

Petrophysical Analysis - Crossplots

TERRASCIENCES provides one of the most advanced, yet easy to use, packages for the display and analysis of petrophysical data available today. As part of the base TerraStation II system you have full access the crossplotting module the Petrophysics package. Crossplotting is one of the most heavily used functions in any well analysis software package, and TERRASCIENCES gives you one of the most versatile on the market.

Standard Industry Overlays

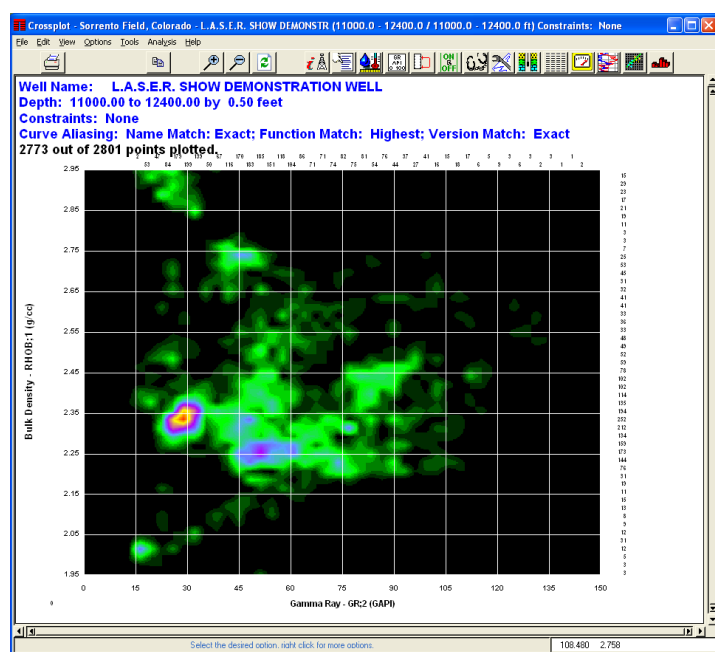
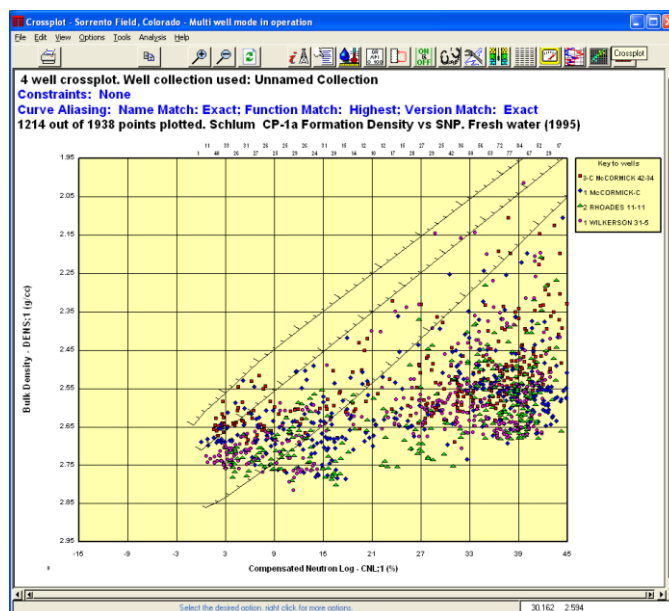
A wide variety of standard and some not so common overlays are available. This includes various logging company porosity overlays, Lithology ID overlays, Sw vs Porosity, Coal Rank using bulk density and sonic, and many more.

Single well, single or multiple zone

You may define zones over which petrophysical parameters vary. You can also define logging run parameters that change by depth. Intervals of analysis may be defined independently of either the petrophysical or logging parameter zones. More sophisticated users can tie these zone boundaries to surfaces in the map files of a TerraStation project to increase field wide analysis capabilities.

Multi well processing

Multiple well plots where the data is either displayed as separately colored symbols, or combined together into one set of data are available.



Statistical analysis

Line fitting using various degrees of polynomial, Reduced major Axis, Power, and exponential fit are available. You can also define an area on the plot for performing the analysis.

