



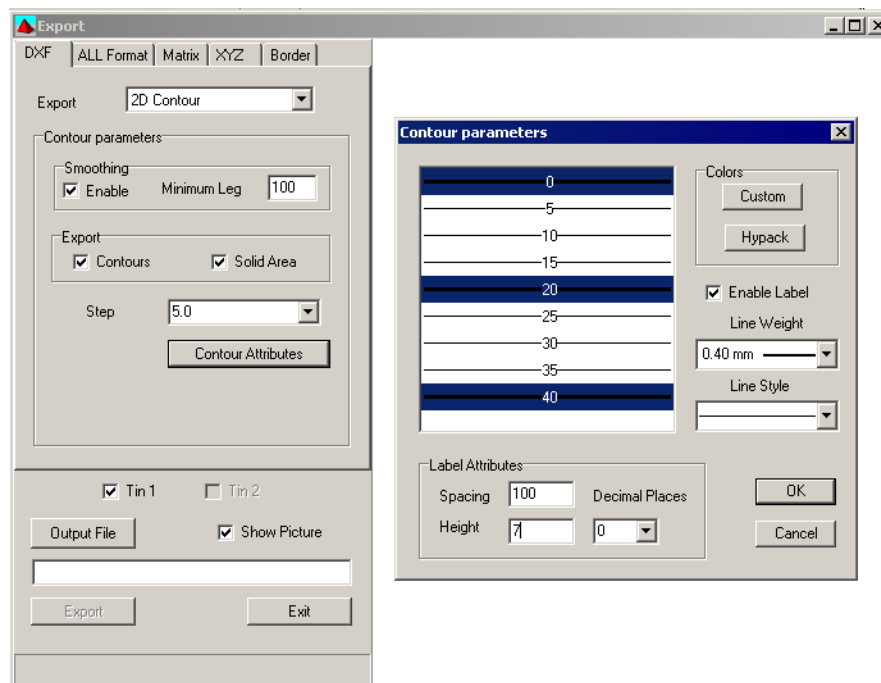
Creating Contours in TIN Model

By Monique Lee

Contours are useful in displaying your data for a variety of reasons. You can create contours in HYPACK® by utilizing the TIN MODEL program. Following are the basic steps to create contours in HYPACK®.

1. **Create a TIN Model of your data.**
2. In the TIN MODEL program, select EXPORT-SELECT and an 'Export' dialog box will appear.

FIGURE 1. Configuring the DXF Output in the Export Dialog (left) and Contour Parameters Dialog (right)



3. **In the DXF tab, set your export options:**
 - **Select the desired Export dimension format.** 3D files will only appear in three dimensions in AutoCAD.
 - **Smoothing:** We recommended you smooth your data set. Smoothing eliminates jagged edges by evening out and cleaning up your contours. Smoothing your data does increase your DXF file.
 - Your **'Minimum Leg'** should be less than your 'TIN Max Side' in your Initial Data window. When the Minimum Leg is greater than your TIN Max Side, smoothing will not occur. Also, be aware that if the Minimum Leg is *too* large, it will place the contour on the wrong side of the sounding! So be careful!
 - **Contours** and **Solid Area:** For this example, we will export both Contours and Solid areas. When both options are selected, TIN Model overlays contour lines on color filled contours.
 - The **Step** value is the interval between your contours.

4. **Click [Contour Attributes] and customize your contours and click [OK].** In the Contour Parameters Window, you have the option to set your line, label, and color attributes.
 - **Line Attributes:** By selecting the desired lines, you can set which lines you want to be labeled, the weight and style of said lines, and the desired colors.
 - **Label Attributes:** You can set your label spacing and how large (high) you want the labeling to display.
5. **Click [OK]** to save your Attribute settings and return to the Export dialog.
6. **Select 'Output File,' and name your file.**
7. **Select 'Export.'** You will see your data being drawn to the screen, and your contoured DXF is now available to use in your HYPACK Shell, and elsewhere.

FIGURE 2.

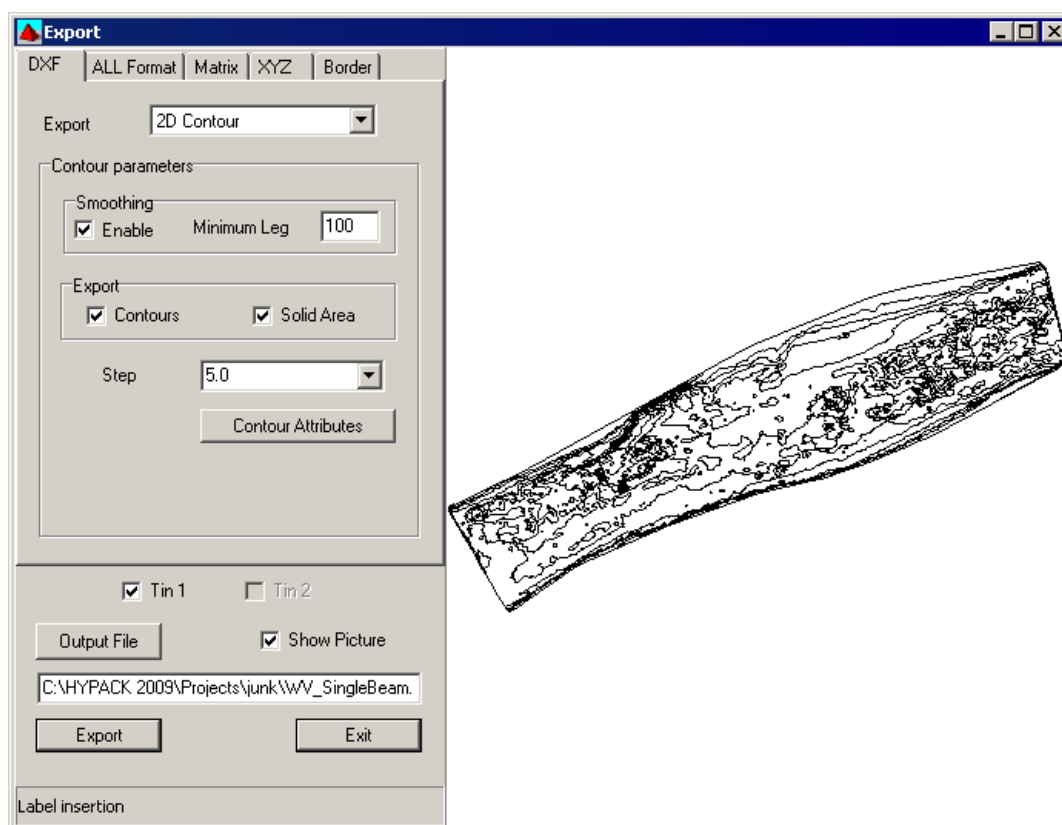


FIGURE 3. Resulting DXF Contour

