

Glacier National Park Virtual Field Trip

Stop 2 - Gunsight Pass & Lake Ellen Wilson

1. Draw a topographic profile of the Lincoln Creek Valley, where Lake Ellen Wilson is located, using the 1:24,000 topographic map you printed. Use the online version to read elevations from, but use the printed copy to actually do your profile. Even though the printed version is not exactly to scale, assume it is accurate. The online version is NOT to scale. Note that the profile line drawn on the map is not perfectly straight; it has a slight bend in it. The hatch marks along the profile line show where the contour lines cross the profile line. Assume the elevation of the continental divide at the end of the profile line has an elevation of 6946 feet. Use a 5-times vertical exaggeration.
2. Look at the surficial deposits map. What type of material do you find surrounding Lake Ellen Wilson?
3. Since the material surrounding the lake is not glacial in origin, do you think this valley was carved by glaciers? Why or why not?