

# PetroMod 1D Software

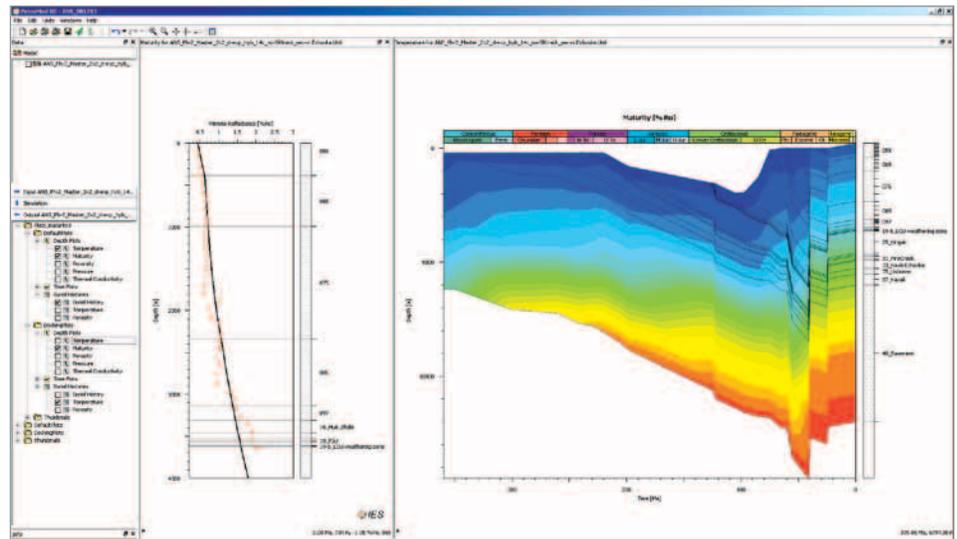
Modeling and calibration of single-point data

PetroMod\* petroleum systems modeling software combines seismic, well, and geological information to model the evolution of a sedimentary basin. PetroMod software will predict if, and how, a reservoir has been charged with hydrocarbons, including the source and timing of hydrocarbon generation, migration routes, quantities, and hydrocarbon type in the subsurface or at surface conditions.

With PetroMod 1D, the user gains

- a quick 1D analysis tool with fast data access
- a calibration tool for 3D models providing access to all modeling features, including statistics
- a 1D viewer along wells and single cells of interest with sophisticated plots and multiplot handling
- a teaching tool for beginners with a well-structured workflow.

PetroMod 1D can be used as a standalone tool, or as a fully integrated component of the PetroMod 2D and 3D packages. PetroMod 1D enables single-point data (wells and pseudo-wells) to be constructed from scratch, imported from the PetroMod Well Editor, or extracted directly from PetroMod 2D and 3D models. Calibrated wells with calibration results such as heat flow trends can then be used directly by the 2D and 3D simulators, so that calibration work can be used much faster in all packages. PetroMod 1D has input, simulation, and output in one application. Choose between overlays and plots (depth, time, and burial), and display input and output next to each other, making it easier to prepare for presentations.



*PetroMod 1D interface with depth plot and burial history plot.*

In addition, PetroMod 1D software

- is available on all hardware platforms running Microsoft® Windows® Vista® (64-bit), Microsoft Windows 7 (64-bit), or Red Hat® Enterprise Linux® 5.3 (64-bit) operating systems
- features easy-to-use functionality with an intuitive interface
- provides a complete range of specialized tools for salt, igneous intrusion, and thrust modeling
- integrates with the PetroRisk\* risk management system module of PetroMod software—this system enables uncertainties in the geologic data to be defined and their effects on the outcome of the simulation to be quantified and statistically evaluated.

### Advanced integration

PetroMod software provides a standardized user interface across the entire 1D, 2D, and 3D software suite. It uses the same simulators in 1D, 2D, and 3D; all technical features and tools are available and identical in all dimensions, ensuring full compatibility across the suite.

### Schlumberger Information Solutions

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