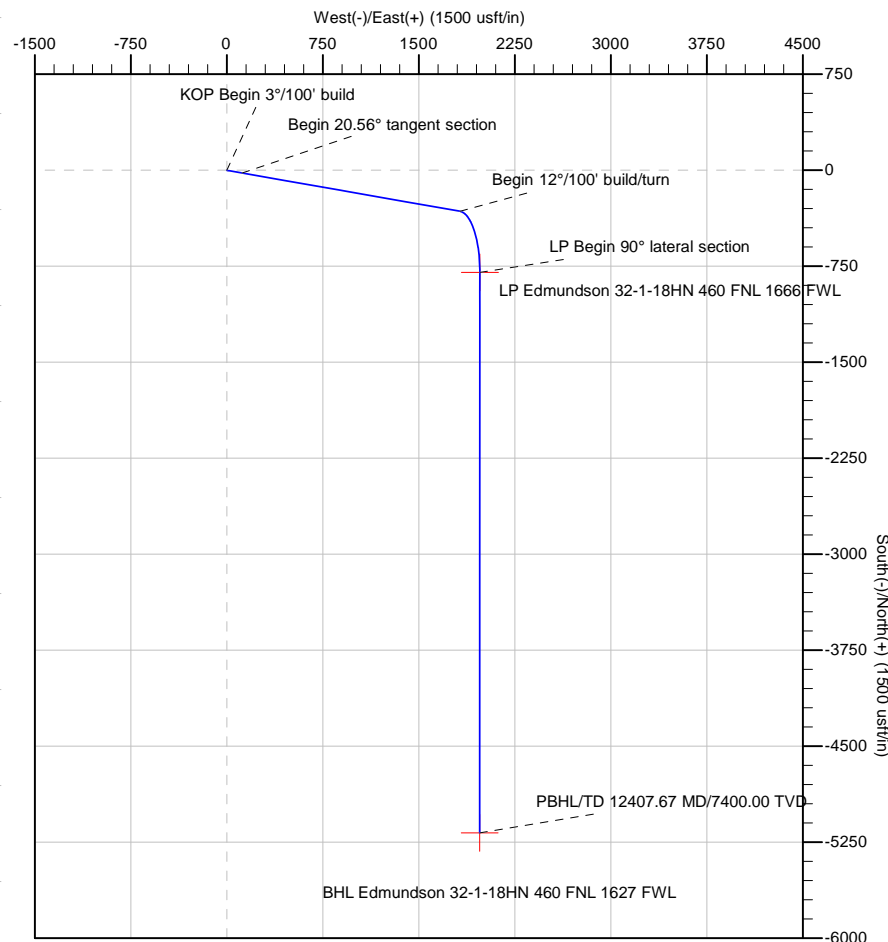
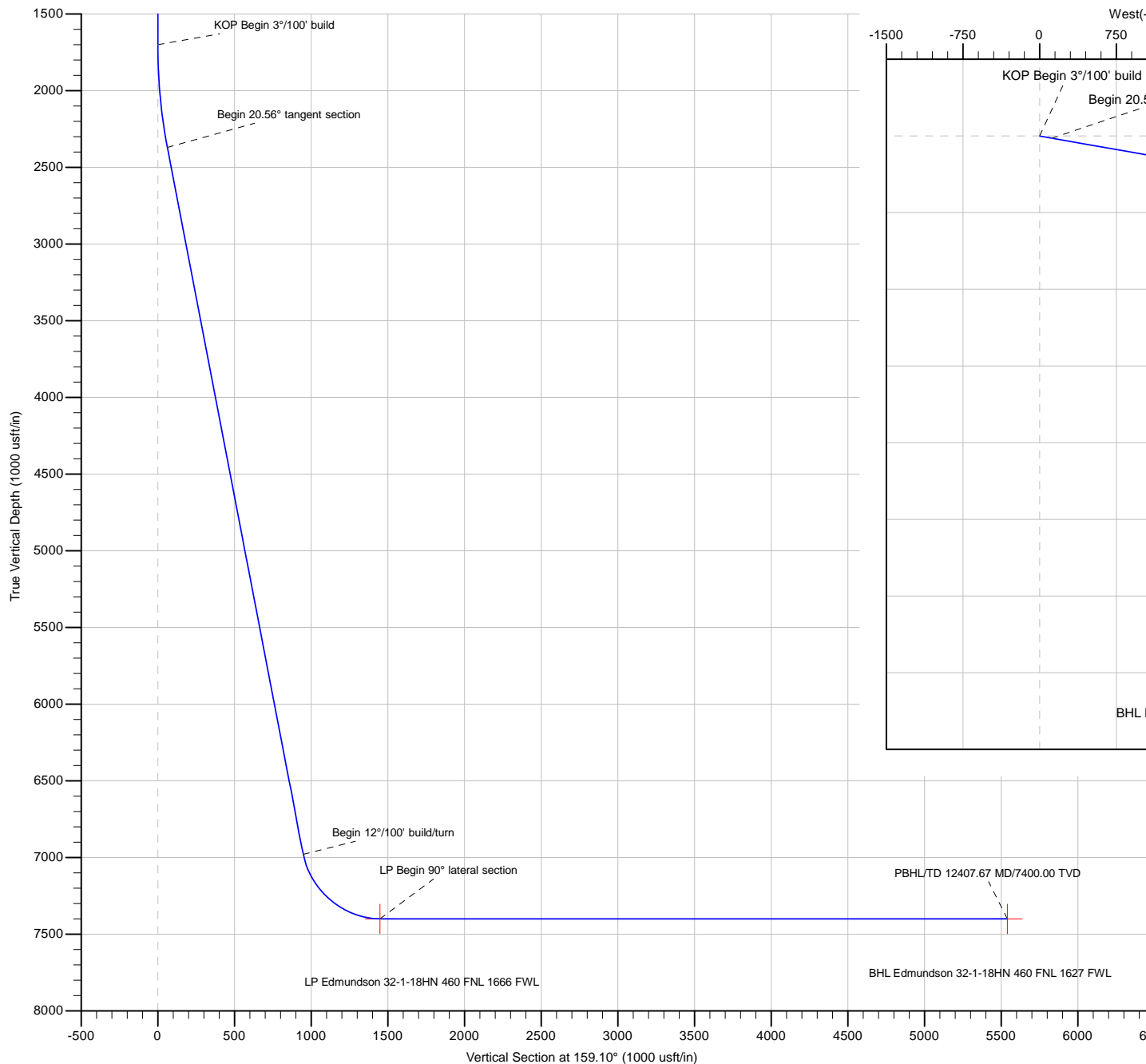




WARD PETROLEUM

Well: Edmundson #32-1-18HN  
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 20.56° tangent section
3	2385.36	20.56	99.96	2370.75	-21.05	119.82	3.00	99.96	62.40	Begin 12°/100' build/turn
4	7307.44	20.56	99.96	6979.29	-320.14	1822.40	0.00	0.00	949.10	LP Begin 90° lateral section
5	8028.47	90.00	180.02	7400.00	-796.78	1977.67	12.00	80.68	1449.77	PBHL/TD 12407.67 MD/7400.00 TVD
6	12407.67	90.00	180.02	7400.00	-5175.98	1976.15	0.00	0.00	5540.39	PBHL/TD 12407.67 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: 350 FSL 306 FEL Section 30-T01S-R66W  
Northing: 1218039.38 Easting: 3193497.31 Latitude: 39.92983207 Longitude: -104.81001999