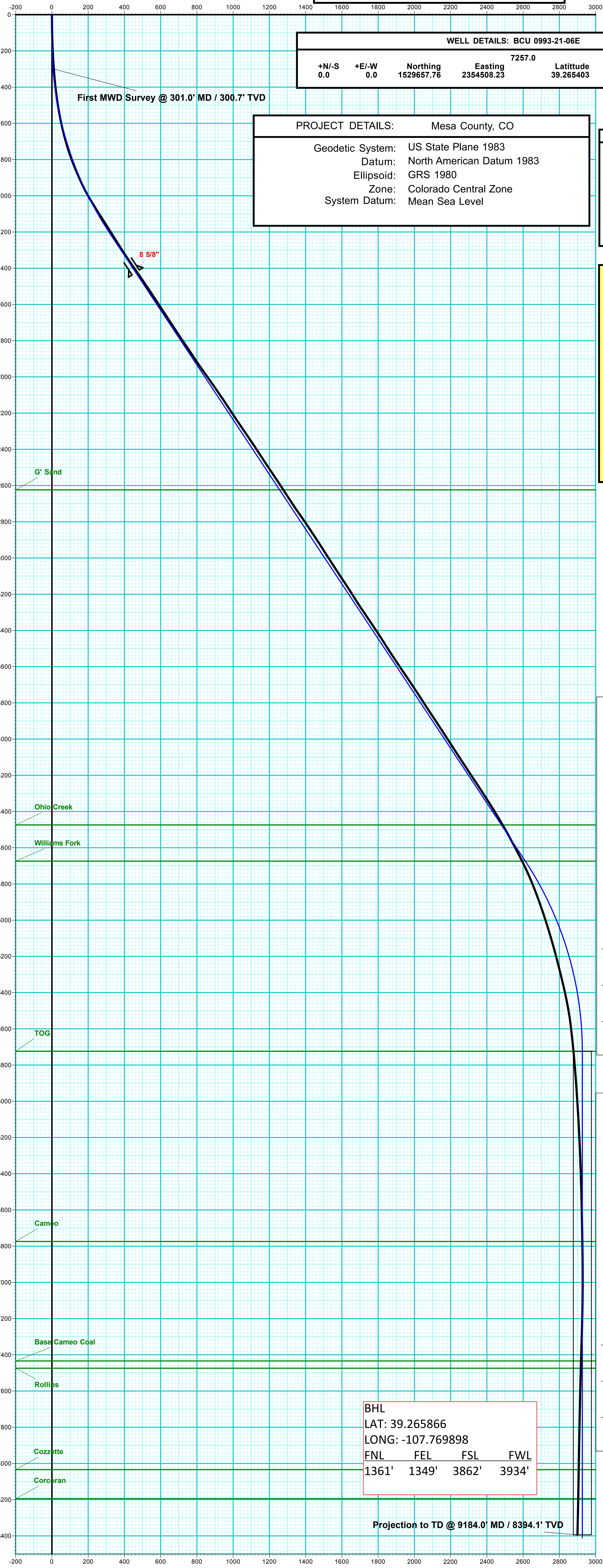


Company Name: Laramie Energy, LLC
BCU 0993-21-06E
Mesa County, CO
Rig: H&P #522
Created By: Will Jircik
Date: 9/23/2018

BCU 0993-21-06E
Mesa County, CO
Q181276 & RM-180957
Design #3



WELL DETAILS: BCU 0993-21-06E					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1529657.76	2354508.23	39.265403	-107.780122

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	

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2624.0	2969.0	G' Sand
4474.0	5187.0	Ohio Creek
4674.0	5426.7	Williams Fork
5724.0	6538.5	TOG
6774.0	7588.5	Cameo
7434.0	8248.5	Base Cameo Coal
7474.0	8288.5	Rollins
8034.0	8848.5	Cozzette
8194.0	9008.5	Corcoran

