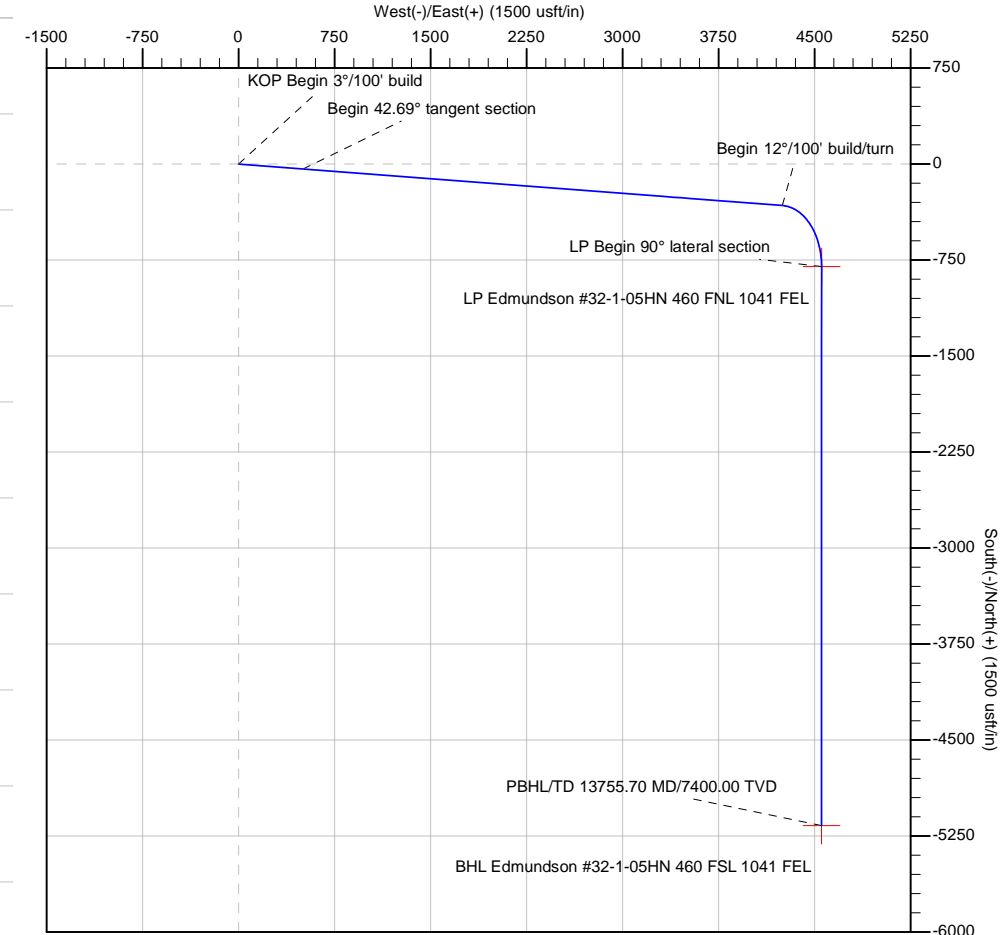
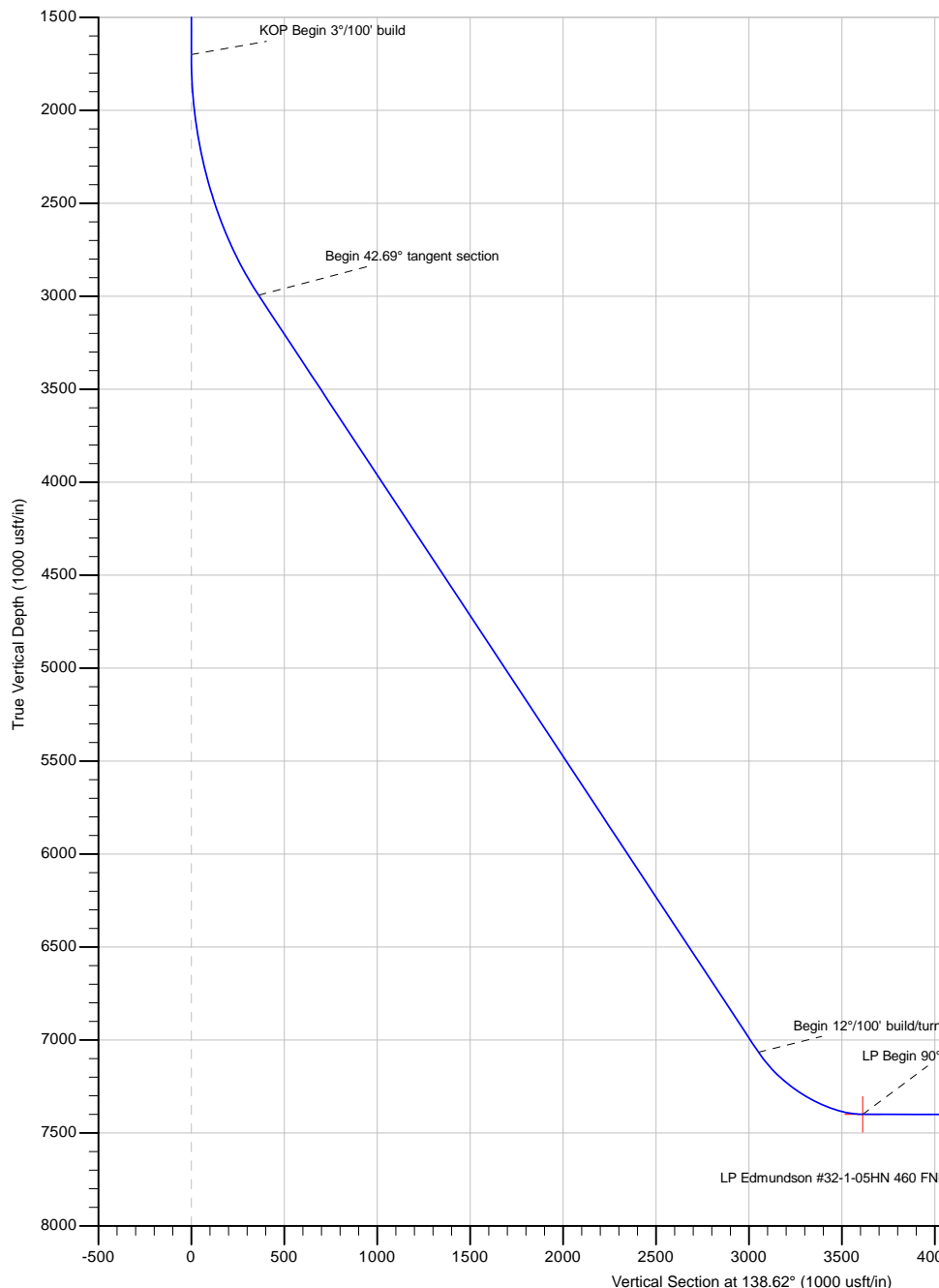




WARD PETROLEUM

Well: Edmundson #32-1-05HN
Site: Edmundson
Project: Adams County, Colorado
Design: rev0

Section Details										Annotation
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	
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	3122.88	42.69	94.35	2994.85	-38.42	504.51	3.00	94.35	362.35	Begin 42.69° tangent section
4	8662.05	42.69	94.35	7066.57	-323.56	4249.14	0.00	0.00	3051.85	Begin 12°/100' build/turn
5	9387.57	90.00	180.02	7400.00	-800.50	4555.62	12.00	86.81	3612.32	LP Begin 90° lateral section
6	13755.70	90.00	180.02	7400.00	-5168.63	4554.11	0.00	0.00	6888.73	PBHL/TD 13755.70 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=5059.6+17 @ 5076.60usft

Surf Loc: 365 FSL 269 FEL Section 30-T01S-R66W
 Northing Easting Latitude Longitude
 1218054.83 3193534.65 39.92987369 -104.80988642

Total Corr (M->G): To convert a Magnetic Direction to a Grid Direction. Add 7.77°