

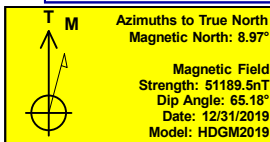
Project: Mesa County, CO
 Site: BCU 14L Pad
 Well: Laramie BCU 0993-14-02W
 Wellbore: OH
 Design: Design #1
 Latitude: 39.272670
 Longitude: -107.744964
 Ground Level: 7394.0
 RKB @ 7418.0usft (Ensign #157)

PROJECT DETAILS: Mesa 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

REFERENCE INFORMATION
 Vertical (TVD) Reference: RKB @ 7418.0usft (Ensign #157)
 Section (VS) Reference: Slot - A-10(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 7418.0usft (Ensign #157)
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2633.0	3037.4	Wasatch 'G' Sand
3221.0	3804.8	Fort Union
3755.0	4501.7	Lower Wasatch
4645.0	5663.2	Ohio Creek
5134.0	6245.0	Williams Fork
6113.0	7256.5	TOG
6916.0	8059.5	Cameo
7644.0	8787.5	Base Cameo Coal
7663.0	8806.5	Rollins

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		
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.0	KOP @ (Build 2.5° / 100)	
1849.3	39.98	8.40	1722.6	530.0	78.3	2.50	8.40	535.7	EOB @ 39.98° Inc. / 8.40° Azm	
5657.2	39.98	8.40	4640.4	2950.5	435.8	0.00	0.00	2982.5	Drop 2.5° / 100'	
7256.5	0.00	0.00	6113.0	3480.5	514.0	2.50	180.00	3518.2	EOD @ Vertical	
9006.5	0.00	0.00	7863.0	3480.5	514.0	0.00	0.00	3518.2	TD @ 9006.5' MD / 7863.0' TVD	



DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
BHL - 14-02W	7863.0	3480.5	514.0	1535522.59	2365124.53	39.282226

WELL DETAILS: Laramie BCU 0993-14-02W						
+N/-S	+E/-W	Ground Level : 7394.0	Easting	Latitude	Longitude	
0.0	0.0	Northing 1532055.87	2364524.66	39.272670	-107.744964	A-10