T

M

Azimuths to True North

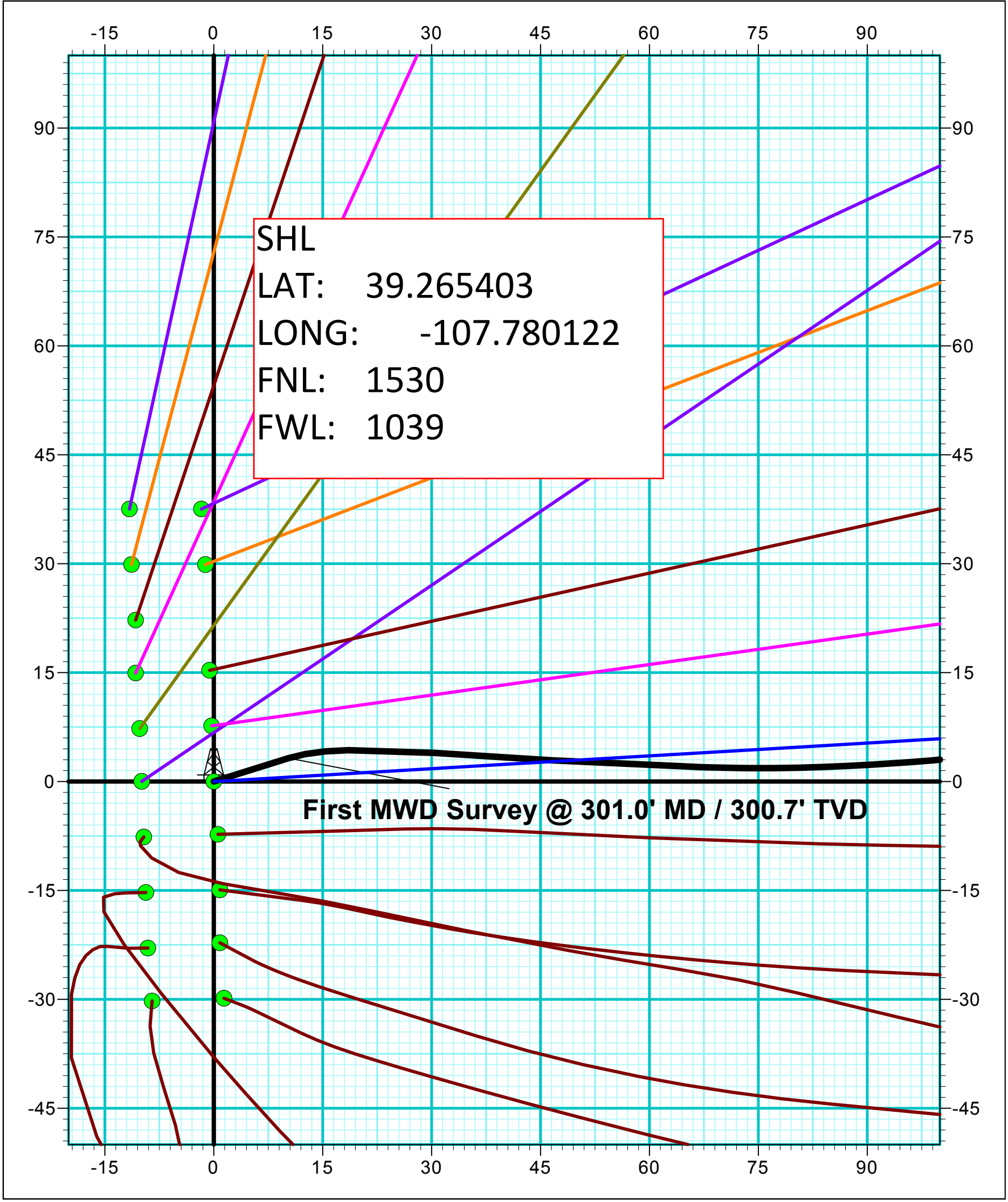
Magnetic North: 9.47°

Strength: 51381.9snT

Dip Angle: 65.42°

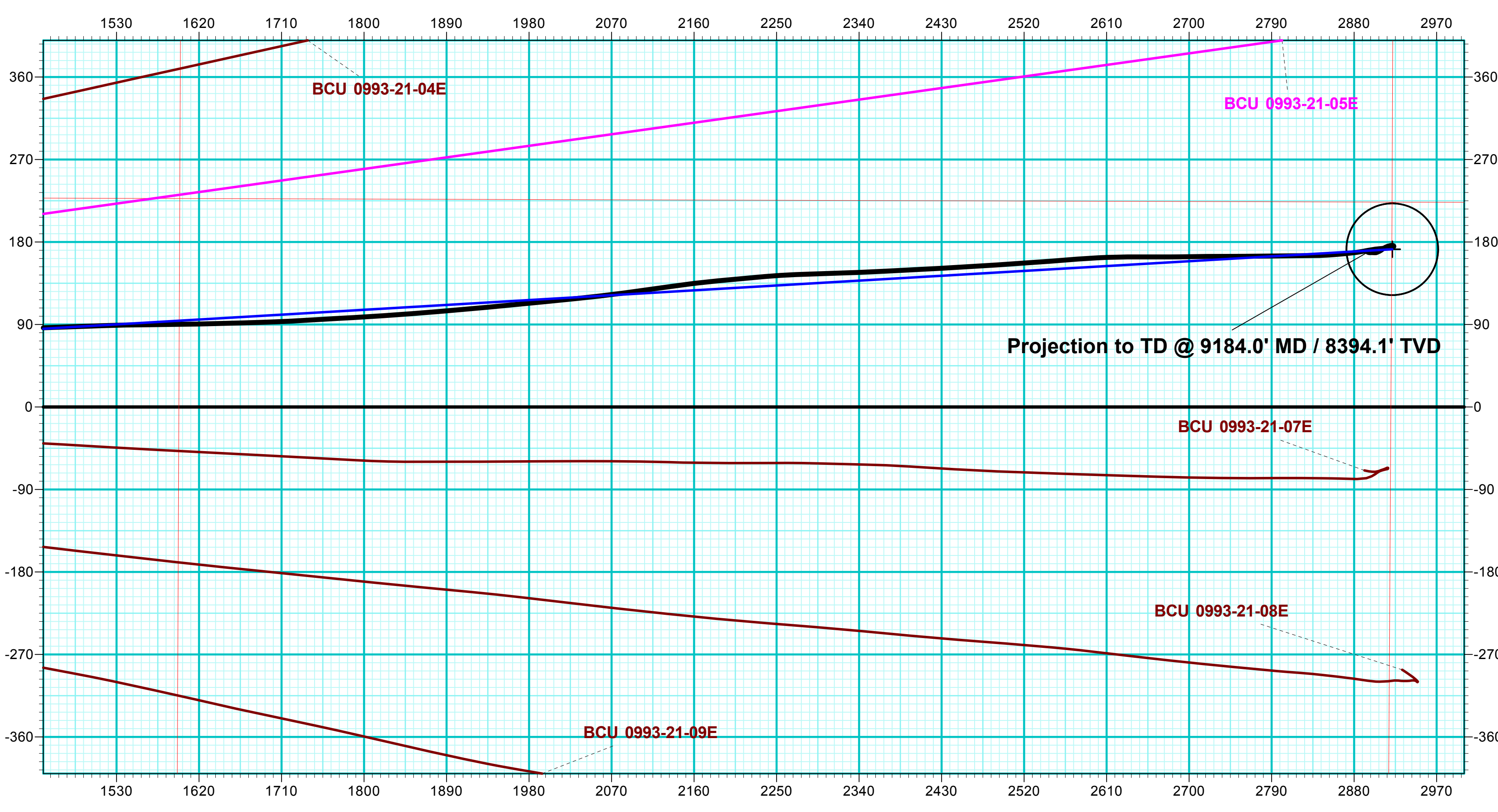
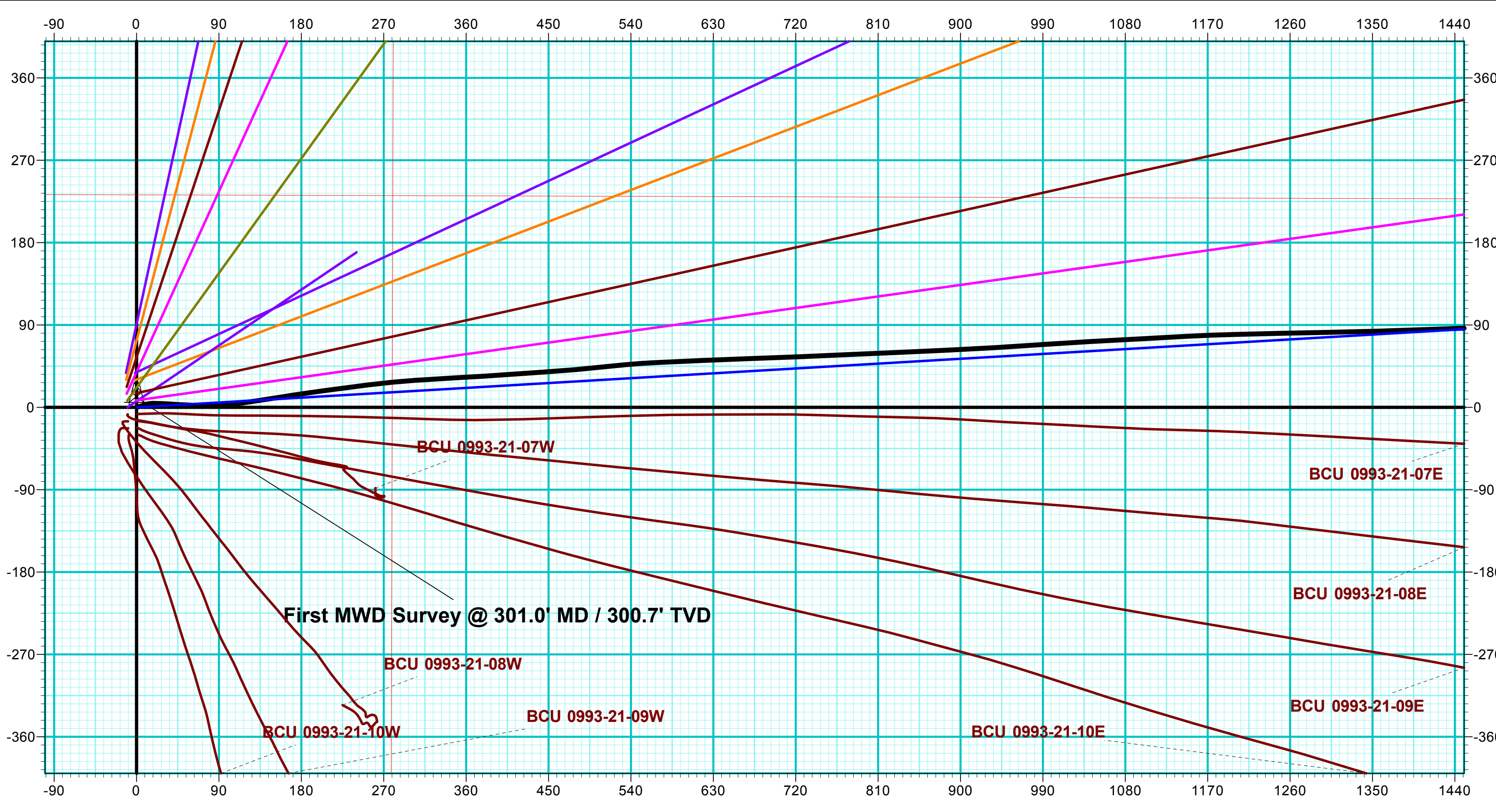
Date: 9/18/2018

Model: USER DEFINED



DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - BCU 0993-21-06E	8394.0	172.1	2921.5	1529756.49	2357433.18	39.265875	-107.769803	Circle (Radius: 50.0)

DESIGN ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
150.0	0.00	0.00	150.0	0.0	0.0	0.0	0.0	KOP/ (Build 3.00°/100')	
1266.0	33.48	86.63	1203.5	18.6	316.3	316.9	316.9	EOB @ 33.48° Inc. / 86.63° Azm	
5422.5	33.48	86.63	4670.5	153.5	2605.2	2609.7	2609.7	Drop 3° / 100'	
6538.5	0.00	0.00	5724.0	172.1	2921.5	2926.6	2926.6	EOD @ Vertical	
9208.5	0.00	0.00	8394.0	172.1	2921.5	2926.6	2926.6	TD @ 9208.5' MD / 8394.0' TVD	



ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
301.0	4.10	72.60	300.7	3.2	10.3	10.4	10.8	First MWD Survey @ 301.0' MD / 300.7' TVD	
9184.0	1.40	286.90	8394.1	168.9	2894.8	2899.7	2963.2	Projection to TD @ 9184.0' MD / 8394.1' TVD	