

CHALLENGE **OUTCOME**

One of Equinor’s Statfjord wells was suffering from reduced production due to BaSO4 scale plugging of the expandable sand screens and the client had no effective solution to stimulate the well. Scale inhibition had limited success as it was dissipating in the upper, more permeable zones. There was also an internal restriction that prevented the use of milling. It was decided to use the BLUESPARK® tool, as the profile of the tool allows it to reach all sections of the sand screens.

- Total production increased from 3,200 b/d to 8950 b/d, a 180% increase
- The post-BLUESPARK® oil production increased from 50 BOPD to 138 BOPD, a 175% increase
- The MFC log comparison shows clear evidence of scale being removed from the inside of the base pipe
- The GR log shows that scale was removed from both the inside and outside of the screens

175%
increase in oil
production

SOLUTION

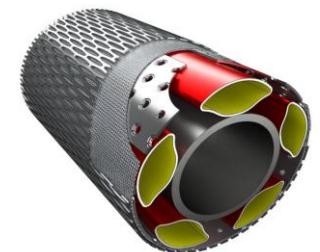
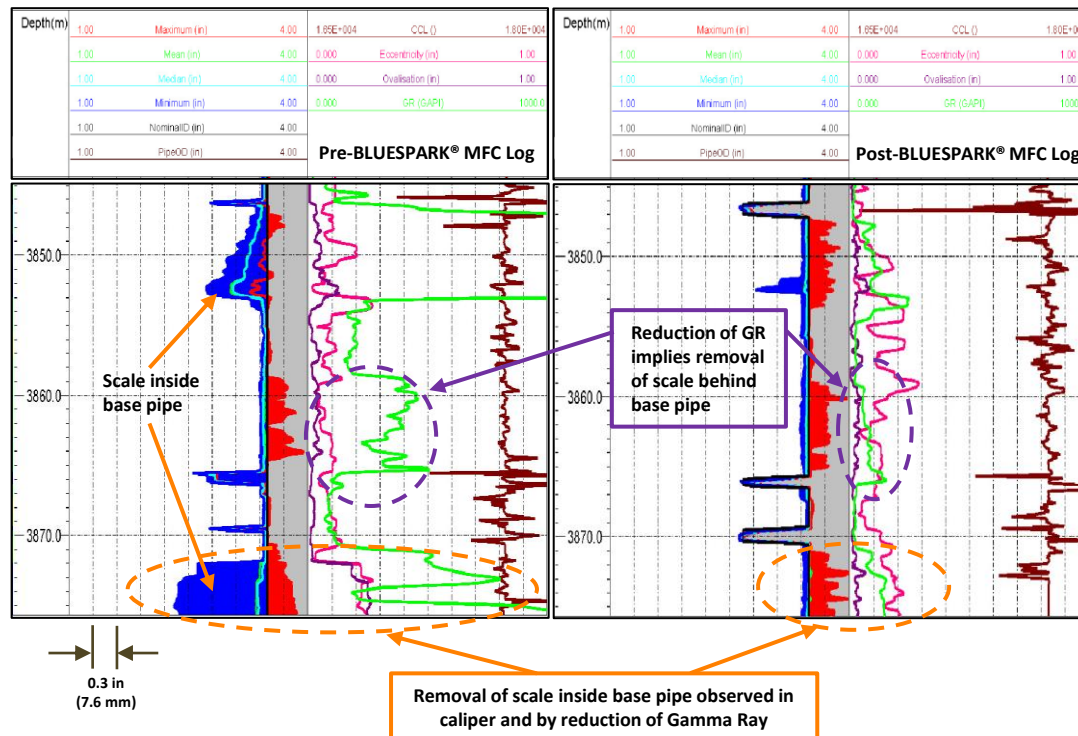
- Improve connectivity to the reservoir by clearing out blockages using electro-hydraulic pulsing technology
- The BLUESPARK® 212 tool was run on third-party E-Line to the treatment interval
 - 74 m (243 ft) of sand screen was treated in 27 hours of treatment time with 100% operating efficiency

ENVIRONMENT

Conventional oil field
Directionally drilled
Depth: 3,800 m (12,500 ft)
Temperature: 90 °C (194 °F)



Producing Well



Expandable Sand Screen showing expansion chambers in red/yellow