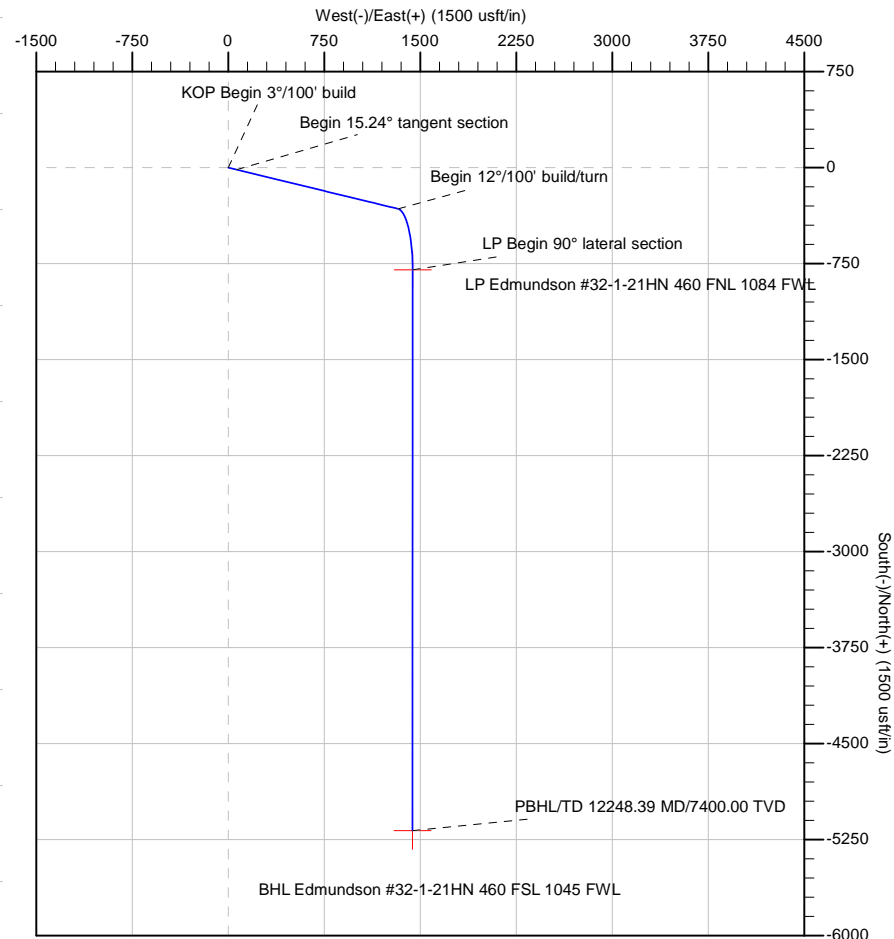
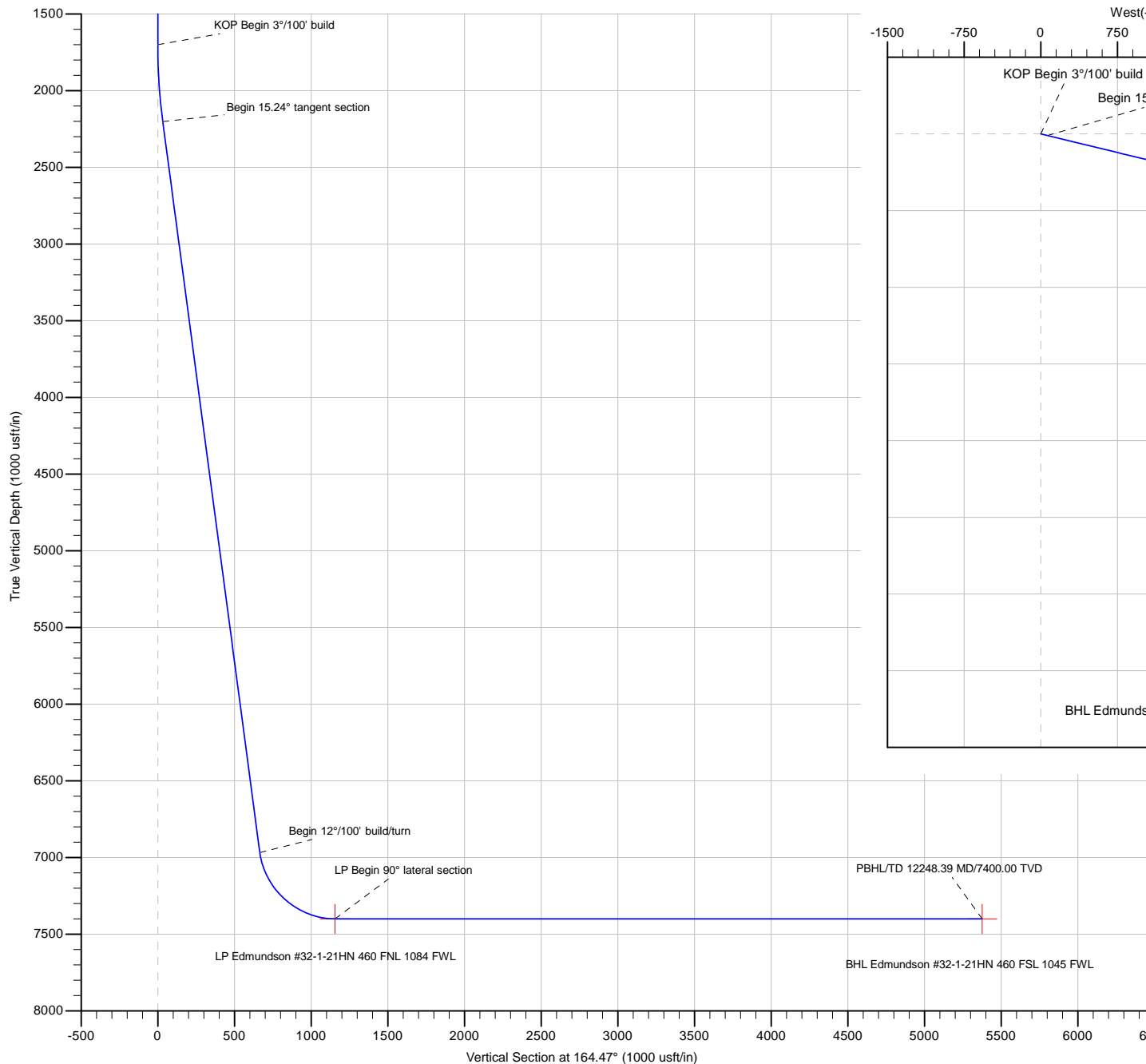




**WARD PETROLEUM**

**Well: Edmundson #32-1-21HN**  
**Site: Edmundson**  
**Project: Adams County, Colorado**  
**Design: rev0**

Section Details										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
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 15.24° tangent section
3	2207.84	15.24	103.66	2201.88	-15.85	65.22	3.00	103.66	32.73	Begin 12°/100' build/turn
4	7146.56	15.24	103.66	6967.02	-322.23	1326.35	0.00	0.00	665.53	LP Begin 90° lateral section
5	7866.96	90.00	180.02	7400.00	-798.82	1440.78	12.00	76.83	1155.36	PBHL/TD 12248.39 MD/7400.00 TVD
6	12248.39	90.00	180.02	7400.00	-5180.25	1439.26	0.00	0.00	5376.47	



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=5059.1+17 @ 5076.10usft

Surf Loc: 350 FSL 351 FEL Section 30-T01S-R66W  
 Northing: 1218038.86 Easting: 3193452.35 Latitude: 39.92983161 Longitude: -104.81018032