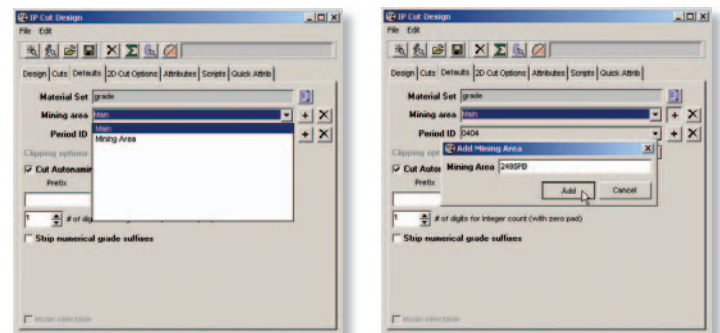


TIPS from Tech Support

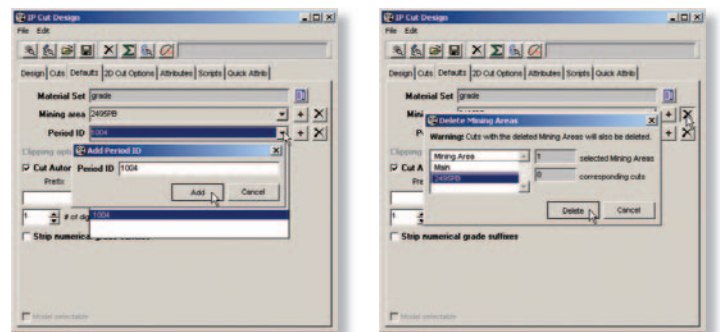
MineSight® Interactive Planner: Setup Considerations for Ore Control

The general setup options for the MineSight® Interactive Planner (IP) was covered in the August 2004 issue of *MineSight® in the Foreground*. This issue's IP installment examines some additional considerations for a general Ore Control setup. The additional setup will take place in various tabs in the **Design Cuts** dialog of the IP Tool. To access this dialog, click the **Design Cuts** button in the main IP interface once you have completed the setup of the **Area** and **Material Sets** for your Interactive Planner Object (IPO).

click the respective down arrow or simply right-click in the field.



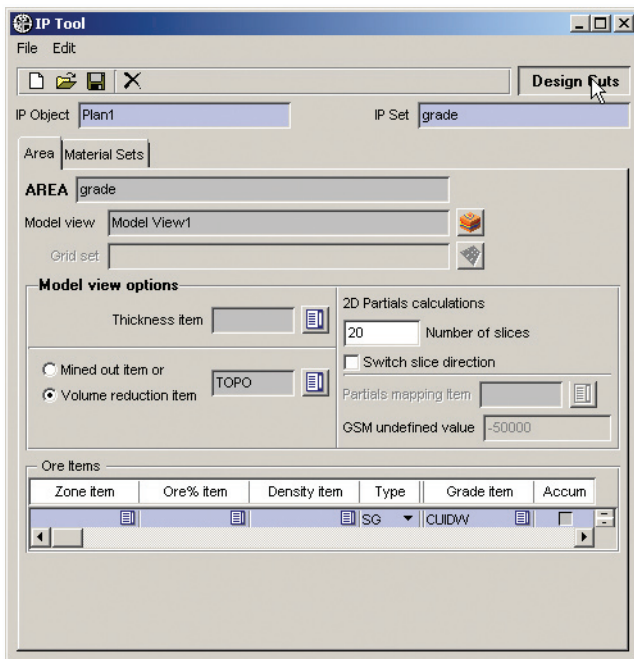
To add a **Mining area** or **Period ID** click the respective '+' icon; to delete a **Mining area** or **Period ID**, click the respective 'x' icon and select the **Mining area(s)** or **Period ID(s)** to be deleted. New material sets can only be added or deleted through the **Material Sets** tab in the main IP interface.



Finally, the **Defaults** tab also allows the application of an auto-naming convention to the cuts as they are created. Prefix, suffix, and zero padding can be user-specified, and the integer value will be incremented when each new cut is created.

