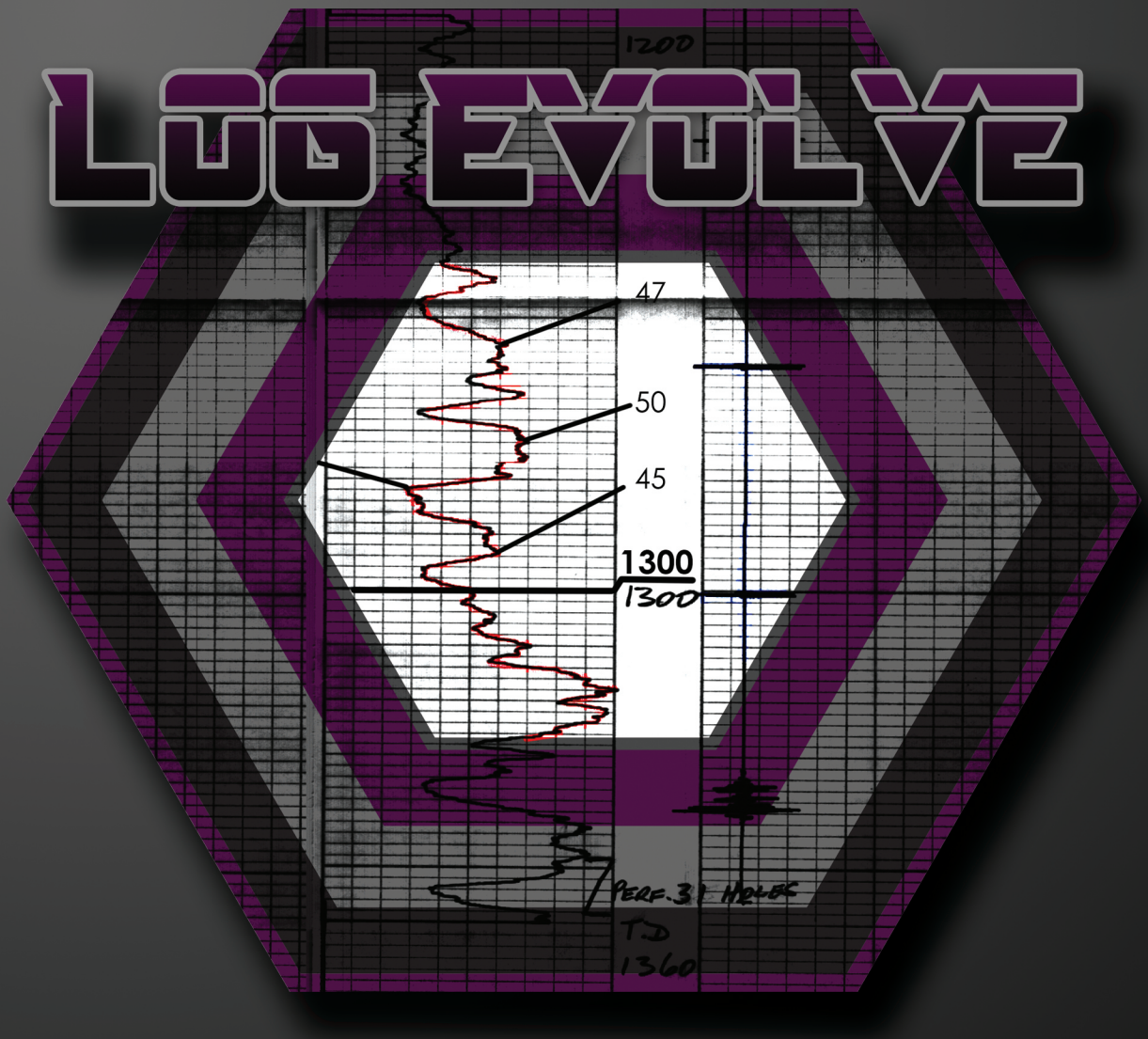
Log Evolve



Users Manual

V1.0.0.23

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About Log Evolve

Log Evolve is a graph digitizer, originally created to aid in the digitizing of very large charts (known as logs) in the geology field. With Log Evolve you can take still images (such as scans or downloaded image files) of graphs and convert them directly into tangible data. You can export all of this data in three options, Excel Format, CSV Data Table Format or Compressed Zip Format.

Log Evolve is more than capable of digitizing many formats of small, large, horizontal or vertical graphs and charts. With its own built-in AI (artificial intelligence) Unit, Log Evolve can automatically adjust the values of the viewable image when the graph is moved. This in return will allow the user to graph a portion of the image, move the digitizer to another section, and continue the digitization without compromising data.

Log Evolve is not limited to Log Files though. Log Evolve can work with Bubble Charts, Line Charts, Scatter Plots, Bar Graphs, Column Graphs, Spline Images, Step Line Graphs and many more.

Log Evolve offers customization options as well. From the Data Points, Lines and even the Tops (data set dividers) can all be customized with color and names. You can also put in preset data for publishing well data. For instance your company name, graph creation date, email, phone number, personnel name, original graph data and custom images of the original image as well.

