

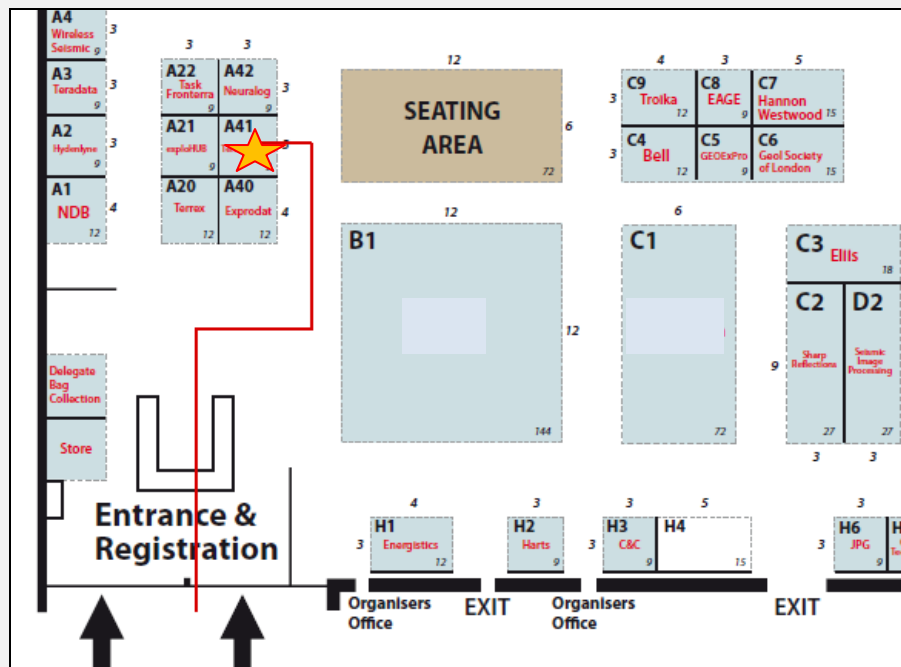
# TerraNotes

The official newsletter of TERRSCIENCES

Current TerraStation II version: v7.345

## PETEX 2014 is coming up in November

The biannual PETEX convention is being held at the ExCel Centre in London, UK from the 18<sup>th</sup> to the 20<sup>th</sup> November, 2014. This is a new venue for PETEX as in the past several years it has been held at the Earls Court 2 exhibition hall in west London. The new location is out east, well past Canary Wharf, just next to London City airport. TERRSCIENCES can be found on booth #**A41**. We are right near the main entrance and registration area so should be easy for you to locate. See the map below...



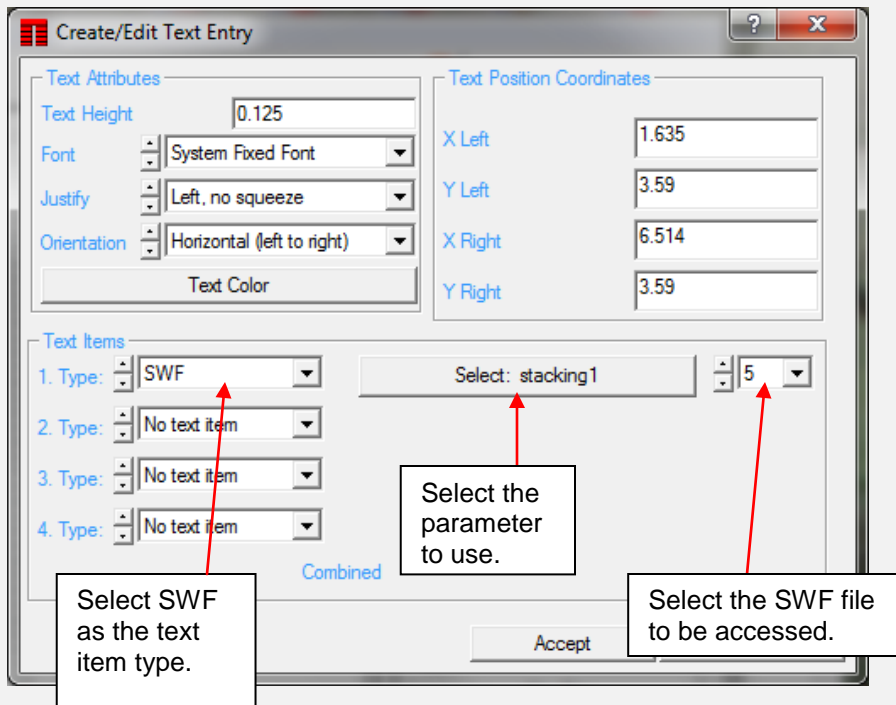
Please stop by and visit with the staff on the booth. Discuss your software needs, ideas, and anything else you feel like discussing. We look forward to seeing many of you at the show.

