

## OUTCOME CHALLENGE

A major North Sea operator had a SSSV that had been inoperable and the well had been shut in for several years. The SSSV flapper was stuck in a partially open position and it would not close or pass an inflow test. There was also a Wireline brush stuck below the SV flapper at an unconfirmed depth. Calcium Carbonate scale was seen in the flow tube area and in the tubing above the SSSV.

## HIGHLIGHTS Conventional oil field Deviated well

LOCATION Norwegian North Sea

CONDITIONS Depth: 550 m (1,800 ft)



- An increase in control line returns was noted after the 1st WASP® run, indicating the flow tube and flapper were reactivated
- A successful inflow test was performed on the SSSV after the 2nd run
- Subsequently, the Wireline Brush was fished from beneath the SSSV. the well was perforated in 2 new zones and brought back online
- Production was commenced after being shut-in for several years

Scale formed on

top of flow tube

by Operator



## SOLUTION

Remove CaCO3 scale from the SSSV to restore functionalitu using electro-hydraulic pulsing technology

- The Blue Spark WASP<sup>®</sup> 275 (Wireline Applied Stimulation Pulsing) tool was run on third-party E-Line with a No-Go so as not to contact the flapper
- The flow tube was cleaned during the first run in the well (the flow tube was now moving)
- The No-Go was removed and a second run was made to treat the flapper directly, as well as the entire length of the SSSV



## of travel area for flowtub Top of flowtube Photo provided

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