

PROJECT DETAILS: Garfield County, CO
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: CC 0697-09-01E						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	B-4
0.0	0.0	1634528.71	2236740.18	39.544346	-108.206932	

Project: Garfield County, CO
Site: CC 0610-21-41 Pad
Well: CC 0697-09-01E
Wellbore: Wellbore #1
Design: Design #2
Latitude: 39.544346
Longitude: -108.206932
Ground Level: 8592.0
RKB @ 8615.0usft (Ensign #157)

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
802.0	807.0	Mahogany
2770.0	2993.6	Wasatch
4560.0	5016.8	Wasatch 'G' Sand
4770.0	5254.2	Fort Union
6304.0	6984.9	Ohio Creek
6492.0	7186.3	Williams Fork
7218.0	7925.0	TOG
8742.0	9449.0	Cameo
9140.0	9847.0	Base Cameo Coal
9155.0	9862.0	Rollins

REFERENCE INFORMATION
Co-ordinate (N/E) Reference: Well CC 0697-09-01E - Slot B-4, True North
Vertical (TVD) Reference: RKB @ 8615.0usft (Ensign #157)
Section (VS) Reference: Slot - B-4(0.0N, 0.0E)
Measured Depth Reference: RKB @ 8615.0usft (Ensign #157)
Calculation Method: Minimum Curvature

T

M

Azimuths to True North

Magnetic North: 9.20°

Magnetic Field

Strength: 51103.2nT

Dip Angle: 65.60°

Date: 10/4/2022

Model: HDGM2022



DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
PBHL - CC 0697-09-01E	9355.0	-13.7	-3038.1	1634605.56	2233703.06	39.544308
						Longitude
						-108.217705

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	Build 2.5° / 100'
240.0	0.00	0.00	240.0	0.0	0.0	0.00	0.00	0.0	EOB @ 8.00° Inc. / 310.00° Azm / Build 2.5° / 100'
560.0	8.00	310.00	559.0	14.3	-17.1	2.50	310.00	17.0	EOB @ 27.78° Inc. / 268.68° Azm
1454.3	27.78	268.68	1408.2	50.0	-276.4	2.50	-54.01	276.2	Drop 2.5° / 100'
6813.7	27.78	268.68	6149.7	-7.6	-2773.9	0.00	0.00	2773.9	EOD @ Vertical
7925.0	0.00	0.00	7218.0	-13.7	-3038.1	2.50	180.00	3038.1	TD @ 10062.0' MD / 9355.0' TVD
10062.0	0.00	0.00	9355.0	-13.7	-3038.1	0.00	0.00	3038.1	

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
228.0	1.66	317.54	228.0	2.4	-2.2	2.2	3.3	First MWD Survey @ 228.0' MD / 228.0' TVD	
10006.0	7.82	263.38	9303.0	-50.1	-3108.6	3108.8	3193.8	TD @ 10006.0' MD / 9303.0' TVD	

