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COGCC

045-16950

Black Diamond Minerals, LLC

Garfield County, CO

Tepee Park Ranch 36A Pad

TPR 143-36

OH

Plan: Plan 2

Standard Planning Report

28 August, 2008

Scientific Drilling

Planning Report

Database	EDM 2003 16 Multi-User Db	Local Co-ordinate Reference	Well TPR 143-36
Company	Black Diamond Minerals, LLC	TVD Reference	GL 9345' @ 9345' 00ft (Ground Level)
Project	Garfield County, CO	MD Reference	GL 9345' @ 9345' 00ft (Ground Level)
Site	Tepee Park Ranch 36A Pad	North Reference	True
Well	TPR 143-36	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		

Site	Tepee Park Ranch 36A Pad, Sec 36 T7S R94W				
Site Position		Northing	1,577,226 01 ft	Latitude	39° 23' 42 061 N
From	Lat/Long	Easting	2,341,067 38 ft	Longitude	107° 49' 54 889 W
Position Uncertainty	0 00 ft	Slot Radius	in	Grid Convergence	-1 47 °

Well	TPR 143-36					
Well Position	+N-S	0 00 ft	Northing	1,577,197 91 ft	Latitude	39° 23' 41 780 N
	+E-W	0 00 ft	Easting	2,341,054 78 ft	Longitude	107° 49' 55 020 W
Position Uncertainty	0 00 ft	Wellhead Elevation		ft	Ground Level	9,345 00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	2008/01/08	10 69	65 79	52,557

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	132 29	

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	
120 00	0 00	0 00	120 00	0 00	0 00	0 00	0 00	0 00	0 00	
542 19	12 67	132 29	538 76	-31 27	34 38	3 00	3 00	0 00	132 29	
7,966 57	12 67	132 29	7,782 47	-1,126 63	1,238 64	0 00	0 00	0 00	0 00	
8,810 96	0 00	0 00	8,620 00	-1,189 18	1,307 40	1 50	-1 50	0 00	180 00	TPR 143-36 Target
11,510 96	0 00	0 00	11,320 00	-1,189 18	1,307 40	0 00	0 00	0 00	0 00	

