Successful decommissioning is defined before commitment.

Plan with certainty. Deliver with discipline. Retire with confidence.

Diagnostic Surveillance

Reduce uncertainty

Late-life and end-of-life wells often present limited integrity data, uncertain barrier performance and an incomplete understanding of annulus behavior. When these uncertainties are not addressed early, operators can face conservative designs, unnecessary contingency, higher intervention costs, greater AFE and growing schedule exposure.

Diagnostic Surveillance provides the evidence needed to understand actual well conditions before major commitments are made. By moving planning from assumptions to evidence-based design, Expro helps define isolation requirements, right-size the scope and select the appropriate decommissioning pathway.

The challenge

Operators preparing wells for decommissioning can face:

- Limited or degraded integrity data
- Uncertain barrier condition and performance
- Sustained annulus pressure (SAP) with unclear source
- Complex legacy well configurations
- Incomplete understanding of well behaviour and associated risks

Without early clarity, these uncertainties can result in:

- Conservative assumptions and over-engineered solutions
- Scope creep and unnecessary contingency
- Increased execution risk
- Cost escalation and schedule extension
- Reduced confidence in decommissioning outcomes

Evidence gathered early keeps options open and enables better decisions before execution begins.

The solution

Expro combines specialist expertise with advanced diagnostic and surveillance technologies to establish a reliable evidence base for decommissioning decisions.

This helps operators:

- Understand actual barrier condition and integrity
- Identify behind-casing flow and annulus communication
- Confirm zonal isolation requirements through evidence
- Reduce uncertainty before commitment
- Optimise campaign sequencing and execution planning
- Support auditable regulatory close-out

WELL DECOMMISSIONING

Diagnostic surveillance in action

Diagnostic Surveillance supports **Phase 0: Define**, establishing the evidence needed to determine the right pathway before significant execution commitments are made.

The resulting insight informs well access, completion recovery, fluid management, barrier design and verification through the subsequent phases of decommissioning.

Key capabilities

- Distributed fiber-optic sensing
- Behind-casing flow detection
- Reservoir saturation logging
- Annulus monitoring and sampling
- Cement integrity evaluation
- Tubular inspection
- Downhole visual inspection
- Integrated interpretation and decision support

Outcomes

- Better-informed decisions before commitment
- Right-sized scope based on well evidence
- Defined isolation and intervention requirements
- Reduced contingency and late-stage change
- Improved AFE and schedule certainty
- Auditable evidence supporting regulatory confidence

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