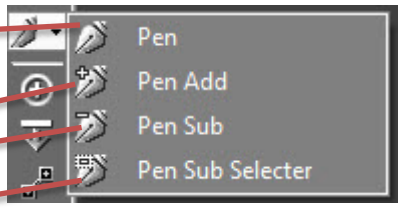
Creating the tangible data is very easy and simple. Within only a couple clicks you can open an image, draw a graph and start digitizing. And with the aid of the AI called 'Chart Synchronization' you can easily convert a multi thousand foot log in a matter of minutes.

The exported information can be exported in ZIP format, to be read on other computers with Log Evolve, exported to a CSV comma delimited table, or exported directly into Microsoft Excel. With the capability to export directly into Excel, Log Evolve can easily convert data points into editable cell blocks, image files, and embed all of those into the standard .XLSX file that everyone uses. This means that you can export and anyone with Microsoft Office Excel version 2007 and above can read and write to it.

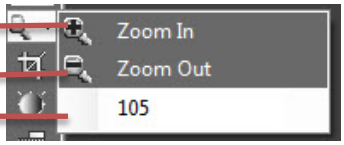
Log Evolve also has the possibility to save your current progress in to a Zip file and pick it right back up where you left off. The Zip file is not proprietary or locked so all the information inside is completely open and can be read from many different devices.

Buttons and Functions

1. Pointer – Select this when you want to select, move or stretch something.
2. Pen Tool Options
    a. Pen – Use this to draw individual points, or hold down to auto draw points
    b. Pen Add – Use this to add points between other points
    c. Pen Sub – Use this to remove individual points
    d. Pen Sub Selector – Use this to remove selected points

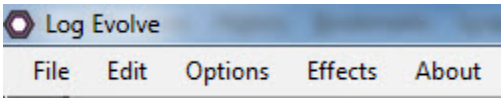


3. Top Adder – This will add a top where clicked
4. Move Top – This will relocate the selected top wherever the user drops it
5. Top Color – Change the color of a selected Top
6. Remove Top – Select to remove a top
7. Point Color – Select to change the color of data points
8. Line Color – Select to change the color of the lines between data points
9. Top Color – Select to change the color of new top or one that is going to be changed
10. Zoom
    a. Zoom In – Hold or click to zoom in
    b. Zoom Out – Hold or click to zoom out
    c. Zoom Speed – Higher the number the faster



11. Crop – Use this to Crop images before you digitize them
12. Brightness – Use this to increase or decrease the brightness of an image
13. Screen Shot – Use this to take a screenshot of either your screen or a PDF to digitize
14. Rotation – Use this to rotate your image

Menu Options



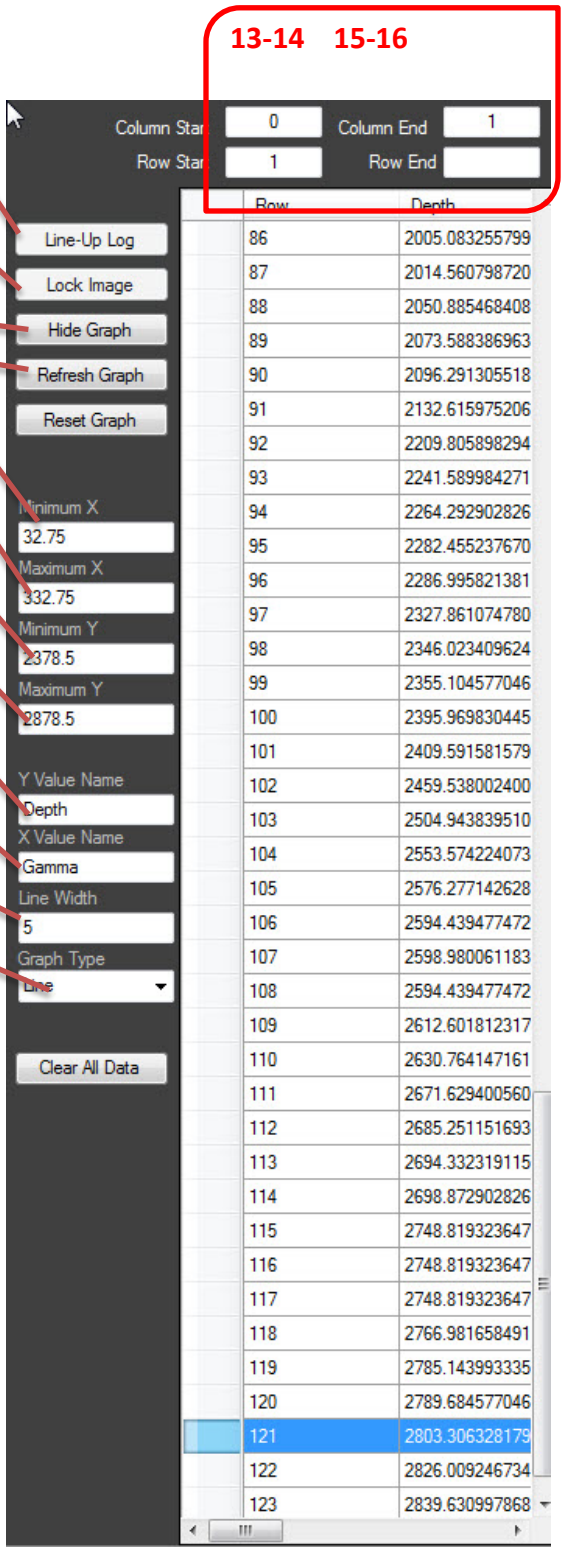
1. File
    a. Open
        i. Image – Allows user to open image to digitize
        ii. Project – Allows user to open project to digitize
        iii. PDF – Allows user to open PDF in default PDF viewer
    b. Save As
        i. Image – Allows user to save back image
        ii. Project – Allows user to save project file
        iii. Excel – Allows user to export project into Excel (.xlsx format)
        iv. CSV – Allows user to export project/data into CSV database table
    c. Close Project
2. Edit
    a. Undo – Only available for image edits (limit to 1 step)
    b. Rotation – Will allow user to rotate image 90 or 270 degrees, or flip Horizontally or Vertically
3. Options
    a. Chart Options
        i. Reverse Y – Chart the graph in reverse Y order (smallest number at top)
        ii. Reverse X – Chart the graph in reverse X order (smallest number at right)
        iii. Vertical Points – Chart the graph with vertical array of points
        iv. Horizontal Points – Chart the graph with horizontal array of points
    b. Auto Locate – Will automatically locate the points on the data table when they are moussed over
    c. Publish Options – Set the options for the publish document. This will allow the user to put custom information into the published well file.
    d. Chart Synchronization – The built in AI system that will allow the user to automatically advance the graph without losing any data points previously input.
4. Effects
    a. Sharpen – Will sharpen the image
    b. Smoothing – Will blur the image
    c. Emboss – Will emboss the image
5. About
    a. Log Evolve – Information about your version of Log Evolve
    b. Email/Web Support
        i. Bug Report – Allow the user to ether submit an email or post on our website for a bug or error report

