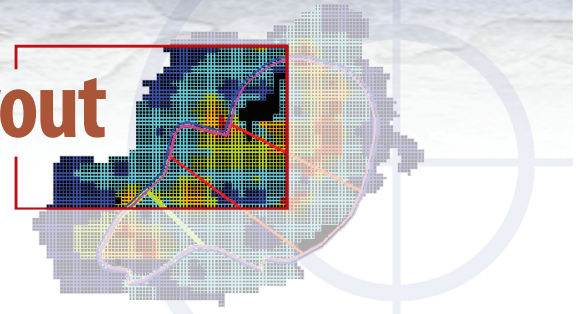


Adding Viewers to a Plot Layout



The MineSight® 3-D (MS3D) Plot Layout object provides the option to create Plot Areas from 2D or 3D viewers. These are referred to as Viewer Areas.

There is no technical limit to the number Viewer Areas (or other Plot Areas) that can be added to a Plot Layout. While physical constraints may impose practical limits on the number of Plot Areas used, MineSight clients have produced useful plots consisting of more than 40 individual viewers.

Here's an example showing how to create Viewer Areas from 3D and 2D viewers. Start by creating 2D and 3D views in MS3D as shown in Figure 1. The 2D view shows some drillholes in section. The 3D view shows the same drillholes with the property surface displayed as a textured image.

It's good practice to give each MS3D viewer a descriptive name such as "3D viewer".

To add the viewers to the Plot Layout, go to the **Layout** page of the **Plot Layout Properties** dialog and then go to the **Area** page.

Use the + button to add a new Plot Area as shown in Figure 2. The **Type** dropdown has options for **Current Viewer** and **Viewer**. For the 3D viewer choose **Viewer** and select the corresponding viewer msr file using the **Object** chooser.

Similarly, define a Viewer Area for the 2D viewer and select the **2D Viewer Area** as the **Main Viewer** using the toggle in Figure 2. This will be important in the tip given below.

Notice that one of the Viewer Areas could have **Current Viewer** for the **Type**, in which case you would not select its viewer object (msr file). The **Current Viewer** is whichever viewer has focus in the desktop.

Once the Viewer Areas have been created, position them in your Plot Layout along with other Plot Areas like Title Blocks and Legends (Figure 3).

Feel free to mix and match views with different orientations to display your 3D data from various angles. Creative application of 2D and 3D Viewer Areas to your Plot Layout will greatly enhance the presentation of your plots.

