## Optimisation of a shut-in sand producing well using a DualFlow and MPFM UK North Sea, July 2022

1 600 bbl/day

HSF Incidents and manual handling / MMscfd

Gas

## Challenge

An Operator in the UK North Sea had a well shut-in for many years due to sand production. The Operator wanted to reinstate the well and use a solids management system to remove any solids at surface.

The aim was to determine a sand rate for the well that was acceptable to the platform. Further evaluation of economics would be required to determine if an increase in (solids free) hydrocarbon production was sustainable with a permanently installed solids management system.

This would include carrying out drawdown diagnostics on the well by slowly increasing the production rate to understand the corresponding separated solids weight at the different rates.

safely operated all equipment remotely from the control container with a



## Result

The shut-in well was safely brought back to production. All four phases were mapped to understand the optimal production rates the platform could handle and without risk of solids reaching the process.

The results from the multiphase flow meter confirmed the expected well flow numbers. The cyclonic DualFlow handled the slug flow while different choke settings were tested.

The optimum hydrocarbon production and associated choke position v sand production was identified. The well was then handed back to the platform operations.

