TerraNotes

The official newsletter of TERRASCIENCES

Current TerraStation II version: v7.290

2013 Trade Shows

Our scheduled appearances at trade shows for 2013 are:

- **AAPG 2013** – (19-22 May) - Annual AAPG convention. We have booth 821. This will be in Pittsburgh, PA at the David L. Lawrence Convention Center.

- **SPWLA 2013** – New Orleans, Louisiana – June 23-26 at the Hyatt Regency Conference Center. We are in booth 409.

We look forward to seeing you at these shows.

F6 – Turns panel on/off

For those of you that would like to switch off the control panel on the right hand side of several of the modules (e.g. IMAGELog, Petrophysics, Correlation), this can be quickly done by pressing the **F6** key. It has always been possible via the **View – Panel** menu item, but this makes it more ergonomic to do so.

It can be handy on smaller screen displays if you are familiar enough to navigate without it.

Press **F6** again to turn it back on again of course.

AAPG 2013 – Pittsburgh (May 19th-22nd)

With a new location this year for the AAPG convention, Pittsburgh should provide an opportunity to expose TERRASCIENCES software to a relatively new potential audience. Although our software is in use with at least one company in the area, and with consultants doing work for others, this will be the first time the national convention has been held in the area where the Marcellus, Utica, and other unconventional shale plays are located.

We can be found on booth **821**. See the map below for a guide on how to reach us.
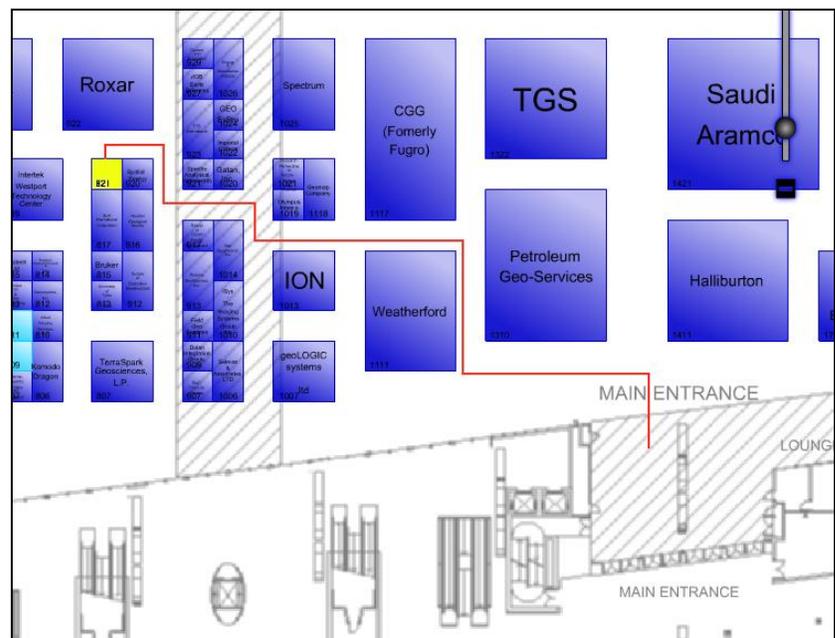
Both Andy Jagger and Fred Lambie will be manning the booth so please feel free to drop by and say hello.

