

TerraNotes

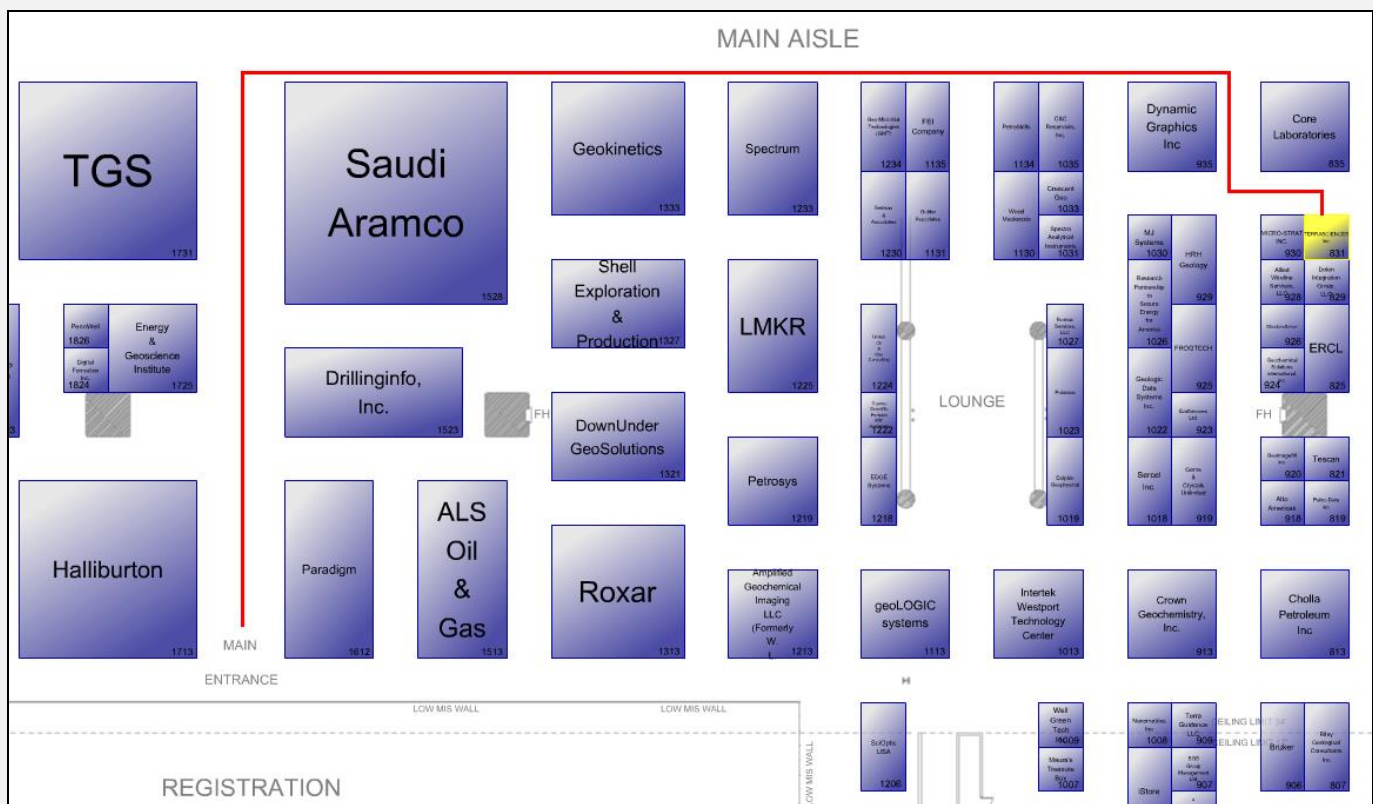
The official newsletter of TERRASCIENCES

Current TerraStation II version: v7.329

AAPG 2014 is coming up in April

The annual AAPG convention is being held at the George R Brown Convention Center in downtown Houston, TX from the 6th to the 9th April, 2014. TERRASCIENCES can be found on booth #**831**.

See the map below...