## Header Items from Sonic Waveform Files

We recently added the ability for IMAGELog header files to access certain information within the sonic waveform (SWF) file headers.

In version 7.344, support was added to the **Header and Title Box Editor** for this. This is located under the **Tools** menu of the main TerraStation menu window.

The new 'SWF' series of commands and parameters are classified as Text Items. In order to use them you must specify which waveform file is being accessed (1 to 20) and then the parameter that identifies which data item will be displayed. For example:



The full list of parameters and what they retrieve can be found in the online help in the **IMAGELog – Header/Footer Command Language** section.

Below is a brief example, along with the section of header command code generated:

|                    |               |
|--------------------|---------------|
| <b>Receivers:</b>  | <b>8</b>      |
| <b>Array Size:</b> | <b>400</b>    |
| <b>Time Step:</b>  | <b>36.000</b> |
| <b>T-R1:</b>       | <b>9.500</b>  |

```

TEXT          Receivers:
PUT TEXT      0.25,1.8,1.9,1.3
SWF5          numrecvr
PUT TEXT      2.0,1.8,4.0,1.3
TEXT          Array Size:
PUT TEXT      0.25,2.2,1.9,1.7
SWF5          arraylen
PUT TEXT      2.0,2.2,4.0,1.7
TEXT          Time Step:
PUT TEXT      0.25,2.6,1.9,2.1
SWF5          timestep
PUT TEXT      2.0,2.6,4.0,2.1
TEXT          T-R1:
PUT TEXT      0.25,3.0,1.9,2.5
SWF5          T-R1
PUT TEXT      2.0,3.0,4.0,2.5
    
```

## LAS Loading – Avoiding Garbage in Curve Descriptions

If you are sick of the ridiculous text entries that some companies are putting into their LAS curve header description fields being loaded in to TerraStation then relief is at hand.

We have recently added a new checkbox on the **More Options** tab of the LAS loader.

Simply check the box labeled **Ignore Curve Descriptions (Long Names)** and this information will no longer be loaded.

## Upcoming Trade Shows

### 2014

- **PETEX** We just have the one remaining show in 2014. That is the PETEX exhibition in London. It runs from the 18<sup>th</sup> to 20<sup>th</sup> November at the ExCel Centre. We will be in booth A41.

### 2015

- **AAPG** (31<sup>st</sup> May – 3<sup>rd</sup> June) Annual AAPG convention is in Denver, Colorado. We shall be inhabiting booth 1927
- **SPWLA** – (18<sup>th</sup>-22<sup>nd</sup> July) This will be held in Long Beach, California. We shall be residing in booth 620 for this show.

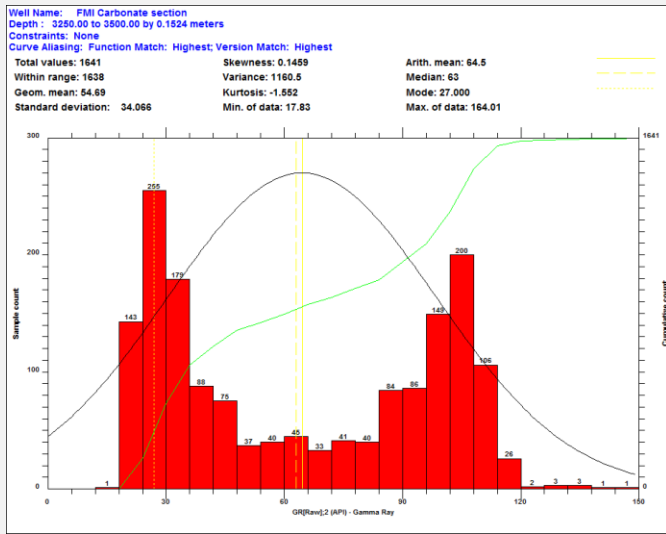
If you get the chance to visit any of these shows, please feel free to drop by our booths for a chat.

## Facies constrained Histograms

It is now possible to constrain the histograms generated by the **Petrophysics – Histogram** capability using an individual lithology or facies. This assumes you have picked facies and/or lithology via IMAGELog and the data is stored in one of the Facies or Lithology auxiliary data files.

