



Weatherford®

REAL RESULTS

Colombia: MetalSkin® System Seals Off Water-Producing Zone, Enables Optimal Production in 24 Hours

Objectives

- Cost-effectively seal off a window in 7-in., 23-lb/ft casing, perforate below the window, and run a 3 1/2-in. production string to produce the zone below. The zone through which the existing window passed was producing water. While a conventional scab liner could have been used to cover the window, production below the window would have been severely restricted by the reduced ID through the scab liner.

Results

- Weatherford installed its 5 1/2-in. x 7-in. *MetalSkin* cased-hole liner system to successfully case off the window while maintaining an ID large enough to allow perforating and producing the zone directly below the cased-off window.
- Weatherford executed the job in only 24 hr. During that time, the setting tool and the 40 ft (12 m) of expandable 5 1/2-in. liner were run to total depth, where the liner was expanded into the host casing and pressure-tested. The post-expansion liner successfully sealed off the casing window with minimal loss of hole size.
- After installation, the expanded 5 1/2-in. liner produced a drift of 5.458 in., providing the client with enough clearance to run an optimal size production string.

Value to Client

- Using the *MetalSkin* system, the client was able to seal off the casing window and still maintain sufficient ID through the remediated zone for an optimal production string to be run to surface. In addition to sealing off a water-producing zone, the *MetalSkin* solution allowed for maximum production. Had a conventional scab liner been used, production would have been severely restricted.
- Installation of the *MetalSkin* system in only 24 hr saved considerable downtime, compared to installation of a scab liner.



The *MetalSkin* cased-hole liner system incorporates solid expandable technology and other advanced design features to optimize a wide range of well remediation procedures, including casing repair. It minimizes slimming of the well profile post-repair, reducing costs and facilitating access to deeper zones—critical in the event that additional remediation procedures become necessary. As such, it presents an attractive alternative to cement squeezes, scab liners, and straddle-packer assemblies.

Client

Meta Petroleum

Location

Onshore Colombia

Field

Rubiales field

Well Type

Oil producer

Products/Services

MetalSkin cased-hole liner

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