

MetalSkin® Cased-Hole Liner System Enables Repairing Damaged Section and Restarting Production After Only 4 Days

Objectives

- Repair a damaged casing section to quickly restore production in a well producing at low rates because of leaking and debris.

Our Approach

- Weatherford specialists performed a feasibility study to determine the best solution for repairing a damaged section of casing and determined that a custom-designed 5.75-in. (146-mm) MetalSkin expandable patch compliant with Russian standards could quickly and accurately repair the damaged section.
- After cleaning the damaged area and pressure testing the well, the Weatherford team deployed the cased-hole liner expansion system, ran it to a 6,640-ft (2,024-m) depth, and waited for pressure to equalize before sealing the area.
- The team precisely placed the 90.6-ft- (27.6-m)-long MetalSkin system over the damaged area and performed the expansion process to seal it against the casing. After expansion, the team released the tools and retrieved them at the surface.
- The operation was completed in only 4 days for a quick return to production.

Value to Client

- The MetalSkin expandable casing system effectively remediated the damaged casing section and facilitated a quick return to production in only 4 days.



The crew ran the MetalSkin cased-hole liner expansion system into the well with minimal loss of inside diameter.

LOCATION

Western Siberia, Russia

WELL TYPE

Onshore, oil production

DEPTH

6,640 ft (2,024 m)

FORMATION

Terrigenous reservoir

HOLE SIZE AND ANGLE

7.70 in. (195.5 mm), subvertical

PATCH LENGTH

90.6 ft (27.6 m)

CASING SIZE

5.75 in. (146 mm)

PRODUCTS/SERVICES

- MetalSkin cased-hole liner system
- Tubular running services

* MetalSkin is a registered trademark of Weatherford in the US.

