

Integrity eXplorer cement evaluation service

Accurate data for critical decisions
impacting well integrity

The **Integrity eXplorer™ cement evaluation service** from Baker Hughes provides accurate information that helps operators gain an understanding of the cement bond—regardless of weight or contamination—to make critical downhole decisions with confidence.

Using patented electromagnetic-acoustic transducer (EMAT) sensor technology, the service can obtain measurements accurately across the widest range of cement weights in the industry—with weights as low as 7 ppg. This makes the service ideal for evaluating contaminated, lightweight, and foam cement slurries.

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 provide measurements in air-filled boreholes and gas-cut mud systems.

The Integrity eXplorer service eliminates the need for expensive and time-consuming procedures to pressurize the casing for evaluating cement

with a suspected microannulus. In a single pass, the service can detect the presence of a microannulus and the quality of cement with industry-exclusive sensor technology.

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

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 Baker Hughes representative to learn how the Integrity eXplorer service can help you make confident, long-term decisions that impact well integrity.

Applications

- Wells with contaminated, lightweight, or foam cement
- Deepwater wells with modified cement
- Highly tortuous wellbores
- Gas or CO₂ storage wells

Benefits

- EMAT sensor technology
 - Evaluates the cement bond accurately across the widest range of cement weights in the industry
 - Provides accurate answers in heavy wellbore fluid environments
 - Evaluates the quality of the cement bond in the presence of a microannulus
 - Enables cement evaluation in air-filled boreholes
- Pad-mounted sensors
 - Ensures log quality is not compromised by moderate decentralization
- On-site deliverables
 - Provides data at the well site for prompt decision making

Specifications

Make up length	19 ft 11¼ in. (6.08 m)
Minimum casing size	4½ in. (114.3 mm)
Maximum casing size	16 in. (406.4 mm)
Maximum tool diameter	3 ⁵ / ₈ in. (92.07 mm)
Maximum logging speed	30 ft/min (9.14 m/min)
Maximum pressure	20,000 psi (137.9 MPa)
Maximum temperature	350°F (177°C)