



Release Notes

CycloLog® 2016

СycloLog® 2016

In this document, the new features as well as improvements, changes and known issues and problems in CycloLog® 2016 are summarised.

For detailed information about CycloLog® 2016 features, please refer to the Help manual in the CycloLog® software application or the Tutorials on our website:

<http://enresinternational.com/support/tutorials/>

Release Features

In CycloLog® 2016, three new major features have been implemented, strongly improving the user's workflow and time efficiency. These three features are summarised below.

Creating single or batch composite well charts from a template chart

The two new features of this functionality in CycloLog® 2016 include a template functionality for generating composite well charts. This functionality enables the user to quickly and efficiently generate one or more composite well charts, tremendously improving the user's workflow and time efficiency. The template functionality in CycloLog® 2016 uses an existing composite chart as a template; the logs in a template chart are matched to logs in the target well(s) and as soon as a match is found all layout properties of the template chart are cloned (i.e., replicated) to the other target wells, creating new composite well charts for these wells.

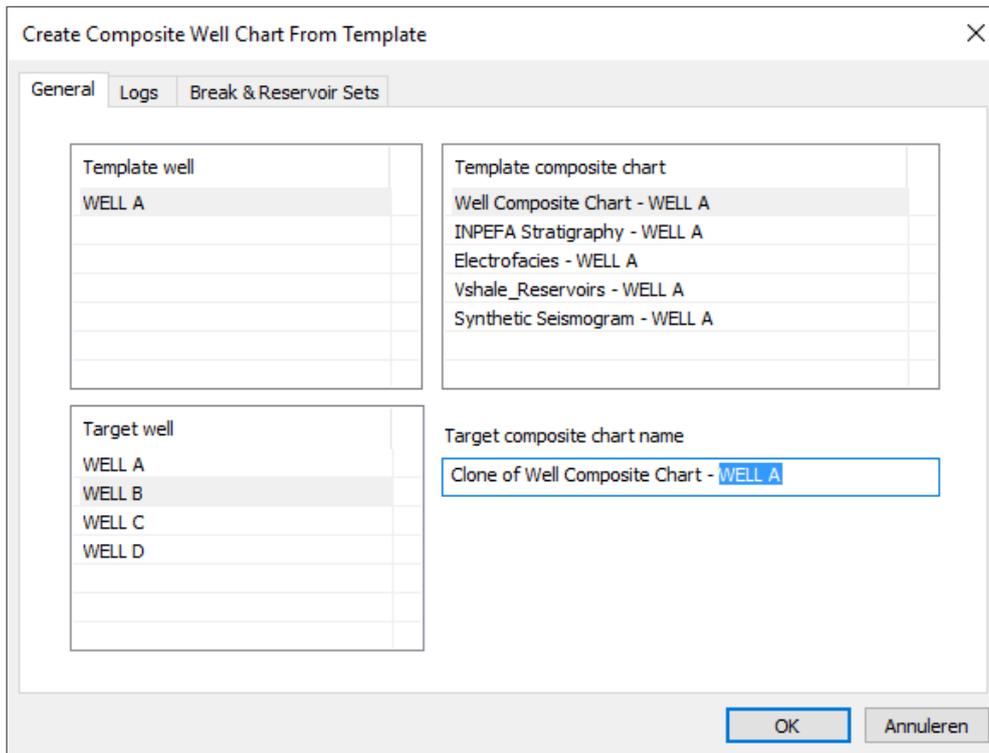
Generating composite well charts from a template can be done two ways in CycloLog® 2016:

- Single composite well chart from Template
- Batch composite well charts from Template

