

TerraStation II Base System

TERRASCIENCES provides one of the most advanced, yet easy to use packages for the display and analysis of borehole data available today. You have the capability to perform anything from a simple quick-look analysis of a single well, to a detailed field study of several thousand wells. The TerraStation II Base System has functionality for a wide variety of users and disciplines, including geotechnicians, geologists, petrophysicists, reservoir engineers, sedimentologists and structural geologists. It includes the following capabilities and modules. It is a low cost entry point to which you can add the more sophisticated modules of the rest of the TerraStation II software family as you need them.

Data Preparation and Quality Control

Data can be loaded from industry standard data sources, including LIS, DLIS, LAS, and ASCII files. A library of curve utilities and functions are at your disposal to QC your data. These include graphical displays to allow interactive curve splicing, curve editing, baseline shifting, normalizing and much more. Directional surveys can be loaded and TVD, TST and TVT computed. A synthetic curve generation utility is also provided.

Curve data can be loaded at different increments and even as 'irregularly sampled' allowing data to be located at its precise depth location.

Project Data Management Tools

Projects can be constructed with up to 10,000 wells. Tools are provided for the bulk import of log data, loading of well locations, geopolitical data, and a variety of secondary data types such as core data, photographs, lithology descriptions, dip/azimuth data and more.

Mapping

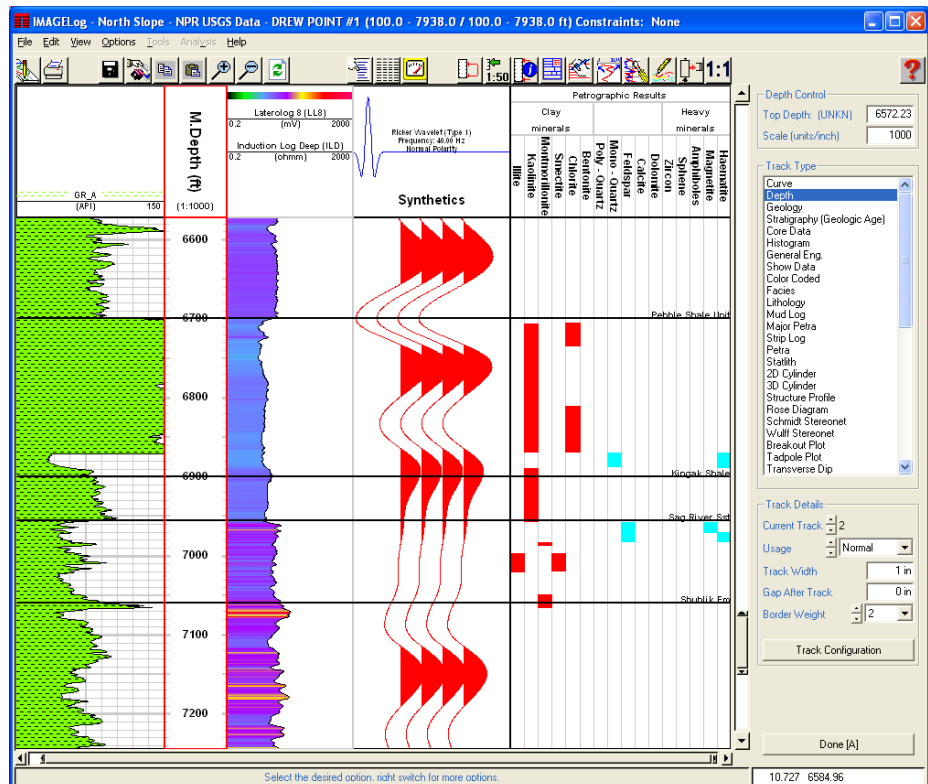
Base maps of well locations can be generated. This includes bubble maps and curve profile maps.

Log Display and editing

Borehole correction and data normalizing capabilities are provided. Crossplots, histograms, bar graphs and ternary diagrams are available in single or multiple well modes.

Composite Log Displays

TerraStation II provides a highly flexible, composite well display generation capability. These composite display "templates" can also be used in cross sections when combined with the optional Correlation module. Over thirty types of tracks are available, including curve tracks, depth reference tracks, lithology, well history, geological time scale, core photographs, text comments, synthetic seismograms, SCAT, hole shape and many more.





Dipmeter Analysis

Stereonet analysis module provides Schmidt and Wulff nets for plotting and analyzing of dip/azimuth data. SCAT plots and cumulative dip displays are also provided. Mohr diagrams for critically stressed fracture analysis are available.

Pressure Modeling & Stress Analysis

Compute overburden, hydrostatic and pore pressures. Critical mud weights computed. Generates rock moduli, UCS and Brittleness Index. Stress analysis plots provided for detailed analysis of stress regime.

Multi well, multi zone processing

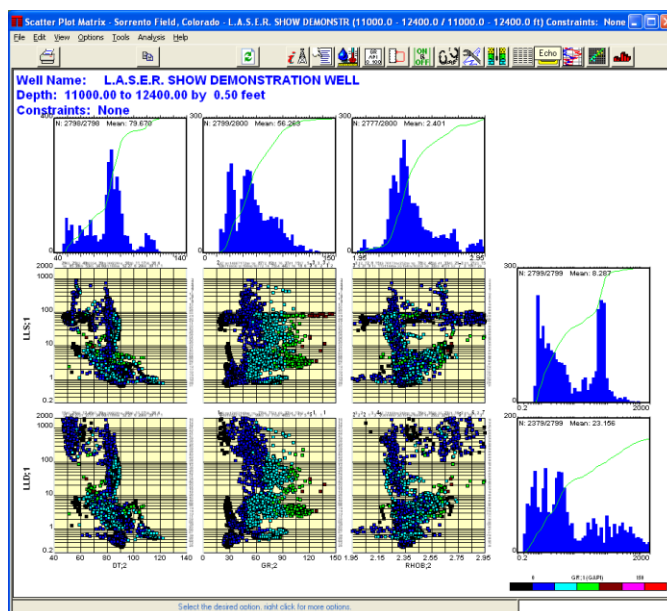
Using our well collection capability well collections can be built, saved, and restored. Many of the display capabilities provide multi-well display capability. Well collections can also be used for crossplot, histogram, ternary, and bar graph displays.

Graphical Output

The Base System allows graphical output in CGM, PDF, EMF, PostScript, BMP, JPEG and HPGL/2 formats.

Data Export

Well data can be exported in a variety of formats including LAS, DLIS, and LIS, as well as ASCII file formats.



Optional Modules that can be added

TerraStation comprises a wide variety of modules that can be added to the Base System. These include:

- Borehole Image Processing and Speed Correction
- Borehole Image Analysis and Display
- Sonic Waveform Processing
- Deterministic Petrophysical Analysis
- Probabilistic Petrophysical Analysis
- Petrophysical Programming Module (TCL)
- Advanced Statistical Analysis of log data

- Contouring and Geostatistics
- Correlation and Cross Sections
- DEXTR – Map data from well log data
- Synthetic Seismograms
- Permeability – Flow Unit Analysis
- Organic Geochemistry from Wireline
- Fault Seal Analysis

Contact your nearest TERRASCIENCES sales representative for more information and pricing.

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.

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