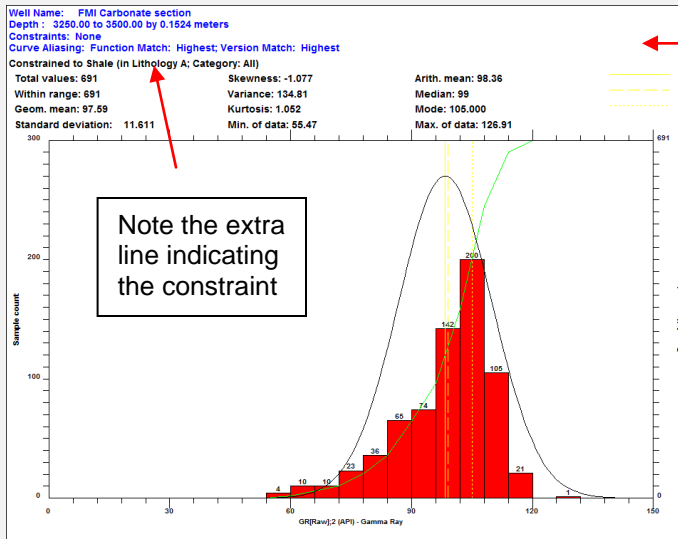
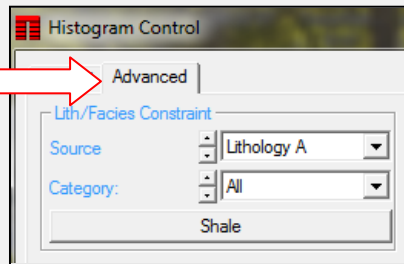
For example, below and to the right is a composite display showing a well with a lithology column and a gamma ray track.

Below is a histogram of the GR curve over the same well interval.



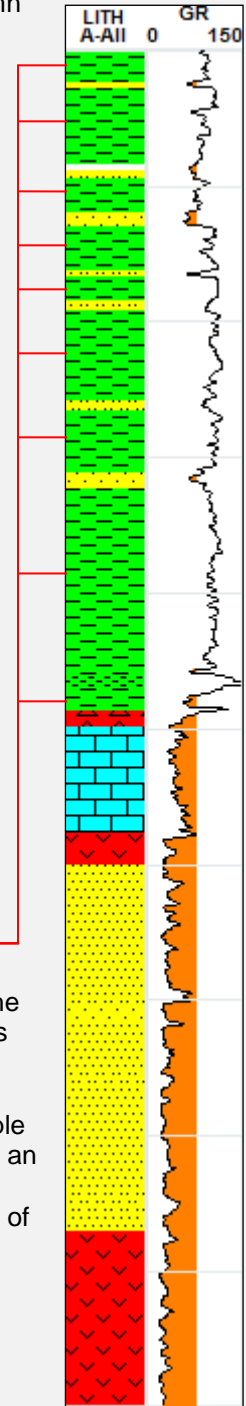
Now click on the **Advanced** tab on the Histogram control panel.

By setting the target **Source** file and lithology type, you can generate the histogram and statistics for just that lithology.



The resulting histogram shown to the left is for all the Shale lithology beds within the interval.

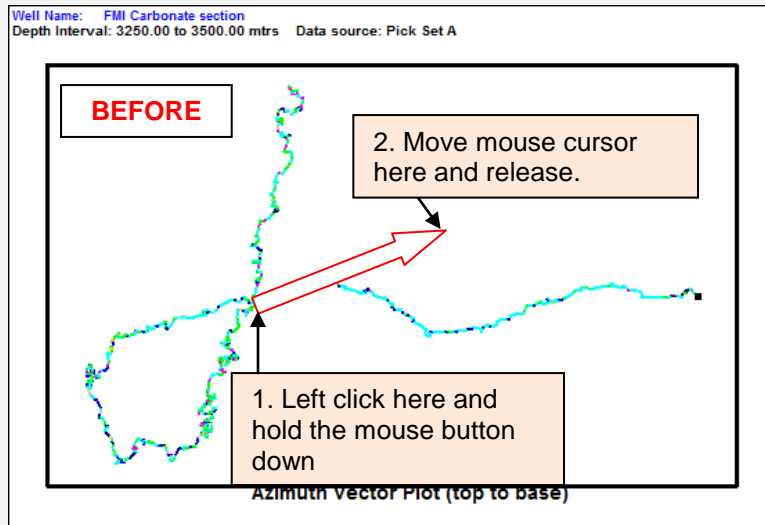
This works in both single and multiple well modes, so now it is easy to get an average curve response for any lithology/facies type over any group of wells.