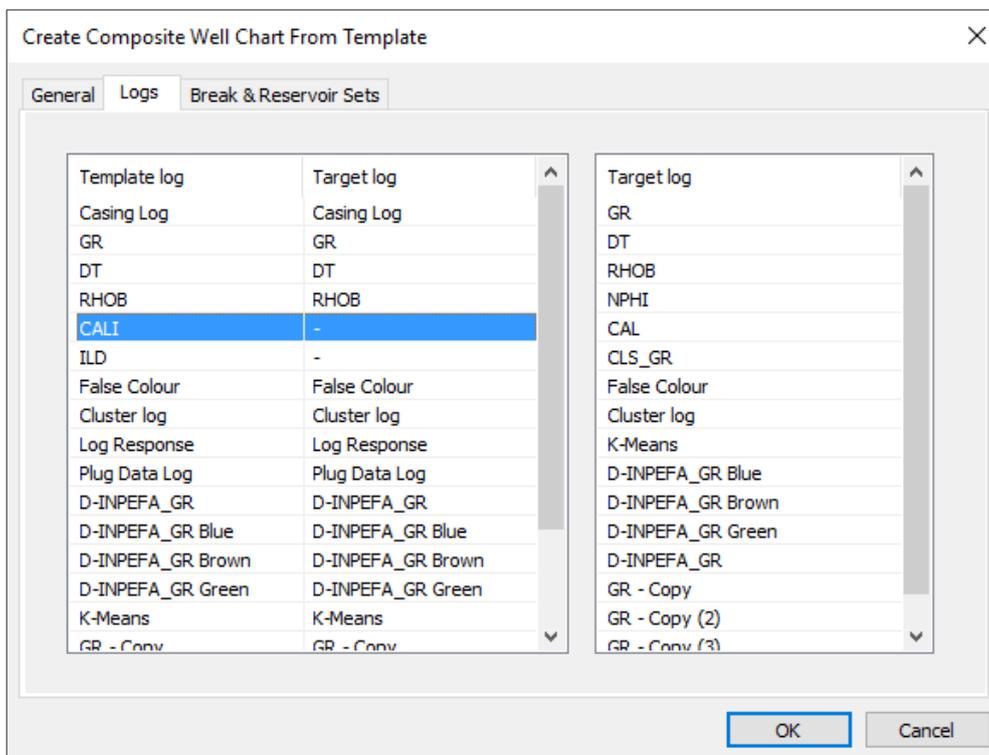
Single composite well chart from Template

This functionality is especially useful when the user only has a few wells with many different logs, or when the user prefers to use different template layouts for different wells.

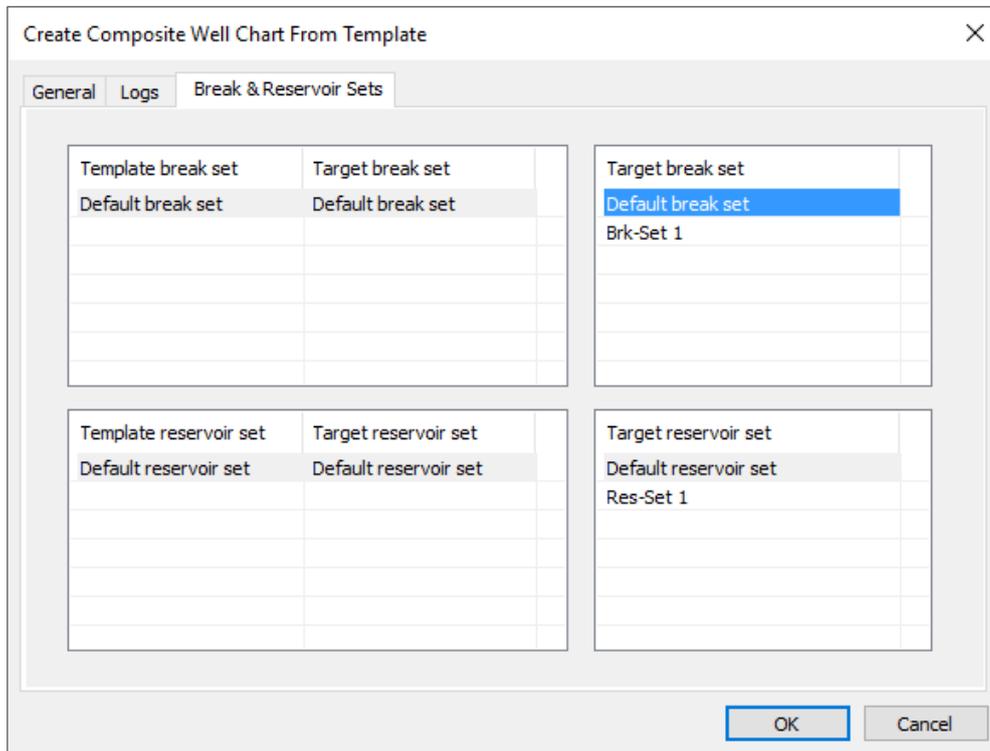
The user selects one template composite chart which he wishes to use and clone to a target well. One target well can be selected at a time. Different tabs allow the user to check the assigned target logs and breaks/reservoir sets and where necessary to replace non-assigned logs and breaks/reservoir sets.



