

Paradigm Flow successfully removes wax restriction in flowline; Improving pressure & flow rate resulting in an extra 1000bbl/day.

Overview

An O&G operator in the UKCS had a known wax build up in a production flowline. This restriction had the potential to progress into a full blockage without intervention but also incurred a loss of production until action was taken.

Challenge

There was a differential pressure (DP) between subsea manifold and topside of 33bar indicating a restriction. Given the distance of the restriction and the available deck space during that period, the most cost-effective solution was to perform a chemical flushing service utilising the umbilical.

Solution

Paradigm Flow rigged-up temporary flushing equipment which was primed with wax dissolving chemicals, function tested and circulated until a cleanliness of NAS Class 7 was achieved.

Completed connection and communication tests into the umbilical core and flushed/pumped wax dissolving chemical down the umbilical core into the production header. The entire process was performed within a closed loop, which posed no risk to the environment.

On completion of flushing 195m³ of wax dissolving chemicals the line was left to soak for four days prior to opening the wells.

Result

- Improvement in pressure and flow rate – Improvement of approx. 1000bbl/day

Value to Client

- Immediate production and flow improvement.
- Swift return on investment.