ii. Request Feature – Allow the user to either submit an email or post on our website for a future feature request
iii. Support – Email or Web based support for questions.

c. Leave Feedback – Leave us feedback on our website if you like our product enough to do so

Side Graph Options

1. Line-Up Log – Shows graph so user can line it up with the picture behind
2. Lock Image – Will log the transparent background of the graph so the image will not change even if moved
3. Hide Graph – Will hide graph
4. Refresh Graph – Will refresh graph
5. Minimum X – Determines what the minimum X value for the graph is
6. Maximum X – Determines what the maximum X value for the graph is
7. Minimum Y – Determines what the minimum Y value for the graph is
8. Maximum Y – Determines what the maximum Y value for the graph is
9. Y Value Name – Will determine what the Y value name is for the data exports
10. X Value Name – Will determine what the X value name is for the data exports
11. Line Width – Will determine how thick the drawn graphs lines are
12. Graph Type – Set the type of graph that will be graphed
13. Column Start – Selection column start
14. Column End – Selection column end
15. Row Start – Selection row start
16. Row End – Selection row end

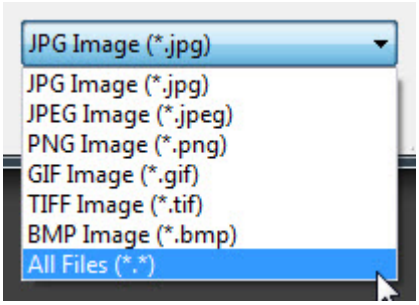


Starting a Project

Opening Files

When starting a project with Log Evolve you will need to know the basic buttons and features. If you have not read the previous section of this manual, please go back and read that now.

The first thing you want to do is decide if you would like to open an IMAGE, PROJECT or PDF file. With 'File' > 'Open' > 'IMAGE' you can open any different type of images. To view all the file types together on this selection screen select 'All Files (*.*)'. Image formats can be in JPG, JPEG, PNG, GIF, TIF or BMP format.



Project files are zipped files of combined project data files that were saved on your product or from another product. Simply select the zip file and open it.

PDF files cannot natively be opened inside of Log Evolve. Instead what Log Evolve will do is open the PDF file inside of the default PDF Reader installed on your machine. To import the PDF into Log Evolve you will need to take a Screen Shot (refer to buttons section) of the chart/graph, or convert the PDF to an image file. Once the screen shot is taken or the PDF has been converted you man then open it as an image file from 'File' > 'Open' > 'IMAGE'.