The next tab in the sequence is the **2D Cut Options** tab. This tab provides check boxes for selection of Polygon Cut Orientation. The default setting is **Compute from cut**, which projects the polygon area from

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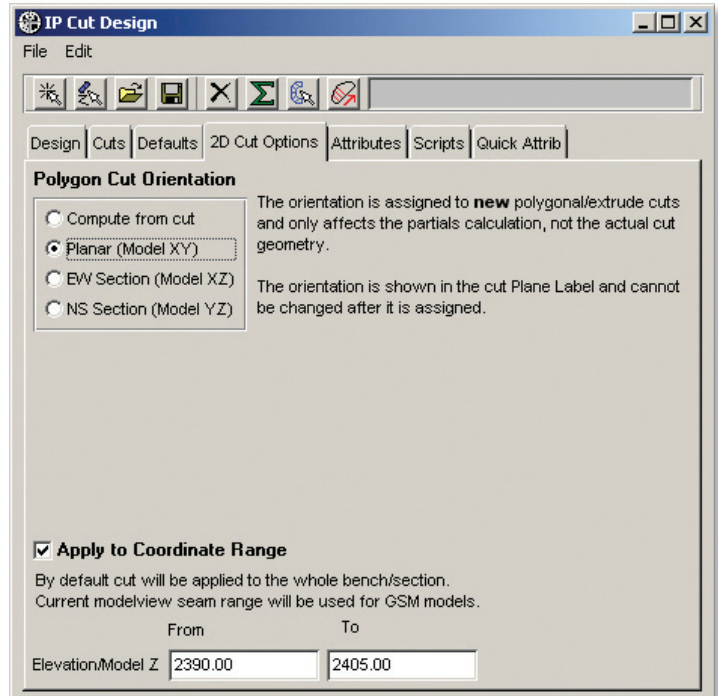
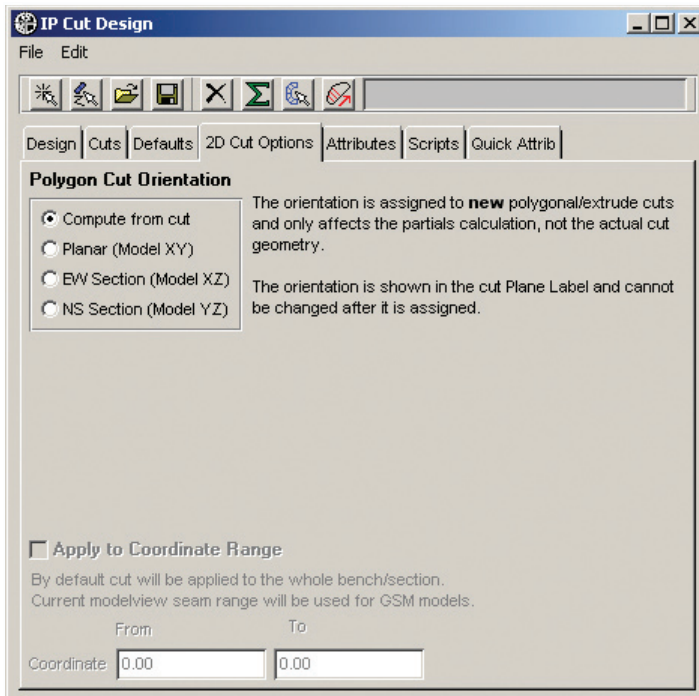


The first tab to be examined is the **Defaults** tab; **Mining area** and **Period ID** specification are made on this tab, as well as selection of the desired **Material Set**.

The **Mining area** is generally used to define a geographic area of the project (i.e., a pushback, a pit, etc.) and the **Period ID** can be defined as needed for the task at hand (day, month, quarter, year, etc.). To select an existing **Mining area**, **Period ID**, or **Material Set**

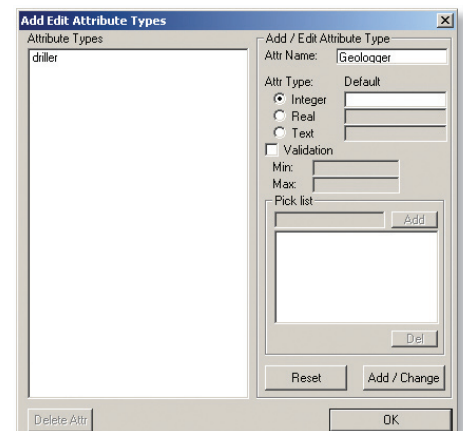
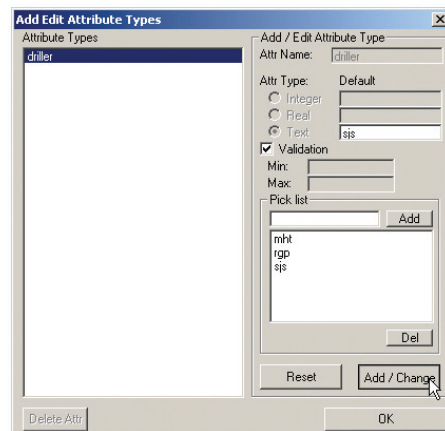
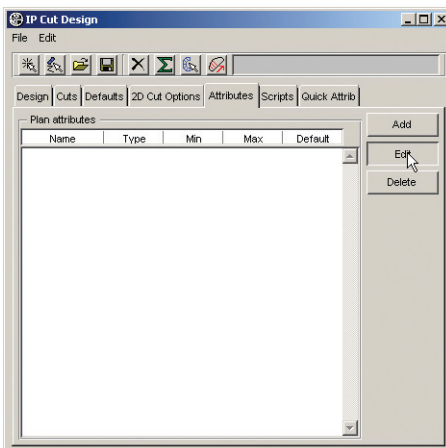
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toe to crest in the model level row or column in which the cut is created. Three additional options allow the specification of Planar (Model XY), EW Section (Model XZ), or NS Section (Model YZ) orientation. These three options allow the specification of a specific coordinate range of application by checking the **Apply to Coordinate Range** box and entering the **From** and **To** values in the corresponding fields.



