xSight smart intervention optimization and orientation services

Improve certainty and reduce NPT with real-time downhole insight

Applications
- Fishing
- Milling
- Whipstock casing exits
- Packer and well barrier setting and retrieval
- Wellbore cleanup
- Torque-and-drag model verification

Features and benefits
- Real-time downhole sensor data
  - Increases job efficiency through immediate detection of dysfunction
  - Reduces uncertainty and mitigates risk of NPT by communicating weight, torque, bending moment, pressure, temperature, and vibration data
- Tension/compression data
  - Confirms tool or fish attachment to avoid wasted trips
  - Provides accurate overpull readings to help avoid NPT
  - Provides confirmation of jarring
  - Accurately relates potential scraping friction problems during wellbore-cleanup runs
- Torque, compression, equivalent circulating density, and RPM readings
  - Improve milling efficiency
  - Help with early detection of packoff
  - Reduce the risk of prematurely damaging mills
  - Improve efficiency during section milling and whipstock exits
- Combined orientation, optimization, and CCL capabilities
  - Enables single-trip whipstock casing-exit operations
  - Improves reliability and cuts costs

xSight™ smart intervention optimization services provide real-time data from downhole sensors during pipe-conveyed wellbore intervention operations. The xSight service offers critical downhole mechanical and dynamic parameters such as weight, torque, bending moment, pressure, temperature, and vibration levels. This data helps you make adjustments to optimize intervention operations. The data is displayed at the rig floor and may also be sent offsite if you are interested in real-time advisory services from our **BEACON™ remote operations support center**, or for immediate review at your office.

In deep or highly deviated wells, surface gauges do not adequately reflect downhole reality. Friction over the length of the drillpipe changes how forces at the bottom of the hole are reflected at the surface. The xSight optimization service solves this problem by placing gauges at the end of the toolstring, giving you clear insight into what is happening downhole.

xSight optimization services combine well intervention tools such as mills, fishing tools, and wellbore cleanup tools with bi-directional downhole communication technology to provide real-time actionable data to the rig site. Having live downhole data gives you a sense of touch that is impossible to obtain with surface gauges alone. With accurate data, you can improve certainty and accuracy, and help drive down nonproductive time (NPT). xSight services can increase an your success rate under the most challenging downhole conditions, reducing runs, improving results, and ultimately helping control costs.
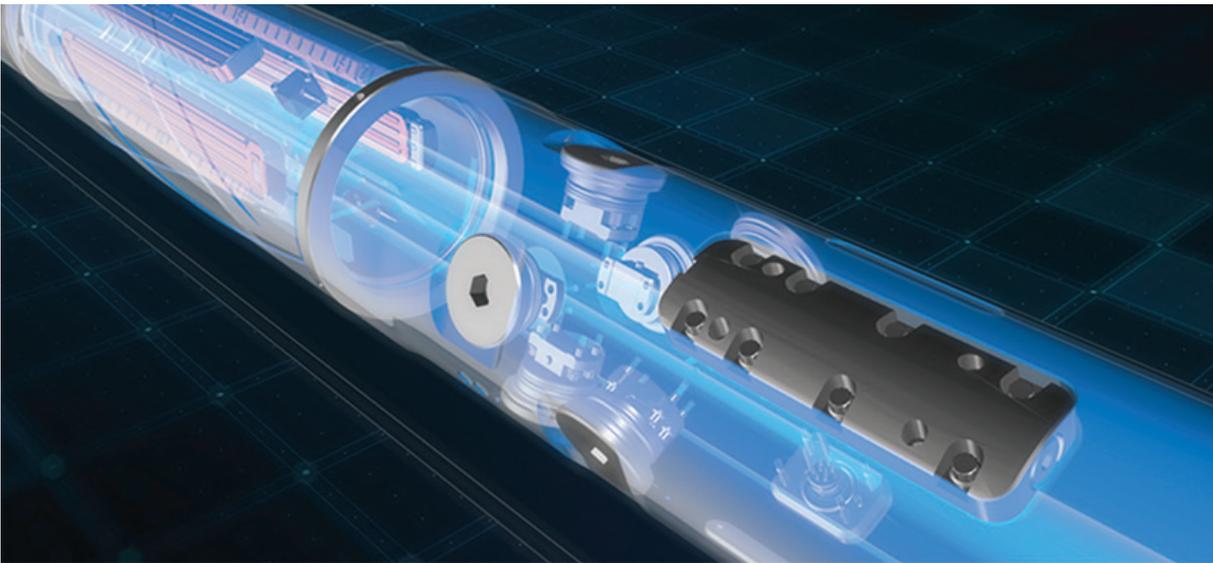
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The **xSight orientation service** uses gravity toolface measurements that can be easily interpreted to orient the bottom-hole assembly in operations such as whipstock casing exits, where the service enables orientation of the whipstock so you mill the window in the correct direction. xSight optimization and orientation services can be combined with our casing collar locator service to deliver a single-trip solution for whipstock casing exits.

Contact your Baker Hughes, a GE company, representative or visit bhge.com/xSight to learn how to improve certainty and reduce NPT with real-time downhole insight.

Properties and specifications	
Temperature	300°F (150°C)
Pressure	20,000 psi (1,379 bar) standard Up to 30,000 psi (2,068.4 bar) optional
Sizes	*3$\frac{1}{8}$ to 9$\frac{1}{2}$ in.
Fluids	Completion fluids, drilling mud, seawater

* Contact your BHGE representative for exact sizes

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