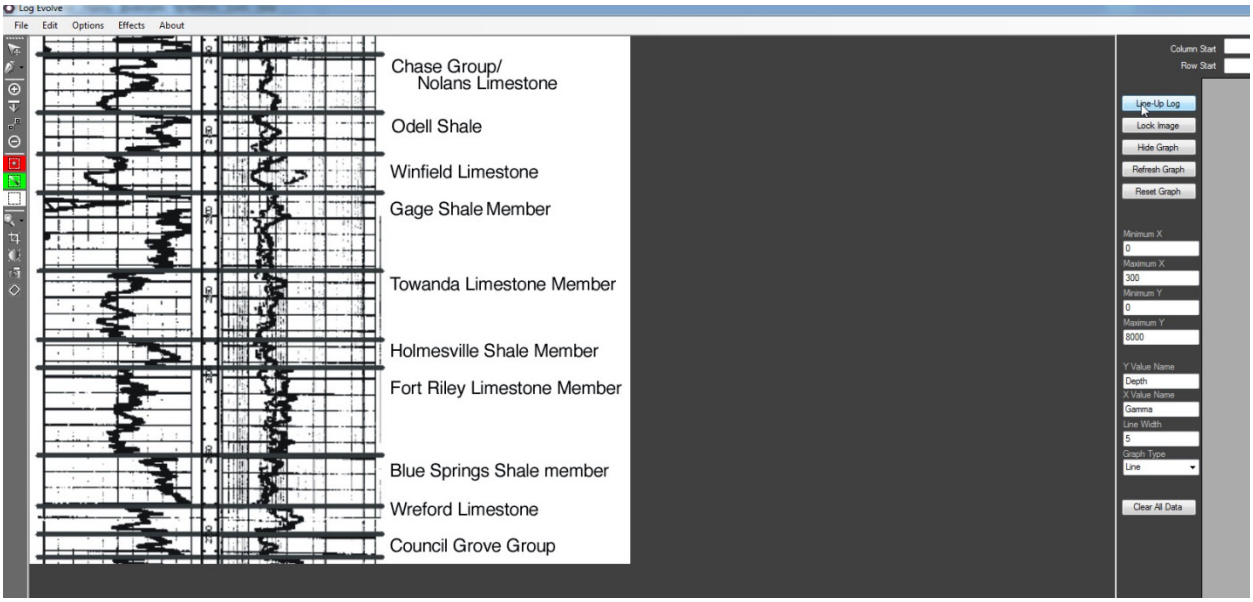
Photo Editing

Once the image is loaded into Log Evolve you can make adjustments to the image as needed. There are several tools you can use to make sure that your image file is the best quality for graphing. You can use the Rotate button on the left side to rotate the image by a set degree (able to be rotated down to 0.25 degrees at a time), adjust the brightness of the image with the Brightness button (also located on the left), crop the image if needed with the Crop Tool button, and Zoom in or out as needed.

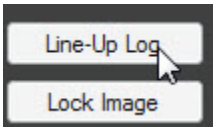
The options for photo editing on the top menu is under the Edit and Effects tabs.

'Edit' has an Undo option, which is used only for the Photo Editing, and also only steps back one level. Also under 'Edit' is 'Rotate' which will allow the user to rotate the image by either 90 degrees or 270 degrees. Rotate also has an option for Horizontal Flip and Vertical Flip.

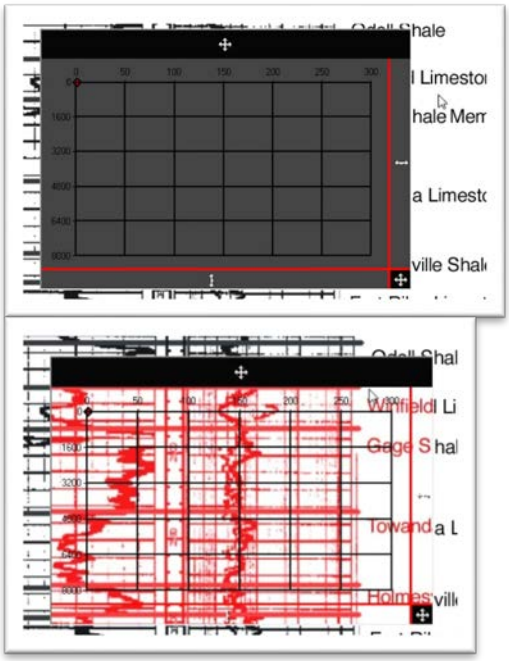
'Effects' will allow the user to either Sharpen, Smooth or Emboss the image. Sometimes using these filtering effects will make the chart more readable.



Setting up Graph



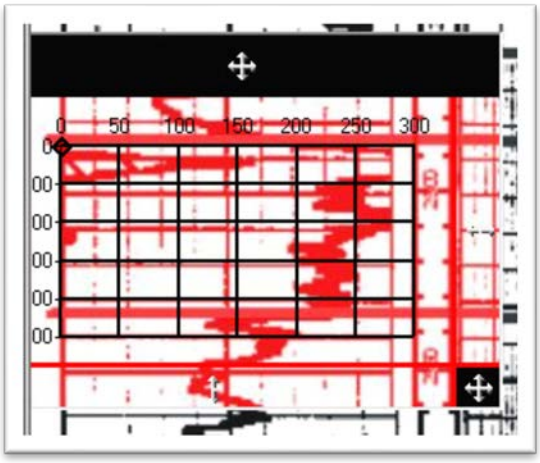
Once you have your image set up where you would like it (level, straight and legible), go ahead and click the 'Line-Up Log' button. This button will make a graph appear overtop of the image you have previously edited.

