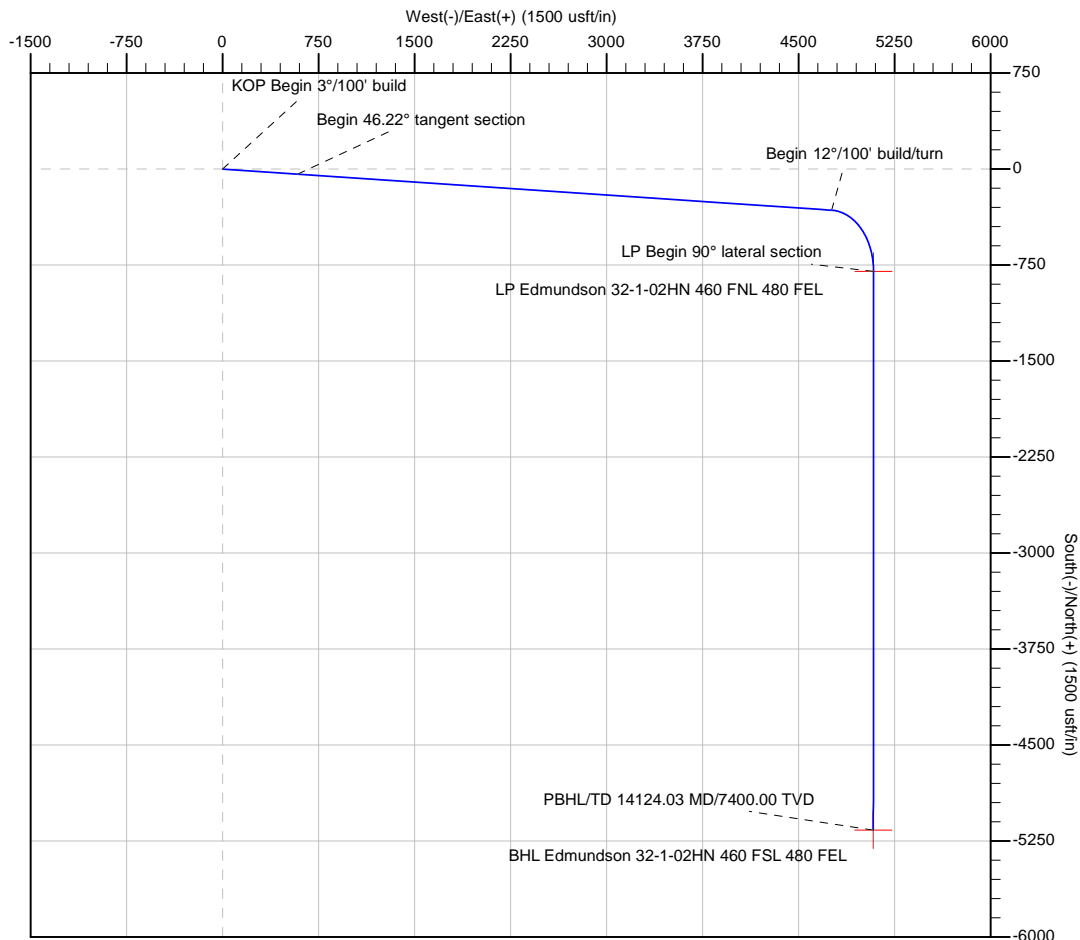
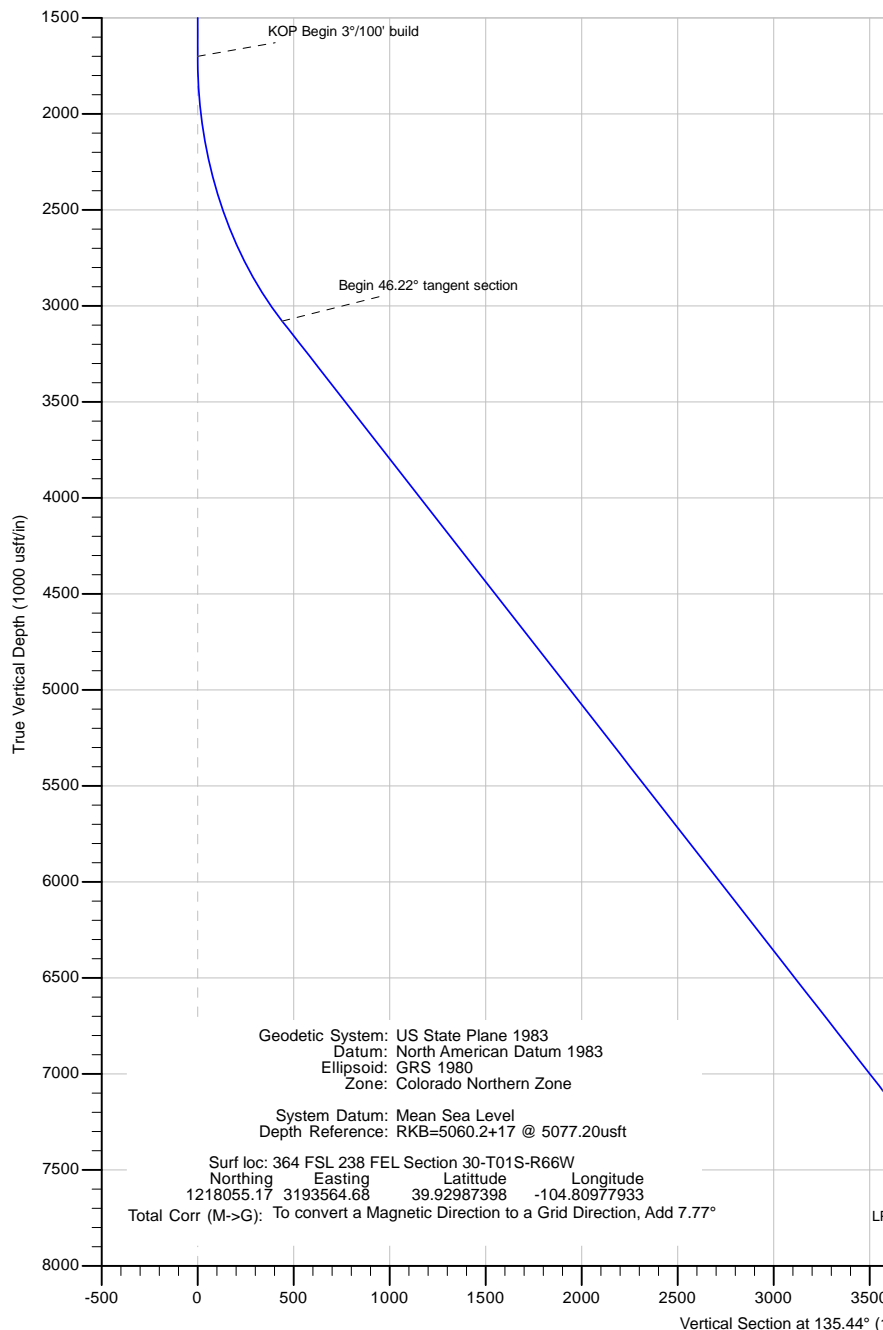




WARD PETROLEUM

Well: Edmundson #32-1-02HN
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	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 46.22° tangent section
3	3240.79	46.22	93.86	3079.01	-39.64	587.20	3.00	93.86	440.25	Begin 12°/100' build/turn
4	9031.52	46.22	93.86	7085.28	-321.28	4758.89	0.00	0.00	3567.93	LP Begin 90° lateral section
5	9758.41	90.00	180.02	7400.00	-798.30	5086.44	12.00	87.34	4137.65	PBHL/TD 14124.03 MD/7400.00 TVD
6	14124.03	90.00	180.02	7400.00	-5163.92	5084.93	0.00	0.00	7247.25	BHL Edmundson 32-1-02HN 460 FSL 480 FEL



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=5060.2+17 @ 5077.20usft

Surf loc: 364 FSL 238 FEL Section 30-T01S-R66W
Northing Easting Latitude Longitude
1218055.17 3193564.68 39.92987398 -104.80977933

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



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