

# Transform your fiber-optic data into operational intelligence

## SureVISION fiber-optic monitoring and analytics platform

Making critical operational decisions in wells with complex flow and completion behavior is challenging when relying on sparse data, delayed logs, or indirect indicators. The **SureVISION™ fiber-optic monitoring and analytics software platform** from Baker Hughes converts Distributed Acoustic Sensing (DAS) and Distributed Temperature Sensing (DTS) data into continuous, real-time wellbore intelligence.

By combining physics-based flow allocation with AI-enhanced analytics in a scalable edge-to-cloud platform, SureVISION enables operators to monitor, interpret, and optimize well performance as it happens.

The SureVISION platform has been validated against simulated flow-loop testing and actual operational field data from injection and production, including single-phase and multiphase flows. The results demonstrate the platform's ability to enhance well understanding of subsurface conditions, optimize operations, and support confident decision-making throughout the well lifecycle.

### Expand visibility across the full wellbore

Conventional gauges and logging tools often leave critical blind spots that limit diagnostic confidence. The SureVISION platform provides continuous real-time DTS and DAS sensing across the full wellbore, with high spatial and temporal resolution that improves visibility into downhole conditions and enhances diagnostic accuracy.

### Make proactive decisions based on full datasets

Delayed or sparse datasets often confine operators to post-event analysis. SureVISION provides real-time operational monitoring and optimization by detecting leaks, flow changes, and operational anomalies early, enabling faster decisions that help minimize these threats before they escalate into downtime or deferred production.

### Gain deeper treatment insights

The platform's real-time monitoring and post-treatment evaluation of hydraulic fracturing, stimulation, and

### Applications

- Flow allocation in injection and production wells
- Evaluation of hydraulic fracturing, simulation, and injection treatments
- Live operational monitoring and on-the-fly optimization
- Quantitative three-phase production profiling (water-oil-gas)
- Noise logging and acoustic diagnostics

### Benefits

- Make faster, more confident flow allocation decisions
- Lower treatment risks and improve treatment effectiveness
- Proactively optimize operations with less downtime
- Reduce diagnostic and intervention costs
- Deploy fiber optic monitoring asset-wide without vendor lock-in
- Improve collaboration and decision-making across field and office teams

injection treatments help assess fluid placement, treatment effectiveness, and stage-by-stage response, supporting better treatment outcomes.

### **Reduce diagnostic-related intervention costs**

Using non-intrusive acoustic diagnostics, SureVISION identifies completion, flow, and mechanical events without the need for production logging tools (PLTs), frequent wireline runs, or well interventions. The result is lower operational costs, reduced risk, and fewer disruptions to production.

### **Accurately allocate flow in complex wells**

The SureVISION platform's continuous DAS- and DTS-based flow allocation delivers zonal insight throughout the well lifecycle, from completion and stimulation through production optimization and late-life surveillance. Operators can pinpoint where fluids enter or leave the wellbore, reducing uncertainty and reliance on intermittent logging programs or assumptions.

### **Identify flow and mechanical events along the wellbore**

The SureVISION platform's DAS-based noise logging and acoustic diagnostics help identify flow paths,

leaks, crossflow, valve activity, and mechanical events along the wellbore, enabling faster diagnosis and more informed operational decisions.

### **Optimize treatment effectiveness**

The platform provides near-real-time feedback during and after treatments, enabling teams to adjust execution while it still matters, avoid ineffective stages, reduce the risk of wasted treatment costs, and improve stimulation performance.

### **Make faster decisions by aligning teams around the same data set**

The SureVISION platform provides real-time DAS and DTS visibility, both locally and remotely, enabling field and office teams to work from a shared understanding of well conditions and make faster, more coordinated decisions.

### **Scale intelligence across assets**

The platform's AI-enhanced workflows reduce dependence on labelled datasets and continuous manual interpretation by domain experts, while enabling consistent, repeatable interpretation workflows across wells. This supports scalable deployment

across assets and portfolios without a proportional increase in specialist resources.

The SureVISION platform enables customers to reuse existing fiber-optic infrastructure and interrogators, reducing integration risk, avoiding vendor lock-in, and enabling asset-wide scaling without re-tooling or re-instrumentation.

### **Validate before deployment**

The SureVISION platform goes beyond software, offering advanced bench-top and flow-loop testing capabilities that help design and validate distributed fiber-optic operational procedures before field deployment, reducing risk and maximizing value from fiber-optic jobs.

**Contact Baker Hughes today** to learn how the SureVISION can help transform distributed fiber-optic sensing data into operational intelligence across your assets.