D13 • Output panel

Accessed in the control panel with Output


Preview Log


Print Log


Preview Report


Print Report


Summary Table


Export


Click and Send



CGM/TIFF Log output

D13.1 • Print Log

The Print Log options generates by default a WYSIWYG print-out of the plots currently displayed on the screen, in the same position, and for the Display Range. Each channel is plotted with the aspects defined for paper output.
It is also possible to create and store API layouts in the Print Setup dialog as described in section D10.7.
The output can be on one page, or with a specific scale that may be “page by page” or continuous. With a compatible printer, a continuous output can be obtained provided that the Printer Setup is correct, and in particular the selected Paper Source, Orientation, and Paper Size. The selection is done with the Printer... option of the Print Setup dialog. Different printers may require different configurations. If in doubt check your printer manual.
The Print Setup, directly accessible in Preview mode or from in the “File” “Print setup” menu, allows the user to control:
• The printing range (there is one printing range per survey)
• Plot and depth grid lines (3 types for depth: major, medium, minor)
• The fonts used in the legends and the header
• The margins
• Allow/disallow header/footer.

D13.2 • Print Report

As an alternative to the standard report, especially with a large number of zones, the Summary Table can be used to generate a customized output with another application – see section D12.5.
The standard report contains the following pages:

The following pages are proposed for a **PL** interpretation:

Job Information and Comments

The top of the page shows the general information and main options as set-up in the Job Information dialog (Job/Well Mode). The bottom part of the page displays comments.

PVT

Gives a description of the PVT model used (type, parameters, correlations).

Calibration

The calibration plot is printed with a table summarizing the results (slopes, intercepts).

Zone contributions; S.C.

The contributions are calculated from the Zone rate calculation, and assigned to contribution intervals defined on the basis of the perfs/calculation zone position. In multiphase, phase contributions are given.

Zone contributions; Res. Cond.

In addition to the actual contributions, this page includes a listing of the percentage contributed by each zone, this includes a schematic representation.

Total zone rates; Res. Cond.

This page gives the results of the Zone rates option, i.e. for each calculation zone, the total rates across the zone are reported. The rates are listed for the contribution zones.

Rates @ Calculation Zones: Detailed results (multiphase only)

For each calculation zone, one report page gives all results relevant to the calculation of the corresponding zone rates. There are a maximum number of zones for each report page (typically 10) and pages will be added as required. For instance with 12 calibration zones, there will be 2 calibration pages in the report, the

first one for zones 1-10, and the second one for zones 11-12. First preview in order to check the indices of the pages that are required in the print.

Log on one page
Print out the regular WYSIWYG log defined in the Preview/Print Log option (see section D13.1).

Time-lapse page (subject to the definition of at least one time-lapse track)
Print out on one page the time lapse tracks in a similar sequence as the one defined in the Time lapse dialog (section D09.28). The current Log print setup settings are used.

Snapshot(s) pages
Print out the screen layout(s) defined in the "Screen-capture" dialog for the current interpretation. Emeraude generates one page for each selected snapshots. The current Log print setup settings are used.

Selective Inflow Performance (subject to specific conditions only)
For each SIP, one report page gives the SIP crossplot and a table summarizing the corresponding results.

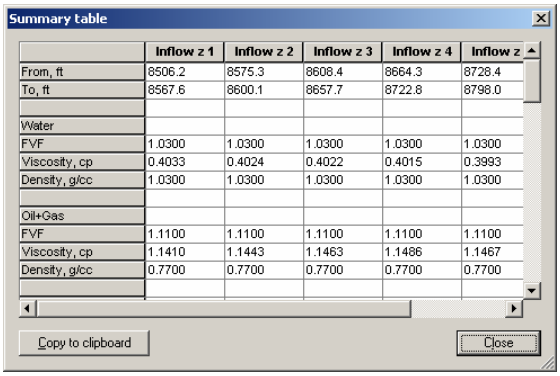
The following pages are proposed for a **PNL** interpretation:

Job information
The top of the page shows the general information and main options as set-up in the Job Information dialog (Job/Well Mode). The bottom part of the page displays eventual comments.