The next tab to be examined is the **Attributes** tab; Attributes of virtually any description can be added to the IPO, allowing the user to customize the generation and storage of a nearly limitless amount of information with each cut. Three types of **Attributes** are supported: **Integer**, **Real**, and **Text**, and all can be validated to prevent the entry of inappropriate values. The purpose of these attributes is to further identify and define the cut with pertinent information. Some examples of attributes are: tonnes, grades, dispatch tonnes, users, dates, ore routing, flags, costs (\$), quantities (explosive), etc. Depending on the use of the particular IPO, the user has the ability to completely define what information they want to store in the database for each cut.

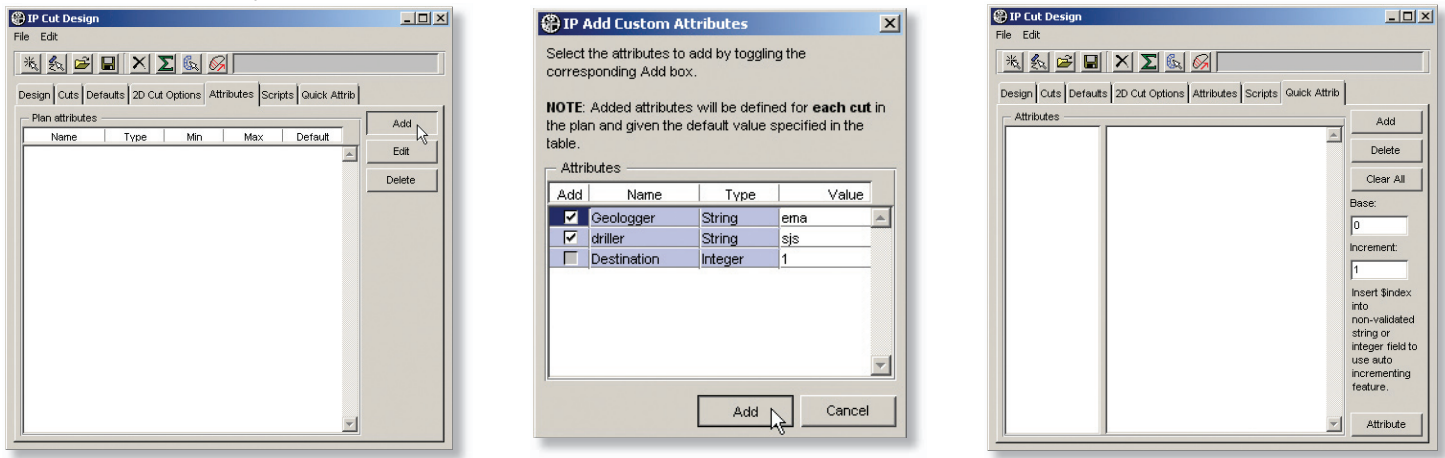
To create new **Attributes**, click the **Edit** button; this will bring up the **Add/Edit Attribute Types** dialog. Enter a name for the attribute, define the type (**Integer**, **Real**, or **Text**) and enter a default value. This is the value that will be assigned to each cut on creation, but the user can change it at any time. To validate the attribute, check the **Validation** box; **Integer** and **Real** attributes can be limited by range with a minimum and maximum acceptable value, while the **Text** attribute type requires the creation of a **Pick list** (note that the default value must be a member of the **Pick list**). When the attribute has been defined, it is committed to the AGDM by clicking the **Add/Change** button.



