



# Weatherford®

## REAL RESULTS

### MetalSkin® Cased-Hole Liner System Restores Corroded Casing, Pressure Integrity in Three-Well Package

#### Objectives

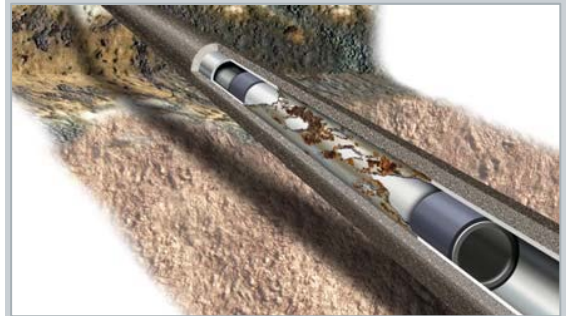
- Cover and isolate corroded-casing zones in three separate wells.
- Re-establish pressure integrity of the casing to prevent future leaks in the corroded areas.

#### Results

- Weatherford personnel deployed two *MetalSkin* cased-hole liners per well over the corroded-casing zones.
- The expandable liners were successfully installed and expanded at the desired setting depths, isolating the problem zones and enhancing production.
- The *MetalSkin* liners restored the pressure integrity of the casing, as indicated by pressure-testing, with no environmental or safety incidents.

#### Value to Client

- In all three wells, Weatherford's *MetalSkin* cased-hole liner system provided permanent, cost-effective, corroded-casing repair, unlike cement repair, which requires multiple squeezes with often short-term or ineffective results.
- The *MetalSkin* liner maximized hole size in comparison to conventional liner and returned the wells to full quality, health, safety, and environmental (QHSE) integrity.



Weatherford's *MetalSkin* cased-hole liner system permanently and cost-effectively repaired the corroded casing, provided the optimum hole size, and restored the pressure integrity of the casing in three separate wells.

#### Location

U.S. Rockies

#### Well Type

Onshore

#### Parent Casing

7-in., 26-lb/ft L-80 and 29-lb/ft JL-95

#### Expandable Liner

5-1/2 in. x 7 in., 17 lb/ft

#### Pre-Expanded Length

- Well A: 556 ft (170 m); 42 ft (13 m)
- Well B: 156 ft (48 m); 194 ft (59 m)
- Well C: 42 ft (13 m); 42 ft (13 m)

#### Post-Expanded Length

- Well A: 532 ft (162 m); 41 ft (13 m)
- Well B: 151 ft (46 m); 187 ft (57 m)
- Well C: 40 ft (12 m); 40 ft (12 m)

#### Post-Expanded ID

- Well A: 5.488 in. (139.4 mm)
- Well B: 4.369 in. (111.0 mm)
- Well C: 5.488 in. (139.4 mm)

#### Post-Expanded Drift

- Well A: 5.363 in. (136.2 mm)
- Well B: 4.244 in. (107.8 mm)
- Well C: 5.363 in. (136.2 mm)

#### Shrinkage

- Well A: 4.33%
- Well B: 3.49%
- Well C: 4.33%

#### Products/Services

*MetalSkin* solid-expandable system

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