PNL crossplot
Each PNL zone has its own crossplot page.

D13.3 • Summary Table

It gives summary of the results obtained for all calculation zones. Selection can be made by click and drag. Columns or lines can be selected by clicking on the header button. The entire table can be selected by clicking on the top left cell. Once a selection is made, click Copy to Clipboard. Results can then be retrieved, for example in a spreadsheet.

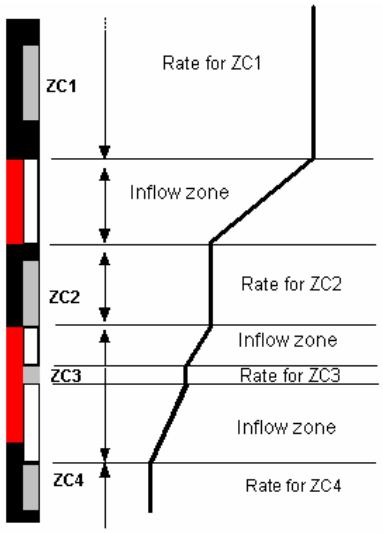


	Inflow z 1	Inflow z 2	Inflow z 3	Inflow z 4	Inflow z
From, ft	8506.2	8575.3	8608.4	8664.3	8728.4
To, ft	8567.6	8600.1	8657.7	8722.8	8798.0
Water					
FVF	1.0300	1.0300	1.0300	1.0300	1.0300
Viscosity, cp	0.4033	0.4024	0.4022	0.4015	0.3993
Density, g/cc	1.0300	1.0300	1.0300	1.0300	1.0300
Oil+Gas					
FVF	1.1100	1.1100	1.1100	1.1100	1.1100
Viscosity, cp	1.1410	1.1443	1.1463	1.1486	1.1467
Density, g/cc	0.7700	0.7700	0.7700	0.7700	0.7700

Results are given for contribution intervals defined as for the schematic log – see section below.

D13.4 • Contribution intervals

Rate contributions, as given in the Report and Summary Table options, are computed as the difference between two consecutive zones. This contribution is then assigned to a inflow zones defined as shown on the figure below:



This is consistent with the schematic log (see section D09.22).

D13.5 • Print preview

The Print Preview displays, page by page, the selected output (Report or Log). The toolbar has the following options:

Print

Sends the output to the printer

Next Page / Prev Page

Scans through the log, or report pages. Even continuous logs are displayed as pages in the Preview.

Two Page

Simultaneous preview of 2 consecutive pages. When in Two-page mode, the button legend changes to One Page, to return to the initial state.

Zoom In / Zoom Out

Close

Exit the Preview - without printing

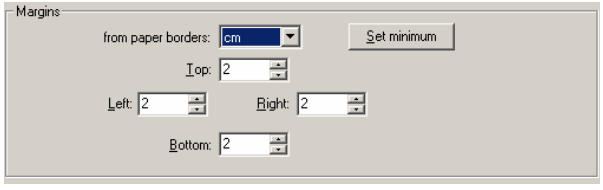
Setup

Access to the Print Setup dialog – section D12.6.

