

CASE STUDY- 2021- UK

**The SAMURAI® Multi-Function Cutter Saves UK Operator 10 Hours of Rig Time**

**Challenge**

A major North Sea operator conducting an extensive campaign of abandonments from a Hydraulic Workover Unit, contracted Archer for the isolation of the reservoir section with our single trip Stronghold® Barricade® System. The operator then required removal of the 9-5/8" casing to access the 13-3/8" string for subsequent logging operations. Conventional hydraulic cutters are unfit for cementing operations due to their reduced nozzle ID. Due to this limitation the operator would traditionally have required an additional dedicated cutter run after isolating the 9-5/8" reservoir section with a cement plug.



**Solution**

The SAMURAI® Multi-Function Cutter is a unique, ball-drop activated cutter which enables the operator to perform multiple wellbore operations in a single trip without risk of premature activation. Unlike conventional hydraulic cutters, the SAMURAI® features a large 2-1/4" ID which enables the tool to be used in conjunction with cementing activities. After good cement was logged behind the 9-5/8" casing, Archer performed a contingency operation with the SAMURAI® and cement stinger, pumping a cased hole internal cement plug to isolate the reservoir section before picking up to cut depth and successfully cutting the casing in only **2 minutes**.



**SAMURAI®**



**Result**

Archer's SAMURAI® Multi-Function Cutter enabled the Operator to successfully save **10 hours** of rig time compared to the operator's previous cut and pull approach. This saving contributed towards a decrease in overall spread cost and CO2 production for the well. HSE improvements were also achieved by reducing pipe handling and personnel in the red zone.