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Well	TPR 143-36	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
120 00	0 00	0 00	120 00	0 00	0 00	0 00	0 00	0 00	0 00
200 00	2 40	132 29	199 98	-1 13	1 24	1 68	3 00	3 00	0 00
300 00	5 40	132 29	299 73	-5 70	6 27	8 48	3 00	3 00	0 00
400 00	8 40	132 29	399 00	-13 79	15 16	20 49	3 00	3 00	0 00
500 00	11 40	132 29	497 50	-25 35	27 87	37 68	3 00	3 00	0 00
542 19	12 67	132 29	538 76	-31 27	34 38	46 48	3 00	3 00	0 00
600 00	12 67	132 29	595 16	-39 80	43 76	59 15	0 00	0 00	0 00
700 00	12 67	132 29	692 73	-54 55	59 98	81 08	0 00	0 00	0 00
800 00	12 67	132 29	790 30	-69 31	76 20	103 00	0 00	0 00	0 00
900 00	12 67	132 29	887 86	-84 06	92 42	124 93	0 00	0 00	0 00
1,000 00	12 67	132 29	985 43	-98 81	108 64	146 86	0 00	0 00	0 00
1,100 00	12 67	132 29	1 083 00	-113 57	124 86	168 78	0 00	0 00	0 00
1,200 00	12 67	132 29	1 180 56	-128 32	141 08	190 71	0 00	0 00	0 00
1,300 00	12 67	132 29	1,278 13	-143 08	157 30	212 63	0 00	0 00	0 00
1 400 00	12 67	132 29	1,375 70	-157 83	173 52	234 56	0 00	0 00	0 00
1 500 00	12 67	132 29	1,473 26	-172 58	189 74	256 49	0 00	0 00	0 00
1,600 00	12 67	132 29	1,570 83	-187 34	205 96	278 41	0 00	0 00	0 00
1,700 00	12 67	132 29	1,668 40	-202 09	222 18	300 34	0 00	0 00	0 00
1,800 00	12 67	132 29	1,765 98	-216 84	238 40	322 27	0 00	0 00	0 00
1,900 00	12 67	132 29	1,863 53	-231 60	254 62	344 19	0 00	0 00	0 00
2,000 00	12 67	132 29	1,961 09	-246 35	270 84	366 12	0 00	0 00	0 00
2 100 00	12 67	132 29	2,058 66	-261 10	287 06	388 05	0 00	0 00	0 00
2,200 00	12 67	132 29	2,156 23	-275 86	303 28	409 97	0 00	0 00	0 00
2,300 00	12 67	132 29	2,253 79	-290 61	319 50	431 90	0 00	0 00	0 00
2,400 00	12 67	132 29	2,351 36	-305 37	335 72	453 82	0 00	0 00	0 00
2,500 00	12 67	132 29	2,448 93	-320 12	351 94	475 75	0 00	0 00	0 00
2,600 00	12 67	132 29	2,546 49	-334 87	368 16	497 68	0 00	0 00	0 00
2,700 00	12 67	132 29	2,644 06	-349 63	384 38	519 60	0 00	0 00	0 00
2,800 00	12 67	132 29	2,741 63	-364 38	400 60	541 53	0 00	0 00	0 00
2,900 00	12 67	132 29	2,839 19	-379 13	416 82	563 46	0 00	0 00	0 00
3,000 00	12 67	132 29	2,936 76	-393 89	433 04	585 38	0 00	0 00	0 00
3,100 00	12 67	132 29	3 034 33	-408 64	449 26	607 31	0 00	0 00	0 00
3,200 00	12 67	132 29	3,131 89	-423 39	465 48	629 24	0 00	0 00	0 00
3,300 00	12 67	132 29	3 229 46	-438 15	481 70	651 16	0 00	0 00	0 00
3 400 00	12 67	132 29	3,327 03	-452 90	497 92	673 09	0 00	0 00	0 00
3,500 00	12 67	132 29	3,424 59	-467 65	514 15	695 02	0 00	0 00	0 00
3,600 00	12 67	132 29	3,522 16	-482 41	530 37	716 94	0 00	0 00	0 00
3,700 00	12 67	132 29	3,619 73	-497 16	546 59	738 87	0 00	0 00	0 00
3,800 00	12 67	132 29	3,717 29	-511 92	562 81	760 79	0 00	0 00	0 00
3,900 00	12 67	132 29	3,814 86	-526 67	579 03	782 72	0 00	0 00	0 00
4,000 00	12 67	132 29	3,912 43	-541 42	595 25	804 65	0 00	0 00	0 00
4,100 00	12 67	132 29	4,009 99	-556 18	611 47	826 57	0 00	0 00	0 00
4,200 00	12 67	132 29	4,107 56	-570 93	627 69	848 50	0 00	0 00	0 00
4,300 00	12 67	132 29	4,205 13	-585 68	643 91	870 43	0 00	0 00	0 00
4,400 00	12 67	132 29	4,302 69	-600 44	660 13	892 35	0 00	0 00	0 00
4,500 00	12 67	132 29	4 400 26	-615 19	676 35	914 28	0 00	0 00	0 00
4,600 00	12 67	132 29	4,497 83	-629 94	692 57	936 21	0 00	0 00	0 00
4,700 00	12 67	132 29	4,595 39	-644 70	708 79	958 13	0 00	0 00	0 00
4,800 00	12 67	132 29	4,692 96	-659 45	725 01	980 06	0 00	0 00	0 00
4,900 00	12 67	132 29	4,790 53	-674 20	741 23	1,001 98	0 00	0 00	0 00
5,000 00	12 67	132 29	4,888 09	-688 96	757 45	1,023 91	0 00	0 00	0 00
5,100 00	12 67	132 29	4,985 66	-703 71	773 67	1,045 84	0 00	0 00	0 00

