

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

WELL DETAILS: CC 0697-03-17E

+N/-S 0.0 +E/-W 0.0 Northing 1639563.16 Easting 2237398.62 8428.0
Latitude 39.558215 Longitude -108.205130

Project: Garfield County, CO
Site: CC 0697-03-07 Pad
Well: CC 0697-03-17E
Wellbore: ST01
Design: ST01 D#1
Latitude: 39.558215
Longitude: -108.205130
Ground Level: 8428.0
well @ 8458.0usft (30' RKB)

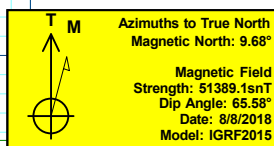


REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well CC 0697-03-17E, True North
Vertical (TVD) Reference: well @ 8458.0usft (30' RKB)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: well @ 8458.0usft (30' RKB)
Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
975.0	985.4	Mahogany
2943.0	3085.4	Wasatch
4733.0	4971.5	Wasatch 'G' Sand
4943.0	5193.1	Fort Union
6477.0	6811.7	Ohio Creek
6665.0	7010.1	Williams Fork
7391.0	7753.4	TOG
8915.0	9277.4	Cameo
9282.0	9644.4	Base Cameo Coal
9328.0	9690.4	Rollins
9533.0	9895.4	Cozzette

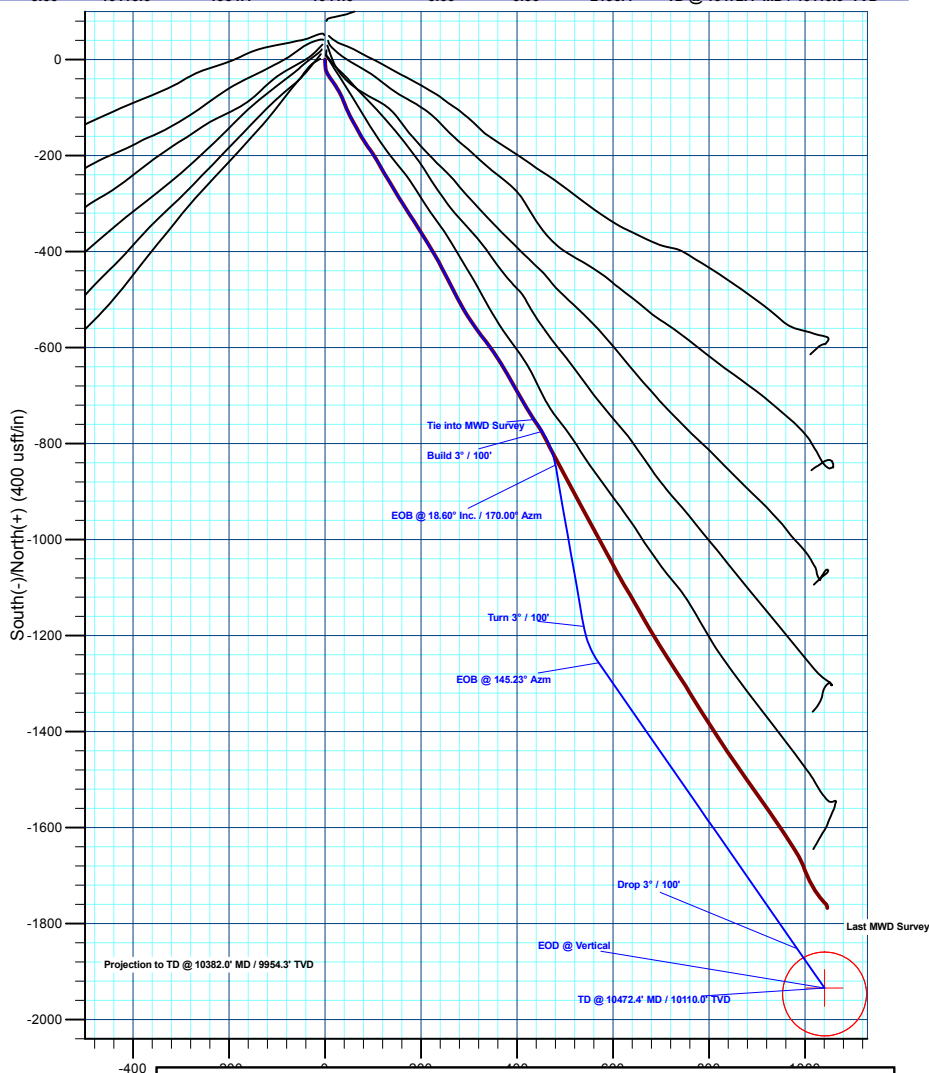


DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - CC 0697-03-17E - ST01 D#1	10110.0	-1934.1	1041.0	1637598.92	2238381.53	39.552905	-108.201438

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
3181.0	17.50	146.20	3034.0	-749.7	435.8	0.00	0.00	866.7	Tie into MWD Survey
3281.0	17.50	146.20	3129.4	-774.7	452.6	0.00	0.00	896.7	Build 3° / 100'
3527.8	18.60	170.00	3364.4	-844.4	480.1	3.00	92.97	971.1	EOB @ 18.60° Inc. / 170.00° Azm
4600.0	18.60	170.00	4380.5	-1181.2	539.5	0.00	0.00	1295.8	Turn 3° / 100'
4861.6	18.61	145.22	4628.9	-1256.7	570.6	3.00	-101.69	1377.0	EOB @ 145.23° Azm
7133.0	18.61	145.22	6781.5	-1852.1	984.0	0.00	0.00	2097.2	Drop 3° / 100'
7753.4	0.00	0.00	7391.0	-1934.1	1041.0	3.00	180.00	2196.4	EOD @ Vertical
10472.4	0.00	0.00	10110.0	-1934.1	1041.0	0.00	0.00	2196.4	TD @ 10472.4' MD / 10110.0' TVD



Plan: ST01 D#1 (CC 0697-03-17E/ST01)

Created By: Will Jircik Date: 14:25, August 08 2018