

CHALLENGE

During a routine test, a major operator determined that a Sub-Surface Safety Valve (SSSV) would not successfully perform a routine inflow pressure test due to calcium carbonate scale (CaCO3). Two separate interventions were attempted using conventional chemical and mechanical methods, but these failed to re-activate the SSSV. The operator then decided to mobilise Blue Spark's WASP® technology, with its ability to remove scale from complex downhole completion equipment items, without risking any damage to them.

HIGHLIGHTS

SSSV reactivation
Removal of scale from tubing

LOCATION

Offshore Denmark, North Sea

CONDITIONS

Offshore Platform
Wireline Deployment
Depth: (564 m) 1,850 feet
Temp: 42°C (108 °F)



Scale Removal

OUTCOME

- Blue Spark successfully performed its first Sub-Surface Safety Valve (SSSV) re-activation in the Danish North Sea using our innovative WASP® technology
- Demonstrated ability to selectively remove scale over sections of the tubing, verified by Caliper logs
- Effective for NUI (normally unmanned installations) with small footprints and challenging lifting restrictions
- Well returned to fully compliant integrity status, without the requirement for a workover



SSSV Reactivated
& Well Integrity Ensured;
Significant \$\$\$
& Time Saved

SOLUTION

Return a critical barrier to an oil producer in the Danish sector of the North Sea using electro-hydraulic stimulation technology

- Blue Spark's WASP® service was mobilised at short notice and run on third party wireline
- Service required no chemicals, explosives or controlled goods
- 3 m (10 feet) interval across the SSSV was treated with WASP®, removing the CaCO3 scale
- Total operating time was less than 24 hours
- SSSV was successfully activated and inflow pressure tested
- Well was handed back to Production