Geolog™ 19 is the newest version of Emerson E&P Software’s industry-leading solution for formation evaluation and petrophysical analysis. This release expands the advanced capabilities available in Geolog, including new views that provide a holistic view of information with unprecedented speed, new modules that enhance ease of use, and greater connectivity to third-party applications.

**Easy exploration and visualization of data using new viewing tools**
Geolog has a powerful multi-well database that is able to handle large numbers of wells at a level of efficiency that is unmatched in the industry. New tools in Geolog 19 make it even easier to interactively find, visualize, and process data across a large well database, and efficiently display reports in a variety of formats.

A new Query view allows users to create queries for data across multiple wells, intervals and sets. Results are presented as a table that can be either saved in the well database or exported in text format. Queries can be saved for future reuse.

A new Timeline view provides an interactive visual representation of the main operational activities that are completed, in progress, and proposed on a given well. The unified view allows easy visualization and assessment of the operational history and planned activities for each well. This information helps geologists, petrophysicists, and engineers perform their daily tasks, and enhances collaboration between them throughout the different stages of the well’s life cycle.

**Streamlined processing and interpretation of acoustic waveform data**
The Geolog Full Waveform Sonic processing functionality menu has been reorganized and enhanced, with additional data preparation modules grouped by vendor acoustic tools, modules that combine typical tasks, and predefined layouts. Together, they improve ease of use when processing and interpreting acoustic waveform data.

**Safer drilling and better completion decisions based on mud gas analysis**
A new Mud Gas Analysis module has been added to the Geolog Determin petrophysics product suite. It enables the computation of several output logs and flags, such as Pixler flags and gas ratio curves using gas chromatography inputs. The analysis provides key information about hydrocarbons present in drilled formations, and allows safer drilling through early detection of gas kicks and lost circulation.

**Greater flexibility in setting up a real-time geosteering environment**
Real-time data in WITSML format can now be streamed directly into the Geolog Geosteer module. Data files stored on disk in WISTML format can also be loaded through Geolog’s File Importer module, enhancing user flexibility when setting up a real-time geosteering environment.
Geolog 19

Expanded customization and connectivity
Geolog connects to all of the latest versions of Petrel, up to and including Petrel 2019. Equations from Geolog can be translated into Roxar™ RMS, SKUA-GOCAD™, Python, Petrel and Excel formats. A Python package is now provided with the Geolog installer, so that no separate download or installation is required for users wishing to create Python scripts in Geolog. Python expands access to multiple libraries that can be used for advanced statistics, Machine Learning, and data analytics. Python Loglans can be compiled for faster execution, better security and less risk of unwanted changes to code.

Interoperability
In this release, Geolog connects to all of the latest versions of Petrel*, including Petrel 2019 (* a mark of Schlumberger).
All Epos™-based applications enable interoperability with third-party data stores, including:
- OpenWorks® R5000.10
- GeoFrame® 2012
- Recall™

System specifications
- 64-bit Red Hat® Enterprise Linux® 6.8 and subsequent minor releases, and 7.1 and subsequent minor releases
- Microsoft® Windows® 7, 8.1, 10 (64-bit)

The Emerson E&P Software Advantage
- Vendor independence gives users the freedom to choose the best tools for each task, with no conflict of interest.
- Fully scalable and customizable, Geolog meets the needs of users, from generalist geologists, to expert petrophysicists, to engineers working in field development.
- An intuitive, interactive, Windows-style interface optimizes usability and ensures a short learning curve.
- Integration with other Emerson E&P Software products provides access to a full range of industry-leading solutions.

Mud Gas Analysis provides key information about hydrocarbons present in drilled formations.

Vendor-independent waveform sonic processing enables faster decision-making through fewer workflow steps and more automation.

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