The Edit – Preferences options

Many people do not realize that you can customize your TerraStation in various ways using the **Preferences** options under the **Edit** menu of the main TS window. For example, IMAGELog …
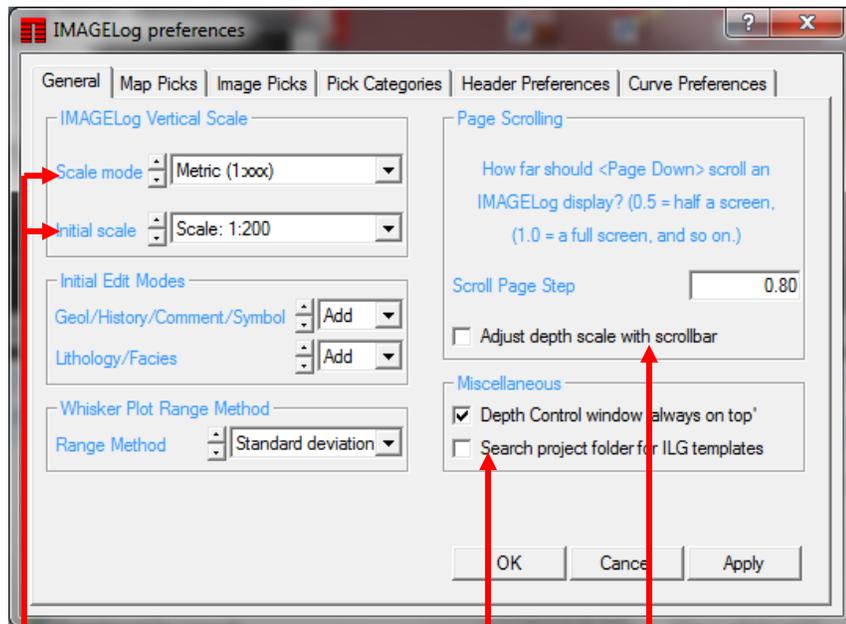
How you specify the way the vertical scale can be controlled. You can do it the "American way" – using inches per 100 feet, or the "Metric way" where you specify a ratio (e.g. 1:200).

You can also define a default starting scale.

This option, when checked, allows the vertical scale to vary as you grab and move the vertical scroll bar found along the right hand side of the IMAGELog display. This is very useful when combined with the automatic grid line and depth label settings found in IMAGELog.

You can make the search for IMAGELog templates start in the individual project directory, rather than your 'userdata' directory.

Once you have set your desired preferences press the **Apply** or **OK** button. When you next start the software, your preferences will be applied.

There are many other settings that can be customized to make your use of the software more efficient. Check them out.

Keeping Up to Date

Just a reminder that users who have a current maintenance or rental agreement can obtain the latest version of the software from our web site –

www.terrasciences.com.

You must log in using the username and password you created when you registered.
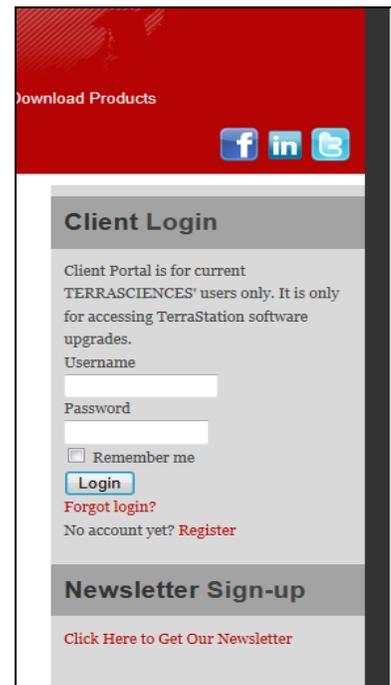
Once logged in press the **Client Center** menu and choose **TerraStation Upgrade**. TERRASCIENCES uses an incremental upgrade policy so that the latest update always contains all previous updates. We issue updates quite frequently in order to rapidly provide users with requested enhancements.

We have an email notification list to inform people when an update is issued. If you are not getting these and want to be placed on the list then drop us an email at **support@terrasciences.com** and we will add you.

Fast FE automatically updates when parameters are changed.

The quick look deterministic formation evaluation option in TerraStation – called Fast FE – now allows interactive modification of several of the parameters used in the computations, as well as the netpay report cutoffs. To see these parameter and cutoff values on the display, simply make sure the check box labeled **Display Parameters and Cutoffs** located on the **General** tab is checked. (See below right for this).

The parameters can be zoned using the geologic parameter file, or can be fixed values. The cutoffs are just fixed values.