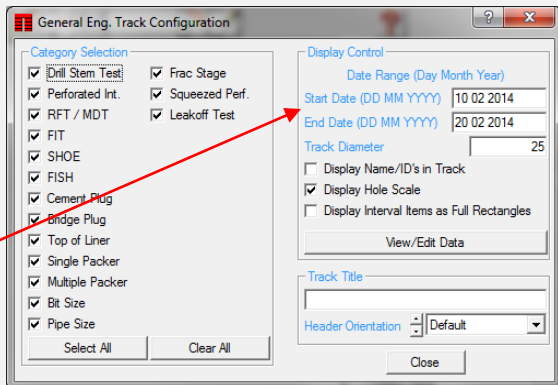


Please stop by and visit with the staff on the booth. Discuss your software needs, ideas, and anything else you feel like discussing. We look forward to seeing many of you at the show.

Use of the 'Dates' Fields for Engineering Items

We have recently added an **END DATE** field that can be provided for any of the engineering items. This complements the **START DATE** field that was already present. In this way you can now display historical changes in the engineering items within the IMAGELog tracks that use these data types – **General Engineering** and **Core Data** tracks.

For example here is a series of General Engineering Tracks each track shows the progressive increase in displayed items as the well was completed. This is done by controlling the Start and End Date settings for each track.



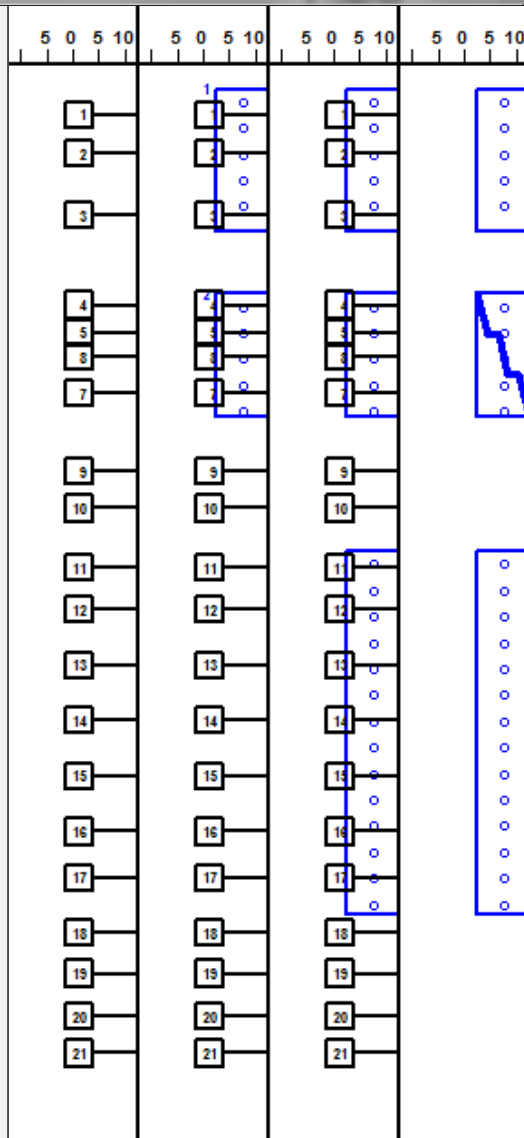
Track 1 contains several RFT points.

Track 2 then shows that two PERF zones were added.

Track 3 shows an additional PERF zone been added

Track 4 finally shows just the PERFs, with one of them now being squeezed.

In this way you can see the evolution of the well completion over time.



A TCL Interlude

We have recently added a new command to the TCL programming language. The command is:

ASSIGN CONSTANT

The purpose of the command is to allow a user to assign one of the 'variable' type parameters to a constant location. The reason you may want to do this is because several of the subroutines available within TCL look in specific constants for data. For example, **SWARCHIE** looks in constant 11 for the **Rw** value that it uses.

If the value of **Rw** is truly the same then this is not a big deal. But if you want to use a curve that has **Rw** varying by depth then up until now, this involved a bit of trickery involving calling the **SWARCHIE** routine within a **BEGIN** loop and setting constant 11 each time round the loop:

```
BEGIN
  C11 = VRW
  CALL SWARCHIE ILD DPOR SW
ENDBEGIN
```

Now the same thing can be achieved as follows:

```
ASSIGN CONSTANT 11 VRW
CALL SWARCHIE ILD DPOR SW
```

The key thing here is that you remove the need for the **BEGIN – ENDBEGIN** loop. This is important because using the subroutines outside of such loops is much more efficient as far as TCL processing is concerned.