Creating a composite well chart from a template chart. Note that the name of the new target composite chart can be changed.



The Logs tab. 'Missing', i.e. non-matched, logs in the target well can be replaced with another suitable log from the Target log list on the right.



Break and reservoir sets can be checked and when wished, re-assigned to another target breaks/reservoir set.

Batch composite well chart from Template

The batch generation of composite well charts is very useful for users who wish to generate composite well charts for as many as possible wells. In CycloLog® 2016, making multiple charts from a template is based on cloning this template whereby the logs in the template composite well chart are matched to the logs available in the target well. All layout properties of the template well chart are also applied to the target template.

The batch templating process consists of two essential steps:

- Step 1: Log Family Manager: here log families, logs and/or affixes are defined for matching
- Step 2: Batch Composite Well Chart Template functionality

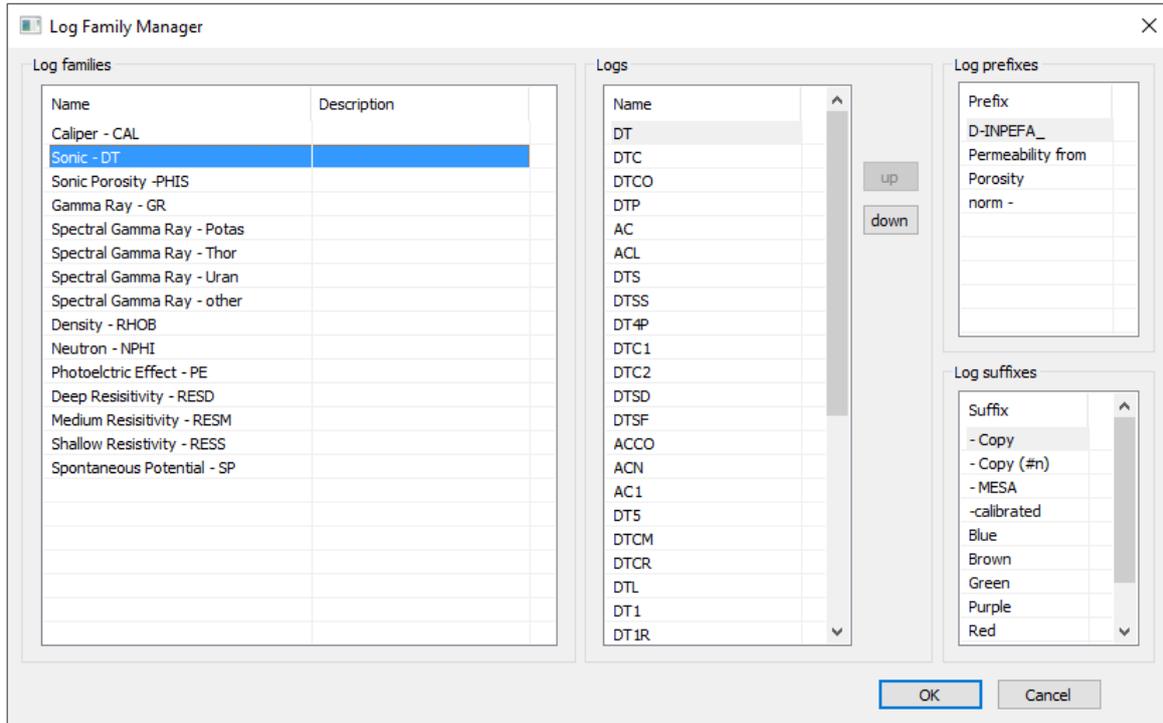
Below a short overview is given of the two functionalities. More details can be found in What's New? CycloLog® 2106.

