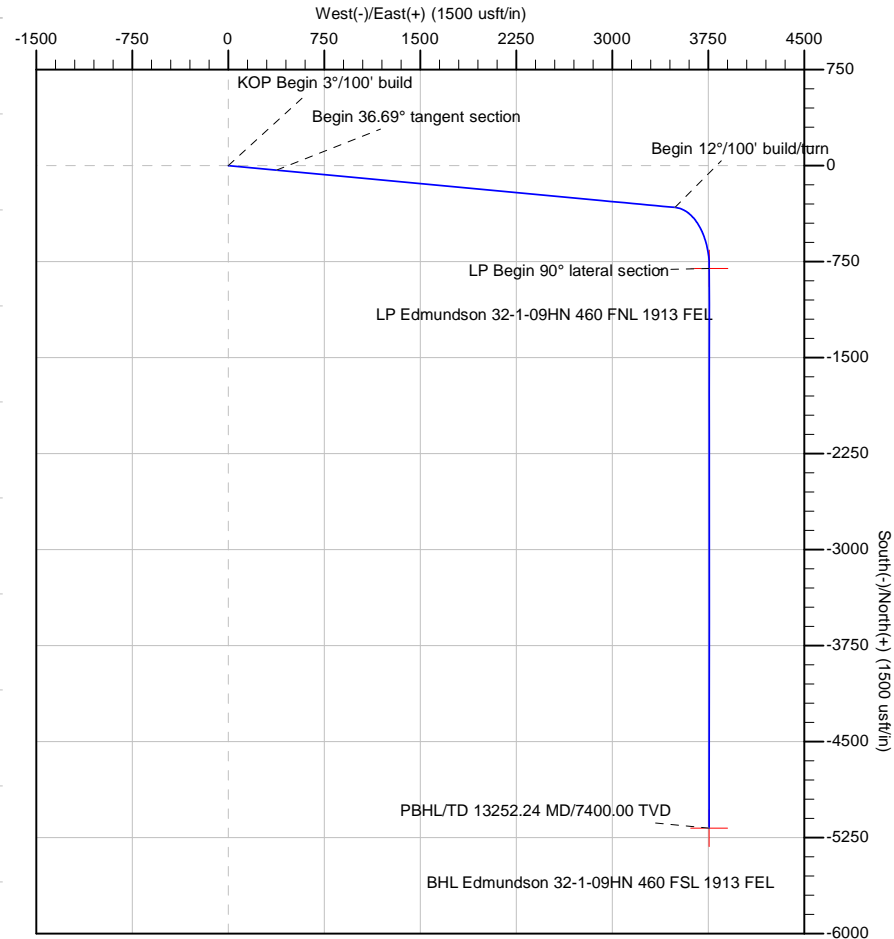
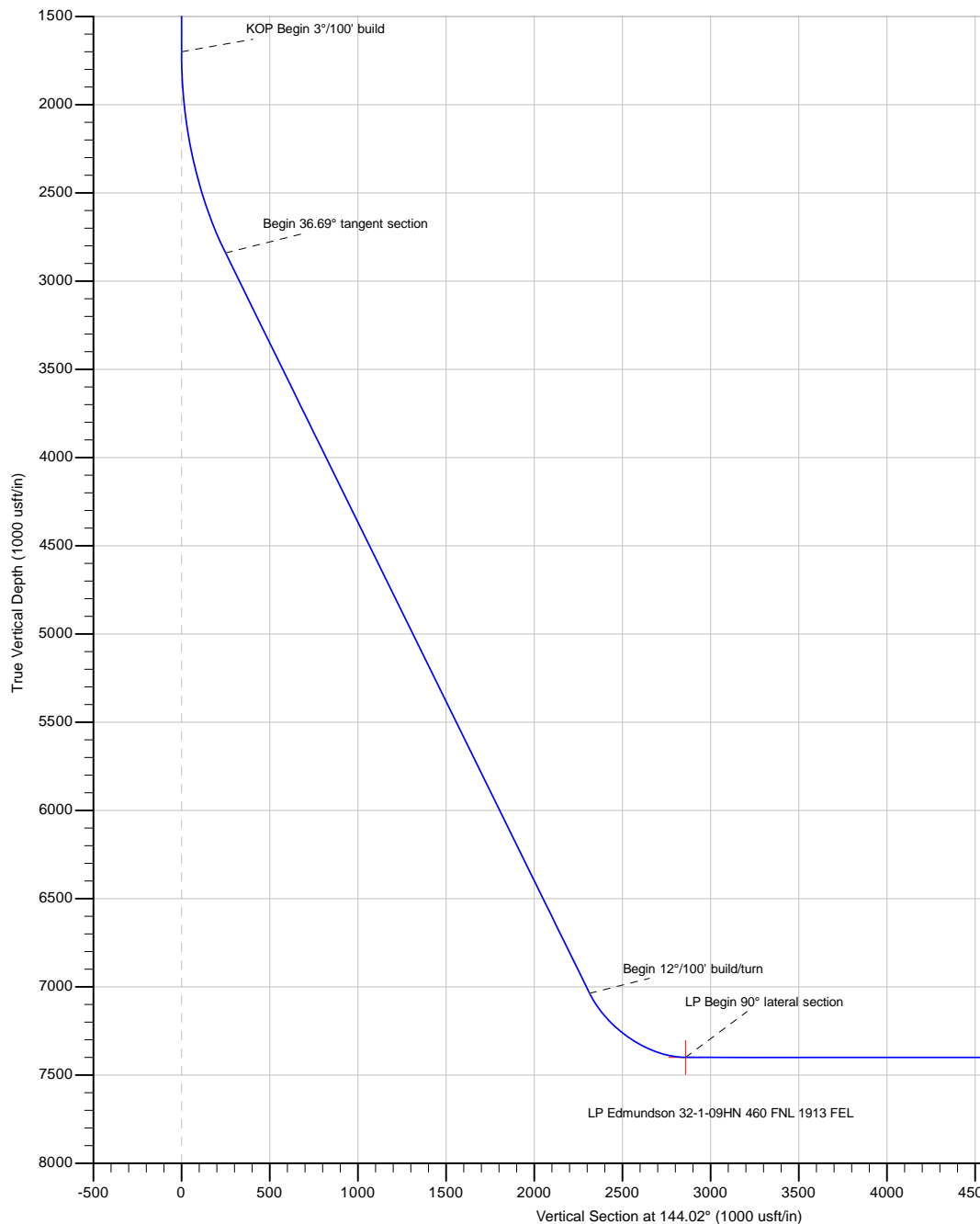




WARD PETROLEUM

Well: Edmundson #32-1-09HN
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	2923.06	36.69	95.35	2841.16	-35.28	376.77	3.00	95.35	249.89	Begin 36.69° tangent section
4	8156.71	36.69	95.35	7037.83	-326.81	3490.30	0.00	0.00	2314.93	Begin 12°/100' build/turn
5	8880.20	90.00	180.02	7400.00	-803.63	3758.84	12.00	85.72	2858.56	LP Begin 90° lateral section
6	13252.24	90.00	180.02	7400.00	-5175.67	3757.32	0.00	0.00	6395.70	PBHL/TD 13252.24 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=5059.2+17 @ 5076.20usft

Surf loc: 365 FSL 344 FEL Section 30-T01S-R66W
Northing: 1218054.00 Easting: 3193459.67 Latitude: 39.92987301 Longitude: -104.81015380