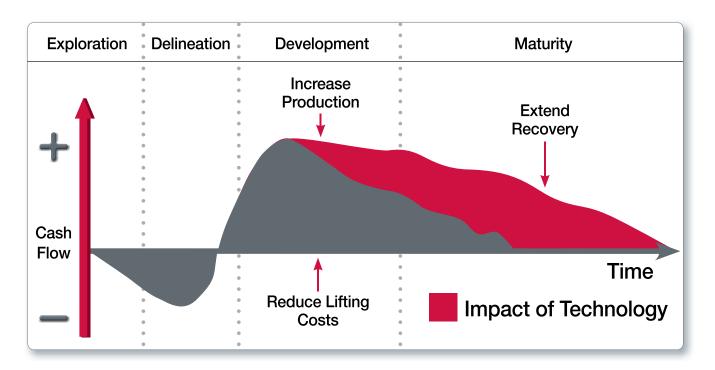


# Fix it permanently

### with Weatherford casing repair and isolation.

#### Extend your field recovery with our life-of-well repairs

We can provide you with all the engineering expertise and technology that you need to successfully develop your recoverable reserves with greater well-performance gains and operating-cost reductions.



## Why Weatherford?

#### Industry-leading technology

We have a full suite of technologies that reliably, quickly, and safely restore your wellbore integrity, minimize your lifting costs, and maximize your reservoir output.

#### Efficient, full-service capabilities

By providing you with a single source, Weatherford increases efficiency. You'll get one company that can design and coordinate your entire remediation operation. For optimal results, we collaborate with you to develop a plan, select the best technology for the job, and coordinate installation at the job site.

#### Reduced operating costs

Through our solid-expandable technology, we can help you make long-term casing repairs that are more cost efficient than short-term, squeeze-cementing jobs. Weatherford's MetalSkin® cased-hole liner system or HOMCO® internal casing patch provides a permanent fix that lowers cumulative well operating costs.

## Cased-hole, mature-field challenges

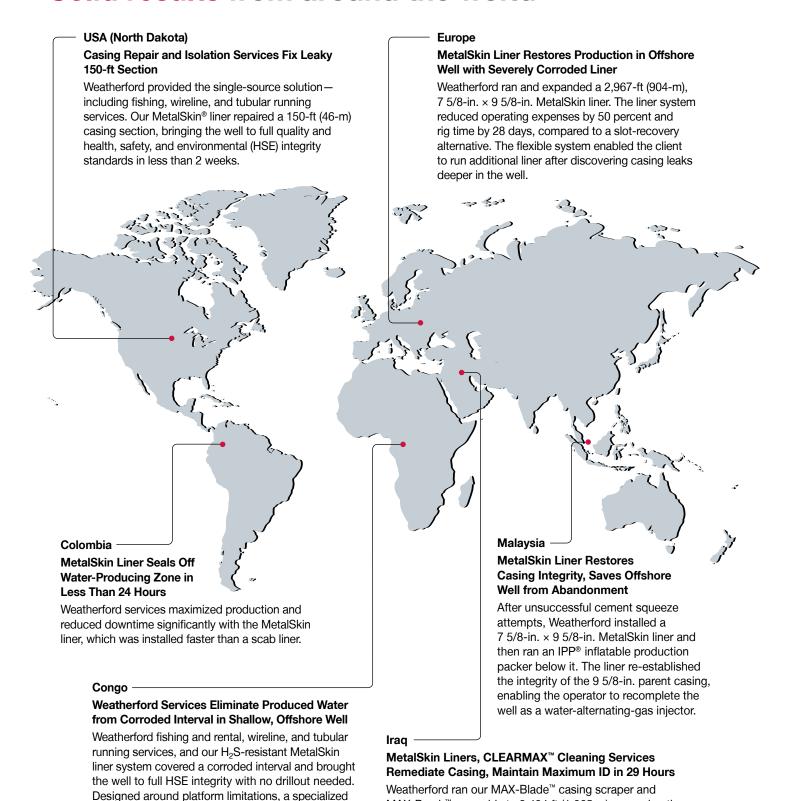
Our services are designed to remediate your cased-hole issues, whatever the application.

- · Corroded or eroded casing
- Water shutoff
- Zonal isolation
- Perforation isolation
- Split or parted casing
- Worn casing
- Collar leaks
- Buckled or deformed casing
- Thief-zone elimination
- · Lateral and sidetrack isolation
- Well deepening
- Refracturing

### Solid results from around the world

jack system eliminated the workover-rig requirement

during liner installation.



MAX-Brush<sup>™</sup> assembly to 3,494 ft (1,065 m), preparing the

casing interior for two 7 5/8- × 9 5/8-in. MetalSkin liners.

The liners provided one-trip installation with no additional drillout, hydraulically isolated the perforated intervals, and

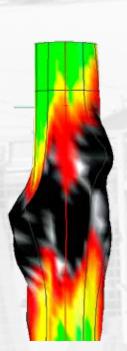
maximized the pass-through diameter.



### Cased-hole logging services

Take advantage of advanced technologies that help pinpoint casing problems, water-production sources, wellbore obstructions, and bypassed production opportunities. The **UltraView™ tool** simultaneously delivers 360° ultrasonic cement and casing inspections in real time. The **CalView™ multi-sensor caliper** captures high-resolution samples at 10 times the industry standard, and the **FluxView™ tool** reveals internal and external casing damage using 360° magnetic-flux, sensor-array technology. These three tools are part of our **SecureView™** suite of casing evaluation tools.







UltraView technology revealed the casing defects (left) in the actual pipe (right) that was pulled from the well

# Wellbore Integrity

Minimize costs and

# Prepare it



# **Restoration Services**

maximize recovery







# **Complete** it

### Cased-hole completion services

Cased-hole completion services offer a full suite of technologies—including the latest in packers, flow controls, and subsurface-safety and control valves. Coupling the right technology with in-house engineering expertise enables us to effectively and efficiently complete virtually any well.

New Life for Mature Wells





Wellbore Integrity Restoration Services

#### New Life for Mature Wells

Weatherford casing repair and isolation services give new life to mature wells. To learn how our single-source services and solidexpandable technology can help you permanently repair casing and shut off water to maximize production and extend recovery, contact an authorized representative at solid.expandables@weatherford.com, or visit weatherford.com/integrity.