Note that the command:

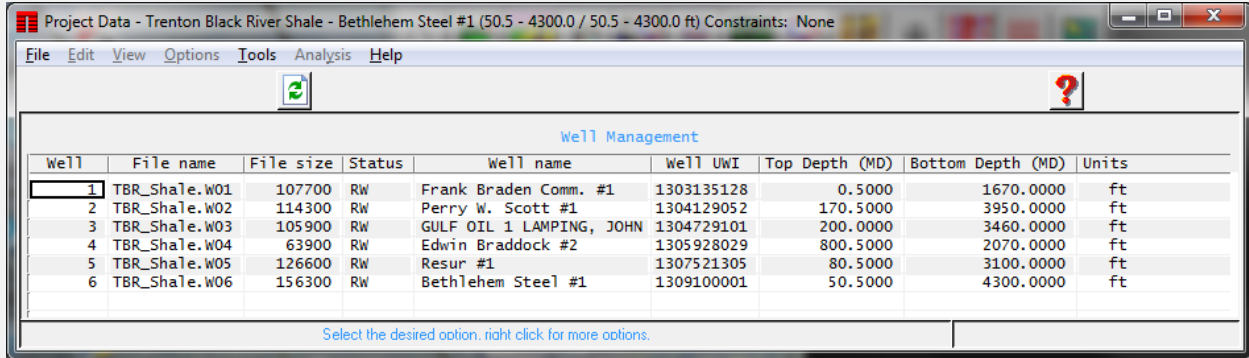
```
ASSIGN CONSTANT 11 VRW
```

is NOT equivalent to the equation:

```
C11 = VRW
```

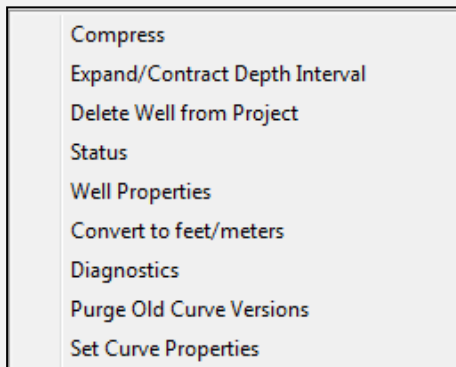
Well Data Management

We wanted to remind people that there are a number of capabilities for cleaning up and managing the well data in your projects to be found under the **Project Database – Well Data Management** option. When you select this option initially you are presented with a current list of the wells in the project. For example...

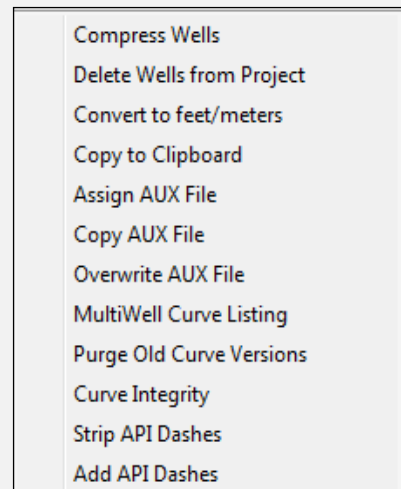


Now depending on whether you right-click on a single well, or highlight then right-click on a group of wells, the menu choices presented will vary. Some options appear on both menus.