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Project	Garfield County, CO	MD Reference	GL 9345' @ 9345 00ft (Ground Level)
Site	Tepee Park Ranch 36A Pad	North Reference	True
Well	TPR 143-36	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)
5,200 00	12 67	132 29	5,083 22	-718 47	789 89	1,067 76	0 00	0 00	0 00
5,300 00	12 67	132 29	5,180 79	-733 22	806 11	1,089 69	0 00	0 00	0 00
5,400 00	12 67	132 29	5,278 36	-747 97	822 33	1,111 62	0 00	0 00	0 00
5,500 00	12 67	132 29	5,375 92	-762 73	838 55	1,133 54	0 00	0 00	0 00
5,600 00	12 67	132 29	5,473 49	-777 48	854 77	1,155 47	0 00	0 00	0 00
5,700 00	12 67	132 29	5,571 06	-792 23	870 99	1,177 40	0 00	0 00	0 00
5,800 00	12 67	132 29	5,668 62	-806 99	887 21	1 199 32	0 00	0 00	0 00
5,900 00	12 67	132 29	5,766 19	-821 74	903 43	1,221 25	0 00	0 00	0 00
6,000 00	12 67	132 29	5,863 76	-836 49	919 65	1,243 17	0 00	0 00	0 00
6,100 00	12 67	132 29	5,961 32	-851 25	935 87	1,265 10	0 00	0 00	0 00
6,200 00	12 67	132 29	6,058 89	-866 00	952 09	1,287 03	0 00	0 00	0 00
6,300 00	12 67	132 29	6,156 46	-880 76	968 31	1,308 95	0 00	0 00	0 00
6,400 00	12 67	132 29	6,254 02	-895 51	984 53	1,330 88	0 00	0 00	0 00
6,500 00	12 67	132 29	6,351 59	-910 26	1,000 75	1,352 81	0 00	0 00	0 00
6,600 00	12 67	132 29	6,449 16	-925 02	1,016 97	1,374 73	0 00	0 00	0 00
6,700 00	12 67	132 29	6,546 72	-939 77	1,033 19	1,396 66	0 00	0 00	0 00
6,800 00	12 67	132 29	6,644 29	-954 52	1 049 41	1 418 59	0 00	0 00	0 00
6,900 00	12 67	132 29	6,741 86	-969 28	1,065 63	1,440 51	0 00	0 00	0 00
7,000 00	12 67	132 29	6,839 42	-984 03	1,081 86	1,462 44	0 00	0 00	0 00
7,100 00	12 67	132 29	6,936 99	-998 78	1,098 08	1,484 36	0 00	0 00	0 00
7,200 00	12 67	132 29	7,034 56	-1,013 54	1,114 30	1,506 29	0 00	0 00	0 00
7,300 00	12 67	132 29	7,132 12	-1,028 29	1,130 52	1,528 22	0 00	0 00	0 00
7,400 00	12 67	132 29	7,229 69	-1,043 04	1,146 74	1,550 14	0 00	0 00	0 00
7,500 00	12 67	132 29	7,327 26	-1,057 80	1,162 96	1,572 07	0 00	0 00	0 00
7,600 00	12 67	132 29	7,424 82	-1,072 55	1,179 18	1,594 00	0 00	0 00	0 00
7,700 00	12 67	132 29	7,522 39	-1,087 31	1,195 40	1,615 92	0 00	0 00	0 00
7,800 00	12 67	132 29	7,619 96	-1,102 06	1,211 62	1,637 85	0 00	0 00	0 00
7,900 00	12 67	132 29	7,717 52	-1,116 81	1,227 84	1,659 78	0 00	0 00	0 00
7,966 57	12 67	132 29	7,782 47	-1,126 63	1,238 64	1,674 37	0 00	0 00	0 00
8,000 00	12 16	132 29	7,815 12	-1,131 47	1,243 95	1 681 56	1 50	-1 50	0 00
8,100 00	10 66	132 29	7,913 14	-1,144 79	1,258 59	1,701 35	1 50	-1 50	0 00
8,200 00	9 16	132 29	8,011 64	-1,156 37	1,271 33	1,718 57	1 50	-1 50	0 00
8,300 00	7 66	132 29	8,110 56	-1 166 22	1,282 15	1,733 20	1 50	-1 50	0 00
8,400 00	6 16	132 29	8 209 83	-1,174 32	1,291 06	1,745 24	1 50	-1 50	0 00
8,500 00	4 66	132 29	8 309 39	-1,180 67	1,298 04	1,754 67	1 50	-1 50	0 00
8,600 00	3 16	132 29	8,409 15	-1,185 26	1,303 09	1,761 50	1 50	-1 50	0 00
8,700 00	1 66	132 29	8 509 06	-1,188 09	1,308 20	1,765 71	1 50	-1 50	0 00
8,800 00	0 16	132 29	8,609 04	-1,189 17	1,307 39	1,767 31	1 50	-1 50	0 00
8,810 96	0 00	0 00	8,620 00	-1,189 18	1,307 40	1 767 32	1 50	-1 50	0 00
8,900 00	0 00	0 00	8,709 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
9,000 00	0 00	0 00	8,809 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
9,100 00	0 00	0 00	8,909 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
9,170 96	0 00	0 00	8,980 00	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
Rollins									
9,200 00	0 00	0 00	9,009 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
9,300 00	0 00	0 00	9,109 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
9,400 00	0 00	0 00	9,209 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
9,500 00	0 00	0 00	9,309 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
9,600 00	0 00	0 00	9,409 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
9,700 00	0 00	0 00	9,509 04	-1 189 18	1,307 40	1,767 32	0 00	0 00	0 00
9,800 00	0 00	0 00	9,609 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
9,900 00	0 00	0 00	9,709 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
10,000 00	0 00	0 00	9,809 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00

