



Project: Mesa County, CO
 Site: N Vega 28-11
 Well: Piceance 28-12W
 Wellbore: Wellbore #1
 Design: Design #2
 Latitude: 39° 14' 51.942 N
 Longitude: 107° 46' 41.194 W
 Ground Level: 7580.00
 WELL @ 7602.00usft (Original Well Elev)



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

Co-ordinate (N/E) Reference: Well Piceance 28-12W, True North
 Vertical (TVD) Reference: WELL @ 7602.00usft (Original Well Elev)
 Section (VS) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: WELL @ 7602.00usft (Original Well Elev)
 Calculation Method: Minimum Curvature

WELL DETAILS: Piceance 28-12W

+N/-S	+E/-W	Northing	Ground Level: Easting	7580.00	Latitude	Longitude	Slot
0.00	0.00	1523220.212	2354916.720	39° 14' 51.942 N	107° 46' 41.194 W		

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Piceance 28-12W tgt	7867.00	-113.48	-722.28	1523124.877	2354191.825	39° 14' 50.820 N	107° 46' 50.376 W	Circle (Radius: 50.00)

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
818.66	9.37	261.07	816.57	-5.94	-37.79	2.00	261.07	38.25	Start 4019.5 hold at 818.7 MD
4838.18	9.37	261.07	4782.43	-107.54	-684.49	0.00	0.00	692.89	Start Drop -2.00
5306.84	0.00	0.00	5249.00	-113.48	-722.28	2.00	180.00	731.14	Start 2618.0 hold at 5306.8 MD
7924.84	0.00	0.00	7867.00	-113.48	-722.28	0.00	0.00	731.14	TD at 7924.8

TM

Azimuths to True North
 Magnetic North: 9.78°

Magnetic Field
 Strength: 51787.9snT
 Dip Angle: 65.48°
 Date: 11/05/2014
 Model: IGRF2010

FORMATION TOP DETAILS

TVDPATH	MDPATH	Formation
2817.00	2846.16	G Sand
4667.00	4721.19	Williams Fork
5867.00	5924.84	TOG
6967.00	7024.84	Cameo
7625.00	7682.84	Base Cameo coal
7667.00	7724.84	Rollins

