

## Chapter 1 : Geological diagrams | The RockWare Blog

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This example is based on an inquiry from a customer who is modeling an existing fill site, in which there are borings surrounding the fill, but none inside. They have surface models of the fill base and fill top which they want to add to the borehole-based stratigraphy model, constraining those borehole surfaces with the fill surfaces. Create the RockWorks project and enter the borehole-based data Create a new project in RockWorks, and import your borehole data File Import menu. Or, create the borehole records manually Edit New Borehole and enter the stratigraphy data into the borehole manager: Establish the Output Dimensions Once the borehole location and stratigraphy data have been entered, click the Scan Boreholes button at the bottom of the program window to automatically determine the coordinate extents for the project. You can also just type these in, if you prefer. Be sure to check the node spacing along the X and Y axes – this will determine how coarse or fine your grid models will be. Here is how the Output Dimensions might look: This project-wide and interactive view of the model allows you to drill down into the model to see how well the surfaces match the borehole data be sure to turn on the Plot Logs option to display your stratigraphy logs in the 3D display. You can zoom into the display, rotate it, etc. If you are not satisfied with the way the model looks, how it honors the log data, etc. Name these grid models using the RockWorks naming convention: Display the stratigraphy grids and fill base grid in cross section This step will let you visualize the stratigraphic layers which will need to be constrained by the fill grids. Jump back to the Borehole Manager and use the Stratigraphy Section menu to create a cross section diagram through the middle of the fill area. Use the Section Selection Map tab to draw a cross-section trace through the middle of the fill area. In the resulting cross section, make note of the stratigraphic layers which are impacted by the fill and those which are not. Repeat if you like, for another cross-section trace. Constrain the stratigraphy grids with the fill base Jump back to the Utilities program tab. You can set the output name to the original grid name. Use an RCL script to automate this! This assures that RockWorks will read the existing filtered grid models for all of the formations in the Stratigraphy Types table. You can create other Stratigraphy menu diagram with these same surfaces.

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*ISOPLOT is a flexible software tool for the analysis and interpretation of radiogenic-isotope data. It is developed by Dr Ken Ludwig of the Berkeley Geochronology Center. DISCLAIMER: Isoplot is BGC's Visual Basic Add-in for Microsoft's Excel(R) for data analysis and graphical presentation of geochronology, earth science and other radiogenic.*

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*- Interface standards, enabling software reuse, technology infusion, data lifecycle planning, etc. are important &€ What we need in the future are knowledge-building systems.*

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