

Case Study

Installation of Helicoid WRES Epoxy Sleeve[®]

Type of Work

Wellhead Repair

Location

Terengganu waters,
Malaysia

Client

PETRONAS Carigali
(PMA)

Platform

Palas-A

Project Completed

August 2025



WELLHEAD REPAIR

Background:

In August 2025, we successfully executed a critical wellhead casing repair in the waters off Terengganu, Malaysia. The operation involved well casing strengthening and leak rectification works to address sustained casing pressure and structural integrity issues that were impacting production performance. The casing integrity was restored, ensuring operational stability and safeguarding continued production.

Scope:

- To perform Surface Preparation via High Pressure Water Jetting removing the existing coating and cement.
- To perform leak containment installation venting line.
- To perform carbon fibre rod configuration for axial force reinforcement.
- To perform winding of HDPE sleeve with carbon fibre reinforcements
- To perform mixing and injection of epoxy grout for the Helicoid sleeve.

Client Benefit:

- Client did not require to shut down the well during installation of Helicoid thus allowing the zero interruption to the production of gas/oil.

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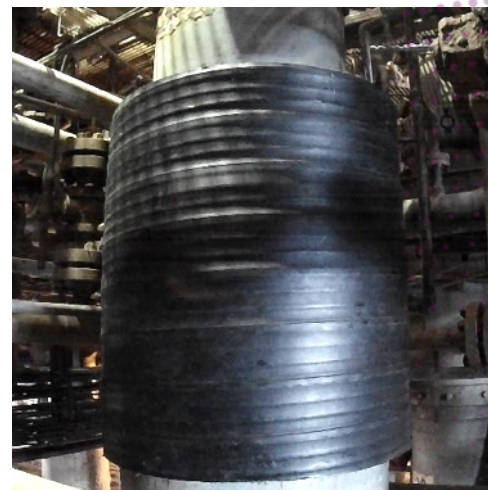
WELLHEAD REPAIR



Vent Line Installation



Carbon Fibre Rod Configuration



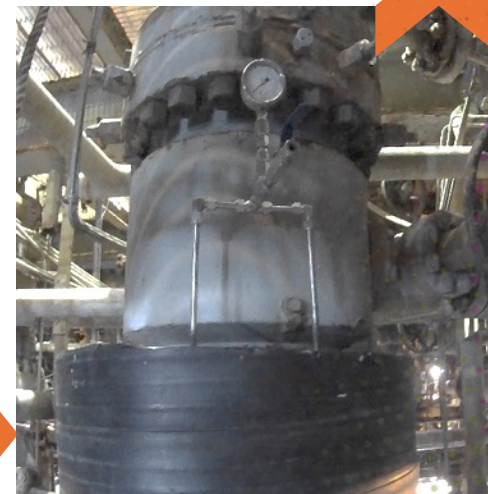
Completed Helicoid



Condition after surface preparation



Winding HDPE



Completed Helicoid

