

MSIP Tip: Use of TOPO%

The MineSight Interactive Planner (MSIP) is a powerful reserves calculator, but like any program its accuracy is subject to how well it is set up. There are two variables that must be accounted for when calculating reserves:

- TOPO - the amount of topography encompassed by each 3D block
- PARTIAL - the percentage of a specified 3D block that is within the cut

When a new **Interactive Planner Object** is created, the **IP Set Creation** dialog, by default, has the **Min (Topo/Part)** option toggled on (Figure 1). This option indicates that MSIP should take the minimum of the partial and the topography percentages and use that values to determine the total amount of material taken for the reserves calculation. This method is appropriate when the cuts are rationalized against the TOPO surface (see note).

Figure 1 The **Min (Topo/Part)** option on the **IP Set Creation** dialog.

Figure 1 →

The screenshot shows the 'IP Set Creation' dialog box. It has a title bar with a close button. The main area is divided into several sections. On the left, under 'Type of IP Set', there are three radio buttons: 'Create new' (selected), 'Clone existing', and 'Connect to existing'. To the right of this is an 'IP Set name' text field. Below that are three checkboxes: 'Drillholes', 'Multiple Ore Percent', and 'Partials Mapping'. To the right of these are three checked checkboxes: 'Min (Topo/Part)' (highlighted in yellow), 'Ore Clipped', and 'Treat Missing Grades As Zero'. At the bottom left, there is an 'Existing IP Set' dropdown menu showing 'new test' and a 'Settings only' checkbox. At the bottom center is a 'Filter Geom' button. At the bottom right are 'OK' and 'Cancel' buttons.

If the option is toggled off, MSIP will use the product of the TOPO and PARTIAL percentages in the reserves calculation. If the cuts are not rationalized against TOPO, then use this option to prevent over reporting.

NOTE:

When using mid-bench and TOPO design contours, it's best not to snap to the mid-bench contours. The digitized cuts will be vertically extruded to the toe of the block; if you snap to the mid-bench contour you will neglect the slope of the block and any material that lies in this transition to the toe. This will produce incorrect calculations of the remaining material on the bench and incorrect period map surfaces from the MSIP Period Map tool. In order to prevent this, either:

1. Use a scalable cursor to generate cuts that exceed the mid-bench contour and approximate the distance to the toe of the bench, or
2. Display the toe contours and snap to them instead, or
3. Choose not to use the TOPO item in your setup, using just the partials instead.