

CHALLENGE

The operator’s well had failed the integrity test on the Surface Controlled Subsurface Safety Valve (SCSSV). The well on this Normally Unmanned Installation (NUI) was producing oil at 3,500 bpd. The operator believed the failure was due to Barium Sulphate (BaSO4) scale build-up in tubing and at the SCSSV. Unable to use conventional methods due to scale buildup restrictions above the SCSSV, the operator was required to shut-in the well and set a plug as a barrier below the SCSSV.

HIGHLIGHTS

Deviated well
Perforated completion

LOCATION

North Sea, Norway

CONDITIONS

Total Depth: 4,700 m MD (15,400 ft)
Depth of SCSSV: 700 m MD (2,300 ft)

OUTCOME

- The SCSSV inflow tests were successful, making the SCSSV compliant and allowing the well to be put back on production
- The production of the well was maintained at 3,500 bpd

SCSSV now compliant and well back on production



Normally Unmanned Installation (NUI) - Norway

SOLUTION

- Use Blue Spark WASP® electro-hydraulic stimulation technology to remove BaSO4 scale
- Wasp® equipment & Engineers mobilised offshore and deployed with operator’s preferred wireline provider
- Wasp® treatment performed across the SCSSV – total well intervention time less than 12 hours
- Inflow tests were conducted on the SCSSV



Scale Removal