Once checked you will see vertical colored lines on the display showing the current values of the parameters and cutoffs….
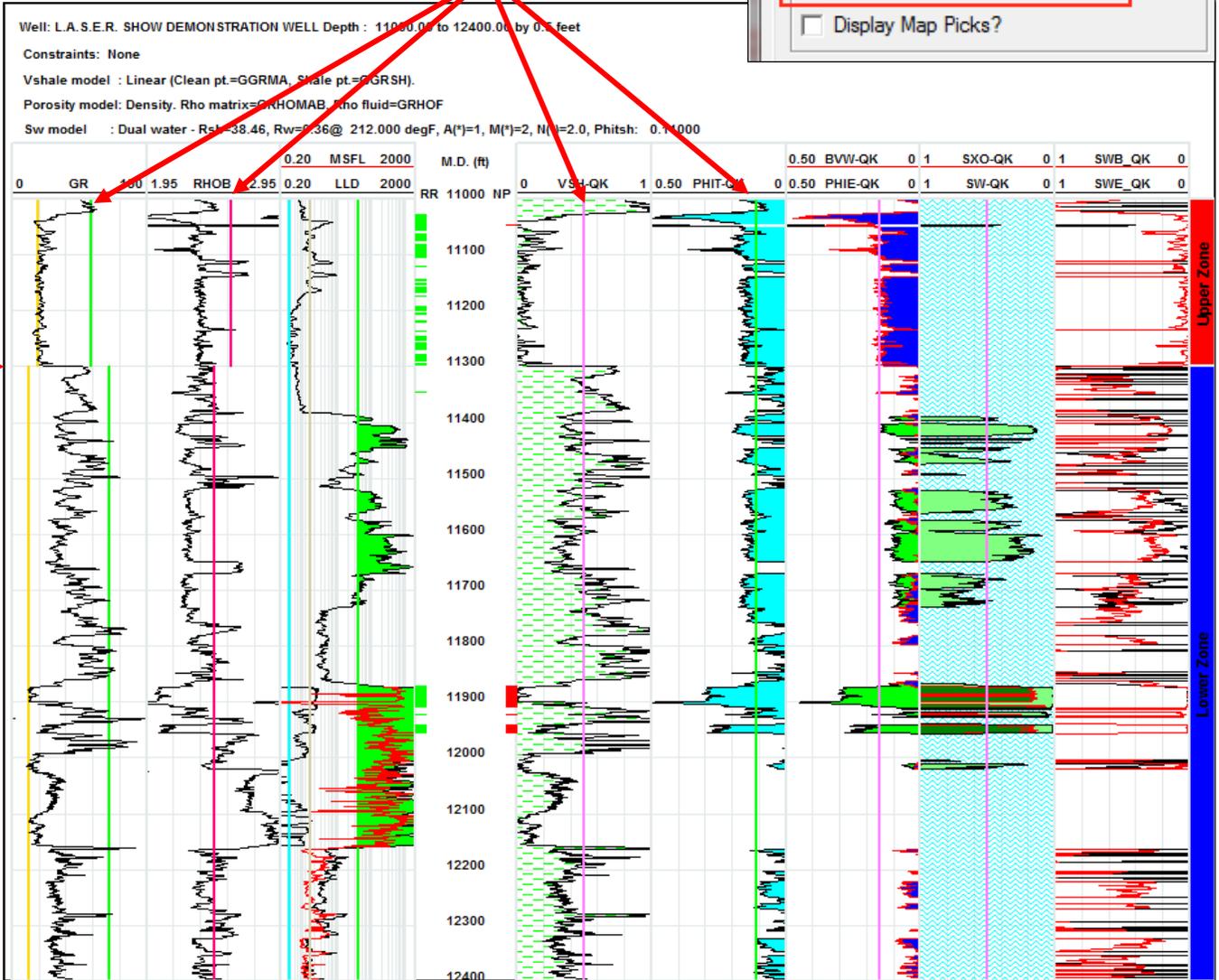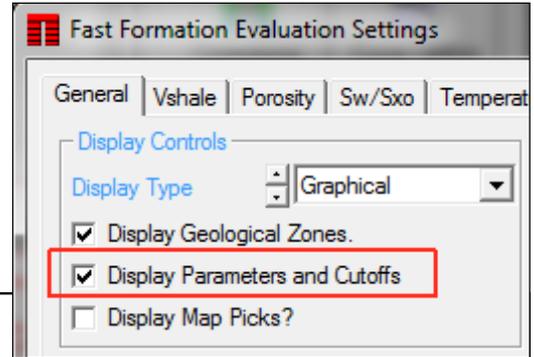
Notice the break in several of the parameter lines at 11300 on the above plot. This is where the parameter GLP zone boundary is for this two zone example. To adjust any of the lines simply right-click at the location you want for that parameter and select the appropriate option from the menu that appears. The output will be automatically updated and the display renewed using the changed value.