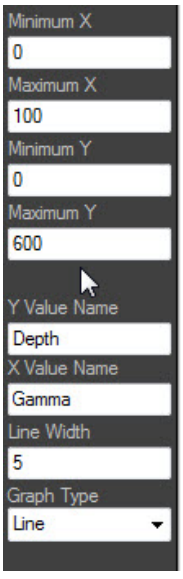


You will notice that with this new blank graph, that when you mouse over it the dark gray background will change to show what is behind the graph itself. There will be a slight red overcast so you can see the graph vs image and distinguish between the two.

Now you will need to set up the Vertical/Horizontal points, as well as the inverted points. Go to 'Options' > 'Chart Options' and set the switches as needed. For more information on this please review the last section on 'Menu Options'.

Now that you have your Graph populated, move the graph so that the lines on the Chart inside of the Graph line up with the imported image. You can use the black box on the Graph at the top and the bottom right to move and relocate the Graph as needed. You will also need to use the Bottom and Right stretch bars to stretch your Graph to line up with the image behind it that you want to digitize.

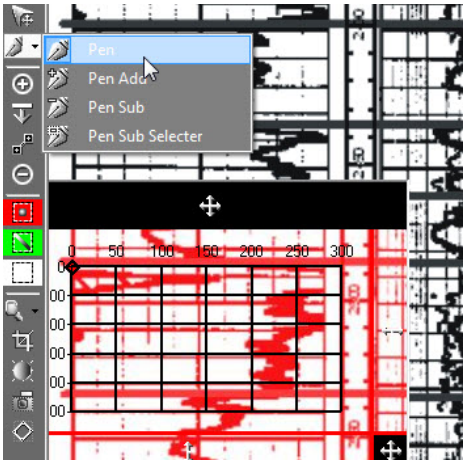




Once you have the Chart, Graph and Image all lined up you will need to set the Minimum and Maximum for both the X and Y axis, which is located on the Right hand side of the screen under the graph buttons. Make sure to set the numbers accurately so they line up with the graph you want to digitize.

When you have your Image, Graph and Chart set you it is good practice to click the 'Lock Image' button on the right. This will disable the auto refresh on the background of the Graph, locking the background image in place. At this point you are ready to start adding in data points and digitizing your graph.

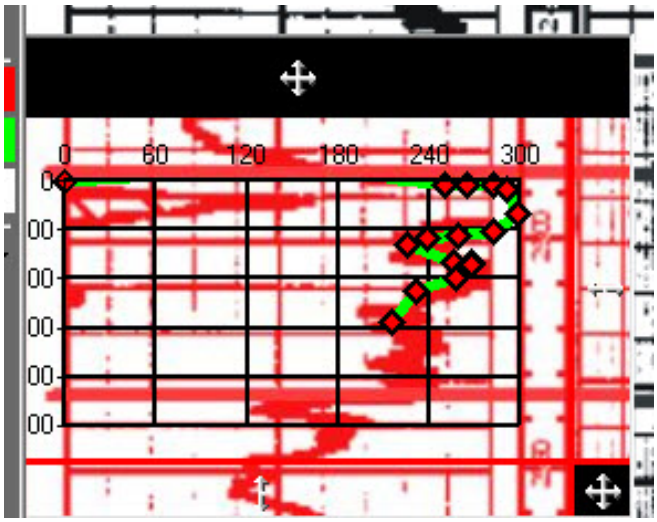
Adding Data Points



Once you have your graph set up you can start adding data points and digitizing by selecting the 'Pen' tool button and simply clicking into the graph to add data points. For more of a breakdown of these features please read the previous section coving the buttons and features.

With the 'Pen' selected you can now start adding points. Add them from the 0,0 point. Or, in other words, where the digitized data will start.

To add points click with the Left Click on the Graph where point is needed. For easier 'Auto Click' simply hold down the Left Click and run your mouse of the line you want digitized. This will automatically add data points for you as you trace the image. This works well with tablets as well if you would prefer to use a pen.

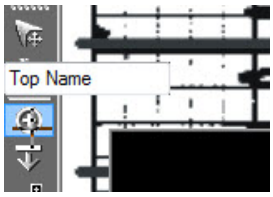


If you need to delete one point, select the 'Pen Sub' and then Left Click to remove a point.

If you need to delete multiple points, select the 'Pen Sub Selector', select the starting point with the Left Click and then the End Point with the Left Click.

If you need to add points between two already specified points you can add them by clicking the 'Pen Add' and then Left Clicking to add points between two existing points.

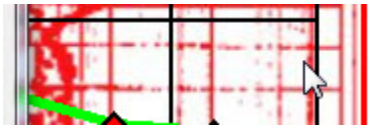
Adding Tops



You can add tops by selecting the 'Add Top' tool button on the Left, changing the Name as needed, selecting a color (or leaving it WHITE as the default) and simply clicking to add the top where needed.

