Pipesoft-2™

Steady-state flow simulation

Simulate flow and heat transfer in well/pipeline/facility networks.

"With Pipesoft-2, I can develop any network simulation study without any problem. The working environment makes it a snap by guiding you through the process of building any network design."

— Victor Hugo Mejia Cordova,
Gerencia de Sistemas de Producción, PEMEX

The Source
for Critical Information and Insight™

Optimize production with an easy-to-use, visually based fluid-flow simulator

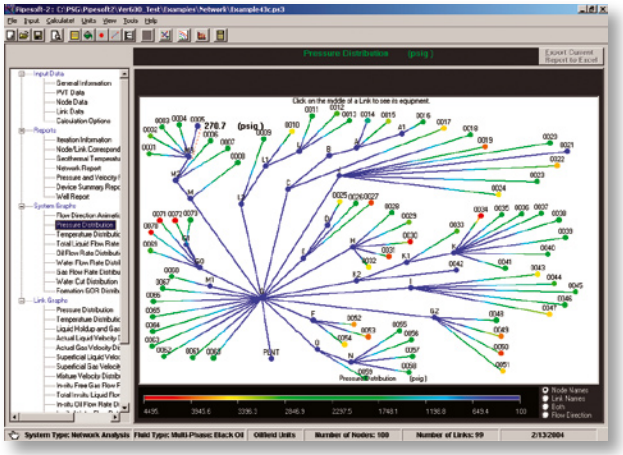
Go beyond single well analysis with **Pipesoft-2**, a steady-state flow simulator for single-, or multi-phase fluid systems. The software simulates single-, and multi-phase flow and heat transfer in wells, pipelines, and production or injection systems. The "Dynamic Visualization" capability for multiple parameters enables engineers to gain added insight into system behavior.

Model one well, or a network

Pipesoft-2 is the ultimate tool for production and facilities engineers, boasting a variety of capabilities that enable efficient system modeling and optimized production.

You can design and analyze one well, flowline or pipeline, or any combination that exists as a network. Networks can have complex loops. A single network can include both the surface network and multiple wells, each with a complex downhole multilateral configuration.

In short, you can model for single-, or multi-phase flow for virtually any fluid—all with one tool.



Color-coded pressure distribution in a field.

Determine the need for artificial lift

Production from wells is interconnected, and adding artificial lift to one well requires that the impact on the whole system be known. With **Pipesoft-2**, you can see, for example, the impact on field production from adding gas lift in one well.

Proven software —— now with an intuitive user interface

Pipesoft-2 is built on a solid foundation, preserving the original functionality of Chevron's Pipeflow2, which represented decades of research, development and field usage.

IHS has added a highly visual user interface, as well as continuous enhancements in simulation functionality. Capabilities not found in other simulation systems include:

• "**Dynamic visualization**" — **Pipesoft-2** displays system-level results with color-coding, which provides an immediate visual understanding of the network(s) being studied. Color-coding is keyed to parameters such as pressure, temperature, watercut, and rates.

The entire flow system can be observed on one screen in a dynamic animation mode, including flow direction.

Pipesoft-2's unique color-coded display of pressures, capacities and flow rates makes it the most intuitive system troubleshooting tool available.

• **Three network solution methods** — Many simulation products cannot solve networks with complex loops, or offer only one method of network solution. **Pipesoft-2** offers three network solution methods: PBAL, QBAL and DYNER. The three network solution methods save engineers significant time by allowing them to quickly model a variety of network configurations with ease.

• **Intuitive user interface** — **Pipesoft-2** features an easy-to-use interface that lets users grasp the program quickly, ensuring that engineers actually find the program fun to use, mazimizing your company's investment.

• **Modeling of simultaneous flow** — **Pipesoft-2** enables modeling of simultaneous flow in tubing and tubing-casing annulus.

• **Wide range of fluid types** — **Pipesoft-2** accommodates virtually any fluid type you encounter, including steam, non-Newtonian fluids, gas condensate, black oil, compositional and single phase (oil/gas/water).

• **Comprehensive equipment list** — The software includes pipes, tubing, pumps, fittings, chokes, gas lift valves, separators, component separators, amine units, compressors and more, so you can model practically any common production facility.

• **Flow tables linked to reservoir simulators** — Allows easy import of flow tables that represent flow rates or boundary nodes (wells, sources and sinks). Import them directly into commercial reservoir simulators for a more rigorous simulation.

• **Flow assurance** (scales, hydrates, slugging analysis, well unloading) — By predicting fluid composition, **Pipesoft-2** supports key decisions regarding stripping out liquid or injecting inhibitors.

• **Link to decline curve analysis** — Allows you to import production information to create a decline curve and perform production forecasts.

• **Import pump and well performance curves** — Import submersible pump curves directly from **SubPUMP**®, the IHS single, concise source for quick electric submersible pump (ESP) design and analysis. Also import well performance data, flow rate vs. pressure drop, from **PERFORM**™, comprehensive IHS software for oil and gas nodal analysis.

• **Spreadsheet display option** — For cases involving hundreds of devices, the software includes an optional spreadsheet-style input form to save you time.

• **Other powerful features** — Case study with up to 15 cases, multiple fluid PVT data, and dynamic units change and pressure calibration for single wells and flowlines.

Support and training

Free support for the first year included. Continuing support upon contract terms. Training available. Option of software or hardware security.

For more information

Free demo CD and trial available. For more information on **Pipesoft-2** and the Producing Systems Group, visit **ihs.com/energy/psg**, contact **sales.psg@ihs.com** or call **1.972.705.0402** (voice) or **1.972.783.0058** (fax).

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