Scientific Drilling Planning Report

Database	EDM 2003 16 Multi-User Db	Local Co-ordinate Reference	Well TPR 143-36
Company	Black Diamond Minerals, LLC	TVD Reference	GL 9345' @ 9345 00ft (Ground Level)
Project	Garfield County, CO	MD Reference	GL 9345' @ 9345 00ft (Ground Level)
Site	Tepee Park Ranch 36A Pad	North Reference	True
Well	TPR 143-36	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)
10,100 00	0 00	0 00	9,909 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
10,200 00	0 00	0 00	10,009 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
10,300 00	0 00	0 00	10,109 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
10,400 00	0 00	0 00	10,209 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
10,500 00	0 00	0 00	10,309 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
10,600 00	0 00	0 00	10,409 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
10,700 00	0 00	0 00	10,509 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
10,800 00	0 00	0 00	10,609 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
10,900 00	0 00	0 00	10,709 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
11,000 00	0 00	0 00	10,809 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
11,100 00	0 00	0 00	10,909 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
11,200 00	0 00	0 00	11,009 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
11,300 00	0 00	0 00	11,109 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
11,400 00	0 00	0 00	11,209 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
11,500 00	0 00	0 00	11,309 04	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00
11,510 96	0 00	0 00	11,320 00	-1,189 18	1,307 40	1,767 32	0 00	0 00	0 00

Targets

Target Name	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
TPR 143-36 Target	0 00	0 00	8,620 00	-1,189 18	1,307 40	1,575,975 57	2,342,331 23	39° 23' 30 026 N	107° 49' 38 366 W
- plan hits target center									
- Rectangle (sides W300 00 H300 00 D2 700 00)									

