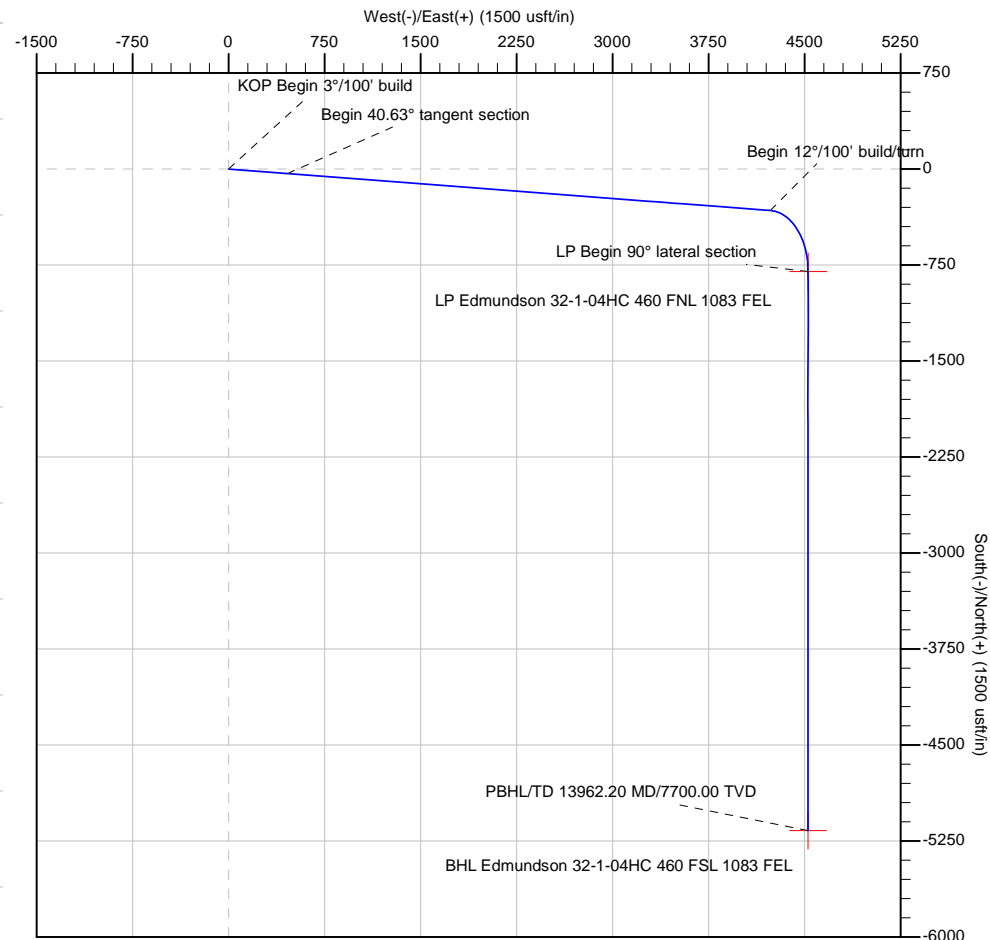
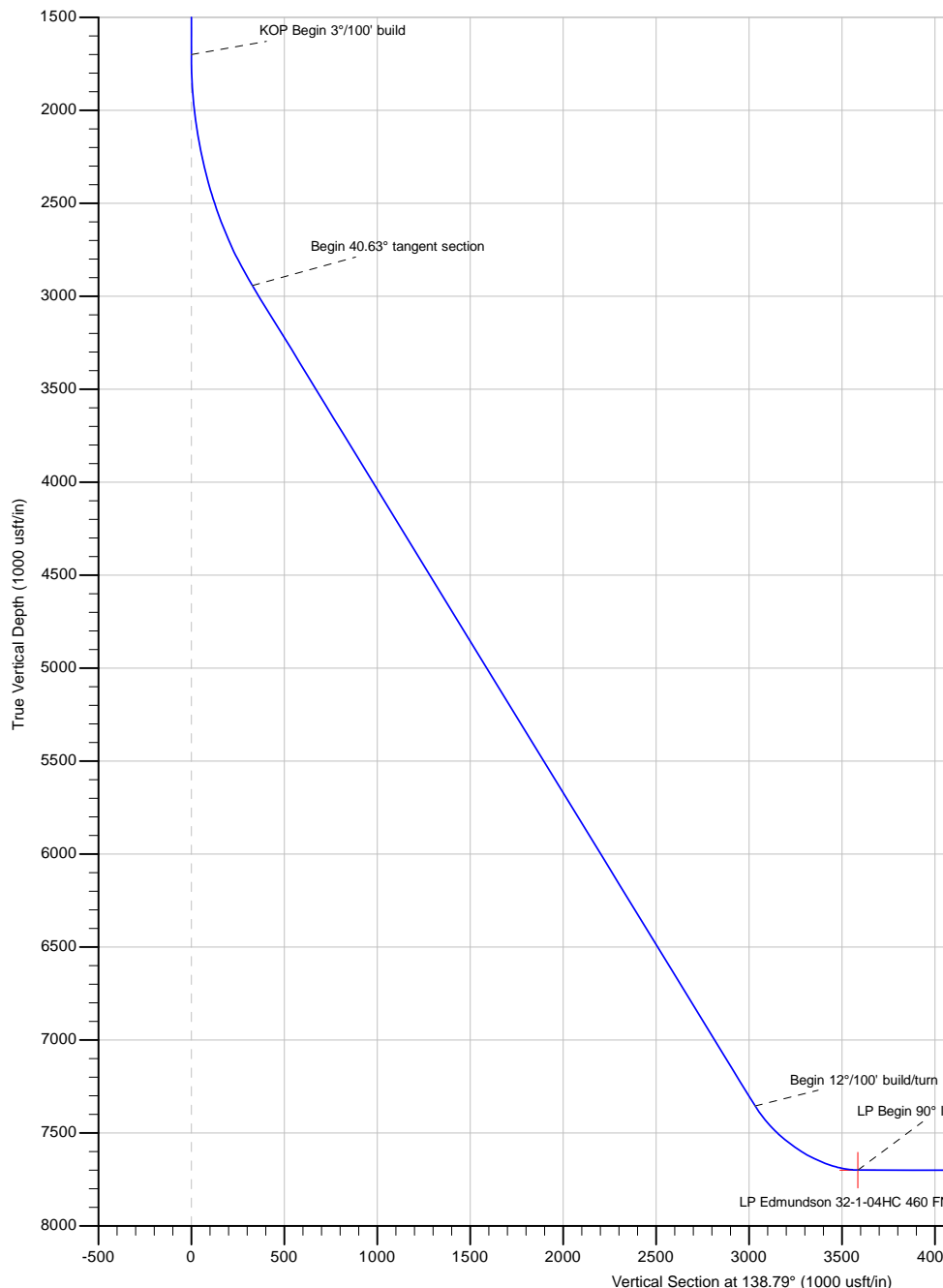




