



# Weatherford®

## REAL RESULTS

### Custom-Designed MetalSkin™ Cased-Hole Liner Systems Isolate Existing Perforations While Producing Lower Zones

#### Objectives

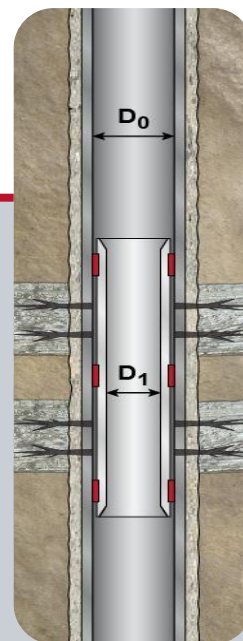
- Isolate water-producing perforations with a permanent casing-remediation solution for two separate wells.
- Minimize the loss of inside diameter (ID).
- Enable the production of lower zones while isolating specified intervals.

#### Results

- The 5 1/2-in. slotted liner was thoroughly cleaned and prepared for casing remediation using a 1/16 mill over the drift of the parent casing, provided by Weatherford fishing services.
- Weatherford provided the operator custom-designed 4 1/2-in. x 5 1/2-in. *MetalSkin* cased-hole liner systems that included swellable elastomers for effective interval isolation.
- The expandable liners were successfully run to setting depth and expanded, isolating the water-producing perforations.
- Each *MetalSkin* cased-hole liner system was installed in one trip with no additional requirements for shoe drill-out, and installation required a total of 14 rig days for both wells.
- The resulting large pass-through ID optimized production.

#### Value to Client

- Weatherford custom-designed *MetalSkin* cased-hole liner systems provided the client a permanent casing-remediation solution for two separate wells.
- Both *MetalSkin* liners were installed, expanded, and pressure-tested with no environmental or safety incidents.



Weatherford provided an operator two custom-designed *MetalSkin* cased-hole liner systems incorporating high-temperature, swellable hybrid elastomers to isolate existing perforations in two separate oil and gas producing wells in California.

#### Location

Bakersfield, California

#### Well Type

Onshore, oil and gas production

#### Parent Casing

5 1/2-in., 15.5-lb/ft, K-55 LT&C

#### Expandable Liner

Size: 4 1/2-in. x 5 1/2-in.

#### First Well

Top setting depth: 665 ft (203 m)  
Bottom setting depth: 748 ft (228 m)  
Pre-expanded length: 88 ft (27 m)  
Post-expanded length: 83 ft (25 m)

#### Second Well

Top setting depth: 616 ft (188 m)  
Bottom setting depth: 700 ft (213 m)  
Pre-expanded length: 89 ft (27 m)  
Post-expanded length: 84 ft (26 m)

#### Products/Services

- *MetalSkin* cased-hole liner system
- High-temperature, swellable hybrid elastomers

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