

QWIX™
Well Integrity Solution



Ultrasonic well-integrity tool delivers ultrahigh-fidelity, well-barrier data with unmatched accuracy

QWIX™ delivers ultrahigh-fidelity content and graphics through the most efficient collection, analysis, and communication of reliable and informative results on the casing well barrier element (WBE).

QWIX detects and quantifies corrosion, and its changes over time, enabling better well-field risk management.

QWIX owes its deep roots in non-destructive examination (NDE) and analysis to Quest Integrity, which has developed rigorous and trusted integrity technology and software that provide cost-effective information to optimize productivity and prevent loss of containment.

Memory-Based Proprietary Technology Optimizes WBE Inspection

QWIX provides comprehensive data and imagery of casing-wall thickness (WT), with overlapping coverage of geometry and metal loss features.

Unlike other casing examination tools with 6 or 8 calipers that take general readings to calculate averages, QWIX takes hundreds of thousands of readings per meter to maximize accuracy.

Run on a wireline or slickline, at logging speeds of up to 50 m/min, QWIX has the capability to identify and quantify pitting and other acute corrosion while providing detailed imagery of the string in which it is run.

Reliable and Comprehensive Data Measurements Provide Operational Guidance

Based on inspection results, an advanced engineering assessment can be made using Quest Integrity's proprietary software: Streamline™ Universal Platform. It enables QWIX data set(s) from a well to be interlaced with existing data on the same well.

Additionally, Quest's engineering experts can utilize the Streamline platform to calculate the remaining life and fitness-for-service of the casing in accordance with API 579/ASME FFS-1 standards. Accurate corrosion rate information enables operators to take a proactive approach to reducing the risk of failures, while optimizing casing integrity management.

Flexible and Efficient Implementation

QWIX is a light, compact, configurable, memory-based tool. It can be easily included in planned logging runs or added with minimal impact on operational schedules.

Setup / Operation of QWIX Instrument

The QWIX instrument setup shall commence once the job safety requirements have been satisfied.

Connect the QWIX instrument to the toolstring and begin lowering the toolstring into the well.

Ensure equipment is operated within specified tolerances.

Download data from the QWIX instrument, using the QWIX data acquisition software.

Deliver actionable, preliminary inspection results to the operator at the wellsite.

Dependable Field Analytics Helps Ensure Asset Integrity

QWIX can be used to forecast well-life expectancy and assist with remedial-work planning to support decisions across your organization.

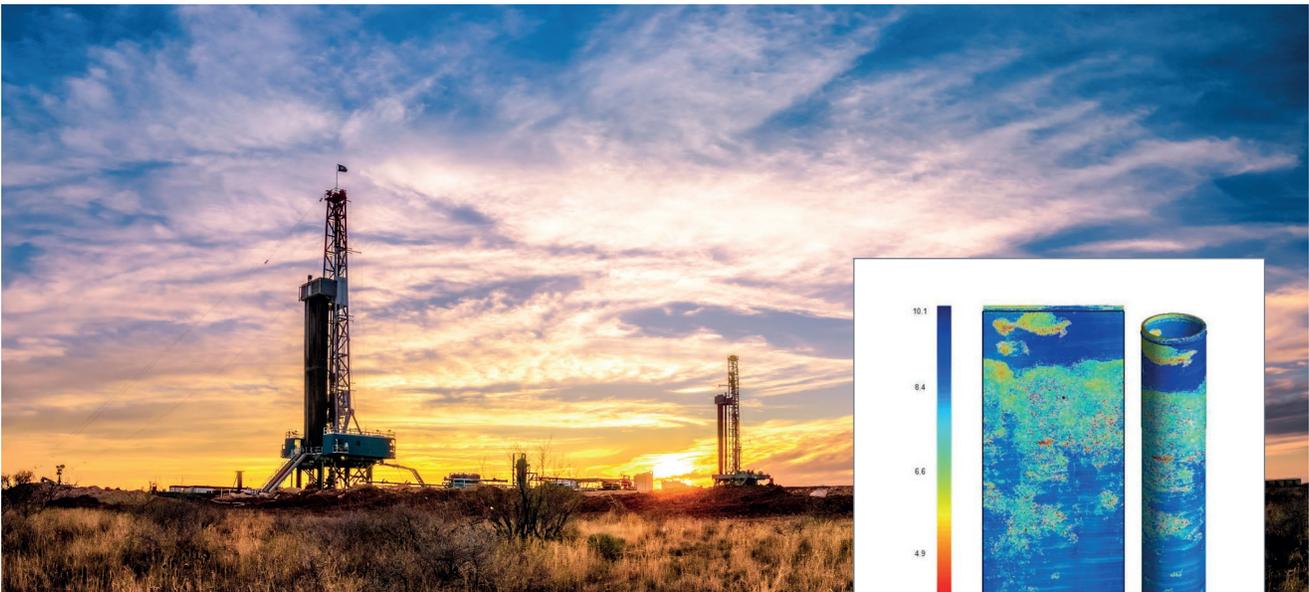
QWIX detects and quantifies internal and external pitting and other acute corrosion, enabling asset stakeholders to identify corrosion trends associated with different geographic locations, and thereby manage the lifecycle of individual wells and entire fields more effectively.

Continued Integrity for Operational Performance

QWIX offers the ability to regularly monitor well integrity to help ensure operational safety. This enables operators to demonstrate, to government regulators and the community in which they operate, a proactive approach to HSE requirements.

Proven Technological Expertise Focused on Integrity

QWIX is produced and delivered by Quest Integrity, which has a long and notable record developing advanced NDE, engineering technology and practices exclusively focused on integrity.



SUCCESS STORY

QWIX Integrity Inspection Saves Well by Guiding Removal of Compromised Casing

An operator with assets in Australia contacted Quest Integrity to request that an integrity inspection be made of a 7-year old well. After running the QWIX downhole, the resulting data revealed a ~ 3-mm by 5-mm through-wall hole in the production casing near the surface. This damage was subsequently confirmed with pressure testing.

QWIX data confirmed the near-surface location of the hole, allowing the operator to efficiently remove the compromised section of casing, and re-install the wellhead below ground level.

As a result of this integrity inspection, the well remained operational, eliminating the time and costs associated with drilling a new well while maintaining access to available reserves.

“QWIX inspection enabled us to better determine the mid- and long-term exposure our massive well stock has to downhole casing corrosion.”

Well Operations
Manager



QWIX Specifications

Characteristic	2-Inch Tools	6-Inch Tools
Tool Weight	<5 lbs. (2.3 kg)	<30 lbs. (13.6 kg)
Tool Length	<25 in. (0.63 m)	<45 in. (1143 mm)
Wall Thickness Measurement Range	0.050 in. (1.3 mm) to 2.00 in (50.8 mm)	0.050 in. (1.3 mm) to 2.00 in (50.8 mm)
Operating Temperature Range	0° to 110°F (-18°-43°C)	0° to 110°F (-18°-43°C)
Maximum Pressure Rating	300 psi (2068 kPA)	1500 psi (10342 kPA)
Optimal Travel Speed	Recommended 150 ft (48 m)/min	182.4 ft (55.2 m)/min