



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

Company Name:	Laramie Energy, LLC
CC Federal 0697-04-02E	
Garfield County, CO	
Rig:	H&P #522
Created By:	Will Jircik
Date:	4:53, June 24 2019

CC Federal 0697-04-02E
Garfield County, CO
Q191069 & RM-190933
Design #3

DESIGN ANNOTATIONS							
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.0
622.4	12.67	345.59	618.9	45.0	-11.6	46.5	46.5
7198.7	12.67	345.59	7035.1	1442.2	-370.5	1489.0	1489.0
7621.0	0.00	0.00	7454.0	1487.2	-382.0	1535.5	1535.5
10282.0	0.00	0.00	10115.0	1487.2	-382.0	1535.5	1535.5
KOP/ (Build 3.00"/100')							
EOB @ 12.67" Inc / 345.59° Azm							
Drop @ 3.00"/100'							
EOD @ Vertical							
TD @ 10282.0' MD / 10115.0' TVD							

WELL DETAILS: CC Federal 0697-04-02E					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1639462.30	2233547.42	39.557623	-108.218772

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - CC Federal 0697-04-02E	10115.0	1487.2	-382.0	1640960.31	2233210.07	39.561706	-108.220127

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
606.0	609.1	Mahogany
4804.0	4911.9	Wasatch 'G' Sand
6504.0	6654.3	Ohio Creek
6654.0	6808.1	Williams Fork
7454.0	7621.0	TOG
9104.0	9271.0	Cameo
9334.0	9501.0	Base Cameo Coal
9354.0	9521.0	Rollins
9592.0	9759.0	Cozzette
9865.0	10032.0	Corcoran



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Azimuths to True North

Magnetic North: 9.57°

Strength: 51427.3snT

Dip Angle: 65.80°

Date: 6/18/2019

Model: HDGM

