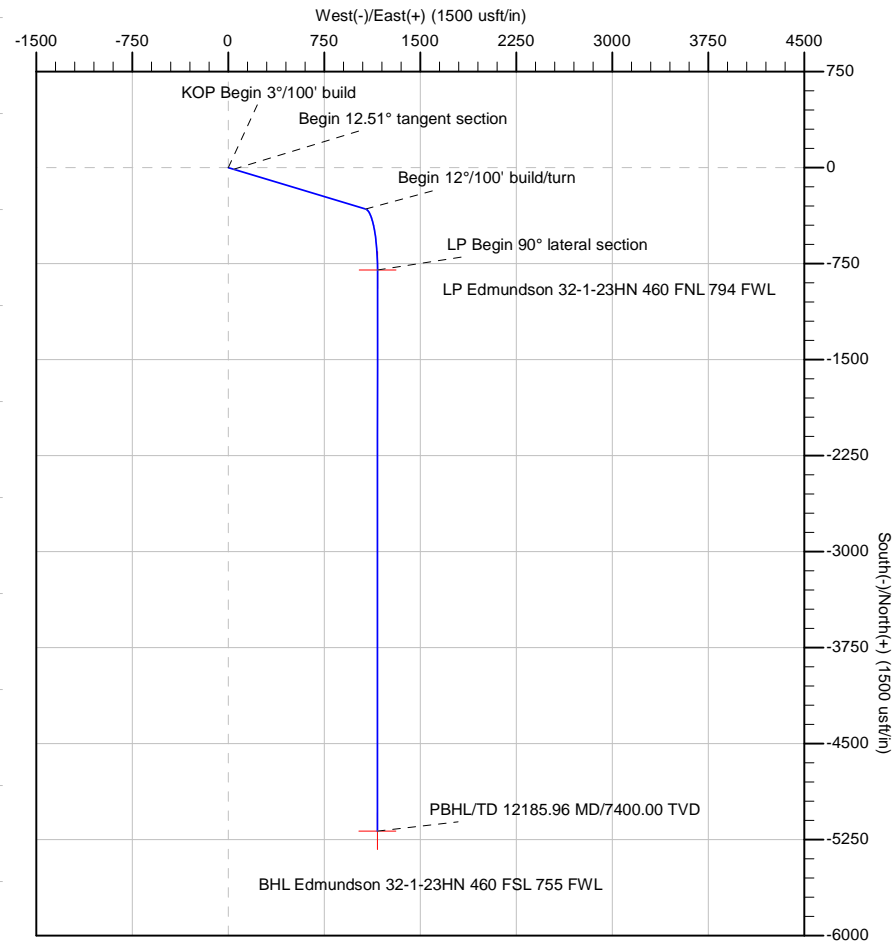
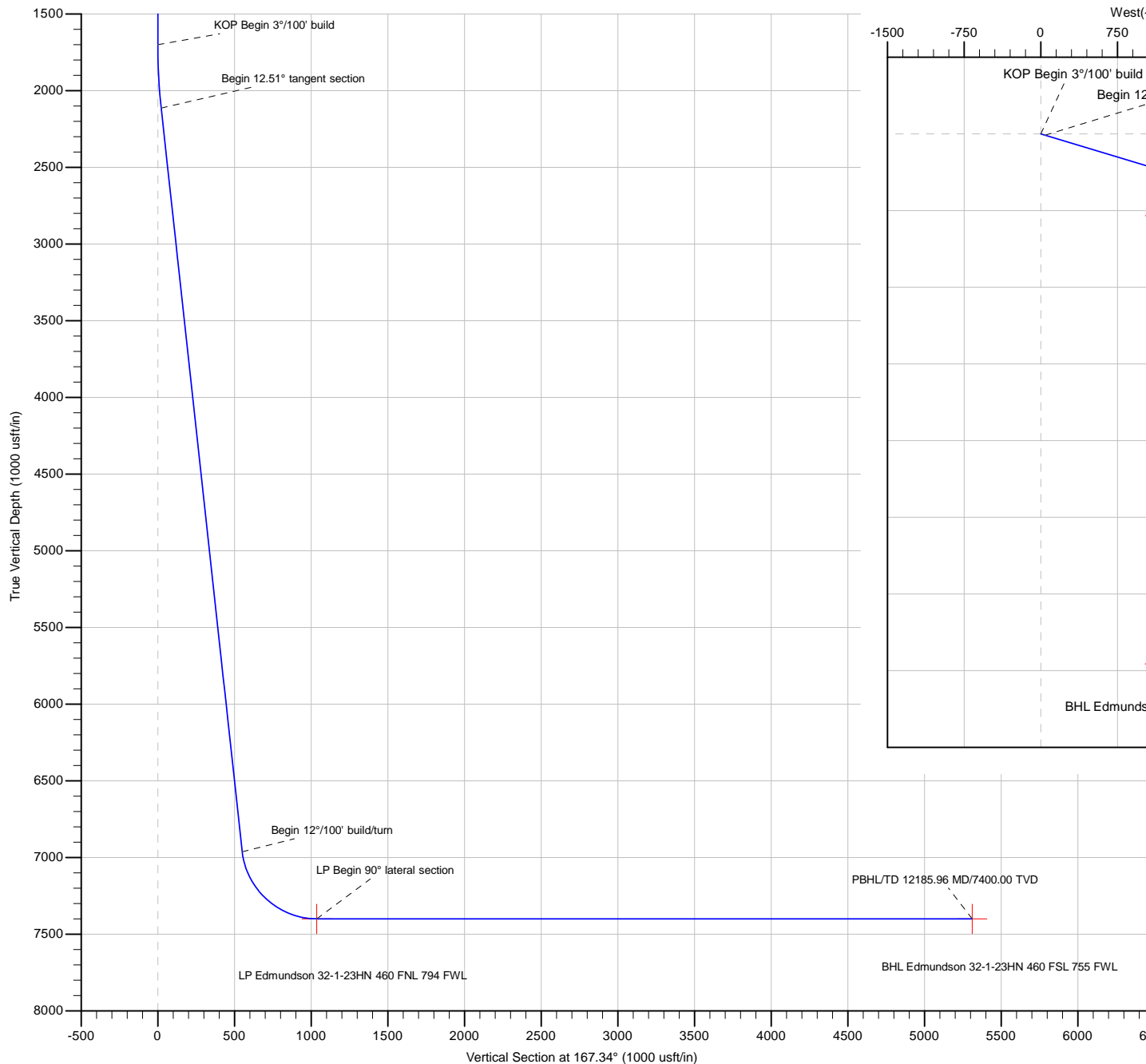