You can move a top by select the 'Move Top' tool button on the left, HOLDING down the Left Click on the mouse and dragging the top data point where ever you would like to relocate the top to.

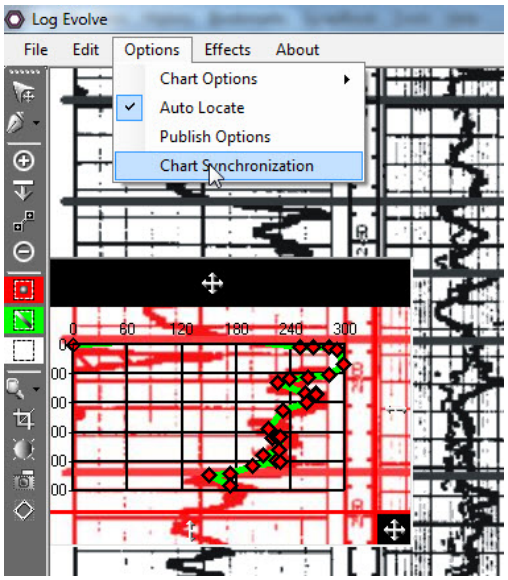
You can change the color of the selected top by selecting the 'Top Color Editor' tool button on the Left, changing the color pallet and then selecting the top that needs the color changed.



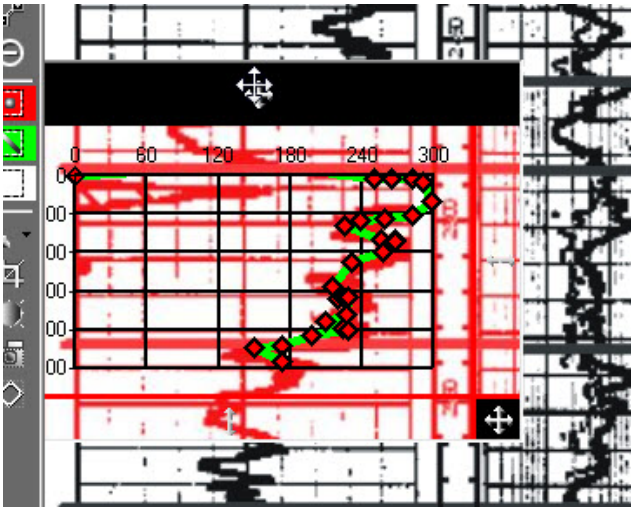
You can delete a top by selected the 'Remove Top' tool button option on the Left and then selecting the top to delete.

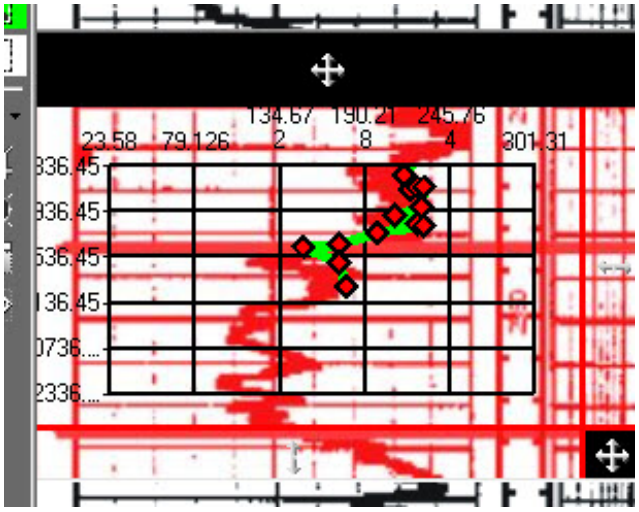
Advancing Chart

Log Evolve comes with its own, for lack of a better term, AI (artificial intelligence) Unit called ‘Chart Synchronization’. The built in AI system will allow the user to automatically advance the graph without losing any data points previously input.

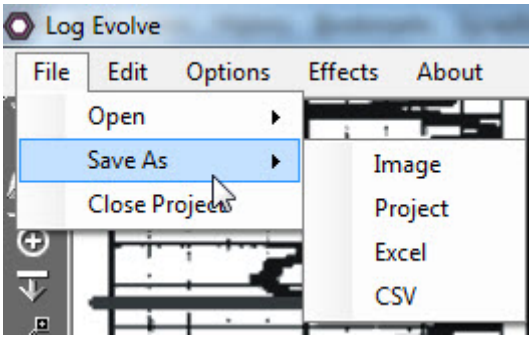


To activate the AI make sure that your Graph is lined up correctly, that your numbers are also lined up correctly, and that you have at least 3 data points drawn on the Graph. Once all of those are in place, go to ‘Options’ > ‘Chart Synchronization’ to activate the AI. You will be greeted with a window asking if you would like to continue, and what options will be disabled while the AI is activated. Once accepted you can move the Graph freely as the Data Points reline themselves where they should be. This will allow the user to digitize very large graphs in a very short amount of time.