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Once the desired attributes have been created, they can be added to the IPO by clicking the **Add** button on the **Attributes** tab. This brings up the **IP Add Custom Attributes** dialog; check the box to the left of each attribute you wish to add to your IPO. The attribute will be added automatically to all subsequent cuts created in this IPO. To add this attribute (with its default value) to existing cuts, use the **Quick Attrib** tab, which has similar functionality.



The **Attributes** capability of the IP Tool is a very powerful and flexible function that can help the Ore Control engineer create a project that completely meets the needs and requirements of the mine.

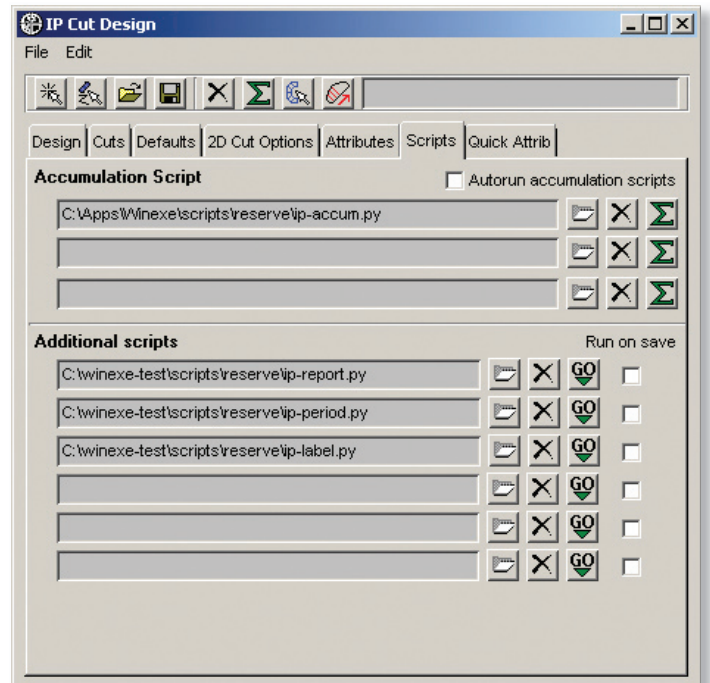
The next tab to be examined is the **Scripts** tab; the desired reporting and other additional scripts are selected and executed through this tab. MineSight® Grail scripts have been created to code the acQuire™ blast-holes from MineSight® with a cut, code the model, import and export dispatch information, import and export cut information/coordinates, update and compare tonnes and grades, excel and generate other reports.

MineSight® Grail scripting is very advanced and it can be used to run a multitude of tasks. Some tasks are simple like exporting the cut to GPS format. Scripted tasks may also be quite extensive, such as comparing two models (e.g., blasthole vs. long range). MINTEC, inc. is able to create scripts to meet the requirements of individual clients and modify them as needed.

The **Scripts** tab has two areas. The top area is used to specify the desired **Accumulation Script** with the **Additional scripts** specified in the area below. The **Accumulation Script(s)** are run every time the green sigma icon is pressed. The sigma icon is at the top of the IP Cuts window and in the **Scripts** tab, just right of each script. The sigma icon on top of the IP Cuts window will run all the scripts in the accumulation area.

Additional scripts are run directly from the **Scripts** tab by pressing the GO button to the right of the desired script. If the **Autorun accumulation scripts** box is checked in the **Scripts** tab, then the accumulation scripts will run automatically when a cut design is finished. The **Run on save** option in the **Additional scripts** area runs the script automatically when the cut is saved (using the save icon or **File | Save**).

Once the various tabs have been setup as required, cuts can be created for the evaluation of reserves. Cuts are created either by digitizing polylines in the viewer or by importing existing geometry (MineSight® 3-D polygons or solids). Upon creation, cuts are Open; it is only in this state that scripts can be run on a particular cut, and only one cut can be open at a time. It is also possible to edit an open cut by clicking the **Edit geom** button on the IP Tool **Design** tab. All MineSight® 3-D

