

Merge (combination) vs Splice of Curves in GVERSE Petrophysics

GVERSE Petrophysics



GVERSE GeoGraphix Support

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How to Merge and Splice Imported Curve

After importing a new group of curves, there are two curve operations called; **Merge** (join) or **Splice**, which can be applied to this new set of curves.

The **Merge** and **Splice** tool is located under the **Curves** tab; **Merge/Splice**.

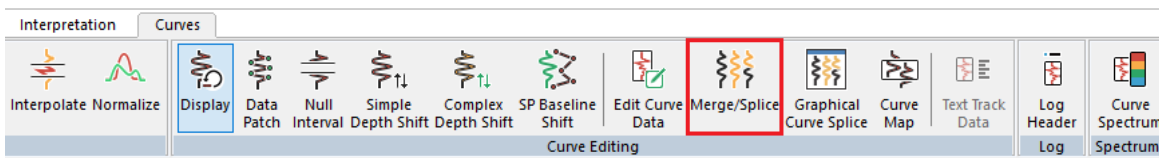


Figure 1: Merge/Splice option in GVERSE Petrophysics.

Procumbent companies can perform well logging with a variety of tools on numerous runs, resulting in a wide variety of taught files and curve sets in **GVERSE Petrophysics**. To view a full depth record and compare the various curves, the **Merge** operation can be used, but in the event that the import curve sets are required to be spliced into a new curve set, **Splice** would be the most suitable option.

Merge: combine two or more sets of curves that have similar depth ranges but different curves

Splice: two or more sets of curves that contain similar curves but different depth ranges.

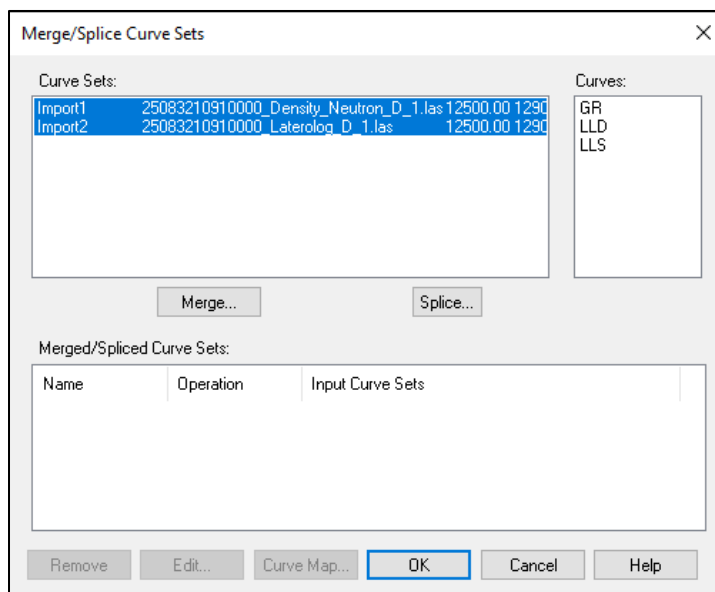


Figure 2: Merge/Splice Curve Sets window.

Note: The Merge command is only available if the record is displayed in MD. It is not available on TVDSS, TVD, TVT or TST.

Note: When importing curve data, the curves can be merged or spliced automatically during import depending on the chosen import options.

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In **Splice** operations, all curves will be spliced at the same depth point (this depth can be defined by the user). In some situations the common splice depth is sufficient, but to define another splice depth, the general fillet operation in the dialog box and the depth can be adjusted by clicking the **Curve Map** button at the bottom of this dialog box.

