

TRANSOCEAN SEDCO 702 MODU

Repair of Impact Damage, North West Shelf

Icon Engineering was commissioned to project manage and execute repair of vessel impact damage to a stability column on the Sedco 702 rig.

The work involved preparation of the repair procedure, procurement of hull materials, prefabrication, execution of the repair work offshore whilst the rig was in Dampier and preparation of as built documentation for submission to the classifying authority American Bureau of Shipping.



Lifting the prefabricated scaffold into place

The work required a patch approximately 4m square to be cut from the column and replaced with a prefabricated patch.

A key feature of the work was the prefabricated scaffold which was assembled onshore and brought out in a single piece.

This allowed work to be carried out on the opening immediately the damaged shell section had been cut away. The scaffold was designed to allow the new patch to be lowered into place between the scaffold and the column.

ICON provided a supervisor and a team of personnel for the project. Some services such as crane operations and painting were carried out by the rig.

The ICON team worked with the rig crew to ensure that the project was executed efficiently and within the required time frame.

Replacement of Chain Locker on the Sedco 702 MODU, 1999

ICON was commissioned by Sedco to replace a chain locker on the Sedco 702 MODU. The work involved preparation of the procedure, material procurement, prefabrication of the locker segments and execution of the work offshore.

The work was particularly arduous as the working conditions were cramped within the highly segmented column. Strict procedures for working in confined spaces were adhered to for the job.



Lifting a section of the chain locker through the deck opening

The work was performed whilst the rig was under tow from Bass Strait to the North West Shelf. An essential part of the work was the planning and logistics which had all equipment and materials loaded on the rig prior to departure.

This allowed the work to be progressed with minimal external support. The job was completed in the required time frame in a safe manner with no injuries.

A key feature of the job was the planning to allow for the removal of the old sections and installation of the new sections within the highly stiffened column.

This required access hatches to be cut and a transfer system to be set up to allow the sections to be moved in and out of the chain locker.