D13.6 • Print Setup

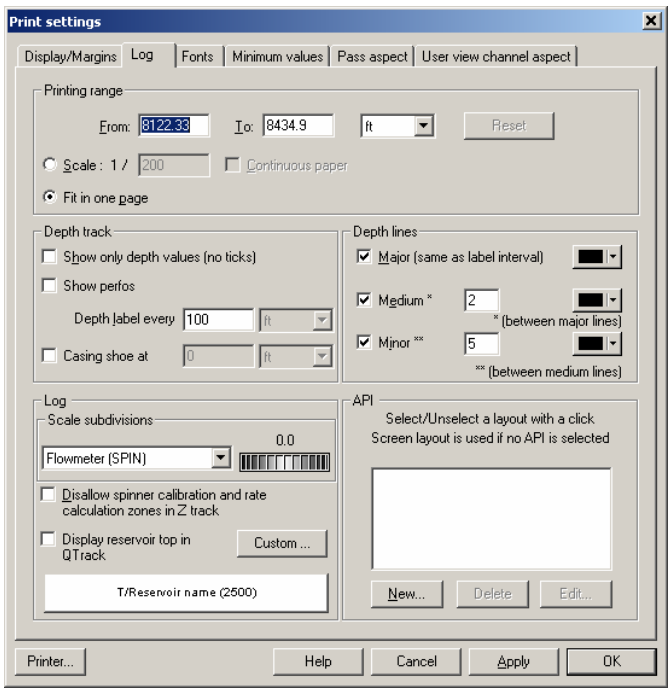
Margins

Use this page to edit the document margins



Log

- Definition of the printing range (active survey)
- Selection of a specific scale or a one page output. With a fixed scale (and a compatible printer) it is possible to generate a continuous output.
- Define the distance between depth labels
- Define depth grid lines thickness (major = thick pen, medium = medium pen, minor = light pen) and color
- Disable the display of calibration/calculation zones in the Z view
- Add perforations in the Z track
- Show only labels in the depth track (i.e. no ticks)
- Add vertical grid lines to any plot (see section D03.6)
- Definition and access to API layouts (see section D12.7).
- Enter casing shoe to display associated symbol in Depth track.
- Display formation tops, with their name on the Q track (complete log)

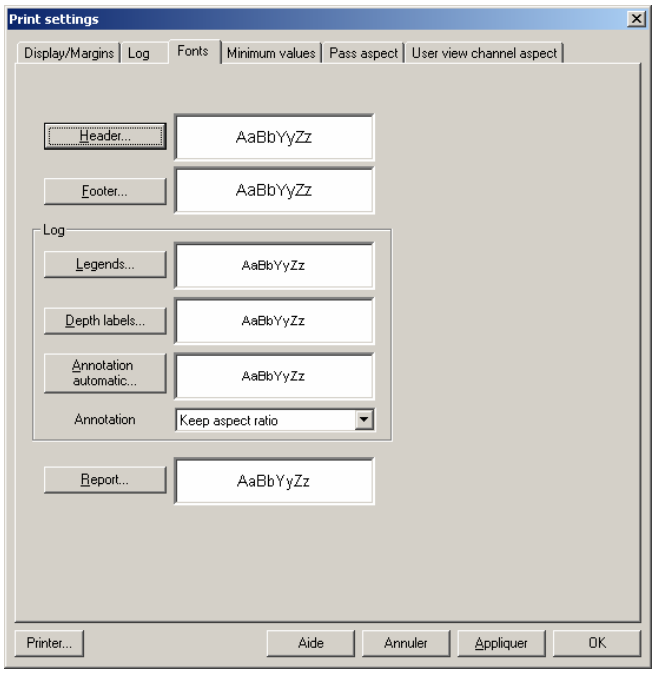


Logo

At the top left of the paper outputs is a logo originally set to the KAPPA logo. This can be replaced with any BMP file. The size of the BMP file should be 400x400 for best result.

