

CASE STUDY- 2025- MIDDLE EAST

Advancing barrier integrity with Ax™ and Stronghold® Barricade®

Challenge

A major national oil company in the Middle East was experiencing persistent sustained casing pressure in the B annulus outside the 9 5/8" casing.

Conventional remediation methods such as section milling, perforate and squeeze, and cement top up operations had not delivered consistent results.



Solution

Archer deployed the perforate, wash and cement system, Stronghold® Barricade® together with the Ax™ mechanical perforator to deliver a fully explosive free annular remediation solution.

It was deployed in only two runs and established a 150 ft annular barrier while avoiding the time, complexity and risk associated with section milling. Compared with milling an equivalent window length, this approach saved an estimated 5 days of rig time.

The solution removed all logistics, regulatory concerns and safety exposures associated with the use of explosives in conventional methods.

Result

Ax™ and Stronghold® Barricade® delivered a barrier that met all internal requirements for length and delivered a very high success rate for sustained casing pressure remediation.

Ax™ eliminated the need for explosives and therefore reduced safety exposure for personnel. The result - reduced rig time and a faster, safer and more reliable remediation method.

Explosive-free
solution

5 days saved
of rig time

Faster, safer and highly reliable
remediation method