



## BONGA SPM Closing Spool Installation

Shell Nigeria Exploration & Production Company

The Bonga field situated in OML 118 lies 120 km to the South West of Warri, on the continental slope in the southern part of the Niger Delta in approximately 1000 meter depth of water. The license is operated on behalf of the Nigerian National Petroleum Corporation (NNPC) by Shell Nigeria Exploration and Production Company Limited (SNEPCo) in partnership with Exxon, Agip and Total. The field development consist of a spread moored Floating Production Storage and Offloading (FPSO) to which a network of subsea trees and associated hardware are connected to facilitate oil production from and water injection into the reservoir.

Oil is exported from the field after processing on the FPSO through the flexible offloading risers and Single Point Mooring (SPM) tanker loading system while the gas produced is exported via a pipeline to the Offshore Gas Gathering System (OGGS), where it is commingled with gas from the EA field and transported to shore at the Bonny Island LNG Facility, which is operated by Nigeria Liquefied Natural Gas Limited.

Ariosh was contracted to carry out laser survey on the space between the spools before the valves and the face of BOOR of the SPM Center-well. This is to be able to generate drawings needed to fabricate the closing spools between the valve and the BOOR head.

Laser Data was collected on the Valves and BOORS Center-well for virtual installation purposes. This was used to generate fabrication drawings, carry out data analysis and constructability reviews. The fabricated Closing Spools were also scanned with respect to the available space for the closing spools. As-Built Documentation of the SPM was also carried out after the Installation

### Services

As-Built Documentation, Fabrication Assurance, Virtual Installation

### Location

Bonga Offshore Field

### Safety Record

Zero LTI

### Total Man-hours

956hrs

### Status

Completed Q1 2018