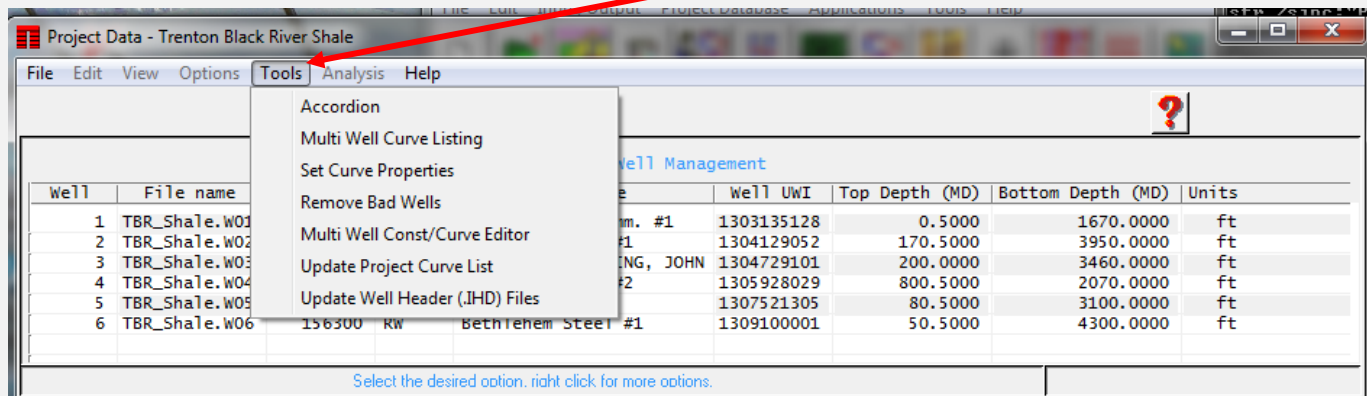
SINGLE WELL OPTIONS



MULTI WELL OPTIONS



There are also a number of options to be found on under the **Tools** menu of the **Well Data Management** window.



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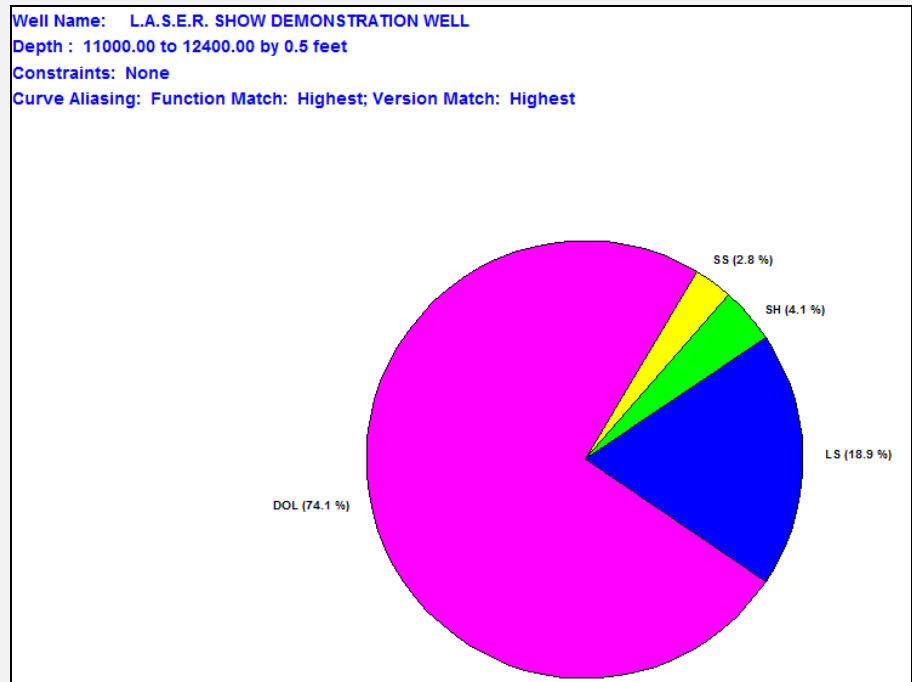
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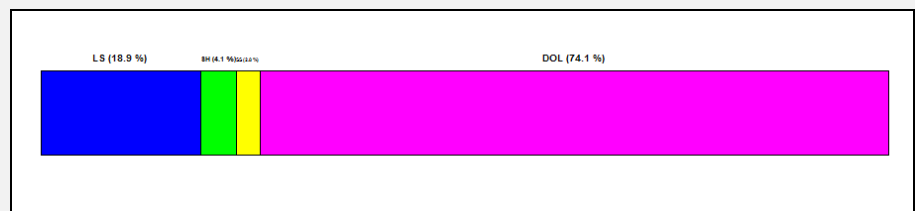
Pie Chart addition to Petrophysics/IMAGELog

We recently added the ability to represent proportional information in curve data as pie charts or a horizontal bar chart. This is accessed from the **Petrophysical Analysis** module. There is a **Pie/Bar Graph** button found on the right hand panel.

Up to 20 curves can be selected and the proportion of each curve is computed over the depth interval and displayed as either a pie chart or a horizontal bar. The selected curves should all have the same units. Examples are computed lithology curves, or perhaps different types of porosity – primary, secondary, etc. The examples below show the proportions of four different lithological components.



Or as a horizontal bar chart:



The saved configurations can then be utilized in the **Interval Graphs** track in **IMAGELog**.