

AsphWax Simulators

AsphWax computer models are capable of simulating phase behavior, multiphase hydraulics, and heat transfer, all with and without wax crystallization and asphaltene flocculation and deposition in the reservoir and subsurface & surface facilities.

1 Phase Behavior

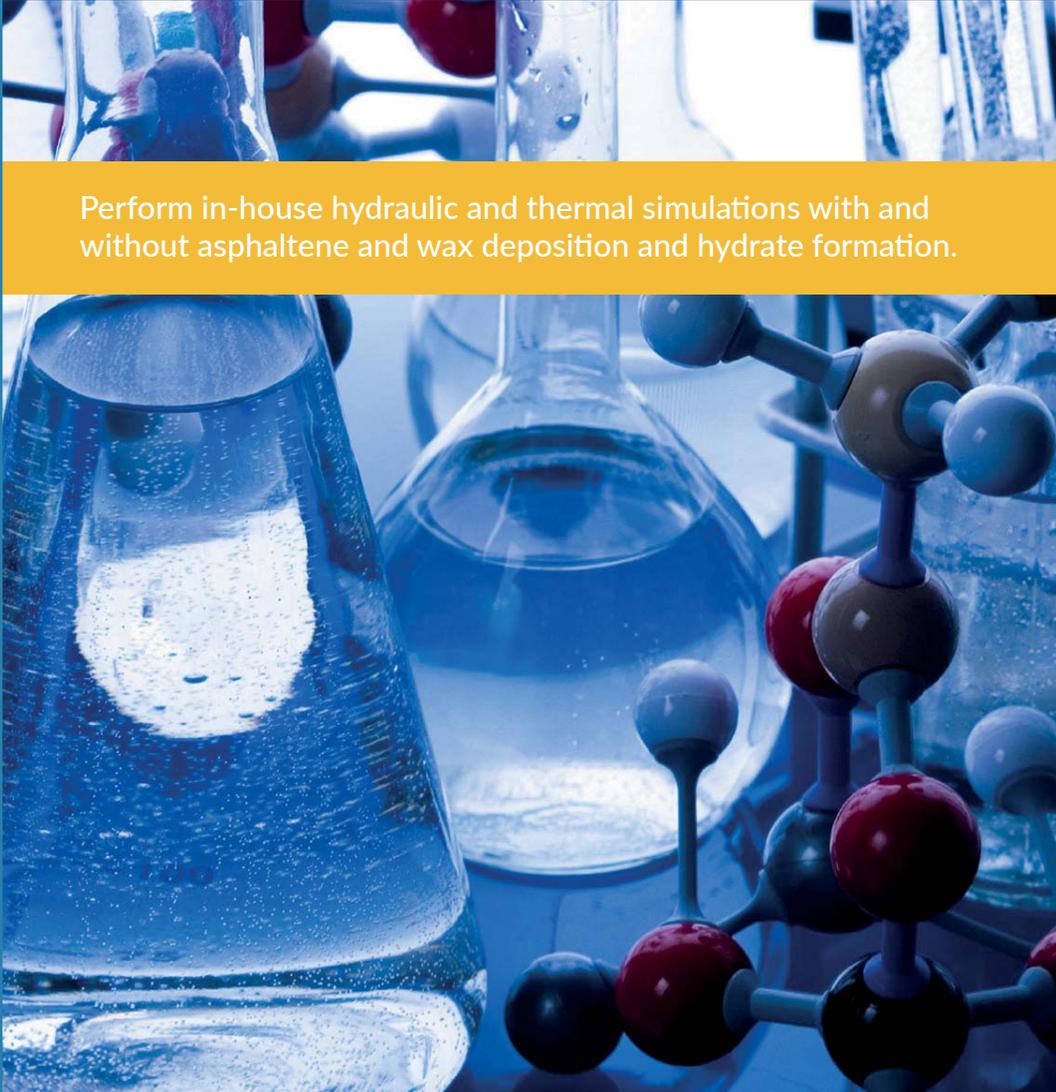
Simulate and predict Gas / Liquid / Solid phase behavior (both wax and asphaltene).

2 Multiphase Hydraulics

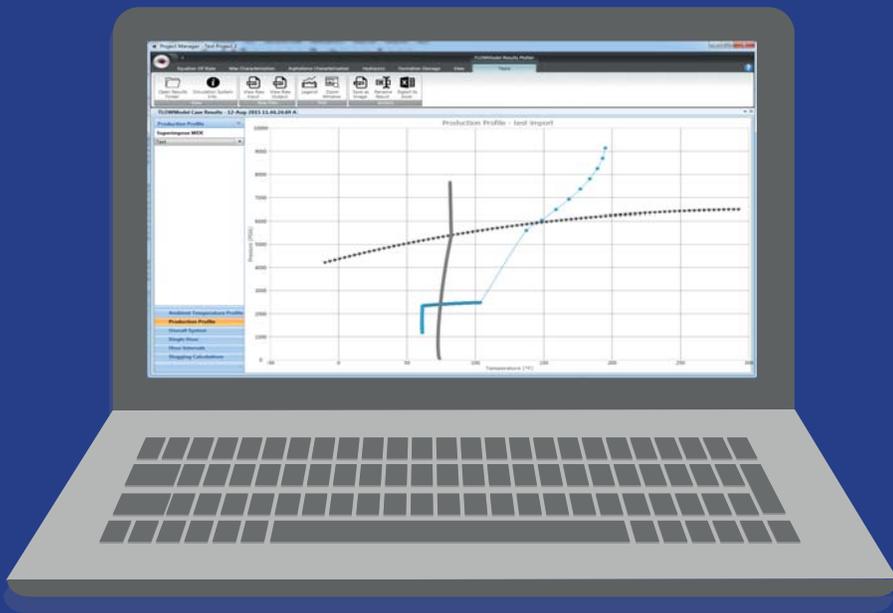
Simulate and predict hydraulic conduits with and without wax crystallization and deposition, with and without asphaltene flocculation.