Step 1: Log Family Manager

The Log Family Manager shows a default list of *Log families*. Each log family consist of a default list of geophysical well *Logs* defined by ENRES. On the rightmost side of the Log Family Manager, a list of default *Log prefixes* and a list of default *suffixes* are displayed.

The user can edit, add or delete:

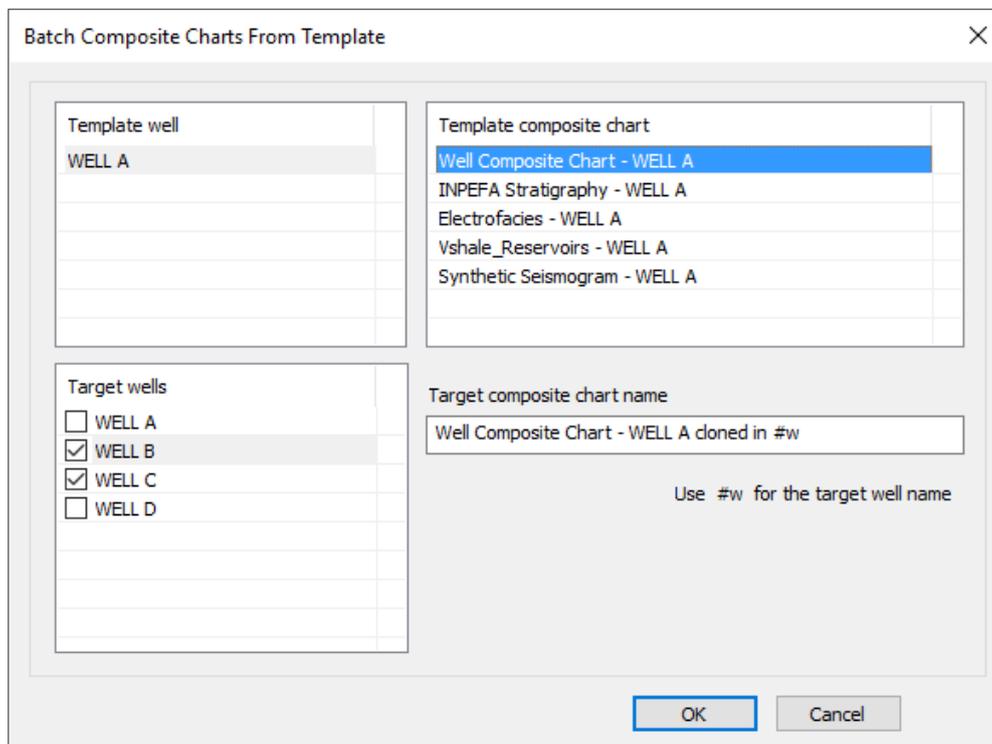
- Log families and their description
- Logs
- Log prefixes
- Log suffixes



The Log Family Manager in CycloLog® 2016.

