How do I build a simple IMAGELog template?

Steps below outline the creation of a composite log display containing Curve, Depth, and Color Coded columns. The number and the types of columns can be changed as desired.

Part 1: Creating a Curve Track

1. Click on **Applications** on the *Main Menu Bar*; select **IMAGELog** from the pull down menu.

2. If this is the first time you have opened the IMAGELog module you will be presented with a Well Selection and Collection Control window. Click the Well Name List button and select a well.

   *If you had a well already selected in other modules in Terrastation but would like to choose another well, Click the **Well Parameters** button on the power bar and then the **Select Well** button.*

3. Click on the **Create New Image** button on the right hand panel. A red highlighted column appears on screen.

4. On the right hand panel under **Build Options** Click the **Track Setup** button.

   *Note the terminology here. **Track Setup** refers to the higher level of creating/adding a track, and **Track Configuration** refers to the detail for a given track.*

5. Select **Curve** from the list of *Track Types*. Click the **Track Configuration** button.

6. On the Curve Display Options window set the Curve List combo box either to **Alias List** or **Well Curve List**. *Alias List* allows you to access a list of all curves loaded into the project. *Well Curve List* displays only the curves loaded into the selected well. *Alias List* should be used if you want to build a generic logplot display for use on several wells. However, if the curve selected is not present in the current well, it will not appear in subsequent curve displays.

7. Click the **Select Curves** button to actually select the curves. You will be presented with a **Multiple Curve Selector** window.

8. There are two ways to select a curve from the Select From list. You can either double Click on a curve from the list, or Click once on a curve/s to highlight them and Click the **Add** button (= = >). Up to 8 curves can be selected for a curve track. When finished, Click **Accept** on the **Multiple Curve Selector** window.

9. To draw a vertical or horizontal grid in the track, set the **Vertical Grid** checkbox or **Horizontal Grid** combo box appropriately on the **Curve Display Options window**.

10. Grid display characteristics, such things as line colour, weight, and frequency, are accessed via the **Horizontal** and **Vertical Grid** buttons.

11. A button appears with the name of each selected curve on the **Curve Display Options** window under Curves Selected. The curves are drawn in the highlighted track on the screen.

If the curve does not appear, check that:

o *The depth on screen includes the logged interval for the curve. (Move the cursor up and down in the track. Watch the depth values in the lower right corner of the window to see the current depth display range.)*

o *The left and right scales for the curve are consistent with the data values. See the instructions which follow.*

o *The selected curve exists for this well (if you selected the curve from the Alias List).*

12. Click on the Display Attributes tab. Change the curve line **Color**, **Style**, or **Weight** by Clicking the specific button and choosing the desired setting.

13. The curve range refers to the display scale for the curve. Adjust this by un-checking the Use Default Range (If checked) and entering the Left and Right Scale values in the dialog boxes.

14. The *Scale Type* combo box may be either **Linear Scale** or **Log Scale**.

15. Several shading techniques are available via the combo box, which initially reads **No Shading**. Set the combo box to the one of the options: **To Constant**, **From Constant**, **To Curve**, or **From Curve**. If shading from/to a constant, enter your value in the dialog box. If shading from/to curve, select the second curve. The "from" is considered to be on the left, the "to" value on the right. Shading will not occur if the "from" value is greater than the "to" value.

16. Click **Close** to close the **Curve Display Options** window and return to the **Track Setup** Panel.

17. If at any time you would like to save the **track** setup so that in future you can restore it for any well, you can do so by Clicking the **Save** button on the power bar and providing a name for the stored track. This saves ONLY the current track for later re-

use. If you have several tracks and want to save the complete setup, see the similar technique at the end of this document.

Part 2: Adding a Depth Track

1. Click on the **Add a Track** button. A new column is added to the right of the Curve column.

2. Set the column width for the track by clicking in the Track Width dialog box. Type in the desired width, e.g. .1.5

3. Select **Depth** from the list of *Track Types*. You may like to change the frequency of the displayed labels or change the depth values from MD to SSTVD and vice versa. To do so, while the *Depth* column is still highlighted, click on **Track Configuration** and adjust the setting in the **Depth Display Options** window.

4. Flag markers may be added to your depth track to highlight depth intervals, which meet some simple condition on any of the curves within the well. To select a **Left** or **Right Flag**, Click on the Flag Control tab followed by the corresponding button and select a curve from the list. **Accept** the curve. Set the **Color** and the **Cutoff Value** for the flag(s) using the dialog boxes. The flags appear on the chosen side of the depth track.

5. Click **Close** to return to the Track Setup panel.

Part 3: Adding a Color Coded Track

1. Again, **Add a Track**. A third column is added to the right of the depth column.

2. Select **Color Coded** from the list of *Track Types*. Click on the **Track Configuration** button. You will be presented with the **Color Coded Curve Display Options** window.

3. Click **Base Curve** and select a curve from the list of curves. **Accept** the curve.

4. If you need to change the scale of the selected curve, set the **curve minimum** and **curve maximum** values using the dialog boxes.

5. Set the scale combo box to either **Linear** or **Logarithmic** as appropriate.

6. The **Number of Colors** dialog box sets the number of colours.

7. To adjust the colour scheme, Click **Edit Color Map**. The *Color Map Editor and Histogram* control appears in a separate window.

8. Manually creating a color map is a fairly advanced procedure beyond the scope of this document. For now, you can switch between several standard color maps using the **Restore** button. Choose one from the list.

9. Click on **Accept** on the Color Map Editor window.

10. Press the **F2** key to refresh the track with the new color scheme. You can improve the resolution of the image by increasing the number of colours in the display, using the combo box provided.

11. Select an overlay curve from the curve list and Click **Accept**.

12. If necessary set the **curve minimum** and **curve maximum** scale values for your curve. Select the scale type to either **Linear** or **Logarithmic** as appropriate.

13. The ClipData combo box essentially shades to the overlay curve using color coded fill. Set the clip combo box either to **None**, **On Right** or **On Left**.

14. Click **Close** on the **Color Coded Curve Display Options** window to return to the *Track Setup* control panel.

Part 4: Saving the Complete Setup for All Three Tracks

Now that you have a suite of curve tracks, you may want to save your work for later reuse. Remember, this saves the complete suite of tracks, as opposed to merely saving the setup for a given track described above.

1. From the *Track Setup* panel, **Accept** the complete track suite as a finished setup.

2. Now Click the **File** button on the Title menu located in the upper left corner of the window.

3. Select **Save Setup**. Type the name of the setup, e.g. GR, Depth, Color Coded. Click on **Save** on the **Save File As** window.

4. You can **Restore Image** the next time you are in IMAGELog to reuse the configuration. This display can also be the configuration for curve displays in **Correlation** and **Mapping**.

Part 5: Creating a TerraStation Plot File From the Image

1. To create a plot file press the **File** button on the Title menu located in the upper left corner of the window.

2. Select **Plot/Print or press [F3] on your keyboard**.

3. On the IMAGELog Plotting window enter the filename of the plot without extension into the dialog box between the Destination and Define Header/Footer buttons. To accept all default parameters of the plot, simply Click **Accept** on the window. Otherwise change the settings as desired.

4. TerraStation uses a plot metafile as an intermediate step before creating a hardcopy plot. This allows the user to create montages and edit the drawing prior to creation of the final drawing. To edit the plot, proceed to **Plot Editor** via the main TerraStation menu bar. To dispatch the plot to your printer or plotter, Click Dispatch Plot button in Plot Editor.

Thanks for using TerraStation