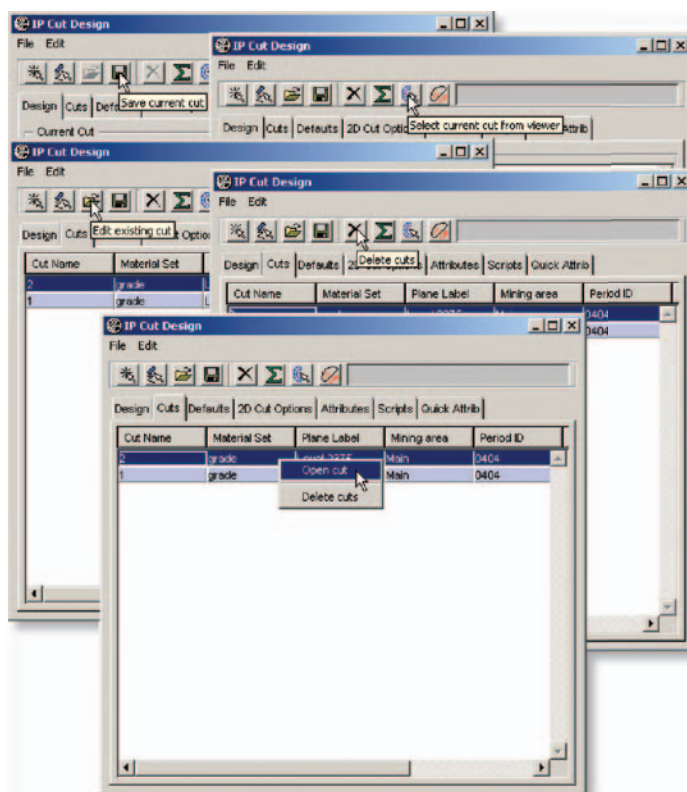
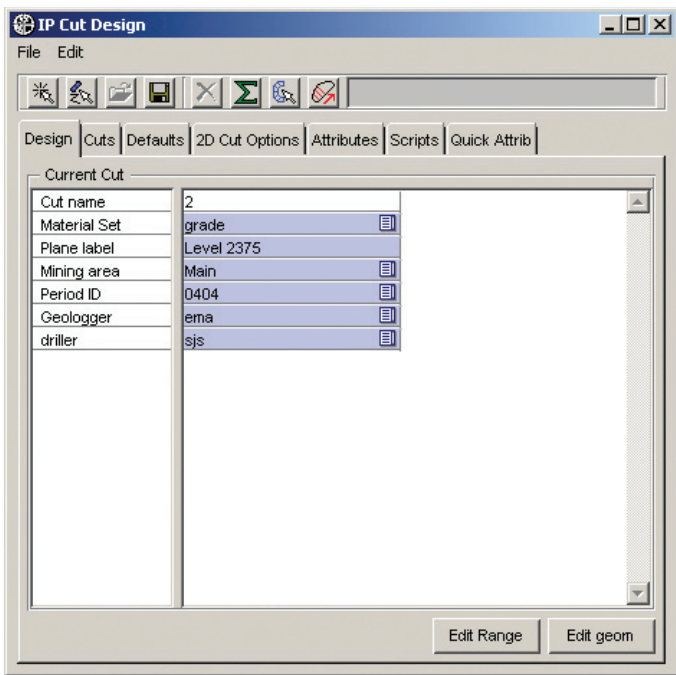


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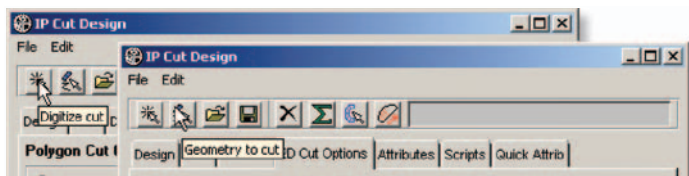
CAD functions can be used to edit a cut. The **Design** tab lists the various attributes of the currently open cut, both the required attributes (**Cut Name**, **Material Set**, **Plane Label**, **Mining Area**, and **Period ID**) and any additional user-specified attributes. All attributes except the **Plane Label** can be modified manually in the **Design** tab as well.

icon or through the **File | Save** menu option. After saving a cut, it can be re-opened for editing and recalculation by using the **Select current cut from viewer** icon or by selecting the desired cut on the **Cuts** tab and using the **Edit existing cut** icon or the right-click menu. Existing cuts can be deleted using the same techniques.



Cut manipulation is provided by a variety of convenient icon-driven options, all of which are also available as menu functions. To create a new cut in the viewer, click the **Digitize cut** icon or choose **File | New** from the IP Cut Design menu. To import existing MineSight® 3-D geometry as a cut, click the geometry to cut icon or choose **File | Geometry to cut** from the menu. The **File** menu also provides an option to **Import multiple**, which allows you to select multiple geometry elements from the viewer in a single operation.

The IP Tool is the centerpiece of a very powerful set of MineSight® tools that can streamline the most time-consuming parts of your mine's daily ore routing evaluation, and reporting functions and stores the desired results in a database ready for any required reporting or post-processing.



Once the cut is designed or imported and editing and reporting is complete, the cut remains open and current until it is saved using the **Save current cut**