**PETRASIM V2015**

Solve Challenging Subsurface Flow Problems with PetraSim, the Graphical User Interface for the TOUGH Family of Simulators

PetraSim Applications Include:

- Vadose zone hydrology, including soil vapor extraction and steam injection.
- Fate and transport of volatile organic compounds.
- Performance assessment of nuclear waste repositories.
- Geothermal reservoir studies.
- Carbon sequestration and hydrocarbon recovery.
- Methane hydrate dissociation and recovery.
- Design and analysis of laboratory and field experiments.

With PetraSim you can:

- Create TOUGH, T2VOC, TMVOC, TOUGHreact, TOUGH2 MF and HydrateResSim simulations.
- Create complex flow, reactive transport and heat transfer models.
- Dramatically reduce TOUGH model creation time and eliminate input errors.
- Interactively create and edit 3D and axisymmetric grids.
- View graphs of relative permeability and capillary pressure functions.
- Use dialogs to define solution and output controls.
- Seamlessly run TOUGH2 using the executes integrated into PetraSim.
- Graphically monitor the solution progress.
- Display 3D iso-surfaces, vertical and horizontal slices, and contour plots.
- Create time history plots of individual cell results.
- Use line plots to display results along any 3D line or well trace.
- Define irregular model boundaries and grids using Voronoi tessellation.

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