

TeleCoil intelligent coiled tubing logging service

Cut logging and evaluation time, quickly resume production

Data logged downhole can be analyzed to assess wellbore integrity, evaluate the reservoir, and better understand a well's production profile. Logging services are typically run on wireline so data can be transmitted to the surface electronically. But in deviated, extended reach, and undulating wells, bottomhole assemblies (BHAs) deployed on wireline can have difficulty reaching total target depth in a realistic timeframe, even with the use of tractors.

The **TeleCoil™ intelligent coiled tubing logging service** from Baker Hughes enables operators to collect and log data without having to worry about the reach limitations of wireline. And in particularly long or tortuous laterals, **EasyReach™ lubricant** can be added to decrease the coefficient of friction, extending the reach of TeleCoil-conveyed logging even further.

The TeleCoil logging service also saves time, because the same intelligent coiled tubing reel can be left in place and used to clear and clean the wellbore, complete the logging run, and perform any necessary remediation, all by simply changing out the BHA at surface.

Plan ahead and adjust in real time

The first step in logging any well with the TeleCoil service is to model the job with **CIRCA™ modeling software**, which is built on decades of data and leads the coiled tubing field in accurately predicting operational outcomes.

Once on site, **CIRCA REAL-TIME (RT) modeling software** is continuously updated with live job data to reflect dynamic downhole conditions. The software automatically adjusts alarms and operating parameters to minimize risk. Combining accurate simulations with real-time model updates saves time, reduces operational risk, and helps protect surface personnel.

Evaluating wellbore integrity

The TeleCoil intelligent logging service can be used to evaluate both cement and casing. For cement bond evaluation, the **Segmented Bond Tool™ (SBT™)**, **Radial Analysis Bond Log™ (RAL™)**, and **Acoustic Bond Log™ (CBL™) services** can provide detailed evaluation of the cement bond between casing and the formation across a range of wellbore sizes and fluid environments.

Applications

- Cement evaluation
- Tubular inspection
- Production logging
- Formation evaluation
- Highly deviated and tortuous wells
- Wells with challenging flow conditions

Benefits

- Eliminates batteries
- Enables immediate adjustments
- Accurately evaluates cement
- Determines burst pressure
- Deliver simultaneous formation saturation and flow profile characterization
- Acquires data in one pass
- Updates simulations on-the-fly
- Adjusts to changing conditions
- Outreaches wireline
- Supports plug-and-play BHA changes between runs

For casing inspections, **High-Resolution Vertilog™ (HRVRT™)** and **Image Caliper™ (ICL™)** systems can be run with TeleCoil intelligent logging services to provide early detection of problems and to enable timely planning of remedial action.

The TeleCoil intelligent logging service BHA can quickly be replaced and intervention procedures performed by changing out the BHA on the same TeleCoil reel used during the cleanout and logging runs.

The TeleCoil intelligent logging service is versatile and can be used to convey a wide range of wellbore integrity evaluation tools—including third-party BHAs—to deliver real-time logging data.

Monitoring production

The TeleCoil intelligent logging service can also be used to evaluate the formation and to log production. In formation evaluation, the **Baker Hughes Reservoir Performance Monitor™ (RPM™)** pulsed neutron tool is used to gather nuclear measurements from the formation. Pulsed neutron analysis helps differentiate between water-bearing and hydrocarbon-bearing formations to identify partially drained areas of the reservoir.

The RPM tool can also be used with the **GasView™ service** to deliver industry-leading salinity-independent quantitative gas saturation readings for the formation. Perforating and completion programs can then be designed to optimize hydrocarbon recovery in a single well or across the entire field.

In production logging, the goal is to identify and diagnose potential problems such as water or gas breakthrough, crossflow of thief zones, and channeling, before they can cause significant production problems.

When run with the TeleCoil intelligent logging service, the **PhaseView™ X horizontal production logging system** can simultaneously evaluate both formation and production logging data in a single run. Ideal for use in horizontal, highly deviated, and undulating wells, this service provides data that clearly indicates flow rates, formation saturation measurements, and fluid hold-up data from inside and outside the borehole. The result is one of the most versatile, extensive slimhole diagnostic systems for understanding formation lithology and evaluating flow profiles in unconventional wells.

Just as with wellbore integrity evaluation, the TeleCoil intelligent coiled tubing logging service can be used with multiple tools and third-party BHAs to log production data.

To learn more about how TeleCoil intelligent coiled tubing logging services can help you save time and increase operational flexibility during evaluation and logging operations, call a Baker Hughes representative today or visit bakerhughes.com.

