00
5,800.00	21.65	112.93	5,452.14	-735.45	1,738.19	1,887.37	0.00	0.00	0.00
5,900.00	21.65	112.93	5,545.09	-749.82	1,772.17	1,924.27	0.00	0.00	0.00
6,000.00	21.65	112.93	5,638.03	-764.20	1,806.15	1,961.17	0.00	0.00	0.00
6,100.00	21.65	112.93	5,730.98	-778.58	1,840.13	1,998.07	0.00	0.00	0.00
6,200.00	21.65	112.93	5,823.92	-792.96	1,874.11	2,034.96	0.00	0.00	0.00
6,300.00	21.65	112.93	5,916.86	-807.34	1,908.09	2,071.86	0.00	0.00	0.00
6,379.37	21.65	112.93	5,990.63	-818.75	1,935.06	2,101.15	0.00	0.00	0.00
Start Drop -1.50									
6,400.00	21.34	112.93	6,009.83	-821.69	1,942.03	2,108.71	1.50	-1.50	0.00
6,500.00	19.84	112.93	6,103.44	-835.40	1,974.42	2,143.88	1.50	-1.50	0.00
6,600.00	18.34	112.93	6,197.93	-848.14	2,004.54	2,176.59	1.50	-1.50	0.00
6,700.00	16.84	112.93	6,293.25	-859.92	2,032.38	2,206.81	1.50	-1.50	0.00
6,800.00	15.34	112.93	6,389.33	-870.72	2,057.90	2,234.53	1.50	-1.50	0.00
6,900.00	13.84	112.93	6,486.10	-880.54	2,081.11	2,259.72	1.50	-1.50	0.00
7,000.00	12.34	112.93	6,583.50	-889.37	2,101.97	2,282.37	1.50	-1.50	0.00
7,100.00	10.84	112.93	6,681.46	-897.20	2,120.47	2,302.47	1.50	-1.50	0.00
7,200.00	9.34	112.93	6,779.91	-904.02	2,136.61	2,319.99	1.50	-1.50	0.00
7,300.00	7.84	112.93	6,878.78	-909.85	2,150.37	2,334.93	1.50	-1.50	0.00
7,400.00	6.34	112.93	6,978.01	-914.66	2,161.74	2,347.28	1.50	-1.50	0.00
7,500.00	4.84	112.93	7,077.54	-918.46	2,170.72	2,357.03	1.50	-1.50	0.00
7,600.00	3.34	112.93	7,177.28	-921.24	2,177.29	2,364.16	1.50	-1.50	0.00
7,700.00	1.84	112.93	7,277.17	-923.00	2,181.46	2,368.69	1.50	-1.50	0.00
7,800.00	0.34	112.93	7,377.15	-923.74	2,183.21	2,370.59	1.50	-1.50	0.00
7,822.85	0.00	0.00	7,400.00	-923.77	2,183.28	2,370.66	1.50	-1.50	0.00
Start 200.00 hold at 7822.85 MD									
7,900.00	0.00	0.00	7,477.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
8,000.00	0.00	0.00	7,577.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
8,022.85	0.00	0.00	7,600.00	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
Start 8400.00 hold at 8022.85 MD - TPR 212-6 Target									
8,100.00	0.00	0.00	7,677.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
8,200.00	0.00	0.00	7,777.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
8,300.00	0.00	0.00	7,877.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
8,400.00	0.00	0.00	7,977.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
8,500.00	0.00	0.00	8,077.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
8,600.00	0.00	0.00	8,177.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
8,700.00	0.00	0.00	8,277.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
8,800.00	0.00	0.00	8,377.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
8,900.00	0.00	0.00	8,477.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
9,000.00	0.00	0.00	8,577.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00