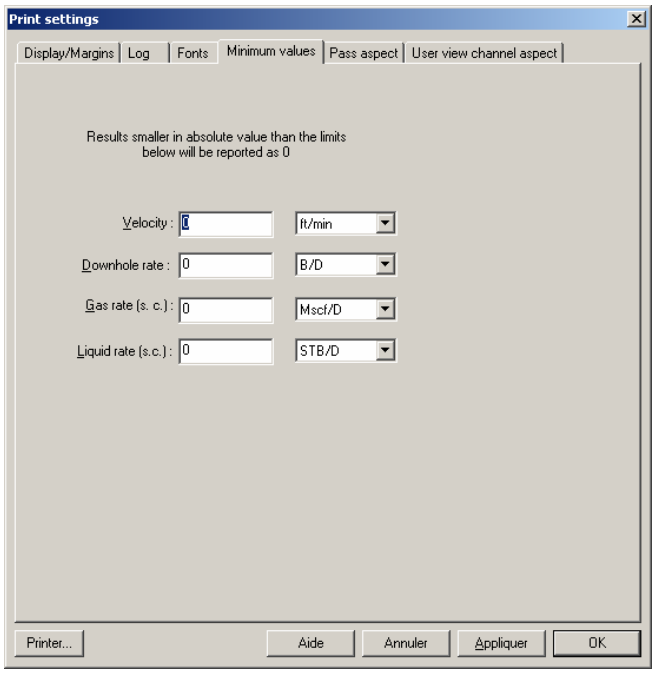
Fonts

Change the fonts used for the log and report output: Header, footer, report, log info (title bar), log (depth labels), annotations.

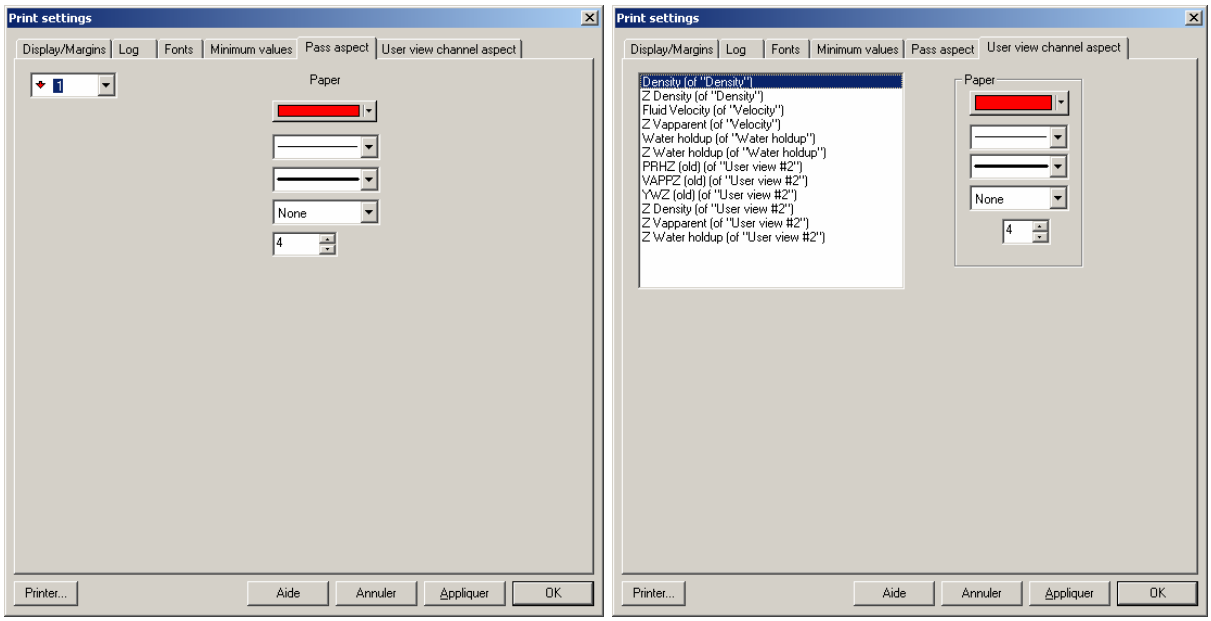


Minimum values

Specify the minimum values of reported rates and velocities. Results smaller in absolute value than the entered limit are reported as 0.



Pass aspects / User view channels aspects



Those two dialogs allow the re-definition/tuning of channel paper aspects while in Print Preview. You can select the Apply button at the bottom of the dialog to see the effect of changes. It is not required to close the dialog.