WARD PETROLEUM

Well: Edmundson #32-1-23HN
Site: Edmundson
Project: Adams County, Colorado
Design: rev0

Section Details										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 3°/100' build
3	2116.86	12.51	106.77	2113.56	-13.08	43.38	3.00	106.77	22.27	Begin 12.51° tangent section
4	7083.24	12.51	106.77	6962.11	-323.44	1073.03	0.00	0.00	550.79	Begin 12°/100' build/turn
5	7803.42	90.00	180.02	7400.00	-800.01	1165.87	12.00	73.62	1036.12	LP Begin 90° lateral section
6	12185.96	90.00	180.02	7400.00	-5182.55	1164.35	0.00	0.00	5311.74	PBHL/TD 12185.96 MD/7400.00 TVD



Azimuths to Grid North
True North: -0.45°
Magnetic North: 7.77°

Magnetic Field
Strength: 52159.4snT
Dip Angle: 66.47°
Date: 4/16/2017
Model: IGRF2015

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone

System Datum: Mean Sea Level
Depth Reference: RKB=5059.3+17 @ 5076.30usft

Surf loc: 350 FSL 366 FEL Section 30-T01S-R66W
Northing: 1218038.77 Easting: 3193437.34 Latitude: 39.92983168 Longitude: -104.81023384