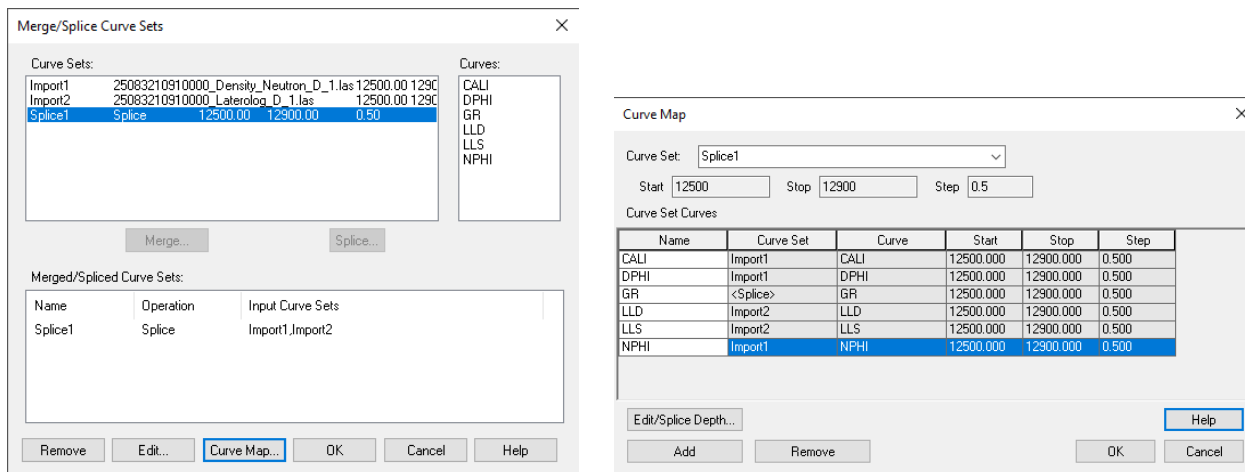


Figure 3: Splice and Curve map window.

The **Curve Map** dialog box can be used to set splice points for individual curves, rename curves in sets of merge/splice curves, and combine multiple curves into one.

During the LAS/LBS import process, when new import curves sets are imported into the project, the new set is automatically merged or spliced with the existing field data curve. The resulting combined or spliced set of curves is designated as the new field data curve. When splicing sets of curves, you are grouping two or more curves that contain similar curves (curves with the same name), but different depth ranges.

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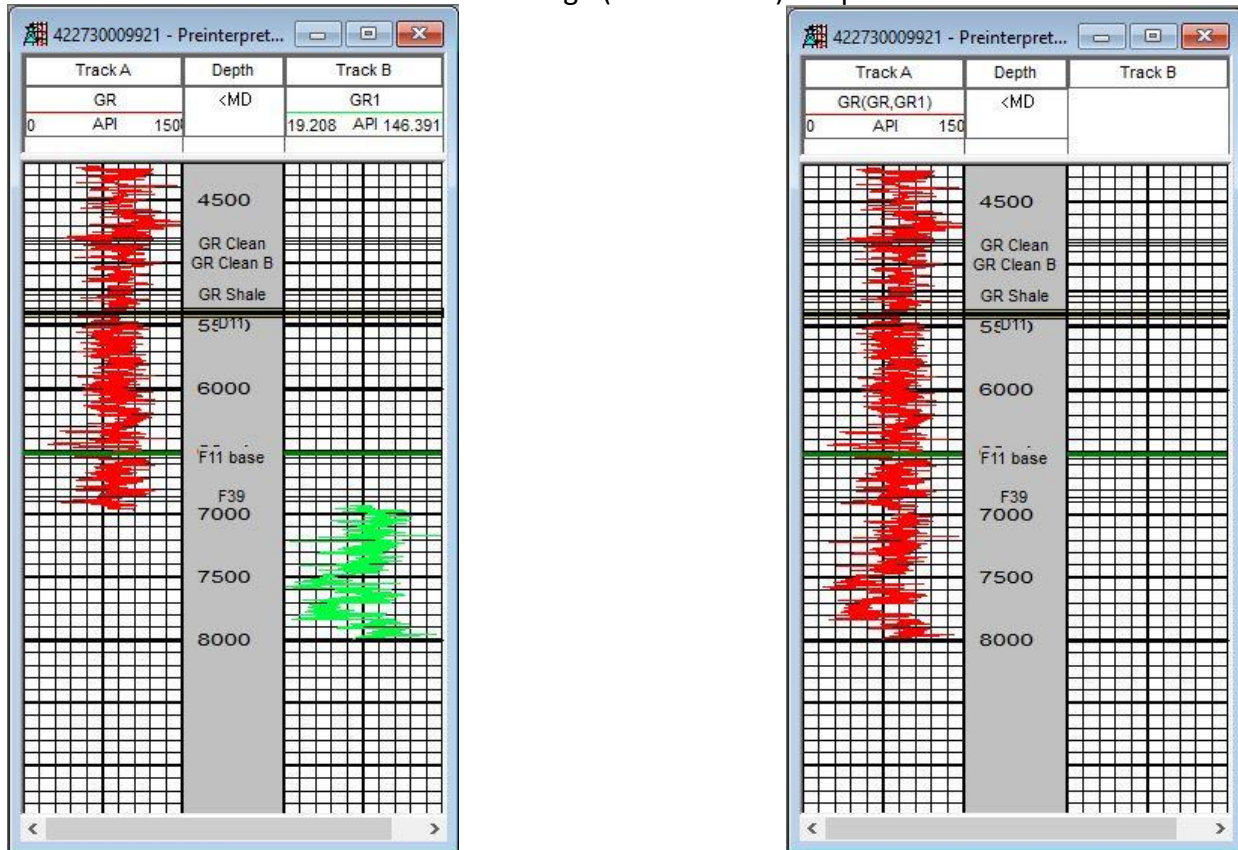