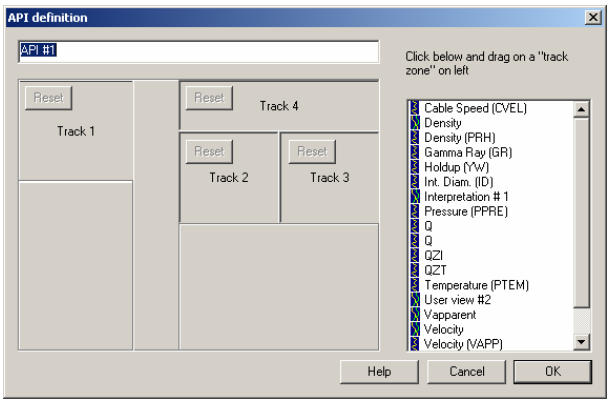
D13.7 • API layouts

API layouts can be created in addition to the default print layout that reproduces the screen setup. Those layouts are stored with the document and can be used later. The API related options are found in the lower part of the Print Setup dialog (see previous page):

New: when selecting this option, an empty API layout is created and is added to the list (by default API#n).

Delete: delete the selected item.

Edit: this option calls a dialog where the tracks can be defined from the available views in the current survey. On the left is a schematic presentation of the API layout, and on the right is the list of available views. To define a particular track, simply select the desired view on the right, and drag and drop it on the appropriate track header. The Reset button removes a track definition.



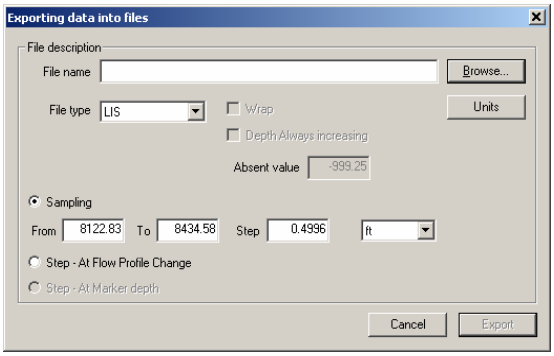
If you leave the Print Setup dialog with one of the API layouts selected, this layout will be recalled next time you go to Print or Print Preview. If you leave the Print Setup dialog with no API layout, or none selected, next time you go to Print or Preview, the default layout is used.
You can switch from one layout to another in the Print Setup dialog, in particular while in Print Preview:
To select a particular API, click on its name in the list, then Apply (or OK).
To select the default print when an API is active: click on the API name in the list to unselect, then Apply, or OK.
In addition to the track definition, Emeraude stores in the API item all settings defined in the Log page such as grids.
An API layout is attached to a particular survey. It is only accessible when this survey is active.

D13.8 • Export

The Export option of the output panel can be used to create, on a single click, a LIS, LAS, or Ascii file with all channels of the active interpretation.

When a different output is desired, export options of the data browser should be used. They give full control on the list of exported channels (see section D05.18).

Different sampling rate options can be used: fixed value, by step at flow profile breaks, by step at marker depths (see chapter D07.1 • Information)



D13.9 • Word report

Emeraude 2.20 is provided with a template Word report, SampleReport.doc reproducing the Emeraude built-in report. With an open document in Emeraude, open SampleReport.doc. At the top of the document, you will see the specific toolbar (see further in this section for a reference on all icons):

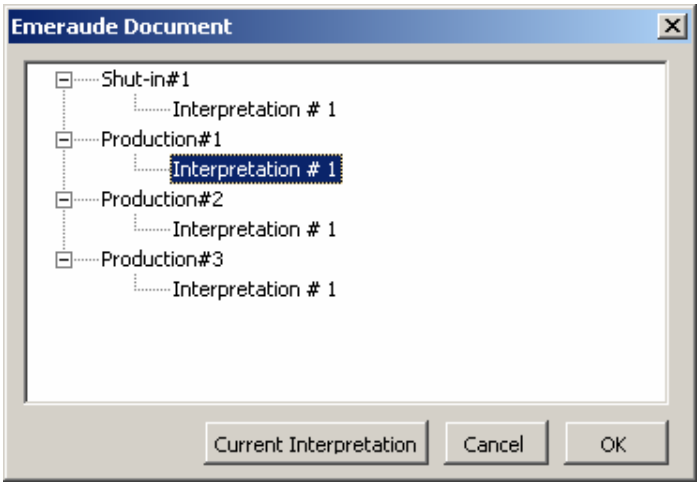


Assuming that your active Emeraude document has a completed interpretation, click on the second icon (Reset Emeraude variables): all relevant information will be filled-in, rows will be added in all tables and completed, and a calibration plot will be created on page 3.

