

Project: Garfield County, CO
 Site: CC 603-23-32 Pad
 Well: CC 0697-03-21E
 Wellbore: A-3
 Design: Permit #1
 Latitude: 39.548817
 Longitude: -108.210044
 Ground Level: 8613.0
 Well @ 8637.0usft (H&P 290)



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

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	KOP/ (Build 3.00°/100')
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.0	EOB @ 28.51° Inc / 76.10° Azm
1200.3	28.51	76.10	1161.6	55.6	224.8	3.00	76.10	231.6	Drop @ 3.00°/100'
6892.4	28.51	76.10	6163.4	708.4	2862.0	0.00	0.00	2948.4	EOD @ Vertical
7842.7	0.00	0.00	7075.0	764.0	3086.8	3.00	180.00	3180.0	TD @ 10542.7' MD / 9775.0' TVD
10542.7	0.00	0.00	9775.0	764.0	3086.8	0.00	0.00	3180.0	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - CC 0697-03-21E	9775.0	764.0	3086.8	1636854.28	2239019.79	39.550914	-108.199097

WELL DETAILS: CC 0697-03-21E

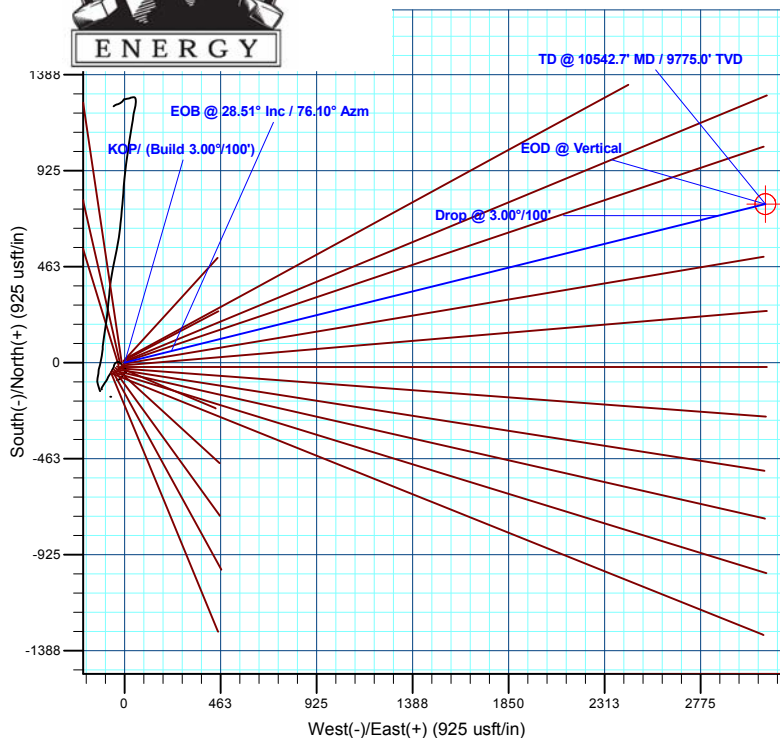
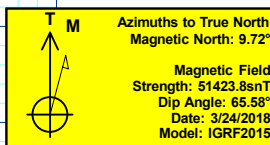
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1636162.67	8613.0 2235911.54	39.548817	-108.210044

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well CC 0697-03-21E, True North
 Vertical (TVD) Reference: Well @ 8637.0usft (H&P 290)
 Section (VS) Reference: Slot - (0.0N, 0.0E)
 Measured Depth Reference: Well @ 8637.0usft (H&P 290)
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
600.0	602.0	Mahogany
5025.0	5596.8	Wasatch 'G' Sand
6725.0	7490.7	Ohio Creek
6925.0	7692.5	Williams Fork
7525.0	8292.7	TOG
9125.0	9892.7	Cameo
9515.0	10282.7	Base Cameo Coal
9525.0	10292.7	Rollins



Plan: Permit #1 (CC 0697-03-21E/A-3)

Created By: Will Jircik

Date: 14:26, May 14 2018

True Vertical Depth (1000 usft/in)

Vertical Section at 76.10° (1000 usft/in)