Integrity eXplorer cement evaluation service

Acquire accurate information to make critical decisions
**Proceed with confidence**

Operators rely on the accuracy of cement bond logs to make critical downhole decisions. A number of factors can cause cement to be contaminated with borehole mud during the cementing process, which can decrease the density and acoustic impedance properties of the cement.

The **Integrity eXplorer™ cement evaluation service** obtains accurate measurements regardless of the type—or presence—of fluid in the wellbore, delivering greater confidence in the quality of the cement bond.

Present acoustic-based technologies for cement evaluation rapidly lose resolution when cement density drops below 11 ppg. These existing technologies often interpret contaminated or lightweight cement as a partial or nonexistent bond. Despite these challenges, operators continue to:

- Perform unnecessary remedial squeeze jobs, aiming to avoid environmental risks
- Use these technologies to evaluate contaminated or lightweight cement, hoping the acoustic impedance of the cement slurry will fall within the reading range
- Add wellbore fluids in air-filled boreholes so acoustic-based technologies can be used
- Pressurize the casing and perform an additional run to detect the presence of microannuli

In order to gain an accurate understanding of the cement bond—regardless of weight or contamination—the Baker Hughes, a GE company (BHGE), Integrity eXplorer cement evaluation service enables operators to acquire accurate information to make critical downhole decisions with confidence.

**Evaluate**

Using proprietary electromagnetic-acoustic transducer sensor technology, the Integrity eXplorer service measures the widest range of cement weights in the industry—with weights as low as 7 ppg—making it ideal for evaluating contaminated, lightweight, and foam cement slurries.

**Acquire**

Capable of measuring the cement bond in any wellbore fluid environment, the Integrity eXplorer service eliminates the need to unnecessarily add wellbore fluids for evaluation. By generating acoustic waves directly on the casing, the service can acquire measurements even in air-filled boreholes and gas-cut mud systems.

**Detect**

The Integrity eXplorer service eliminates the need for expensive and time-consuming procedures to pressurize the casing for evaluating cement with suspected microannuli. In a single pass, the service can detect the presence of microannuli and the quality of cement with industry-exclusive sensor technology.

**Ensure**

The sensors are mounted on a pad design engineered to make it insensitive to moderate tool and/or casing decentralization—ensuring log quality is not compromised and making it ideal for demanding deployments in highly tortuous wells.

**Decide**

With the data provided by the Integrity eXplorer service at the rig site, operators can make faster decisions regarding long-term zonal isolation.

Contact your BHGE representative to learn how the Integrity eXplorer service can help you make confident, long-term decisions that impact well integrity or visit bhge.com.