The results can be fully customized, as this is now a Word document. Fonts can be changed, colors, table formats, etc. In addition, the inserted plots are active objects of the document. If you double click on a plot a dialog will appear where you can change colors scales, etc.

Select Emeraude interpretation

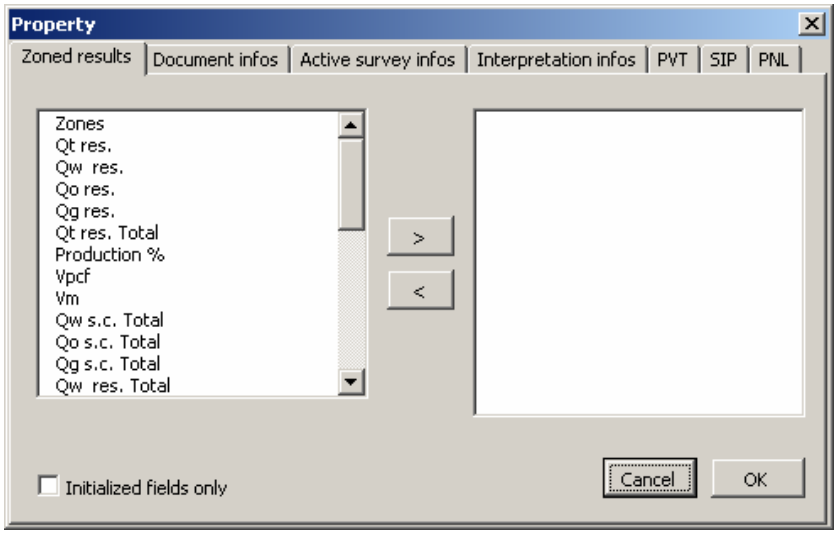
By default the Word report accesses the active interpretation. For a document with multiple interpretation, this toolbar option can be used to change the default.



Reset variables

When selecting this option all results are updated based on the selected interpretation. Note that this goes only as long as the link between a particular field and Emeraude is not broken (see below).

Select Emeraude variables



This option can be used to customize the report content. There are several categories of results:

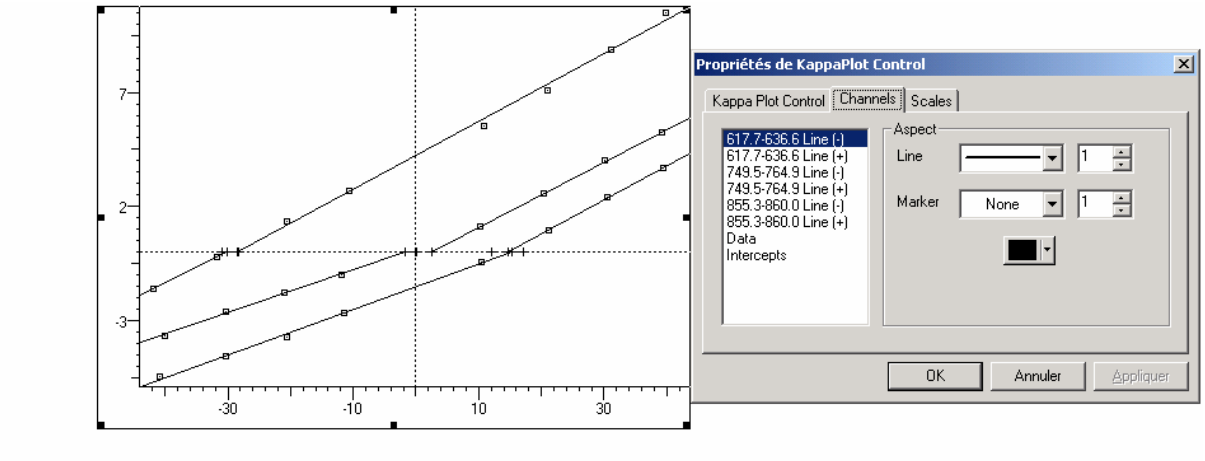
Category	Belongs to	Tabular
Zoned results	Selected interpretation	Y
Document infos	Active document	N
Active survey infos	Active survey	N
Interpretation infos	Selected interpretation	N
PVT	Selected interpretation	N
SIP	Active document (subscript [i] refers to SIP # i)	Y
PNL (crossplot results)	Selected PNL interpretation (subscript [i] refers to crossplot # i)	N

