

PERFORM™

PERFORM Software Brings Accuracy,
Reliability to Well Analysis



The Source
for Critical Information and Insight™

Case Study

Business Benefits

- PERFORM is Mogensen's application of choice for its affordability, ease of use and rich functionality, which has evolved over years of continuous innovation.
- For multi-phase wells, Exploitation Technologies uses PERFORM to evaluate changes in pressures with different tubing sizes to find the point at which all phases unload evenly. This analysis is essential to providing accurate recommendations to clients.

Customer Profile

Exploitation Technologies Inc., based in Calgary, provides E&P consulting to oil and gas companies worldwide. From optimizing wellbore systems, surface gathering networks and compression, to well test design and analysis and reservoir simulation, the firm offers technology-based solutions to help clients understand and maximize the value of their properties.

Business Challenge

As a consultant, Exploitation Technologies' top priority is providing accurate recommendations to clients, who rely on the information to support key decisions and investments. To assist clients in making decisions on issues such as tubing size in wells – a factor that can significantly affect well performance – the firm needs efficient and reliable tools for modeling well, pipeline, flowline and gathering networks on naturally flowing wells.

The IHS PERFORM Advantage

Arvil Mogensen, a partner at Exploitation Technologies and an engineer with more than 30 years of experience, has relied on IHS PERFORM software for a number of years. The well-performance software, which has become the world standard for NODAL analysis, enhances his capability to model well completions to identify potential opportunities for production improvement.

PERFORM lets Mogensen analyze vertical, multi-lateral and injection wells with a variety of methods, including gradient analysis, coiled tubing calculations, gaslift optimization, heat transfer and flow assurance calculations. This software uses equations, correlations or mechanistic models to determine pressure and temperature changes as a function of flowrate.

Mogensen primarily uses the software for evaluating both oil and gas wells for his work in North America, as well as

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Arvil Mogensen, Partner – Exploitation Technologies

for his international clients. Mogensen says PERFORM includes functionality that allows him to combine results from well test analysis, together with the physical description of the well completion, allowing him to differentiate the magnitude effect of inflow and outflow.

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PERFORM includes features that allow you to model just about any well completion. The many correlations and mechanistic models available within PERFORM give Mogensen confidence he is giving his clients answers to act on that they can trust. “It is really an issue of accuracy and reliability,” he explained. “When your client invests time to collect data necessary to perform an investigation, and then I take time to build a model, we both expect the model to give us reliable and accurate answers.”

In addition, PERFORM’s link to PVTLIB™, another IHS product, allows Mogensen to use a compositional fluid description, or choose from any one of more than 150 blackoil correlation descriptions from around the world. PERFORM also links to Pipesoft-2™, a well/flowline network product from IHS that allows users to do detailed well analysis in PERFORM and export the results for a field-level analysis in Pipesoft-2.

Moreover, Mogensen values the software’s affordability, ease of use and regular model upgrades. He finds the model menus logical and intuitive to the extent that it is scarcely necessary to ever reference the user manual. Plus, as a mature application, PERFORM’s functionality has been fine-tuned by years of practical input from users and continuous product development by IHS.

“IHS has taken the time to ensure they have leading-edge technology in the product, which is very important to me,” he added.



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