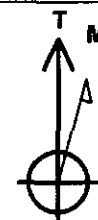
Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
167 00	167 00	-0 39	0 43	Start Build 3 00
569 98	565 87	-35 37	38 89	Start 12 09° hold at 522 98
8,035 57	7,849 92	-1,136 40	1 249 38	Start Drop -1 50
8 841 52	8,650 56	-1,189 18	1 307 40	Start 0 00° hold at 8794 52
11,541 52				TD at 11494 52



Scientific Drilling
Rocky Mountain Operations

Project Garfield County, CO
Site Tepee Park Ranch 36A Pad Black Diamond Minerals, LLC
Well TPR 112-6
Wellbore OH
Design Plan 2

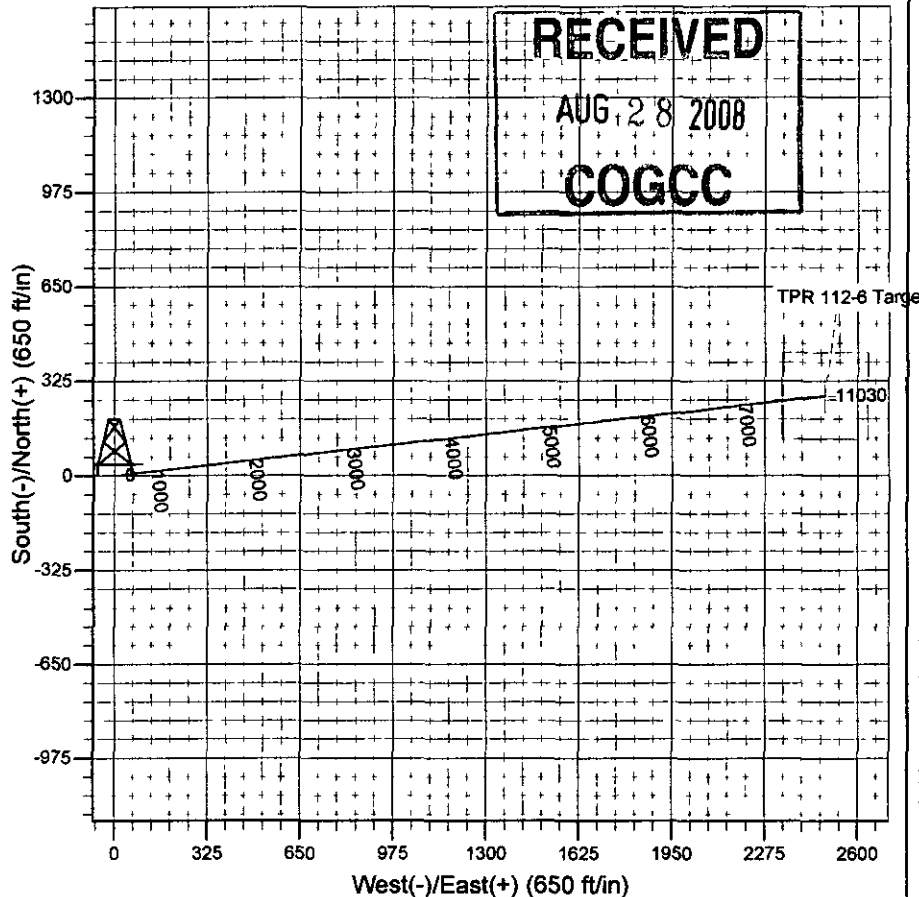
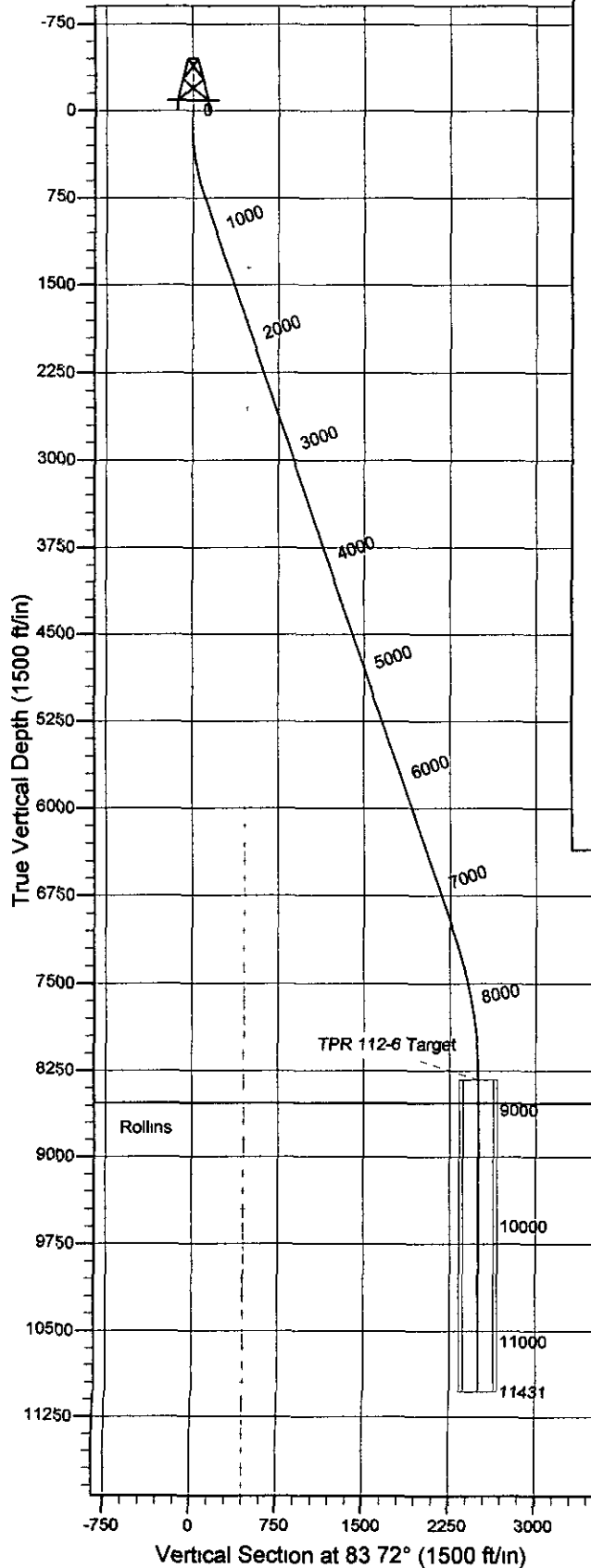


