



# **GARD *U-line*™ Roller** **Reduces Tension in a critical** **HPHT well-intervention**



**UKCS**





# GARD *U-line*™ Roller reduces tension in a critical HPHT well-intervention

**COUNTRY: UK**



*U-line*™ Size:  
**3.500”**

Depth:  
**17,089ft**

Deviation:  
**31°**

## CHALLENGE

A UK Operator needed to perform a solvent treatment programme in a gas condensate well in the North Sea. The wells in this particular field were known to have issues with buckled tubing, which, in combination with the HPHT environment, made intervention extremely challenging. During a previous intervention logging campaign, highly-viscous residue on the tubing wall ‘clogged’ spinners and production roller centralisers (PRC), leading to high head tension, perilously close to the cable’s safe working limit, and an unsuccessful log of the well with no data retrieved.

## SOLUTION

In order to overcome these issues GARD *U-line*™ Roller Technology was selected to convey an X-Y caliper in memory mode using slickline, with an optimum wheel size selected to ensure maximum rollerised stand-off between low side of liner and underside of toolstring in order to combat the highly-viscous residue.

PRCs were replaced by *U-line*™ Rollers, which centralised the X-Y caliper to within 4% of liner centre, providing a solid ‘rolling’ platform, as well as eliminating the slip-stick effect. The wheel size selected also ensured sufficient running clearance through completion restrictions to target depth.

## RESULTS

*U-line*™ Roller Technology performed well with head tension reduced to safe levels, leading to successful retrieval of caliper log data from an extreme well environment, which had not been possible previously, no issues were recorded.

## VALUE

*U-line*™ Roller Technology ensured that the intervention programme was a success, no miss-run recorded- all caliper data recovered as planned which justified the intervention AFE.

*More detailed information can be provided upon request*

## Intervention Programme

- XY Caliper
- Memory Mode



ASSET: Offshore Gas Condensate Well



METHOD: Wireline



HPHT  
TEMPERATURE: 174°C  
PRESSURE: 8500 psi



CHALLENGE: Buckled tubing, residue



## Operational Highlights

- Reduced toolstring friction, minimised overpull
- Eliminated slip-stick effect whilst logging

