FiberView™ Software

PROVIDES REAL-TIME FIBER-OPTIC DATA VIEWING AND ANALYSIS FOR COMPLETION, WELLBORE, AND RESERVOIR EVALUATION

FiberView™ software provides operators with a complete suite of applications to view and evaluate fiber-optic results that range from distributed temperature sensing (DTS), distributed acoustic sensing (DAS), pressure gauge and treatment data, as well as log results across the wellbore.

OVERVIEW

FiberView software provides operators a platform for viewing fiber-optic results in order to make critical well decisions that will influence overall performance and efficiency. Halliburton has deployed fiber optics in wells globally in markets ranging from unconventional, thermal, and mature fields, to offshore. The applications range from stimulation monitoring and production flow profiling to well integrity evaluation and cross-well-interaction monitoring.

Making real-time decisions on site can be critical to overall well performance and production optimization when gathering and evaluating fiber optic results. FiberView software provides a medium to view all fiber-optic data gathered on a specific well and to compare these results to other critical well information, including completion design, logging results, and pressure and temperature gauge results, as well as treatment and production information in a single application. Having the ability to view and analyze the fiber-optic results in this manner will save time and money by helping operators make quicker decisions that will positively impact well performance and also accelerate the engineered learning curve for broader asset development.

APPLICATIONS

» Permanently deployed fiber optics
» Pumped fiber applications
» Coiled-tubing-enabled fiber optics
» Wireline-enabled fiber optics
» Slickline-enabled fiber optics
» Pipeline monitoring

BENEFITS

» Provides viewing along the entire length of the wellbore
» View fiber-optic results side by side with other diagnostic data
» Real-time analysis capability
» Real-time decision-making capability

FEATURES

» Distributed temperature sensing (DTS)
» Distributed acoustic sensing (DAS)
» Point pressure and temperature display
» Display completion design
» Display pumping or treatment curves
» Display log files adjacent to fiber-optic results
» Display other time-based plots relative to fiber-optic results
Specifications

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Windows Server, Windows 8</th>
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<tr>
<td>Installation Capability</td>
<td>Laptop, CPU, Server (multi-user)</td>
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<table>
<thead>
<tr>
<th>DTS spatial resolution</th>
<th>1 meter</th>
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<tbody>
<tr>
<td>DTS sampling rate</td>
<td>10 seconds</td>
</tr>
<tr>
<td>DAS spatial resolution</td>
<td>1 meter</td>
</tr>
<tr>
<td>DAS sampling rate</td>
<td>10 kHz</td>
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HOW IT WORKS

Fiber optics can be deployed into a wellbore through several different conveyance methods. These include fiber optics being permanently deployed on the outside of casing or tubing, slickline or wireline conveyed, as well as coiled tubing conveyed. Once in the well, the fiber results can be used to evaluate the complete well life cycle. This ranges from stimulation and production profiling all the way through well integrity evaluation to plug and abandonment. FiberView software is available to pull all these data into a single package. In real time, the software can pull in these results and display them to the operator on the wellsite, or push the data back to an office location. This software package is also available for distribution to the operator so that multiple users can access and evaluate the fiber-optic results in more detail.

ADVANTAGES

FiberView software is not just a fiber-optic viewing and analysis platform. This software allows the operator to pull across other data sets and view them adjacent to the fiber results in order to make more confident decisions that will immediately impact well performance. The views within the software are entirely customizable by the user. This allows for better understanding and evaluation of the data and the results. The most critical benefit that fiber optics brings to the oil and gas industry is viewing an entire well at high spatial sampling in real time, and the right software is required to get the most out of this advantage. FiberView software pulls all these industry needs together into a single package.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com.