



WARD PETROLEUM

Well: Brighton Lakes #3031-1-11HN
Site: Brighton Lakes
Project: Adams County, Colorado
Design: rev0

Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
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	2681.31	29.44	264.31	2638.69	-24.43	-245.39	3.00	264.31	89.88	Begin 29.44° tangent section
4	7807.40	29.44	264.31	7102.90	-274.05	-2752.46	0.00	0.00	1008.20	Begin 12°/100' build/turn
5	8535.42	90.00	179.69	7500.00	-752.23	-2972.97	12.00	-85.32	1528.19	LP Begin 90.00° lateral section
6	18178.38	90.00	179.69	7500.00	-10395.04	-2919.97	0.00	0.00	0797.36	PBHL/TD 18178.38 MD/7500.00 TVD

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=5048.6+17 @ 5065.60usft

Surface details
Northing 1223227.36 Easting 3194787.54 Latitude 39.94404604 Longitude -104.80527449

Total Corr (M->G): To convert a Magnetic Direction to a Grid Direction, Add 7.78°



Azimuths to Grid North
True North: -0.45°
Magnetic North: 7.78°

Magnetic Field
Strength: 52190.5nT
Dip Angle: 66.49°
Date: 2/1/2017
Model: IGRF2015

