

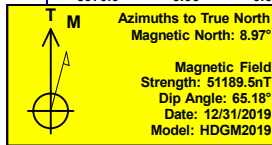
Project: Mesa County, CO  
 Site: BCU 14L Pad  
 Well: Laramie BCU 0993-14-05E  
 Wellbore: OH  
 Design: Design #1  
 Latitude: 39.272700  
 Longitude: -107.744792  
 Ground Level: 7394.0  
 RKB @ 7418.0usft (Ensign 157)

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-5(0.0N, 0.0E)  
 Measured Depth Reference: RKB @ 7418.0usft (Ensign 157)  
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2639.3	3020.4	Wasatch 'G' Sand
3227.3	3782.2	Fort Union
3761.3	4474.0	Lower Wasatch
4651.3	5627.1	Ohio Creek
5140.3	6208.8	Williams Fork
6119.3	7220.3	TOG
6922.3	8023.3	Cameo
7650.3	8751.3	Base Cameo Coal
7669.3	8770.3	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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
580.0	7.00	35.00	579.3	14.0	9.8	2.50	35.00	16.7	
1886.3	39.48	46.89	1764.0	372.7	368.4	2.50	14.05	523.8	
5640.8	39.48	46.89	4661.8	2004.0	2111.2	0.00	0.00	2910.9	
7220.0	0.00	0.00	6119.0	2361.4	2493.0	2.50	180.00	3433.8	
8970.0	0.00	0.00	7869.0	2361.4	2493.0	0.00	0.00	3433.8	



DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
BHL - 14-05E	7869.0	2361.4	2493.0	1534364.63	2367124.18	39.279183

WELL DETAILS: Laramie BCU 0993-14-05E						
Ground Level : 7394.0						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	A-5
0.0	0.0	1532065.59	2364573.60	39.272700	-107.744792	A-5