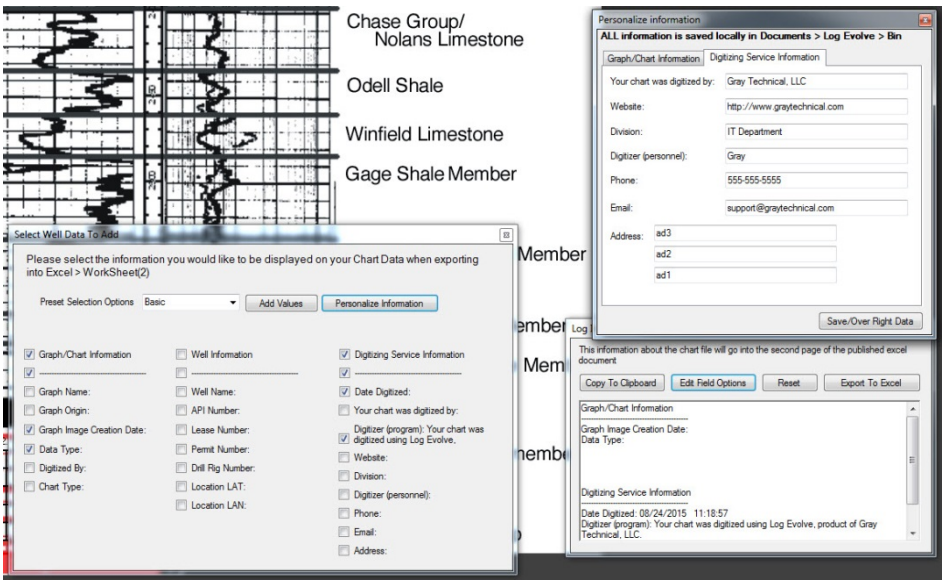
Exporting Data



Once your Image has been digitized and you are finished with your graph you can export your data in three different options.

The first option is a Project file, which is actually a ZIP file that is comprised of all of your data (both system settings and digitized data). This will allow you to email this project file to anyone to open in Log Evolve, or to see the core data in simple .txt format.

The second option is to export into an Excel document (.xlsx – or 2007 and above). This will allow the user to save all of the digitized data into cell blocks, images, graph, chart, and back image as well. The user can also specify individual data about the image being digitized or the organization/person that digitized the data. This can be accessed at any time by going to 'Options' > 'Publish Options', or by exporting to Excel, which will open the dialog by default.

