

Case Study

Centralisation Clamp Prevents Well Movement and Damage to the Conductor Casing



PRODUCT: WELL CENTRALISATION CLAMP

Project:

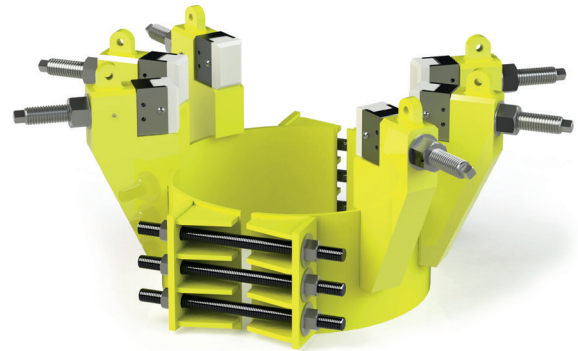
A well in the northern North Sea was experiencing excessive movement between the conductor and surface casing due to a damaged centraliser. After running cameras, the client discovered that this movement combined with the loose/damaged centraliser had been scoring into the casing causing integrity concerns.

Unity were tasked with designing a Centralisation Clamp to limit the movement of the well within the conductor, therefore preventing any further damage to the casing.

Solution:

- Unity engineered a robust well clamp that centralised the well and prevented further scoring of the casing by the damaged centraliser.
- The design incorporated six load fins, each capable of withstanding a twenty five ton load.
- Removable and replaceable wear pads in the load fins were incorporated to prevent metal-to-metal contact with the inner casing string.
- The clamp was assembled in two parts for easy installation by two people in one day.

- The entire project was completed within eight weeks of the initial discussion with the client.
- Over £500,000 was saved when compared to the alternative repair option of replacing part of the conductor and installing a new internal centraliser.



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