



FLOSURE AICD

SUCCESS STORY

UK'S FIRST RETROFIT AICD INSTALLATION DOUBLES OIL PRODUCTION TO ENSURE LONG TERM OIL PRODUCTION

North Sea, UK

60%

REDUCTION IN
GAS-OIL RATIO

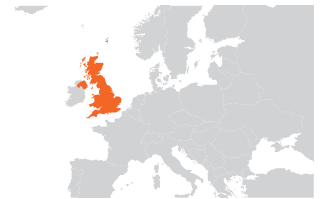
350%

INCREASE IN
PRODUCTION

The FloSure Autonomous Inflow Control Device (AICD) is an effective solution for increasing oil production over the life of the field, to overcome gas or water breakthrough and ensure uniform production longevity.

THE CHALLENGE

The fractured chalk reservoir, developed over 20+ years through waterflood, is now in blowdown. This requires gradually deepening well intervals as the gas cap expands and oil and water descend, and avoiding early gas production is crucial to maintain reservoir energy. Isolating gas-producing perforations are costly and challenging.

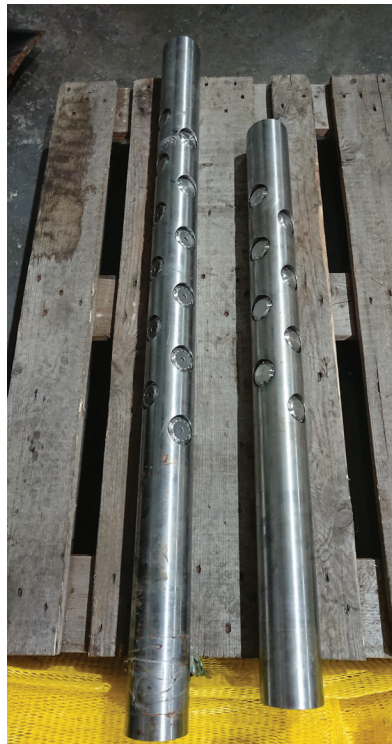


THE SOLUTION

FloSure AICDs were chosen for their autonomous response to fluid properties, allowing initial oil production while restricting high gas flows with added pressure drops. Installing compact FloSure AICD straddle completions on remaining oil-bearing perforations proved cost-effective for controlling Gas-Oil-Ratio (GOR) and maximising oil recovery without multiple interventions in subsea wells. Extensive modelling ensured appropriate design and performance assessment, accommodating various gas and water breakthrough scenarios.

THE RESULT

Modelling indicated that the retrofit FloSure AICD would successfully control gas breakthrough and lower the GOR while maintaining oil production levels compared to non-AICD cases. Field results showed an increase in production from 1,000 to 4,500 barrels per day. There was a 60% reduction in gas-oil ratio, keeping GOR within surface facility constraints and maintaining reservoir energy for oil production.



WELL DATA

- Well Type: Oil
- Installation Date: May 19