

Case Study

Stabilising and Supporting the Wellhead for Future Intervention and Continued Production



PRODUCT: WELLHEAD SUPPORT CLAMP

Project:

Signs of wear were appearing on a well in the North Sea which suggested additional support and stability for the conductor and casing strings were required to improve well integrity.

Unity was asked to design and build a system that would provide support and allow the rig-up of intervention equipment without overstressing the wellhead.

The solution had to allow the wellhead load to be evenly spread across the 20" casing spool and the 30" conductor, whilst also allowing for the natural growth and contraction of the well over time.

Solution:

- Working in close collaboration with the client, Unity designed, engineered and fabricated a Wellhead Support Clamp.
- The design enabled installation in a restricted area and allowed load sharing between the conductor and casing. The clamp was engineered so that it could withstand 1.5 times the expected load of workover and intervention equipment rigged up on the well.

- The Wellhead Support Clamp could accommodate the natural vertical movement of the well and provided a method of quantitatively surveying the well in case of excessive movement around the casing and conductor.
- Unity delivered a robust design which provided confidence that intervention campaigns could be carried out while the casing and wellhead were fully supported.
- Over £500,000 of integrity repair cost was saved when compared to the alternative solution of conductor replacement.
- Unity's Wellhead Support Clamp helped ensure the safe, continued production of a well generating potentially millions in hydrocarbon revenue and preventing downtime due to more extensive remedial work.



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