Azimuths to True North
Magnetic North 10 65°

Magnetic Field
Strength 52529 7snT
Dip Angle 65 78°
Date 2008/04/21
Model IGRF2005-10

WELL DETAILS TPR 112-6

GL 9345' @ 9345 00ft (Ground Level) 9345 00
+N/-S 0 00 +E/-W 0 00 Northing 1577211 95 Easting 2341061 36 39° 23' 41 921 N Longitude 107° 49' 54 941 W



RECEIVED
AUG 28 2008
COGCC

Plan Plan 2 (TPR 112-6/OH)

Created By Julie Cruse Date 2008-08-28

PROJECT DETAILS Garfield County, CO

Geodetic System US State Plane 1983
Datum North American Datum 1983
Ellipsoid GRS 1980
Zone Colorado Central Zone
Location Sec 36 T7S R94W
System Datum Mean Sea Level
Local North True

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
120 00	0 00	0 00	120 00	0 00	0 00	0 00	0 00	0 00	
754 10	19 02	83 72	742 51	11 40	103 68	3 00	83 72	104 30	
7482 94	19 02	83 72	7084 97	250 49	2277 29	0 00	0 00	2291 03	
8731 14	0 00	0 00	8330 00	273 29	2484 65	1 50	180 00	2499 63	TPR 112-6 Target
11431 14	0 00	0 00	1030 00	273 29	2484 65	0 00	0 00	2499 63	



Scientific Drilling
Rocky Mountain Operations

Project Garfield County, CO
Site Tepee Park Ranch 36A Pad
Well TPR 143-36
Wellbore OH
Design Plan 2

Black Diamond Minerals, LLC

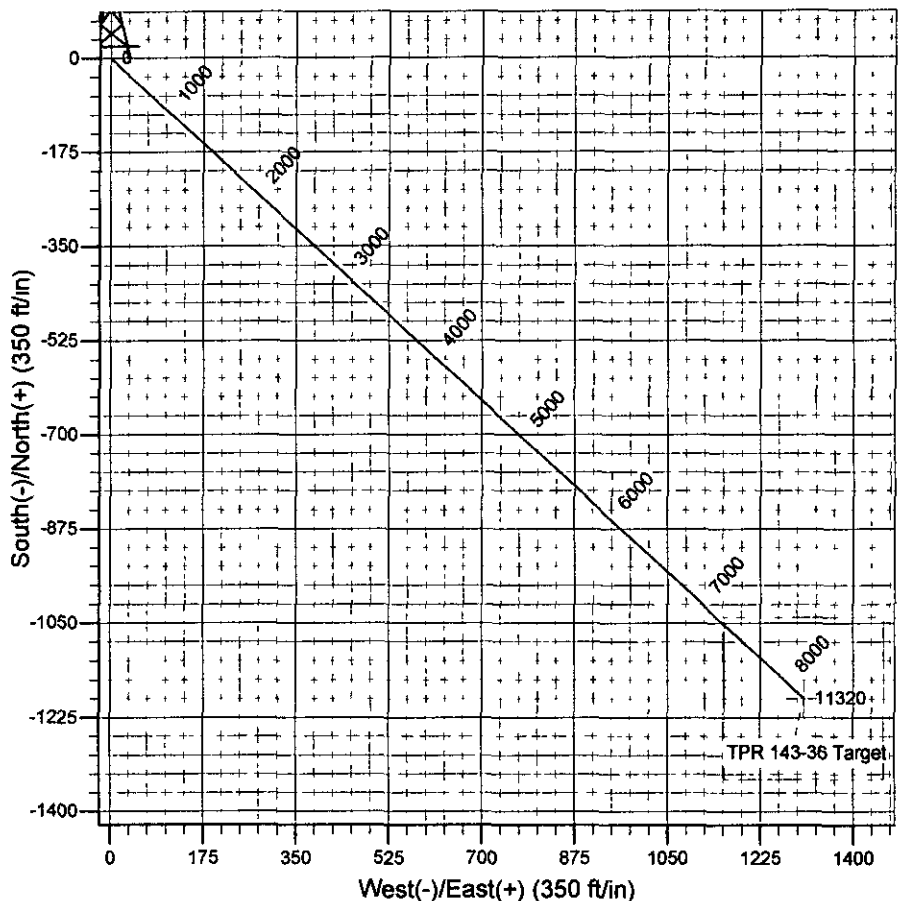
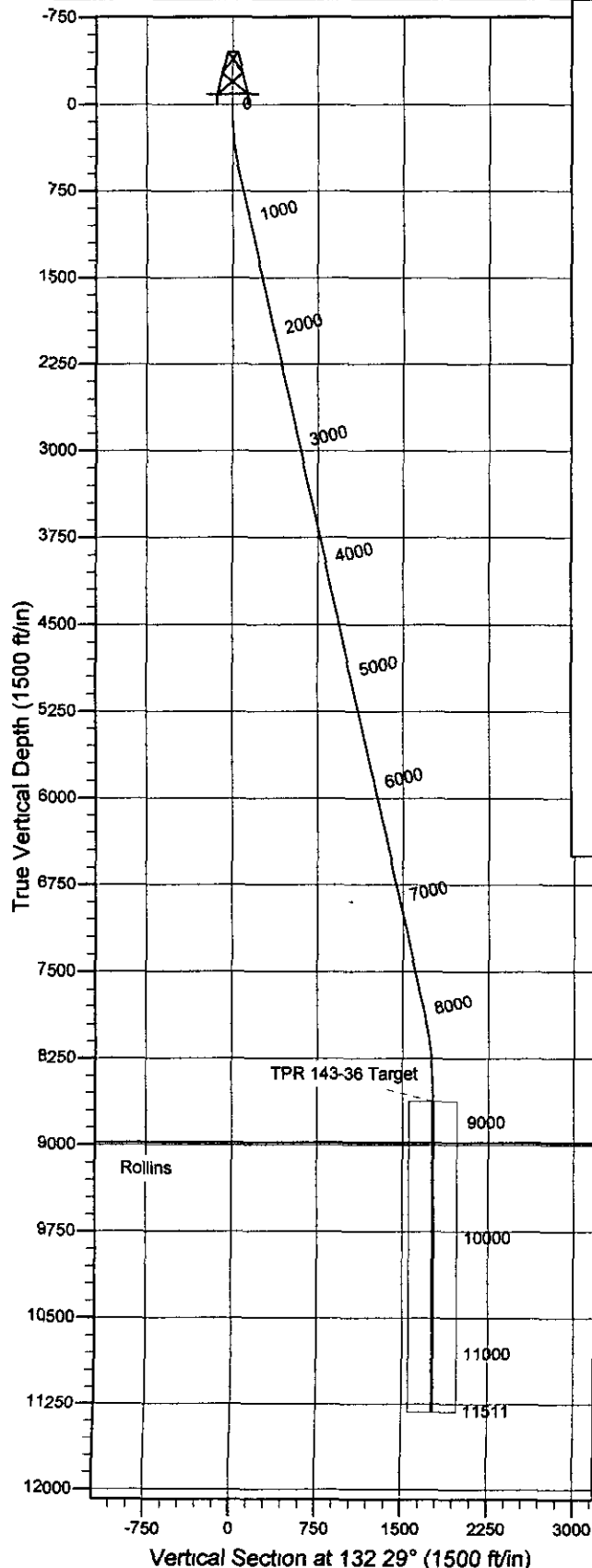


