



## STONES JACK REPLACEMENT

Conbit was contracted to assist with the replacement of one of the nine turret cylinders (jacks) on Shell's Stones Turritella FPSO. The hydraulic jack weighed around eight tons and measured five meters in length. The jack was located three levels below the main deck, inside the FPSO turret buoy, in a congested area accessible only via a lifting hatch.

For this project, Conbit worked together with hydraulic jack service company Hydradyne who were responsible for decommissioning the jack. Conbit provided support with all the required lifting jobs, providing all lifting and handling equipment and transferring each part from turret to the reach of the deck crane.



*Removal of the old jack*

### PROJECT

- ✓ ENGINEERING
- ✗ PROCUREMENT
- ✓ CONSTRUCTION

Client  
Shell

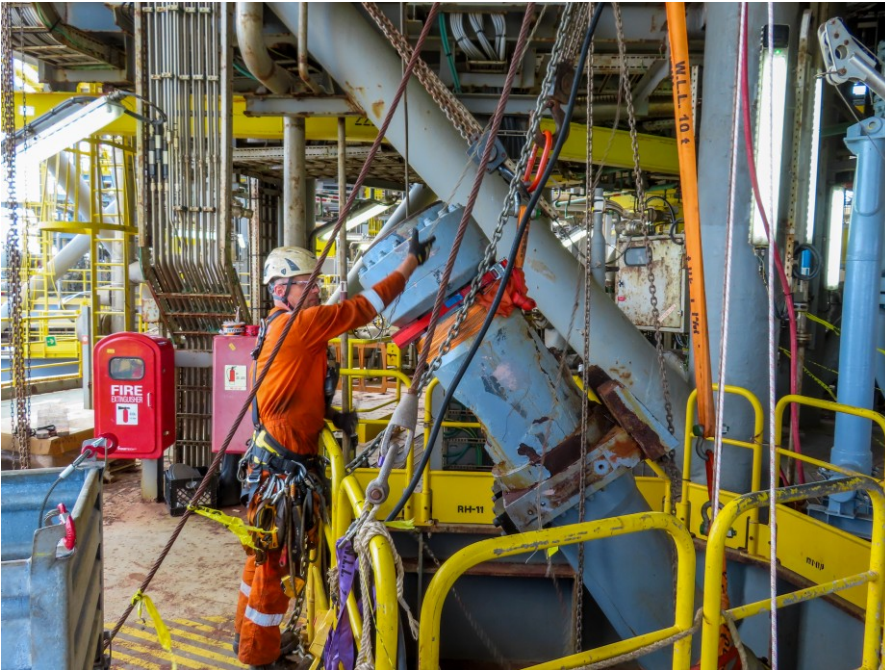
Project Number  
31823

Project Name  
Stones Jack Replacement



# STONES JACK REPLACEMENT

01SD164-A



Removing old jack through lifting hatch



New jack ready for installation



Hydraulic jack being installation

## SOLUTION

To remove and transport the jack, Conbit used multiple rigging lines and chain hoists to cross-haul the loads inside the turret buoy. As well as various beam trolleys and rigging lines at the main deck to transfer the loads to the reach of the deck crane.

## CHALLENGES

The project's main challenges were the size and weight of the main jack. This required precise positioning of the rigging lines and a defined path to safely transfer and rotate the load.

## EQUIPMENT

To remove and maneuver the old jack from its location and replace it with the new jack, Conbit used beam trolleys, chain hoists, air hoist, and rope access equipment to navigate the tight space.

## EVALUATION

Good communication and support from all parties resulted in swift progress and resolution of questions and challenges. The client was very satisfied with the result and the preparedness and flexibility of Conbit offshore and office teams. With eight identical hydraulic jacks in the turret, they are confident that future replacements are feasible.



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