Step 2: Batch Composite Well Chart From Template functionality

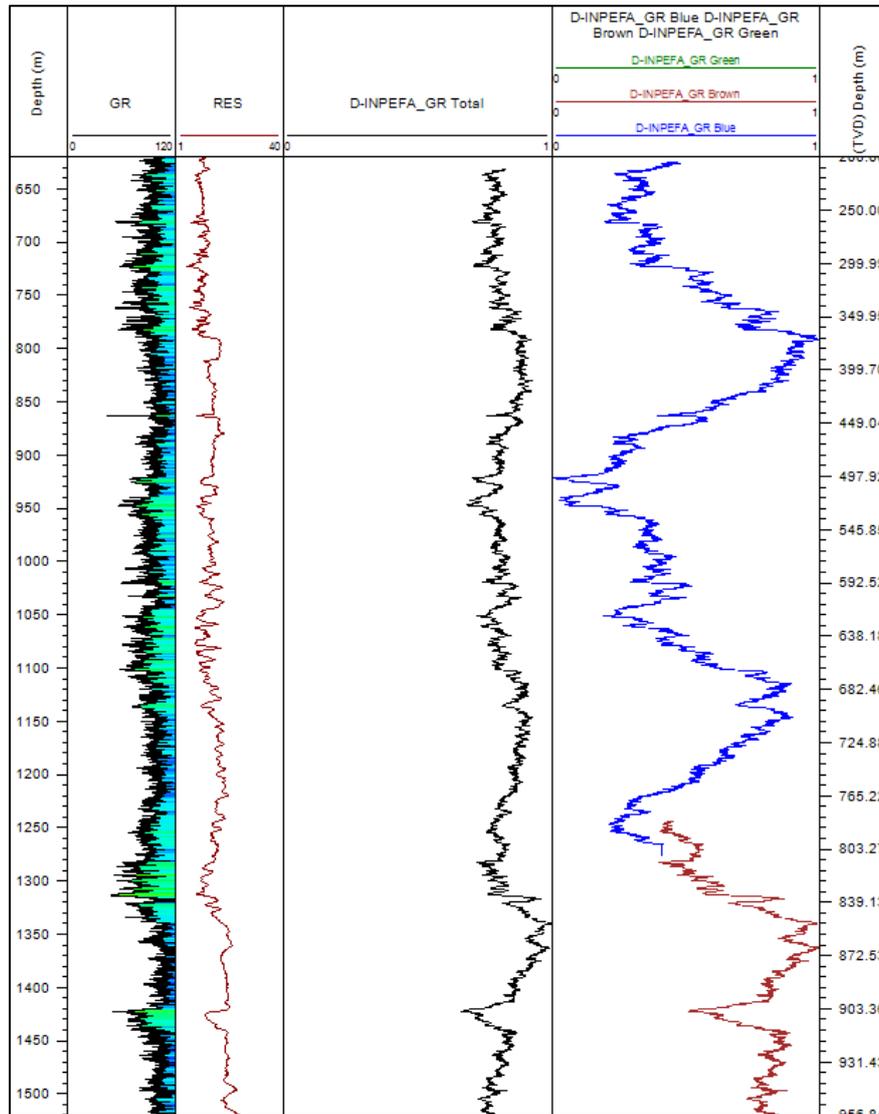
Once all settings in the Log Family Manager have been checked (and where necessary adjusted), a batch of composite well charts from an existing (i.e., template) well chart can be simply generated using this functionality.



The Batch Composite Charts From Template window in CycloLog® 2016.

Display of TVD and MD depth bar columns in a single composite well chart

In CycloLog® 2016, TVD and MD depth bar columns can be displayed simultaneously in a composite well chart. This functionality was lacking in earlier versions of CycloLog® and has been implemented after requests from our users. In the case a CycloLog project has TVD converted data, the user can now add two depth bar columns to the composite well chart: in the TVD as well as in the MD domain.



The Depth bar column in the MD domain with on the right side of the composite well chart the corresponding TVD Depth bar column.

Enhancements

The following (selection of) enhancements to existing features and functionalities in CycloLog® 2016 have been made.

