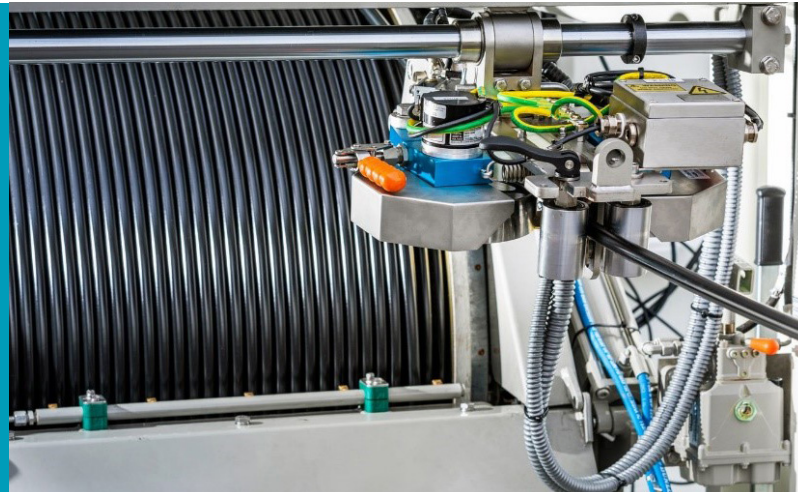


Expro Excellence

Expro provides operationally efficient solution for re-instating Tubing Retrieval Sub Surface Safety Valve functionality in four wells

Well Intervention and Integrity



Objectives and background

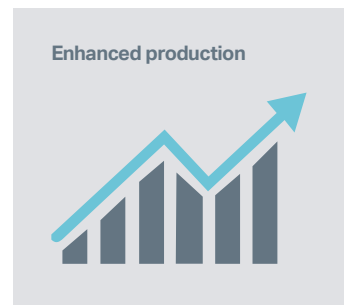
- The Customer had four Tubing Retrieval Sub Surface Safety Valves (TRSSSV's) on two different Offshore Platforms that had failed their in-flow tests due to scale build-up issues.
- On two of the TRSSSV's, Flow Tube movement issues were identified
- Existing remediations employed included wireline intervention and conventional "pump from surface" methodologies. These delivered inconsistent results and increased HSEQ exposure during the interventions
- Deck and bed space on the Offshore Platforms was limited

Expro Excellence

- Expro proposed the Hydra model for the intervention campaign. This model features a footprint optimized solution to deploy Slickline, E-Line and CoilHose™ Light Well Circulation services by a multi-skilled crew
- The CoilHose Light Well Circulation System is a hybrid well intervention system that combines the operational efficiency of a Wireline deployment with the capability to perform a range of pumping applications in the wellbore
- The intervention programme featured the following steps:
 - o RIH with CoilHose to the TRSSSV
 - o Tag TRSSSV profile with a No-Go in the CoilHose BHA
 - o Jet 15% HCL in the Flapper and Flow Tube Areas
 - o POOH jetting 15% HCL to surface
 - o A downhole video camera was run pre and post CoilHose deployment to evaluate results

Value to the client

- All four TRSSSV's were successfully restored to full functionality with a 100% success rate
- The Expro solution used 85% less acid (46 bbls vs 320 bbls) than the previously employed pump from surface method
- Improved results were delivered compared to previous methodologies utilized – less logistics, operational efficiencies and lower HSE exposure



Downhole Camera view of TRSSSV Flow Tube



Before CoilHose Intervention



After CoilHose Intervention

Downhole camera view of tubing above TRSSSV



Before CoilHose Intervention



After CoilHose Intervention

