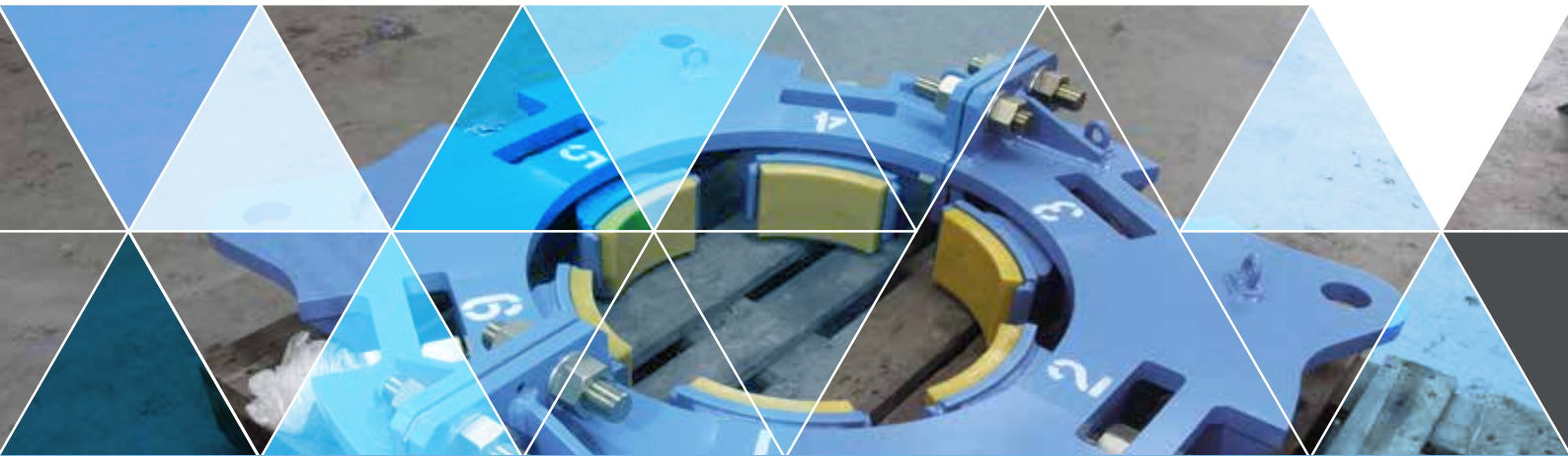


# Case Study

## Stabilising a Damaged Conductor for Improved Well Integrity



PRODUCT: WELL STABILISATION CLAMP

### Project:

A well on an offshore platform in the northern North Sea was suffering from excessive movement due to the 30" conductor having parted in several places. The damage to the conductor resulted in the well swaying excessively during inclement weather. The well was due to be abandoned but in order to rig up the necessary equipment safely to gain entry to the well, it had to be stabilised.

Unity were asked to design and build a clamp that would stabilise the well to enable safe entry for the abandonment.

- The design included six equally spaced, removable and replaceable wear pads which could be adjusted as necessary to suit the level of stabilisation required for entry into the well and prevent metal-to-metal rubbing.
- In addition to stabilising the conductor, the clamp provided additional support and rigidity to the surrounding structure.
- The clamp was designed and delivered within six weeks.
- The solution provided a safe environment for the abandonment equipment to be rigged up, saving in excess of £500,000 on the alternative solution of replacing the conductor.

### Solution:

- Unity's in-house engineering experts designed and fabricated a Well Stabilisation Clamp that limited movement of the wellhead so equipment could be rigged up and well entry could take place safely.
- Stress and fatigue analysis was carried out prior to manufacture to ensure the clamp, well and platform structure could support the loads expected.



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