CASE STUDY- 2020- NORTH SEA

Stronghold® Barricade® + System Sets a New Standard for Perforate Wash and Cement with Excellent Cement Bond Log Result Across the Entire Barrier

Challenge

Equinor required to install a competent cross sectional barrier to isolate the reservoir and to plug & abandon the original wellbore on the Gullfaks field. This had to be done to facilitate a slot recovery operation.

The 53 meter barrier was planned from 1674 to 1727 meters with 24°inclination across a 9 5/8" casing inside 12 ¼ open hole section.

Solution

The Archer Stronghold® Barricade®+ system was the chosen solution to efficiently install the cross sectional barrier across the 9 5/8" casing. The entire perforating, washing and cementing operation was planned in a single run.

The success of the operation was to be verified by cement bond logging after drilling out the cement plug inside the casing.

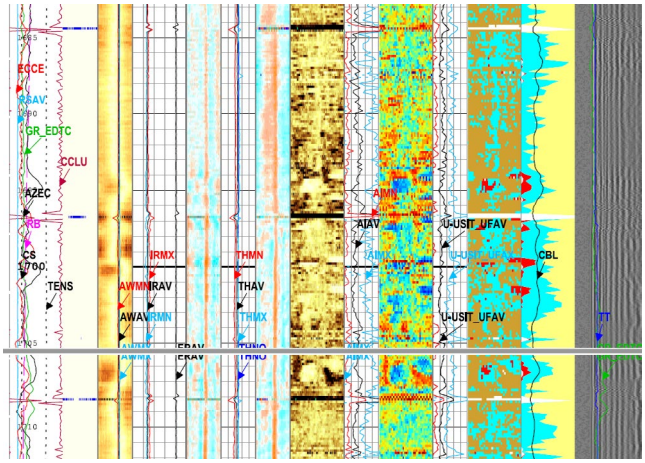
Result

The Stronghold® Barricade®+ system was successfully deployed for washing and cementing of the 53 meter long interval. The washing operations was quite challenging but good progress could be achieved and the cement job was executed flawlessly. The cement plug was then drilled out and logged as part of the Barrier validation process.
The result was a perfect operation placing a 53 meter barrier and verifying a consistently high cement quality over the entire barrier section.

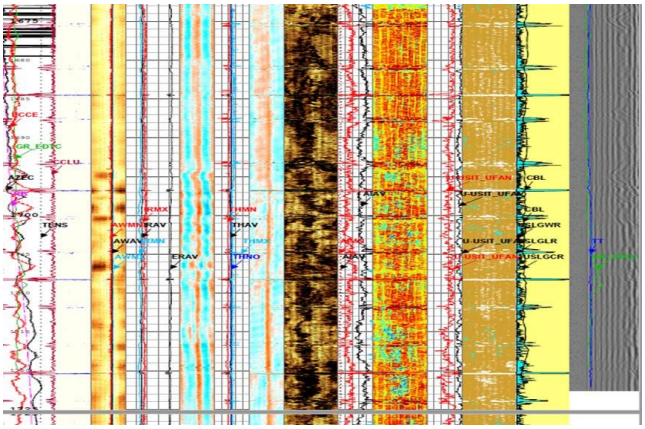
"A fantastic result!
Congratulations & well done to everybody involved. This is the first time we have seen high quality across the entire interval"
Equinor

STRONGHOLD®
Permanent Caprock Integrity

PRE OPERATION LOG



POST OPERATION LOG



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