Select Emeraude plots

Can be used to insert plots for calibration, SIP, and PNL crossplot, depending on the content of the active document/interpretation. The inserted plot is not a static copy but it is managed by an ActiveX control installed with Emeraude. Note that if your privileges do not support ActiveX control installation, this facility will be disallowed.

The plot is added with a legend below it. Like the plot, the legend keeps an active link to the document so that for instance, changing units in Emeraude and subsequently calling “Reset Emeraude variables” will update the plot/legend.

A plot can be customized within your Word document. A double click accesses a dialog where the appearance (aspects, scale, etc) can be modified.



Threshold (+) 2.4934 m/min Threshold (-) -1.7537 m/min

Calib. Zone (ft)	Slope (+)	Slope (-)	Int (+) (ft/min)	Int (-) (ft/min)	Int. Diff. (ft/min)
617.7 - 636.6	0.149	0.138	-28.437	-30.105	1.668
749.5 - 764.9	0.149	0.100	14.657	15.383	-0.726
855.3 - 860.0	0.143	0.094	2.493	-1.754	4.247

Split Emeraude array

With an existing array, click inside a given column and select this option to add a new column immediately after.

Clean all variables

Empties tables and erases all results. The underlying fields remain, i.e. a subsequent call to “Reset Emeraude variables” fills in the report.

Select multiple interpretations

This option will concatenate one instance of your report for each selected interpretation. When Word is finished updating a particular instance, all links with Emeraude are broken for that instance, and the software proceeds to the next one. Only the last instance keeps a link with Emeraude.

Break Emeraude link

Removes the link between all results present in the document and Emeraude. The next “Reset Emeraude variables” will therefore leave the current content of the document unchanged.

Check Emeraude version

Displays the version of the Emeraude instance running. This is essentially a way to check the proper communication between the server (Emeraude) and the client (Word).

Troubleshooting

The communication between Word and Emeraude relies on the OLE protocol. If you experience communication problems, you should quit / restart both applications. Restart Emeraude before Word so that the server information is properly updated.

Different printers may require different configurations. In you have any doubts, check your printer manual.

D13.10 • Click and send

The Click & Send option enables the user to directly E-Mail an Emeraude file (or a subset) to any destinee, KAPPA support, or X-Check. It is possible to send a compressed version of the file, all analyses and the active survey only.
Support is a non paying facility designed to give you fast access to software technical help only. It is not an interpretation support service. This service is only available for software under current maintenance or rental.

X Check is an additional paying service designed to give you fast access to an expert second opinion. By accepting this service, you will be asked for a description of the assistance you require, and your interpretation will be transmitted to KAPPA. In return you will receive an opinion on the interpretation, comments on quality, alternatives and comments on our confidence in the results.

Due the wide range of PL interpretations (from simple single-phase to horizontal wells) the price structure for this service can be seen on www.kappaeng.com/xcheck. You will be asked for a Purchase Order number. Alternatively, the email you are about to send will act as a Purchase Order and your Company will be billed automatically.

D13.11 • CGM/TIFF log output

This option is used to output a log in TIFF or CGM format.

TIFF is the default and is always available. CGM is an additional option, licensed separately.

Please contact Kappa if you are interested by the CGM output option