Specialized Crossplot Options

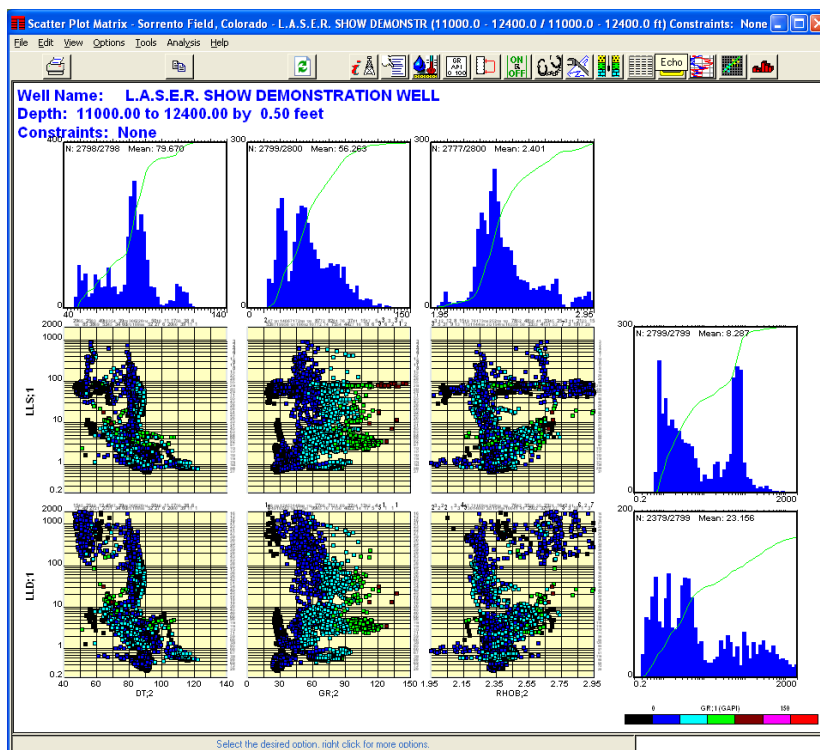
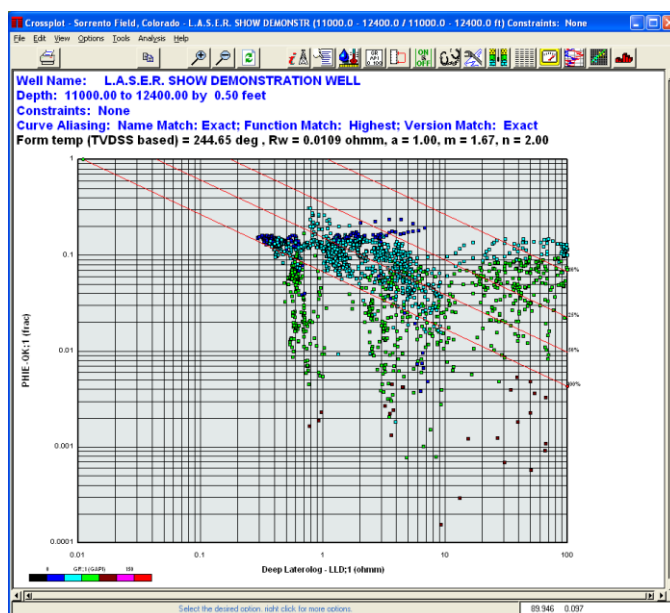
Options for analyzing Pressure vs Depth data, including gradient analysis. Pickett and Hingle plots for identifying Rw, MNP computation and crossplot. Several other industry specific plots available.

Support and Training

TERRASCIENCES provides immediate telephone and email support by trained earth science professionals. A regularly updated web site, electronic newsletter, and training courses are also available. All product upgrades are included in the maintenance and support fee.



- ✓ Data loading from all common formats including LIS, DLIS, LAS, LBS, and other ASCII files.
- ✓ Unlimited depth intervals, up to 10,000 wells per project.
- ✓ Crossplots – General, Z-plot, LDT, SP-Rwa, Pickett, Hingle, Thomas-Stieber, 3D and more.
- ✓ Multi well and multi zone capability.
- ✓ Statistical line fitting – linear and polynomial regression, RMA, Power, Exponential.
- ✓ Various display options including color coded contour plot, symbol and line, frequency and others.
- ✓ Color code points by well, zone, facies or lithology.
- ✓ Pressure – Depth plots with gradient analysis capability.
- ✓ Matrix of crossplots and optionally histograms.
- ✓ Allows for visualization of relationships between curves.
- ✓ Display logs with the crossplot and identify depth locations on crossplot or vice versa.
- ✓ Optional temperature gradient analysis including Horner plots.



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