



CC Federal 0697-04-04E
Garfield County, CO
Q191001 & RM-190875
Design #3

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
606.0	606.4	Mahogany
4787.0	4839.9	Wasatch 'G' Sand
6487.0	6561.3	Ohio Creek
6637.0	6713.2	Williams Fork
7437.0	7520.8	TOG
9087.0	9170.8	Cameo
9317.0	9400.8	Base Cameo Coal
9337.0	9420.8	Rollins
9575.0	9658.8	Cozzette
9848.0	9931.8	Corcoran

T

M

Azimuths to True North
Magnetic North: 9.57°

Strength: 51430.3snT
Dip Angle: 65.80°
Date: 6/8/2019
Model: HDGM



Company Name: Laramie Energy, LLC
CC Federal 0697-04-04E
Garfield County, CO
Rig: RKB 30'
Created By: Will Jircik
Date: 19:57, June 12 2019

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	

DESIGN ANNOTATIONS										
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation		
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.0	KOP/ (Build 3.00°/100')		
701.9	9.06	339.57	700.7	22.3	-8.3	23.8	23.8	EOB @ 9.06° Inc / 339.57° Azm		
7218.9	9.06	339.57	7136.3	983.8	-366.4	1049.8	1049.8	Drop @ 3.00°/100'		
7520.8	0.00	0.00	7437.0	1006.1	-374.7	1073.6	1073.6	EOD @ Vertical		
10181.8	0.00	0.00	10098.0	1006.1	-374.7	1073.6	1073.6	TD @ 10181.8' MD / 10098.0' TVD		

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - CC Federal 0697-04-04E	1006.1	1006.1	-374.7	1640460.40	2233195.94	39.560333	-108.220124

WELL DETAILS: CC Federal 0697-04-04E						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	8609.0
0.0	0.0	1639443.57	2233540.37	39.557571	-108.218795	

ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
245.0	1.10	117.70	245.0	-1.1	2.1	-1.8	2.4	First MWD Survey @ 245.0' MD / 245.0' TVD
10198.0	4.90	245.10	10100.3	981.1	-404.3	1060.5	1224.0	Projection to TD @ 10198.0' MD / 10100.3' TVD

