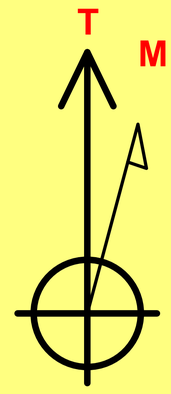
Nichols 0994-24-16E
Mesa County, CO
Q180401 & RM-180345
ST01 Design #1

Company Name: Laramie Energy, LLC
Nichols 0994-24-16E
Mesa County, CO
Rig: H&P #290
Created By: Will Jircik
Date: 04/09/2018

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



Azimuths to True North
Magnetic North: 9.44°

Strength: 51309.9snT
Dip Angle: 65.40°
Date: 4/8/2018
Model: USER DEFINED

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2426.0	2554.1	G' Sand
4176.0	4495.7	Williams Fork
5576.0	5986.7	TOG
6476.0	6886.7	Cameo
7136.0	7546.7	Base Cameo Coal
7176.0	7586.7	Rollins

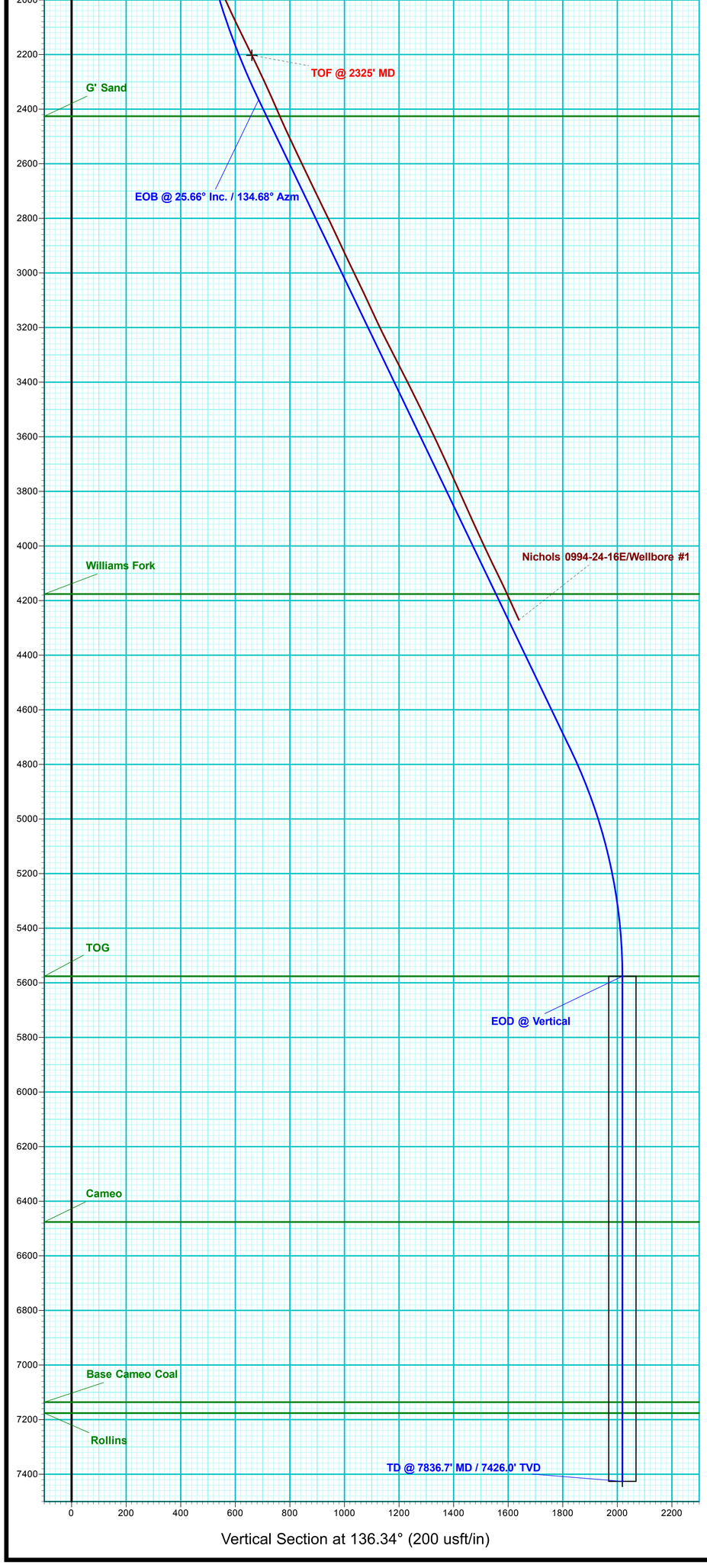
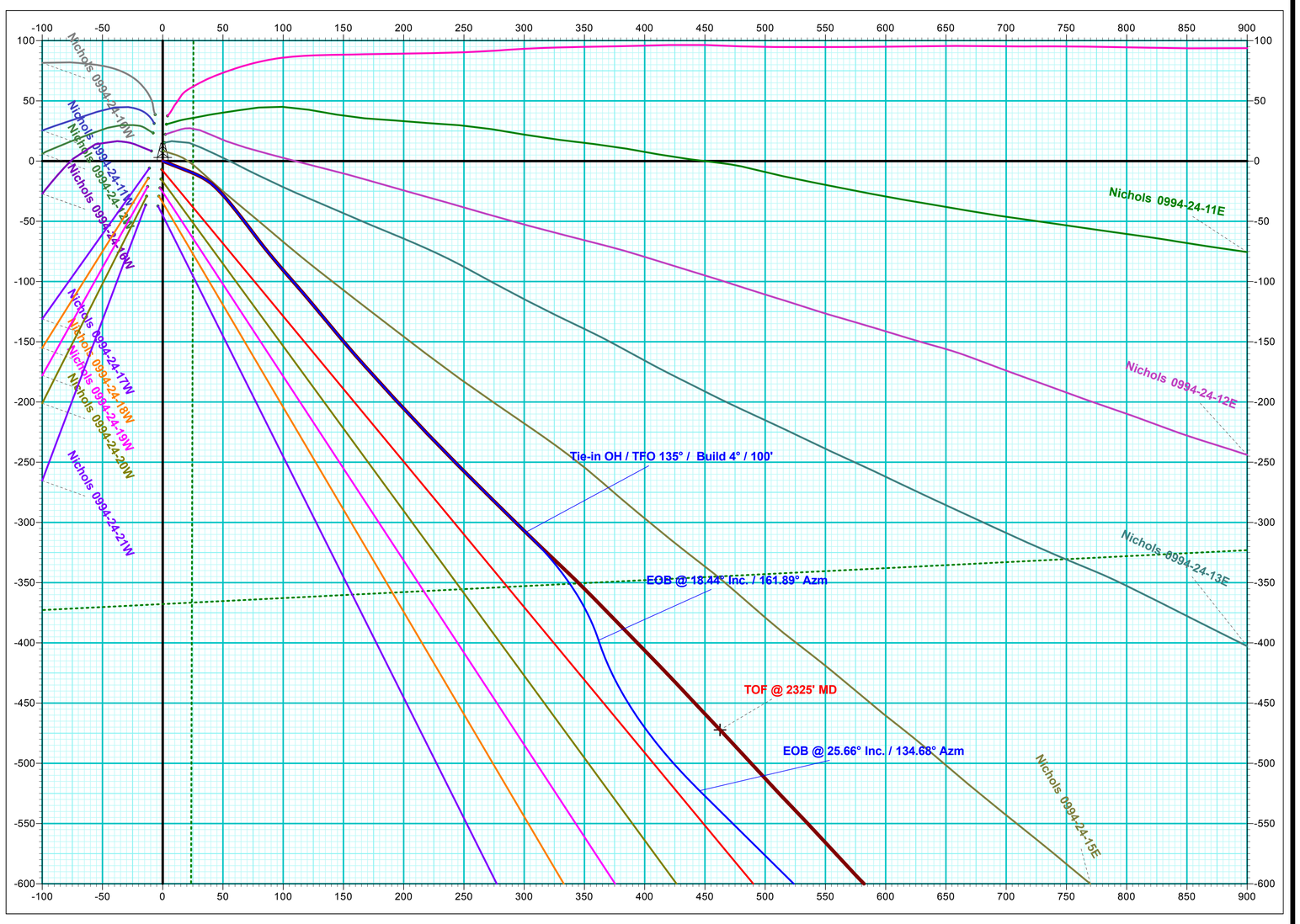
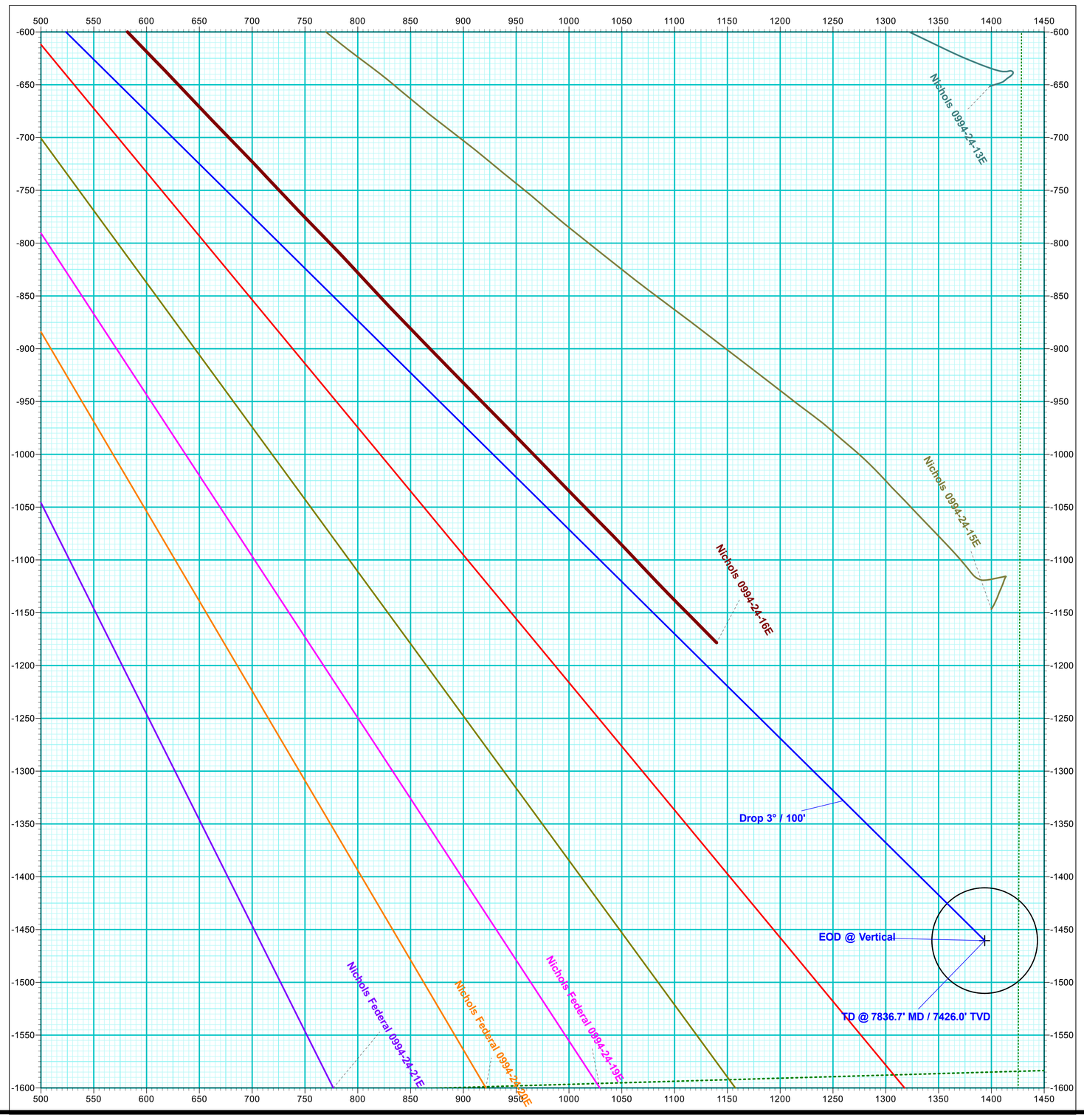
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
TOF @ 2325' MD	2203.0	-472.3	462.5	1528766.24	2340584.04	39.261986	-107.829206	Point
PBHL - Nichols 0994-24-16E	7426.0	-1460.5	1393.7	1527754.52	2341489.54	39.259273	-107.825917	Circle (Radius: 50.0)

WELL DETAILS: Nichols 0994-24-16E

Ground Level: 7212.0

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.0	0.0	1529250.25	2340133.80	39.263283	-107.830839

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
1776.0	25.00	134.20	1704.6	-308.2	301.3	431.0	0.0	Tie-in OH / TFO 135° / Build 4° / 100'
2076.0	18.44	161.89	1983.8	-397.8	361.7	537.5	109.3	EOB @ 18.44° Inc. / 161.89° Azm
2487.2	25.66	134.68	2365.7	-522.7	445.6	685.8	261.3	EOB @ 25.66° Inc. / 134.68° Azm
5131.2	25.66	134.68	4748.9	-1328.0	1259.7	1830.4	1406.4	Drop 3° / 100'
5986.7	0.00	0.00	5576.0	-1460.5	1393.7	2018.7	1594.8	EOD @ Vertical
7836.7	0.00	0.00	7426.0	-1460.5	1393.7	2018.7	1594.8	TD @ 7836.7' MD / 7426.0' TVD