**WARD PETROLEUM**

**Well: Edmundson #32-1-04HC**  
**Site: Edmundson**  
**Project: Adams County, Colorado**  
**Design: rev0**

Section Details										Annotation
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 3°/100' build
2	1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	Begin 40.63° tangent section
3	3054.47	40.63	94.37	2943.75	-35.09	459.16	3.00	94.37	328.92	Begin 12°/100' build/turn
4	8867.47	40.63	94.37	7355.14	-323.52	4233.74	0.00	0.00	3032.85	LP Begin 90° lateral section
5	9593.88	90.00	180.02	7700.00	-800.50	4528.66	12.00	86.70	3585.98	PBHL/TD 13962.20 MD/7700.00 TVD
6	13962.20	90.00	180.02	7700.00	-5168.82	4527.15	0.00	0.00	6871.08	BHL Edmundson 32-1-04HC 460 FSL 1083 FEL



Azimuths to Grid North  
 True North: -0.45°  
 Magnetic North: 7.77°  
 Magnetic Field  
 Strength: 52159.4nT  
 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-5060+17 @ 5077.00usft

Surf Loc: 365 FSL 284 FEL Section 30-T01S-R66W  
 1218054.64 Easting 3193519.62 Latitude 39.92987349 Longitude -104.8099400  
 Total Corr (M->G): To convert a Magnetic Direction to a Grid Direction, Add 7.77