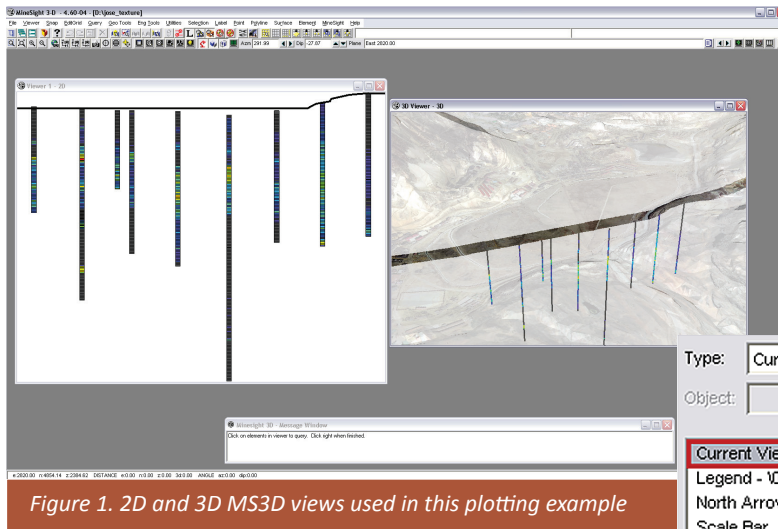


Figure 1. 2D and 3D MS3D views used in this plotting example

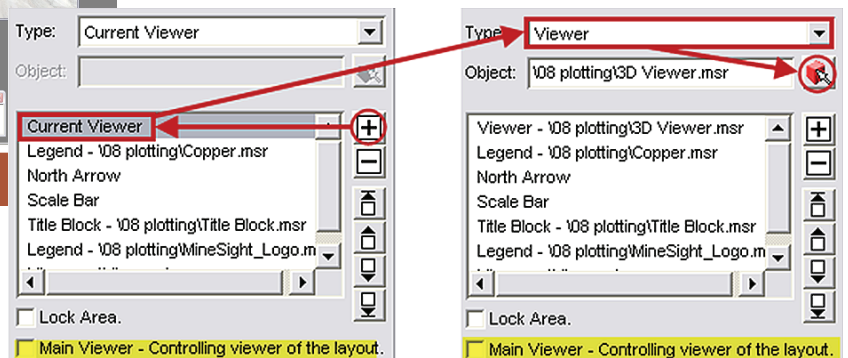


Figure 2. Adding the 3D Viewer to the Plot Layout

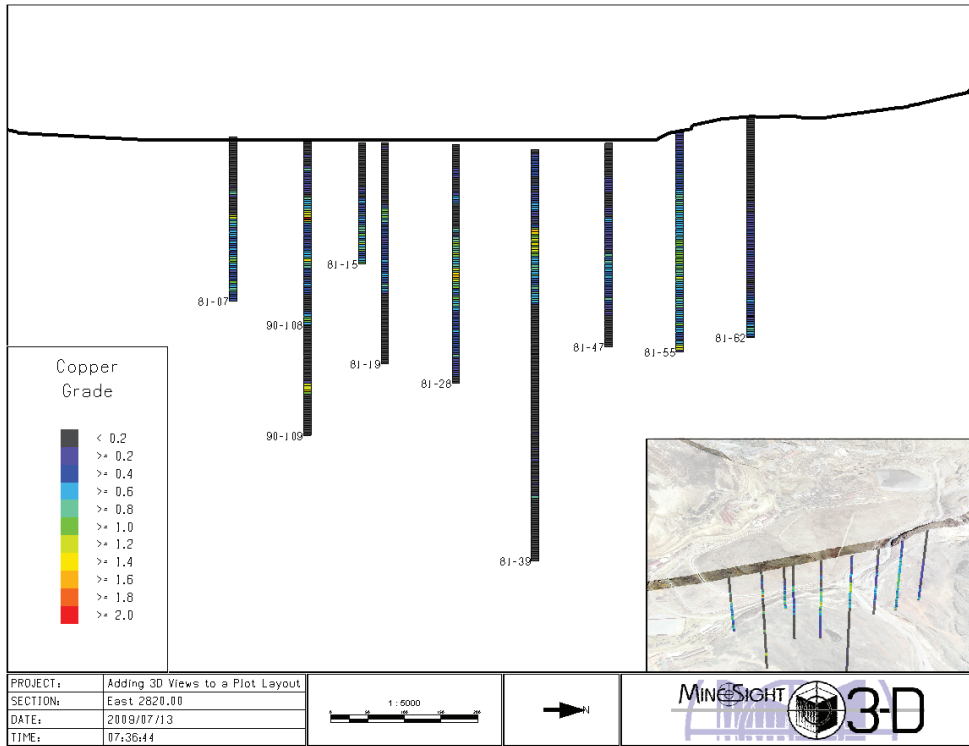


Figure 3. Using 3D Viewer Areas can enhance the presentation of plots

Tip:

The Plot Layout will always have a *Main Viewer* (see the *Main Viewer* toggle in Figure 2) which controls the scale of any other viewers that are not in *Perspective* mode.

In our example, the 2D viewer is the *Main Viewer*. Since the 3D viewer has a different scale than the *Main (2D) Viewer*, the 3D viewer should be set to *Perspective* mode. This is accomplished on the *View Options* tab in the *Viewer Properties* dialog as shown in Figure 4. Note that 2D viewers cannot be set to *Perspective* mode so it's best to designate the 2D viewer as the *Main Viewer* when your *View Areas* have different scales.

If you have multiple 2D viewers of different scale, consider converting them to 3D viewers and using *Plane Filter* or *Volume Clipping* (Figure 4) to give them a 2D display. This way you can still use the *Perspective* mode.

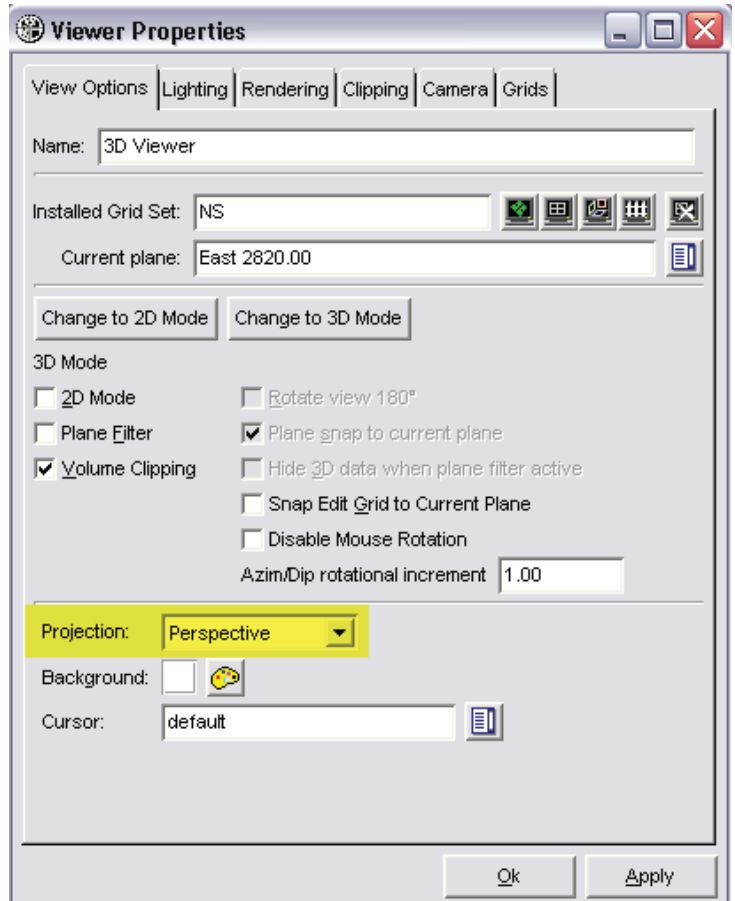


Figure 4. Set the Projection to Perspective for the 3D viewer. Then the 3D Viewer Area can have a different scale than the 2D Viewer Area