3 Formation Damage

Develop an asphaltene phase behavior characterization and simulate and predict formation damage and skin.



Perform in-house hydraulic and thermal simulations with and without asphaltene and wax deposition and hydrate formation.

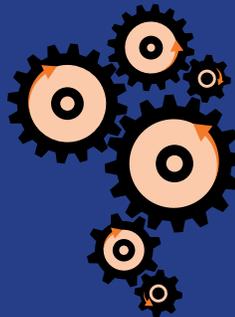


➔ Visualizing the data in a manner that will extract the maximum amount of information is the key concept for the new AsphWax Simulators interface.

➔ The interface design is modern, following all the latest graphic user interface trends, making the user experience flawless.

With implementations from an array of major publications, our simulators are advanced, diverse and state of the art. Equations of state such as Peng-Robinson (PR) and Soave-Redlich-Kwong (SRK) are implemented. Also, multiple multiphase

correlations both on the vertical and horizontal direction are available. The wax deposition mechanics are based on a rigorous, solid mathematical model which, if coupled with our cold finger technology, produces reliable and representative results.



- 01 Aziz, K., Govier, G.W. and Fogarasi, M.
- 02 Beggs, H.D. and Brill, J.P.
- 03 Orkiszewski J.
- 04 Flanagan - Dukler, A.E.
- 05 Mukherjee, H. and Brill, J.P.

Our approach to fluid characterization is based on experimental laboratory data. Depending on the type of simulation that needs to be achieved, a multitude of options is available to choose for fluid characterizations. From a black oil simple two component, to a five component (which includes wax and asphaltenes) allowing for full depositional multiphase hydraulics and formation damage modeling, to any custom component characterization (up to 100 components!). All available with a few simple steps.



1 Modern Interface

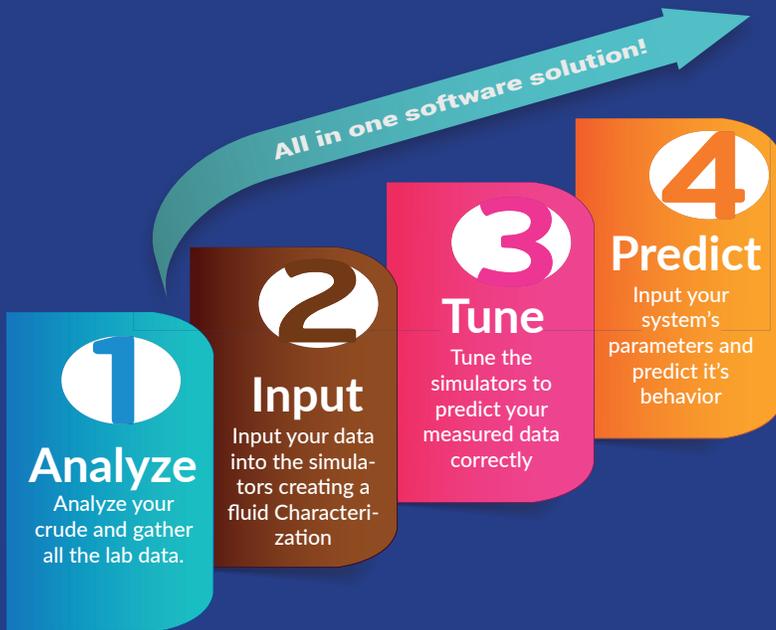
New, state of the art, unique, application driven interface makes simulating easier than ever.

2 Powerful Engine

Our simulators have industry leading algorithms and correlations making them among the best in simulating and predicting.

3 Versatile Fluid Characterization

There are multiple options for fluid characterizations, from just black oils to powerful 22 component.



4 Streamlined Integrated Process

Reaching the goal of getting the important answers is straightforward and all in one application.



Save Time

By using just one software suite to simulate your fluid from phase behavior to full blown multiphase hydraulic simulations you save time transferring files, exporting and making "compatible" between the different software.



Save Money

The AsphWax simulators allow for flexibility of licensing. Being able to bundle everything in one suite, allows for huge savings on licenses and restrictions.

<p>01</p> <p>Basic</p> <p>Includes Equations of State and hydraulics.</p>	<p>02</p> <p>With Wax</p> <p>Includes the basic package plus wax phase behavior and deposition.</p>	<p>03</p> <p>With Asphaltene</p> <p>Includes the basic package plus asphaltene phase behavior and deposition.</p>	<p>04</p> <p>All Inclusive</p> <p>Includes all packages 1-3.</p>
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5 Multiple Licensing Options

Multiple licensing options available to meet all your needs, from very basic EOS and hydraulic modeling to advanced deposition and formation damage.



We will stand behind our software and support you in any problems you might encounter or help you might need. We even offer in-house or remote training to help you get started.

6 Unparalleled Support

We will always support our product and help you through any problems.



Contact for Demo

Contact us for a complimentary risk free 30-day demo of our simulators. We are confident that our product will solve all your modeling needs.



Pinpoint your problems

Explore different scenarios and predict your problems and areas of interest.



Let us help you

We are always here to help you with our software and the development of a fluid characterization and simulation.



Visualize your system

By running the AsphWax simulators you can predict and visualize what your system's hydraulics will look like.

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AsphWax Simulators

Do not just calculate, visualize.