



Weatherford®

REAL RESULTS

MetalSkin® Cased-Hole Liner System, CLEARMAX™ Wellbore Cleaning Services Repair, Isolate Existing Perforations, Maintain Maximum ID

Objectives

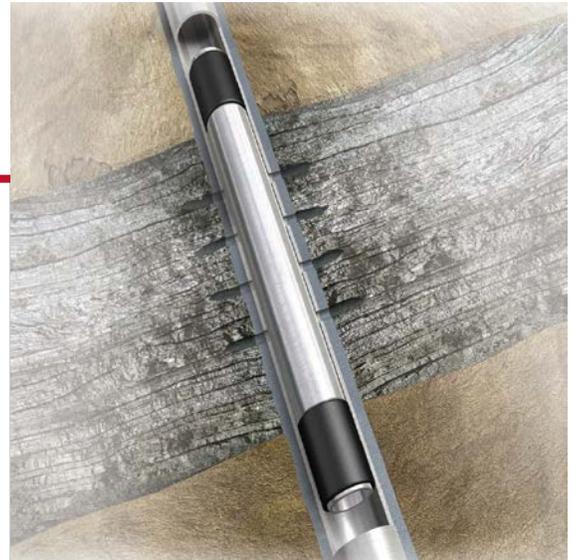
- Isolate two perforation intervals with a permanent casing-remediation solution within the 9 5/8-in. casing.
- Minimize the loss of inside diameter (ID).
- Enable further tests on the well without inducing fluid communication across the old zone.

Results

- Weatherford deployed two 7 5/8- x 9 5/8-in. *MetalSkin* cased-hole liners across the existing perforations. The *MetalSkin* solid expandable liners can hydraulically isolate the zones while maximizing the pass-through diameter.
- Weatherford's *CLEARMAX* wellbore-cleaning equipment was run to 3,494 ft (1065 m) prior to the expandable installation to ensure the interior of the casing was sufficiently prepared.
- The expandable liners were successfully run to setting depth and expanded, isolating the intervals. Each *MetalSkin* patch was installed in one trip with no additional requirement for a shoe drillout.
- The total operational time of 29 hours included associated applications through the installation of the solid expandable liners.

Value to Client

- Using Weatherford's *MetalSkin* cased-hole liner system enabled the operator to cover and permanently isolate two existing perforations within 9 5/8-in. casing more efficiently and economically than with conventional technology.
- The success of the *MetalSkin* cased-hole liner enabled the operator to conduct well tests on the lower perforation intervals.
- The *MetalSkin* liner provided the operator with a maximum hole size unavailable with conventional liner.



Two of Weatherford's *MetalSkin* cased-hole liners covered and isolated two separate, existing perforations in a casing string with a cost-effective solution that provided the maximum hole size, unavailable with a conventional liner.

Location

Kurdistan, Northern Iraq

Well Type

Onshore, exploratory, oil

Parent Casing

9 5/8-in., 53.5-lb/ft (79.7 kg/m) T-95

Static Bottomhole Temperature

135°F (57°C)

Fluid Density

8.4 lb/gal (1.0 kg/L)

Depth

Lower Perforation Interval:
3,467 to 3,428 (1057 to 1045 m)
(39.3-ft (12-m) interval)
110.8-ft (33.8-m) patch installed

Upper Perforation Interval:
2,831 to 2,818 ft (863 to 859 m)
(13.1-ft (4-m) interval)
35.1-ft (10.7-m) patch installed

Post-Expansion ID: 7.600 in.
Drift: 7.475 in.

Products/Services

- *MetalSkin* solid expandable system
- MAX-Blade™ casing scraper
- MAX-Brush™ assembly
- Junk mill

Weatherford
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Regional Product Line Champion MENA
Solid Expandable Systems and DwC
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