Petroware

Log Studio

The advanced well log data management platform

APPLICATIONS

- Well log QC, editing and conversion
- Advanced well log plotting
- Real-time interpretation

FEATURES

- Extensive well-log format support (read/edit/export): DLIS, LIS, LAS 2.0, LAS 3.0, BIT, XTF, SPWLA, ASC, CSV, JSON
- Conversion between well-log formats
- Export well log data/plots to PDF, HTML, CGM, TIFF and Excel
- WITSML upload and download
- WITSML 2.0 and ETP support
- Integrated with Fluxens real-time and storage services
- Borehole image log support: Generic, FMI, NGI, STAR
- Real-time interpretation
- Integrated NPD access
- Virtual light-table
- Bulk conversion of well log files

BENEFITS

- Efficiency through simplicity
- Lightweight, self-contained
- Scaled for large data volumes
- Unit database based on Energistics standard
- Crossplatform support, available for Windows, macOS, Linux

Log Studio™ is a novel approach to geoscience software. The platform is developed in close collaboration with data management and petrophysical experts, ensuring high quality, fit-for-purpose functionality and a seamless user experience.

Well log file support

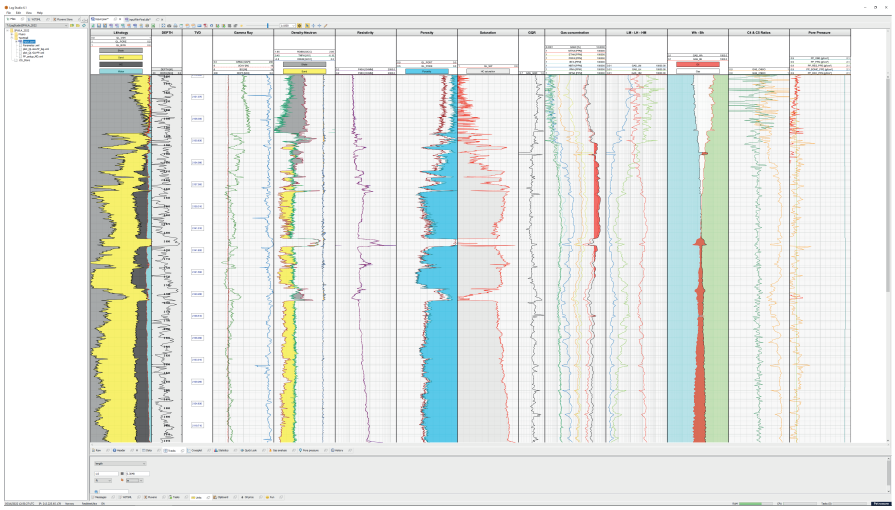
Log Studio includes high-capacity accessors for all commonly used well log formats. Convert between any well log format quickly. Edit and transform log sets using cell editing, unit conversion, resampling, subsampling, reindexing, time-to-depth, inversion, cropping, flattening, splicing, merging, curve insertion, curve filtering, smoothing, horizontal scaling, depth shifting, row manipulation, no-value handling and more.

Combine this with a unique macro engine with the full power of JavaScript making Log Studio a powerful petrophysical research platform.

WITSML

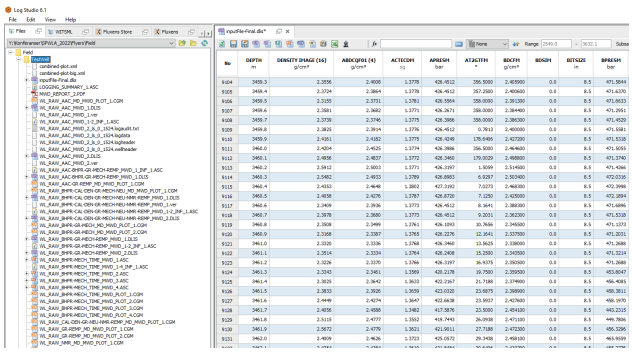
WITSML is the real-time standard for wellbore data defined by the independent Energistics consortium. Log Studio supports WITSML natively, and users may download/upload and convert log data as with any other file format. Besides well log data, Log Studio can be used to access all the different WITSML data types such as wellbore metadata, well trajectories, survey programs, target definitions, tubulars, drilling reports and more.

A powerful Quick Look module is available on top of WITSML enabling real-time interpretation of log data.

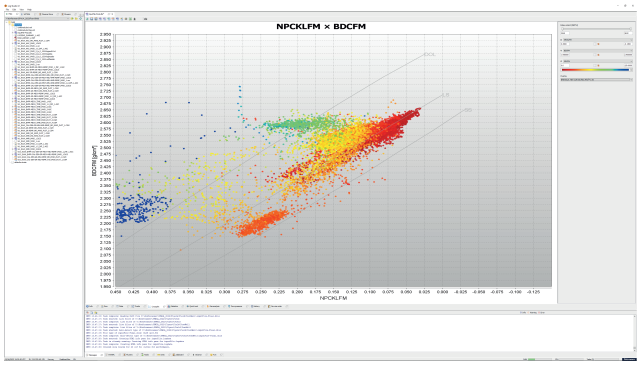


The Log Studio integrated environment with an example of its advanced well og plotting abilities.

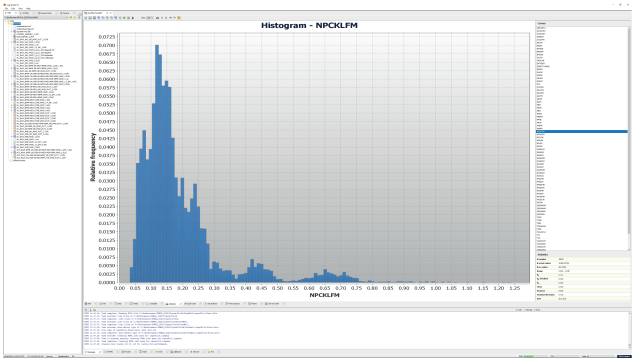
Log Studio



The Log Studio table view.



Well log data can be visualized in a number of ways. The example shows a simple scatter plot.



Well log data can be visualized in a number of ways. This example shows statistical analysis of well log data

Technology

- Advanced multi-threaded architecture
- Web communication through SOAP, WSDL and WebSocket
- TLS 1.2 for data communication integrity
- Advanced memory mapped I/O for fast access to multi-GB volumes
- WITSML 1.3, 1.4 and 2.0 support through JWitsml
- WITSML over SOAP or ETP (Energistics Transfer Protocol)
- JAI (Java Advanced Imaging) for manipulation and visualization of large images
- JavaScript for curve computation language and client plugins
- Highly customized track plots based on GeoToolkit™ from INT
- Web-prepared output based on HTML5
- Multilingual through translation text plugins
- Multiple Look & Feel themes
- Extreme execution reliability due to 24/7 real-time requirements
- Advanced execution logging mechanisms and self-diagnosis
- Runs on Windows, Linux, macOS
- Lightweight installer for single-click deployment

Log Studio as a platform

Log Studio is an ideal starting point for creating custom software applications within the downhole domain. It has powerful data accessors, high quality visualization, a sound and scalable architecture as well as all the common components needed to create a full-fledged modern software system.

Contact Petroware AS to explore further.

Petroware AS
Sjøhagen 3
N-4016 Stavanger
Norway

E-mail: info@petroware.no

Petroware