Toggle between independent and dependent vertical scaling of data panes and composite charts

The vertical scaling of log data panes and composite well charts of different wells can now be scaled independently from each other. A button has been added to the standard toolbar allowing the user to turn the vertical scaling dependency of the wells' data panes and charts ON or OFF. When turned ON, the vertical scaling applied to a log data pane or composite chart of one well will automatically be applied to all panes and charts of other wells too.

Compatible with Windows 10

In contrast to CycloLog® 2015, the new released CycloLog® 2016 is compatible with windows 10 (as well as the older windows versions 7 and 8).

Improvements to the graphic interface

Several issues related to the graphic display of log data panes and composite well charts have been fixed.

The colour and style of a manually drawn correlation line in a correlation panel matches that of the first break connection

In the correlation panel, a correlation line can be drawn manually to connect two breaks in adjacent composite well charts. The style and colour of this line is automatically matched to the first connected break.

Drawing extent of breaks and reservoirs across different columns improved and made consistent

The drawing extent of breaks and reservoirs through columns and logs (including depth bar column) can be controlled by selecting options in the 'Drawing Width' in the Breaks and Reservoir Column functionality. Earlier versions of CycloLog showed a lack of consistency in the drawing extent of breaks and reservoirs especially for the 'special logs' (see for log type definitions CycloLog Help Manual). The inconsistencies have been resolved in CycloLog® 2016.

Fixes

In addition to the fixes summarised here, many other fixes have been carried on CycloLog® 2016.

Entering zero (0) in Batch INPEFA (sub) intervals field disabled

In CycloLog® 2016, entering a zero (0) value in the (sub) intervals field has been disabled. The minimum value that can be entered in this field is by default 1.

Crash in 2-D Cross plot functionality fixed

In the 'Classify' tab of the 2-D Cross plot functionality, a log colouring can be selected to classify the 2-D cross plot with another log rather than the two selected logs for the 2-D cross plot. Previously, selection of such a log resulted in a crash. This crash has now been fixed.

Data log of 2-D Cross plot results now properly saved in workspace

In the previous CycloLog® 2015 version, the Manual Clustering log of the 2-D Cross plot Analysis results was lacking data when saved to the workspace. This has been fixed in CycloLog® 2016.

Properties of Bar Log in Set Manager can be changed without crashing

In the Set Manager, attempting to change the properties of a Bar Log resulted in a crash. This bug has been fixed in CycloLog® 2016.

Colour fill of logs preserved in CycloLog® 2016

The colour fill of logs in data panes and log columns of the composite well charts, which have been generated in earlier versions of CycloLog, are preserved when an older CycloLog file is opened in CycloLog® 2016.

A copied composite well chart in the workspace has a view

The view of a copied composite well chart was empty in CycloLog® 2105. This has been fixed in CycloLog® 2016.

Time-Depth log saved properly to CycloLog® 2016 workspace

When generating a Time-Depth curve using the MESA functionality, the resulting log is now properly saved to the workspace. This was not the case in CycloLog® 2015.

Math Studio functionality removed from RMB menu of special logs data panes

The Math Studio functionality is redundant in special logs because no calculations can be carried out on these logs. Therefore, this functionality has been removed from the right-mouse button context menu of special logs data panes.

Tool conflict in correlation panel resolved

A tool conflict existed in the Correlation Panel when using Shift + Left Mouse Button to select multiple composite well charts. The undesired side effect was the addition of a reservoir interval to the composite well chart. This has been resolved in CycloLog 2016®.

Known Issues and Problems

The following issues and problems related to the CycloLog® 2016 functionalities are known. ENRES aims to fix these in a near future release.

MESA and Log Response data panes cannot be scaled with mouse pointer

In CycloLog® 2016, the user can manually change the vertical scaling of log data panes and composite well charts by placing the mouse pointer on the depth bar, subsequently holding down the left mouse button (LMB), and then dragging the pointer up or down. This way the vertical scaling can be adjusted according to the user's preference. This functionality, however, is not supported for the Log Response and MESA data panes.

