

**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 (CaCO<sub>3</sub>). 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup>, removing the CaCO<sub>3</sub> scale
- Total operating time was less than 24 hours
- SSSV was successfully activated and inflow pressure tested
- Well was handed back to Production