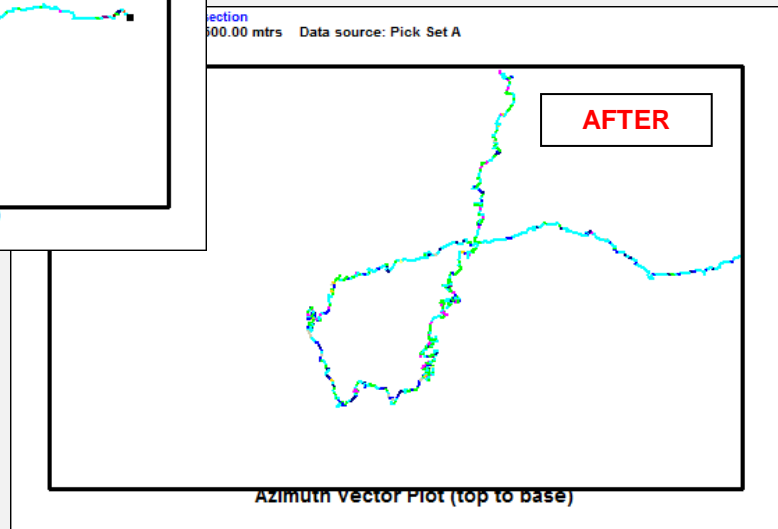
## Zoom and Pan on Azimuth Vector and Dip Walkout Plots

Versions 7.345 saw the addition of a zoom and pan capability for the azimuth vector and dip walkout plots. This is done in a different way to how we do it on crossplots and maps. Instead of a slider on either side of the display window, we utilize the mouse. We use the mouse wheel to zoom in and out and a "left-click drag and drop" sequence to move the display around.

If your mouse does not have a wheel, then the up and down arrow keys serve to zoom in and out respectively.



Below is a result of a grab and move to shift the display to the right.



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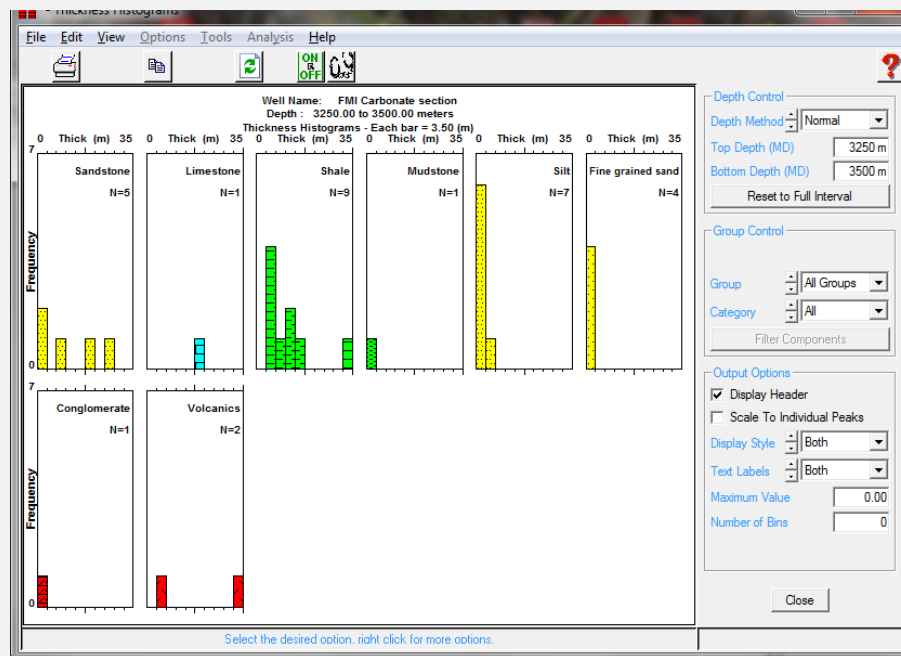
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## Thickness Histograms by Facies/Lithology

When displaying a Lithology or Facies track in IMAGELog, there is an additional capability to display a screen of histograms showing the thickness distribution of the various beds of lithology/facies that have been identified by the user.

You access this by first right-clicking on the desired track and choosing **Track Configuration**. Next click on the **Options** tab. Finally press the **Display Thickness Histograms** button. A separate control and display window then appears.

Below is an example.



The various controls on the right hand side of the window give you the ability to tailor the display somewhat.

This is just another way in which defining the lithology and/or facies can give you more capabilities when analyzing the well.

## And finally ...

If you ever wonder which of your borehole image data file slots contain actual data, then wonder no more. When selecting an Image Source to use, any that display with an asterisk at the front of the slot name have data present. In the example on the right, the Resistivity Image, Image File 20 and Image File 30 all have data present.