Workaround

To change the vertical scaling using the dragging functionality, the user is advised to open another log data pane next to the MESA or 'Log Response' panes. Make sure that Toggle Auto Vertical Scaling is activated and then drag with the LMB the depth bar of the opened log. This way the user can set his preferred scale.

Alternatively, click with the right mouse button (RMB) on the MESA or 'Log Response' data panes and select Vertical Scale to set the preferred vertical scaling.

Exporting log data as ASCII file yields impractical file structure

The data structure of a log data file in ASCII format that has been exported from CycloLog® 2016 is not ideal. In the ASCII file header, the log names are listed below each other, in separate rows. Re-importing such a file into a new CycloLog project (using the General ASCII import functionality) will require a manual input of the log names for each of the logs listed in the import wizard, which can be time consuming.

Workaround

Before importing an ASCII file into CycloLog, the user should check and, when necessary, adjust the structure of the log names header in the ASCII file. This can be done using a data processing software such as Excel (or Notepad). All log names should be in one row and separated by TABS (see example below).

Alternatively, the user can export the log data from CycloLog as a LAS or CLG (CycloLog) format file.

DEPTH	Log1	Log2	Log3	Log4		
3600.000000		8.291000	68.081497	0.000000	0.000000	
3600.200000		20.959227	67.850243	0.000000	0.000000	
3600.400000		54.639637	68.026237	0.000000	0.000000	
3600.600000		57.169765	68.301064	0.000000	0.000000	
3600.800000		57.303669	68.265106	0.000000	0.000000	
3601.000000		19.155800	67.964798	0.000000	0.000000	
3601.200000		16.259031	67.728462	0.000000	0.000000	
3601.400000		15.155625	67.577156	0.000000	0.000000	
3601.600000		14.593274	67.484848	0.000000	0.000000	
3601.800000		13.377397	67.458305	0.000000	0.000000	
3602.000000		11.191200	67.519203	0.000000	0.000000	
3602.200000		9.685138	67.632431	0.000000	0.000000	
3602.400000		9.021322	67.771362	0.000000	0.000000	

Example of an ideal ASCII file structure for import into CycloLog ®.

'Save As' functionality results in crash when overwriting an opened project file

In the previous version of CycloLog, the possibility to open the same CycloLog project twice at the same time and then subsequently save it has been prevented to avoid a crash.

In this new release, as well as in version 2015, the Save As functionality will cause a crash when the user attempts to save and overwrite his CycloLog project file to an existing CycloLog file, which is also opened.

Workaround

If the user wishes to save the CycloLog project and overwrite it to an existing project file, then the user should make sure that this existing file is not opened in CycloLog.

Line drawing of lower boundary of expanded interval log

Just before the release date, an error was discovered in the line drawing of the lower boundary of expanded intervals in the Interval log. Unfortunately, this error could not be fixed in time but ENRES aims to have it resolved in an upcoming bug fix release. There is no workaround.

Subsea correction functionality

The CycloLog import wizard for LAS files (and ASCII files) allows the user to apply a depth correction. However, the Depth Correction functionality, especially the Subsea correction is not working. ENRES will resolve this in a near future bug fix release.

Workaround

If the user wishes to correct for subsea then we advise to use the Shift Log functionality, which can be accessed by the right-mouse button menu on an opened log data pane. Unfortunately, all logs within the specific well will then have to be adjusted this way. In the Workspace tree, make sure to add SS behind the Well Name or Depth domain.

Contact

Please contact the ENRES Support team for any questions about the CycloLog® software or for suggestions that help us to improve our software. ENRES International strongly relies on its users to provide suggestions for improvements, not only to the software but also to all related documentation.

Contact our support team at: support@enresinternational.com, or call: +31 (0) 30 227 0137

Our normal office hours are CET, from 9 AM to 6 PM, Monday to Thursday.

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