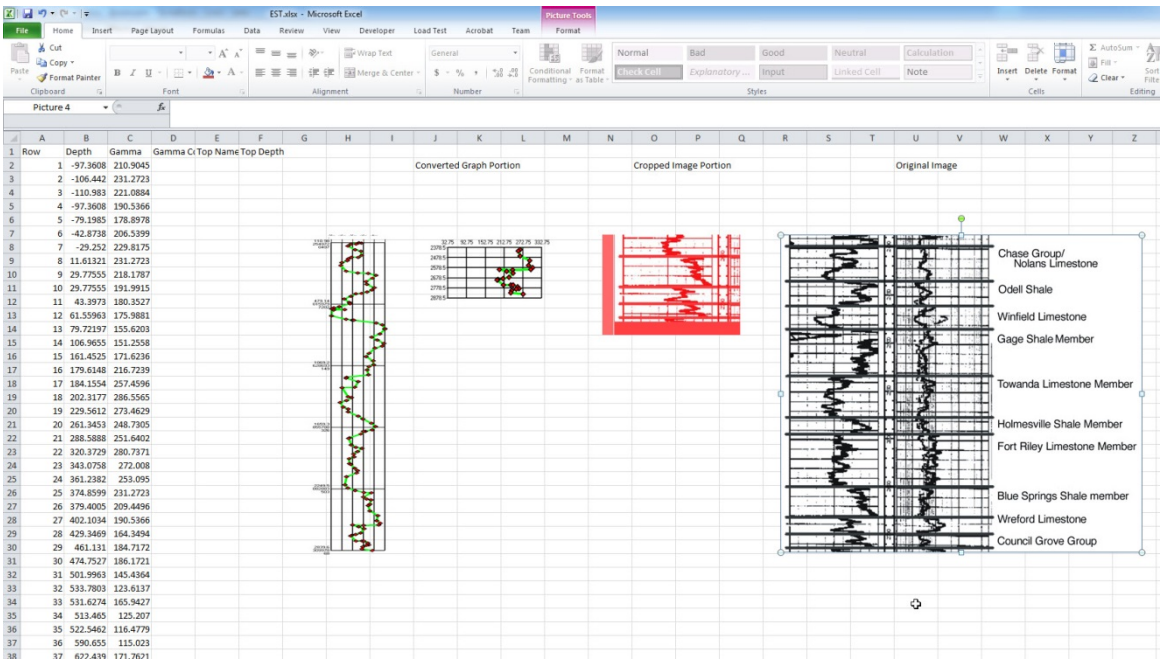


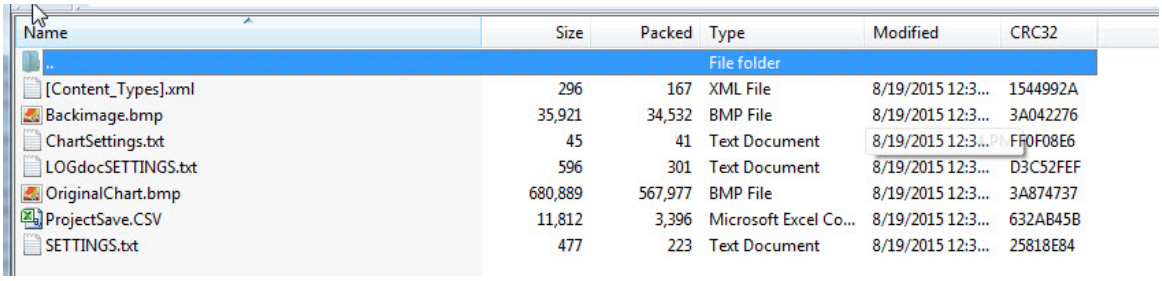
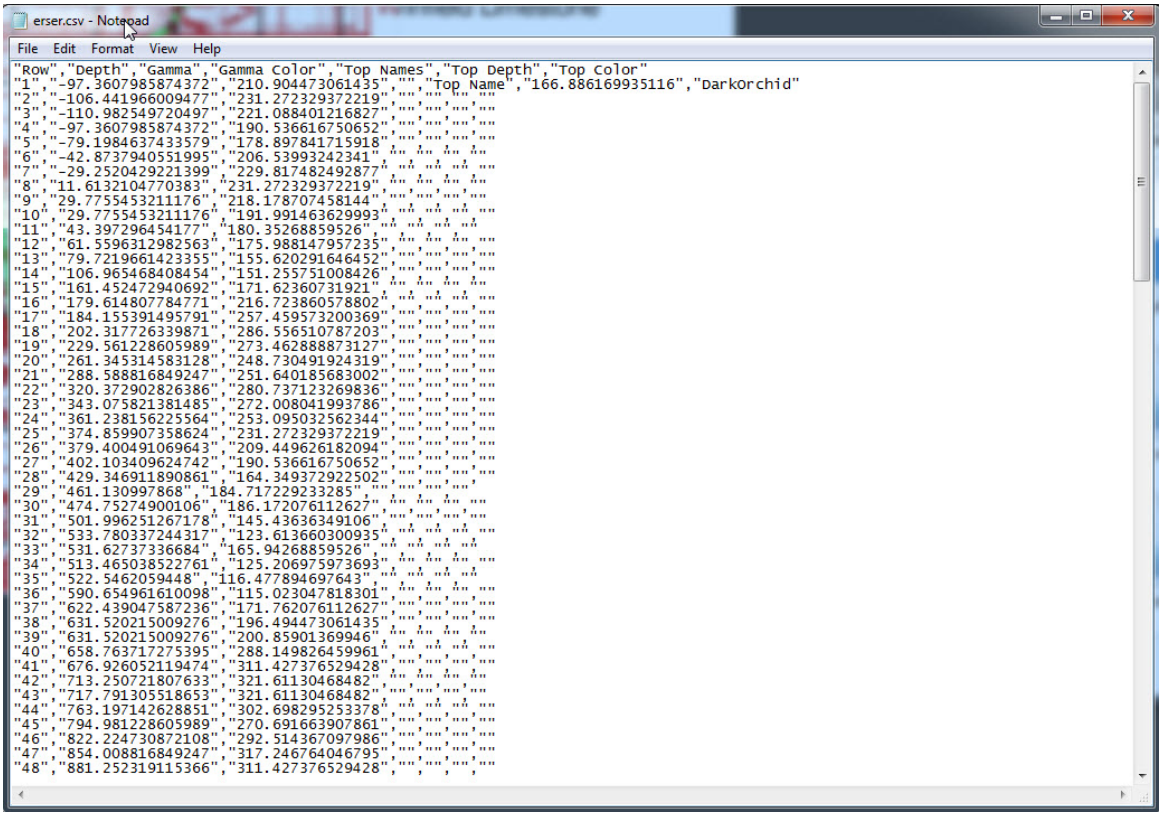
In this window you can specify what information to display on the digitized data. There are many pre-set options, as you also have the possibility to set your own data (like name, email, address, business, ect.) All of this information will be viewable on the second page of the exported Excel document.

Once your data is set click the 'Export To Excel' button to have all of your data automatically transferred into Excel format for you.

The third option for exportation of data is into a CSV common delimited .txt document. This is a standard database table that man programs use as a default.

Examples of the exported data can be seen on the next page.

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ChartSettings.txt	45	41	Text Document	8/19/2015 12:3...	FF0F08E6
LOGdocSETTINGS.txt	596	301	Text Document	8/19/2015 12:3...	D3C52FEF
OriginalChart.bmp	680,889	567,977	BMP File	8/19/2015 12:3...	3A874737
ProjectSave.CSV	11,812	3,396	Microsoft Excel Co...	8/19/2015 12:3...	632AB45B
SETTINGS.txt	477	223	Text Document	8/19/2015 12:3...	25818E84