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Wellbore:	OH		
Design:	Plan #2		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,100.00	0.00	0.00	8,677.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
9,200.00	0.00	0.00	8,777.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
9,300.00	0.00	0.00	8,877.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
9,400.00	0.00	0.00	8,977.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,077.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,177.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,277.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,377.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,477.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,577.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
10,100.00	0.00	0.00	9,677.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
10,200.00	0.00	0.00	9,777.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
10,300.00	0.00	0.00	9,877.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
10,400.00	0.00	0.00	9,977.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
10,500.00	0.00	0.00	10,077.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
10,600.00	0.00	0.00	10,177.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
10,700.00	0.00	0.00	10,277.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
10,800.00	0.00	0.00	10,377.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
10,900.00	0.00	0.00	10,477.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
11,000.00	0.00	0.00	10,577.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
11,100.00	0.00	0.00	10,677.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
11,200.00	0.00	0.00	10,777.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
11,300.00	0.00	0.00	10,877.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
11,400.00	0.00	0.00	10,977.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
11,422.85	0.00	0.00	11,000.00	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
7"										
11,500.00	0.00	0.00	11,077.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
11,600.00	0.00	0.00	11,177.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
11,700.00	0.00	0.00	11,277.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
11,800.00	0.00	0.00	11,377.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
11,900.00	0.00	0.00	11,477.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
12,000.00	0.00	0.00	11,577.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
12,100.00	0.00	0.00	11,677.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
12,200.00	0.00	0.00	11,777.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
12,300.00	0.00	0.00	11,877.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
12,400.00	0.00	0.00	11,977.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
12,500.00	0.00	0.00	12,077.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
12,600.00	0.00	0.00	12,177.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
12,700.00	0.00	0.00	12,277.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
12,800.00	0.00	0.00	12,377.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
12,900.00	0.00	0.00	12,477.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
13,000.00	0.00	0.00	12,577.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
13,100.00	0.00	0.00	12,677.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
13,200.00	0.00	0.00	12,777.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
13,300.00	0.00	0.00	12,877.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
13,400.00	0.00	0.00	12,977.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
13,500.00	0.00	0.00	13,077.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
13,600.00	0.00	0.00	13,177.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
13,700.00	0.00	0.00	13,277.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
13,800.00	0.00	0.00	13,377.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
13,900.00	0.00	0.00	13,477.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	
14,000.00	0.00	0.00	13,577.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00	

Database:	Grand Junction District	Local Co-ordinate Reference:	Well TPR 112-6 - Slot A3
Company:	Black Diamond Minerals, LLC	TVD Reference:	9131' GL & 24' RKB @ 9155.00ft (RKB Elevation)
Project:	Garfield County, CO	MD Reference:	9131' GL & 24' RKB @ 9155.00ft (RKB Elevation)
Site:	Tepee Park Ranch 25A Pad	North Reference:	True
Well:	TPR 112-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
14,100.00	0.00	0.00	13,677.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
14,200.00	0.00	0.00	13,777.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
14,300.00	0.00	0.00	13,877.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
14,400.00	0.00	0.00	13,977.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
14,500.00	0.00	0.00	14,077.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
14,600.00	0.00	0.00	14,177.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
14,700.00	0.00	0.00	14,277.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
14,800.00	0.00	0.00	14,377.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
14,900.00	0.00	0.00	14,477.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
15,000.00	0.00	0.00	14,577.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
15,100.00	0.00	0.00	14,677.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
15,200.00	0.00	0.00	14,777.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
15,300.00	0.00	0.00	14,877.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
15,400.00	0.00	0.00	14,977.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
15,500.00	0.00	0.00	15,077.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
15,600.00	0.00	0.00	15,177.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
15,700.00	0.00	0.00	15,277.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
15,800.00	0.00	0.00	15,377.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
15,900.00	0.00	0.00	15,477.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
16,000.00	0.00	0.00	15,577.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
16,100.00	0.00	0.00	15,677.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
16,200.00	0.00	0.00	15,777.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
16,300.00	0.00	0.00	15,877.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
16,400.00	0.00	0.00	15,977.15	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
16,422.85	0.00	0.00	16,000.00	-923.77	2,183.28	2,370.66	0.00	0.00	0.00
TD at 16422.85 - 4 1/2"									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TPR 212-6 Target - plan hits target center - Circle (radius 100.00)	0.00	0.00	7,600.00	-923.77	2,183.28	1,579,652.61	2,343,108.63	39° 24' 6.587 N	107° 49' 29.607 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,623.74	2,500.00	9 5/8"	9.625	12.250
11,422.85	11,000.00	7"	7.000	7.500
16,422.85	16,000.00	4 1/2"	4.500	6.750

Database:	Grand Junction District	Local Co-ordinate Reference:	Well TPR 112-6 - Slot A3
Company:	Black Diamond Minerals, LLC	TVD Reference:	9131' GL & 24' RKB @ 9155.00ft (RKB Elevation)
Project:	Garfield County, CO	MD Reference:	9131' GL & 24' RKB @ 9155.00ft (RKB Elevation)
Site:	Tepee Park Ranch 25A Pad	North Reference:	True
Well:	TPR 112-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
150.00	150.00	0.00	0.00	Start Build 2.00
1,232.61	1,207.03	-78.77	186.16	Start 5146.76 hold at 1232.61 MD
6,379.37	5,990.63	-818.75	1,935.06	Start Drop -1.50
7,822.85	7,400.00	-923.77	2,183.28	Start 200.00 hold at 7822.85 MD
8,022.85	7,600.00	-923.77	2,183.28	Start 8400.00 hold at 8022.85 MD
16,422.85	16,000.00	-923.77	2,183.28	TD at 16422.85