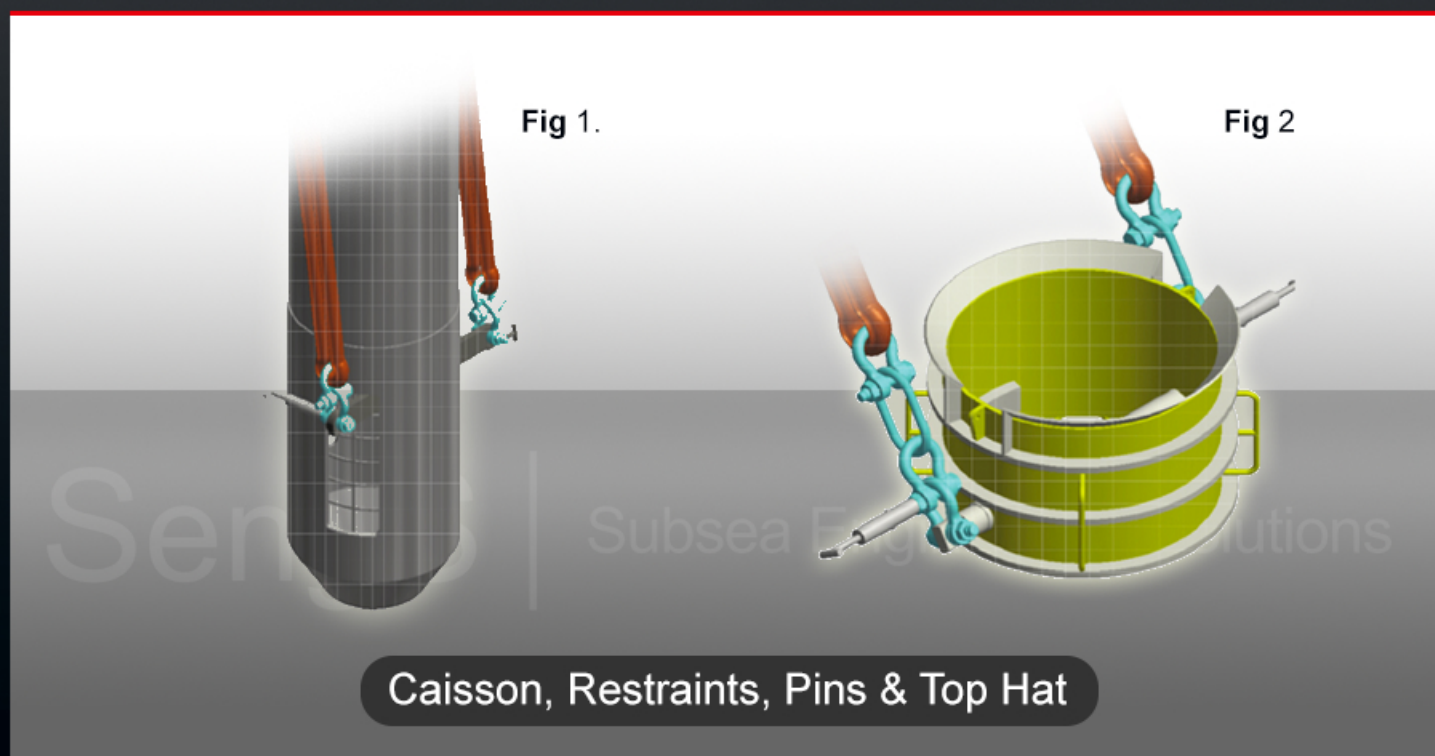


Case Study

Emergency Temporary Repair to Scott UQ Platform C8 & C9 Caissons



Project Description

Nexen Petroleum had contracted Bibby Remote Intervention Limited (BRIL) to carry out emergency temporary securing to Scott UQ Platform caissons. SengS Subsea Engineering Solutions Ltd were subsequently contracted to produce detailed design and onshore and offshore engineering support. SengS designed two types of restraints, pin designs (Fig 1.) and Top hat (Fig 2.) – these were designed, FEA analysis and manufactured within 6 days.

The caisson(s) are 36" diameter and extends down to elevation -43m (C6, C7 & C8) & -53m (C1 – C4 & C9) in a water depth of -140m. The caisson(s) have a calculated weight of approximately 26 to 31 Tonnes and are restrained by two subsea guides at -14m and -41m. The complete program of works (including Caisson Cleaning, GVI & UT inspection and C5 Choke investigation) was scheduled to take place over approximately 8 days, which includes mobilisation and demobilisation, (weather permitting).

The caisson C6 & C8 were identified to have large perforations at various LAT levels. The WROV installed rigging around the caisson support guide /horizontal member and insert a dowel pin through the flow slots at -43m (C6), and for Caissons C8 (-43m) a top hat arrangement was used as there was no flow slot within the caissons.

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ROV Installation Imagery

