

CASE STUDY- 2020- NORTH SEA

MCAP® provides annulus isolation in re-entry multilateral application

Challenge

A major North Sea operator was re-entering a well that was 20+ years old and would be performing a sidetrack and installing multilateral (ML) equipment with a new reservoir target aimed at increasing production. This created a need to install a production tieback where there was not currently one installed. There were concerns with the condition of the previously installed PBR and if a positive seal was possible. The operator required a solution to be installed in the 9-5/8 casing and set in the 13-3/8 casing and provide the required isolation above the current liner top



Solution

Archer proposed the Mechanical Casing Annulus Packer (MCAP) due to its rigorous testing protocol and technical capabilities. The MCAP has been qualified in casing that was previously installed in a well for over 20 years. This gave the operator the confidence that the MCAP would provide the required integrity for the lifetime of the well.

Result

The MCAP was installed at the bottom of the tieback casing. The MCAP activation tool was run in tandem with the ML equipment and MCAP activated when tripping out of hole. MCAP was then tested via the casing annulus valve to confirm activation. The installation and activation of the MCAP was integrated into other runs therefor requiring no additional trips to perform the operation.

