

# Slickline Set PKO Straddle Sleeve successfully deployed in challenging Southern North Sea (UK sector) well.

## PROJECT

DTI has successfully run and set a 3 ½" PKO Straddle Sleeve, on slickline in a Southern North Sea, UK Sector, unmanned Platform Well in October 2024. The client had determined that there was tubing to A Annulus communication in a tubing joint just below the TRSSV. The leak was identified over a 2ft interval.

The customer wanted a slickline deployed straddle sleeve requiring no special setting tools due to limited crane height and limited riser height. The packers needed to be able to pass the restriction through the TRSSV of 2.810" and set and seal in 3 ½" 9.2 lb/ft tubing.

## RESULTS

DTI supplied a two run 3 ½" Straddle Isolation Sleeve in 13% Cr 80KSI material to match the tubing material. The assembled straddle sleeve had 10ft between the seal elements and an overall length of only 15.5ft and was run in two sections using a generic 3" GS Pulling Tool with a 1 7/8" Slickline Tool String on 0.125" wire.

The relatively shallow setting depth of 525 ft meant that addition weight was required in the tool string so 13ft of stem was used and to ensure an impact when setting the lower packer a link jar with only a 20" stroke was used.

DTI provided additional support to the customer by adapting the standard running procedure to meet the brief of setting the straddle sleeve accurately within a narrow depth window.

DTI also supplied a technician as field support to advise the customer and the slickline service company on running the straddle on location.



## FEATURES & BENEFITS

The PKO Straddle Isolation System provides a low cost and easy to deploy solution to isolating leaks in the tubing string.

Like the DTI PKB Plugs the PKO straddle system can be deployed on slickline using GS Pulling Tool and does not require any powered setting tools.

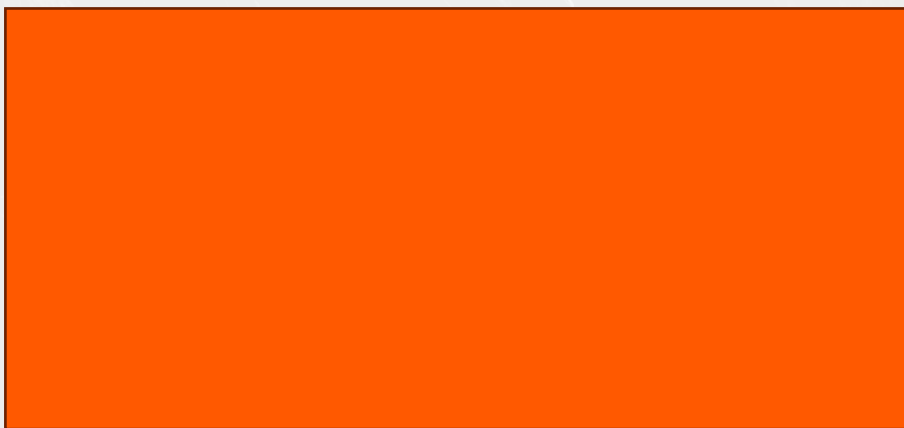
The PKO straddle system use DTI's large bore PKO packers combined with straddle sections for applications such as tubing patches, straddle sleeves and gas lift straddles. The PKO packers include integral tubing slip section that is used to anchor the assembly into the production tubing and element packoff assembly.

A lower packer is run first with a PBR. Straddle sections can then be deployed stacked on top using a GS tool, before the top packer with PBR is deployed.

For shorter straddles up to about 12ft long the Straddle Isolation System can be deployed in two runs. For longer straddle sections tubing lengths can be added.

- The maximum length of the two-run system and of each additional straddle section is determined by the riser height.

The PKO Straddle System is available to suit 2 3/8", 2 7/8", 3 1/2" and 4 1/2" Tubing and is 5000 psi rated.



## KEY FIGURES & STATS

- Run using a 3" GS Pulling Tool.
- Set at 525 ft.
- Modified setting procedure to suit unique circumstances.
- Pin shock sheared on the up stroke.
- 13ft 1 7/8" Stem due to shallow set.
- 1 7/8" x 20" Stroke Lin Jar used.