



WARD PETROLEUM

Well: Brighton Lakes #3031-1-04HC  
Site: Brighton Lakes  
Project: Adams County, Colorado  
Design: rev0

Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	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	2274.42	17.23	261.12	2265.80	-13.24	-84.71	3.00	261.12	26.94	Begin 17.23° tangent section
4	7611.89	17.23	261.12	7363.67	-257.34	-1647.00	0.00	0.00	523.81	Begin 12°/100' build/turn
5	8340.82	90.00	179.69	7800.00	-735.07	-1778.21	12.00	-81.81	1016.58	LP Begin 90.00° lateral section
6	17989.98	90.00	179.69	7800.00	-10384.09	-1725.30	0.00	0.00	0526.44	PBHL/TD 17989.98 MD/7800.00 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 1223227.76 Easting 3194862.48 Latitude 39.94404553 Longitude -104.80500721

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