Figure 4: Splice (Join two runs).

If you want to compare curves from different acquisition tools, you can use the merge curve option, Merge. When the Merge curve set is selected it will allow you to see each of the curves of the different tools, which can be compared in a simple template arrangement.

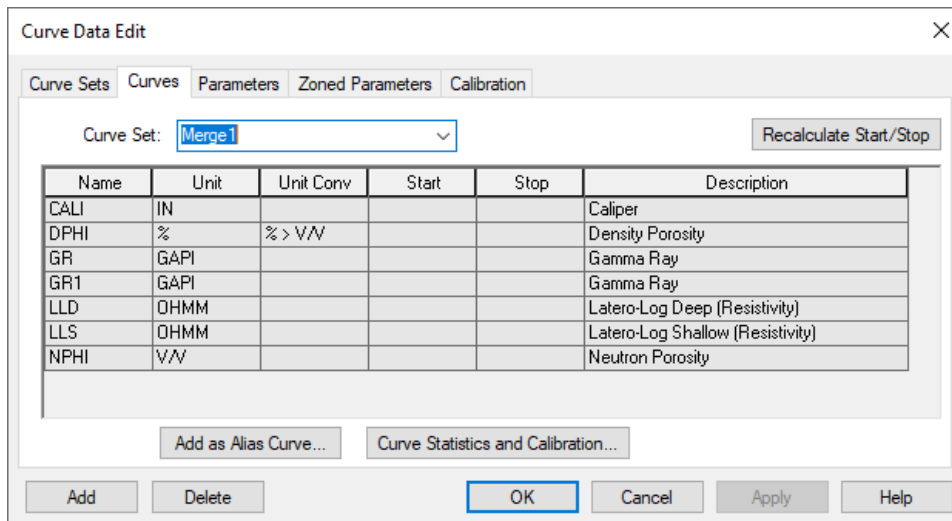


Figure 5: Selection of the Curve Sets.

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Figure 6 shows an example of the comparison of the GR curve of a Wireline tool with the GR1 of a LWD real-time azimuth tool.

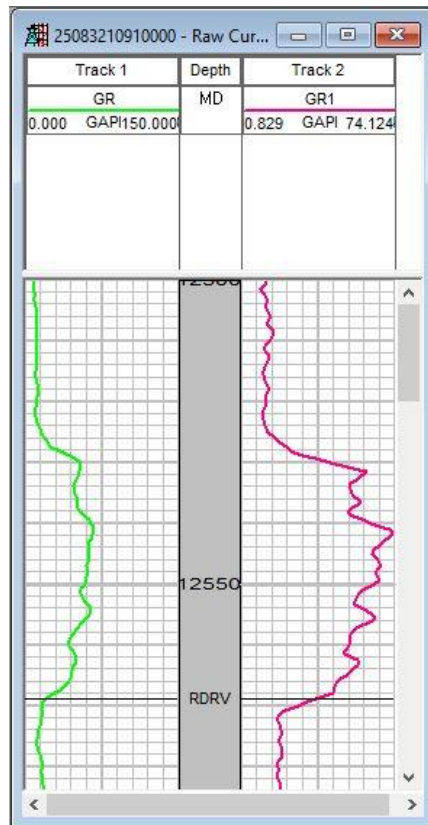


Figure 6: Comparison of Curves.