Successful decommissioning is defined before commitment.

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

Barrier Assurance

Deliver barrier assurance

Permanent reservoir and zonal isolation is central to safe and compliant well decommissioning. In late-life and end-of-life wells, uncertainty around well condition, cement integrity, barrier placement and verification can lead to conservative designs, additional contingency, rework and increased cost and schedule exposure.

Barrier Assurance combines diagnostic evidence, isolation design, execution and independent verification to deliver auditable evidence of permanent isolation. This supports regulatory acceptance, long-term well integrity and confident liability retirement.

The challenge

Operators frequently face:

- Uncertain cement quality and placement
- Complex well architectures, legacy completions, and side tracks
- Sustained annulus pressure and behind-casing flow
- Limited evidence available for verification
- Increasing regulatory requirements for demonstrable barrier integrity and compliance

If these uncertainties are not addressed early, operators can face overengineered designs, increased contingency, schedule extension, regulatory challenges, and greater long-term liability exposure.

Effective barrier assurance requires more than barrier placement. It requires evidence-led design, disciplined execution and auditable verification.

The solution

Barrier Assurance is a structured, evidence-led approach to permanent reservoir and zonal isolation.

Barrier strategies are informed by well data, diagnostic evidence, historical records and regulatory requirements. This enables operators to select fit-for-purpose barrier placement and verification methods based on actual well conditions.

This approach helps operators:

- Place permanent barriers with confidence
- Verify isolation against regulatory criteria
- Reduce reliance on assumption-based designs
- Deliver auditable evidence to support regulatory sign-off

WELL DECOMMISSIONING

Barrier Assurance in action

Expro combines diagnostic surveillance, isolation design, execution, and independent verification within an integrated workflow.

This flexible model brings together specialist capability, proven technologies and selected technology partnerships to identify the appropriate solution for each well and decommissioning objective.

Where Barrier Assurance adds value

Phase 1 – Reservoir isolation
Deliver permanent reservoir isolation supported by evidence and verification

Phase 2 – Intermediate zonal isolation
Address flow-capable intervals and legacy side tracks with confidence

Regulatory Assurance
Provide auditable evidence supporting regulatory acceptance, compliant close-out and long-term liability management

Outcomes

- Verified permanent barriers aligned with regulatory requirements
- Reduced re-work and contingency
- Optimized rig time and execution sequencing
- Confidence in long-term well integrity
- Predictable, standards-aligned decommissioning outcomes

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