Azimuths to True North
Magnetic North 10 69°

Magnetic Field
Strength 52557 4snT
Dip Angle 65 79°
Date 2008/01/08
Model IGRF2005-10

WELL DETAILS TPR 143-36

GL 9345' @ 9345 00ft (Ground Level) 9345 00
+N/-S 0 00 +E/-W 0 00 Northing 1577197 91 Easting 2341054 78 39° 23' 41 780 N 107° 49' 55 020 W Longitude



Plan Plan 2 (TPR 143-36/OH)

Created By Julie Cruse Date 2008-08-28

PROJECT DETAILS Garfield County, CO

Geodetic System US State Plane 1983
Datum North American Datum 1983
Ellipsoid GRS 1980
Zone Colorado Central Zone
Location Sec 36 T7S R94W
System Datum Mean Sea Level
Local North True

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
120 00	0 00	0 00	120 00	0 00	0 00	0 00	0 00	0 00	
542 19	12 67	132 29	538 78	-31 27	34 38	3 00	132 29	48 48	
7966 57	12 67	132 29	7782 47	-1126 63	1238 64	0 00	0 00	1674 37	
8810 96	0 00	0 00	8620 00	-1189 18	1307 40	1 50	180 00	1767 32	TPR 143-36 Target
11510 96	0 00	0 00	1320 00	-1189 18	1307 40	0 00	0 00	1767 32	