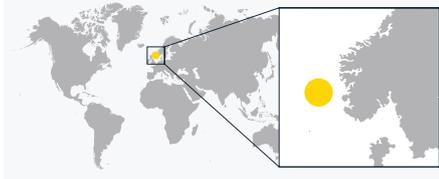


SAMURAI Cutter, in ONE Single Trip, Enables Operator to: Install a Plug, Pump Cement, Displace a Well and Cut the Casing



Region: North Sea

Customer: Statoil

Field: Troll

Case benefits

- Saved up to two hours' rig time
- Perform cut in combined run with pump cement
- Perform cut in combined run with installation of plug
- Perform cut in combined run with displaced well to new fluid

Key capabilities

- High pumping capacity, 6500 lpm
- Large ID Big Bore, 2 1/4" ID
- High operating pressure 345 bar
- Multiple cuts

Typical Applications

- Plug and abandonment (P&A)
- Cementing operations
- Slot recovery

Challenge

Statoil, a major operator, challenged Archer to find a solution to set a plug, pump cement, displace a well, and cut the casing in just one run.

Solution

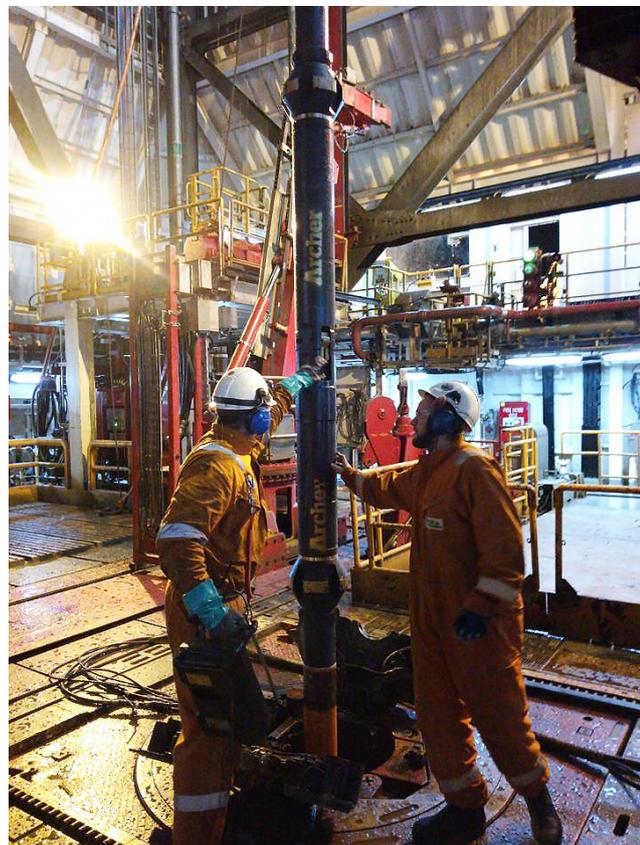
Archer's SAMURAI big bore multi-function pipe cutter is a ball-activated cutter that allows for both pumping through (max 6500 lpm) and pressuring up (max 345 bar) string without knives extending. Combined with its 2 1/4" ID and flow path design, cementing operations can be performed with the SAMURAI cutter in the string.

In this particular job, the SAMURAI cutter was run together with a mechanical 13 3/8" plug (Archer's **LASTLOCK®**) to establish permanent cement barriers (1431 mMD) and make two cuts (776 mMD and 663 mMD) in the 13 3/8" casing during the same run.

Archer's **Tornar® circulation sub** was also included to avoid pulling wet during pull out of hole (POOH) after activating the SAMURAI cutter.

Result

Plug installation and cementing was performed according to plan. Overall the time savings of the combined run was up to 2 hours. This was the first field trial for the SAMURAI cutter. It was concluded that the SAMURAI can potentially save more time for future operations.



Archer is a global oil services company with a heritage that stretches back over 40 years. With a strong focus on safety and delivering the highest quality products and services, Archer operates in 40 locations over 19 countries providing drilling services, well integrity & intervention, plug & abandonment and decommissioning to its upstream oil and gas clients. **We are Archer.**

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