Brittleness Index Calculation added to Pressure Modeling

As we continue the development of the pressure modeling capabilities of the TerraStation within the Pressure Model track of IMAGELog, we have recently added the computation of a Brittleness Index. This uses the methodology outlined in the following papers: (Rickman, et al. SPE 115258 and Mullen, et al SPE 108139) which uses a static Young's modulus and Poisson Ratio to come up with a measure of the brittleness of the rock.
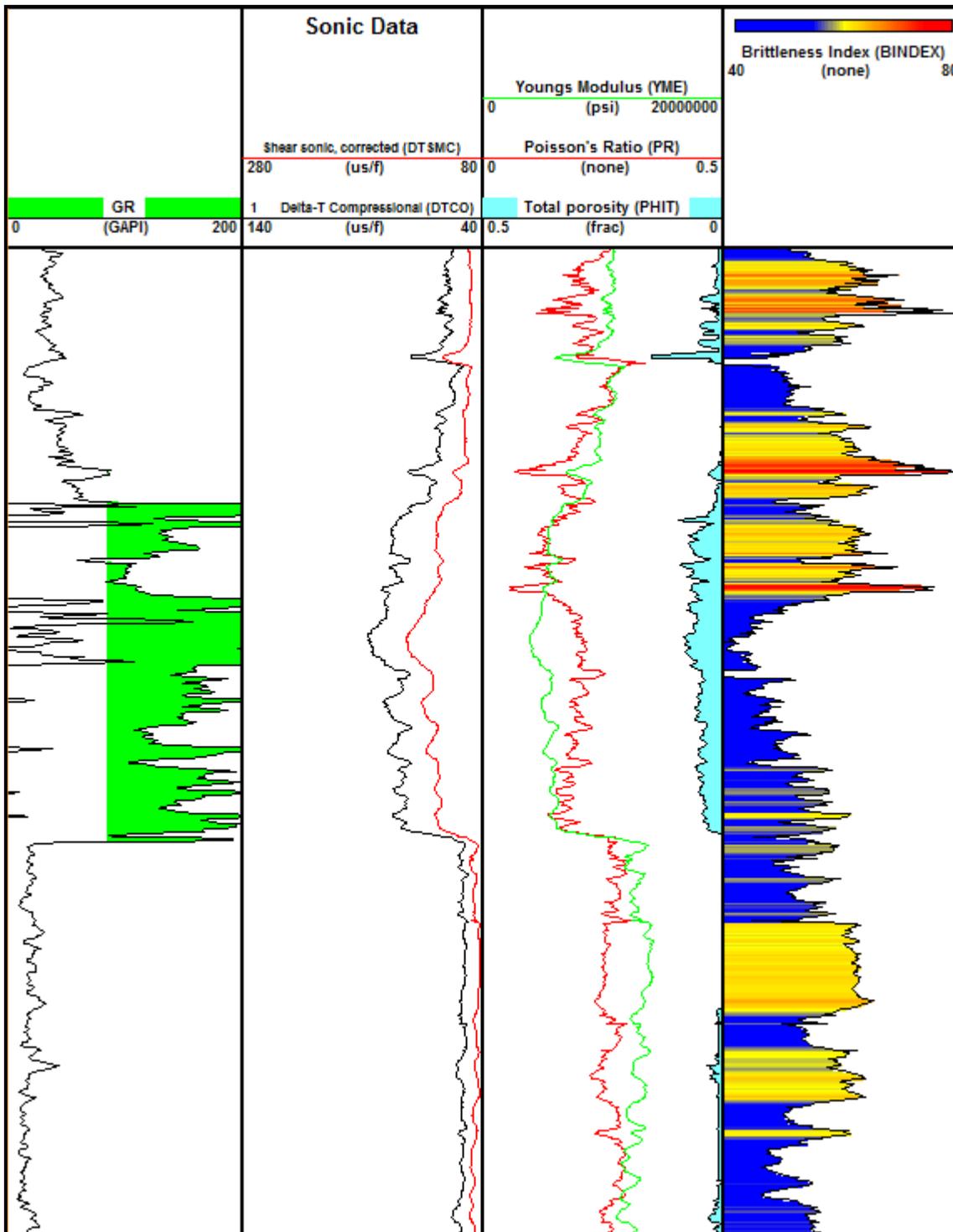
Brittleness is of course useful when planning frac stages and other down hole operations that require knowledge of how the rock may react to perforation, fracturing and other techniques.

Delta-LogR TOC Capability

Recently the Petroleum Geochemistry module was upgraded with an interactive method of computing total organic carbon (TOC) using the Delta-LogR (Passey) technique. The user can adjust the thickness and location of the 'lean' shale zone (the brown rectangle) by grabbing and moving using the mouse and the computed TOC is instantly updated. The option to display core TOC values (red circles) and to specify the level of metamorphism (LOM) is also provided.
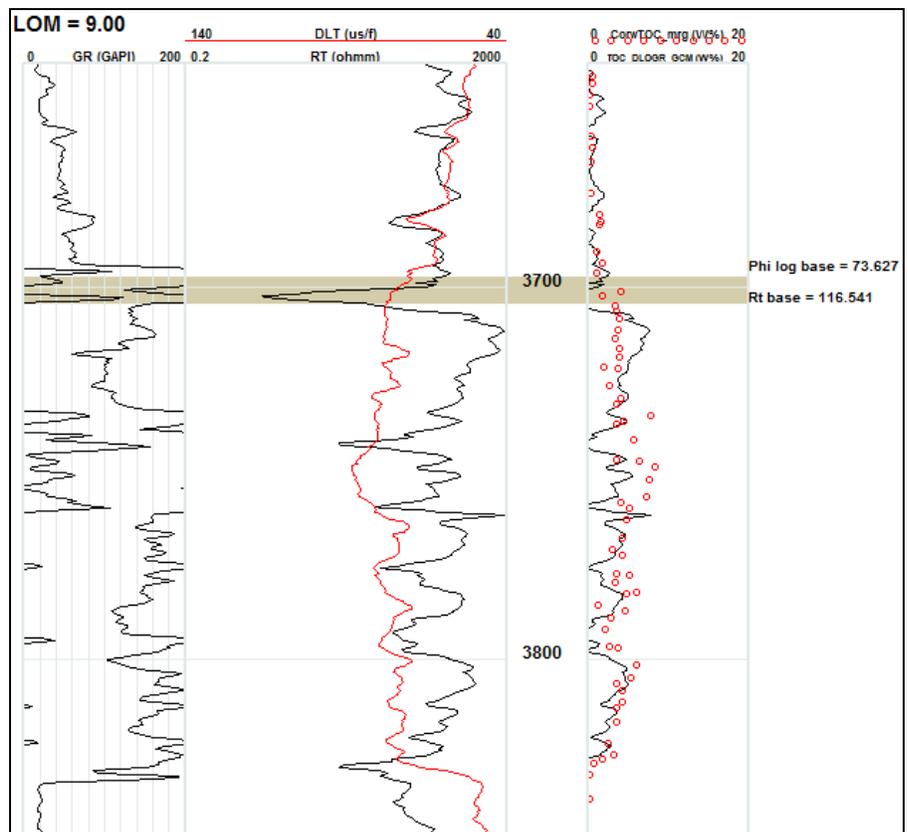
The Petroleum Geochemistry module has always output TOC prior to this addition, but it uses the proprietary algorithm within the module for that and the other outputs - S2, S1, GP, Ro and other RockEval™ type outputs. It is an ideal tool for scouting potential source rock and unconventional resources from basic wireline information.

The Petroleum Geochemistry module can be added on to any existing TerraStation system for a licensing fee (either purchase or rental). Contact your TERRASCIENCES representative for further information.