

## OML 83 & 85 Development Project

First E & P Nigeria Limited

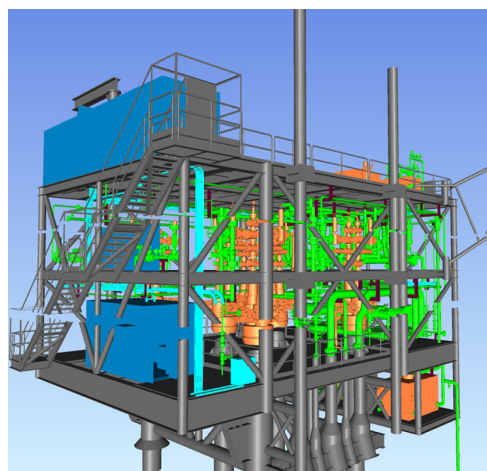
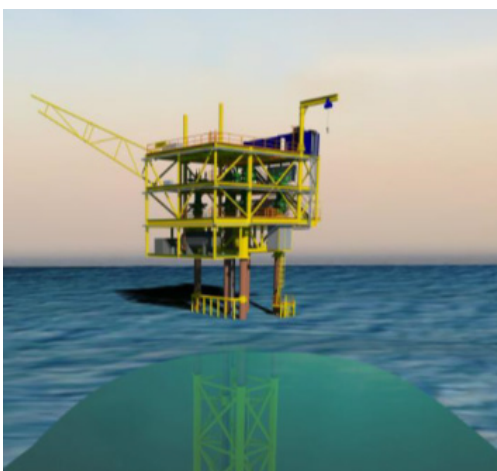
Ariosh completed the Front End Engineering Design (FEED) of OML 83 & 85 Field Development using integrated engineering solution.

OML 83 (Anyala) and OML 85 (Madu) oilfields are located offshore of the Niger Delta coast of Bayelsa State. The proposed development for the Anyala and Madu project comprises of four (4) conductor supported platforms (CSPs) within the fields with a total of 20 wells.

Phase 1 of the project involves development of both Anyala West (ANDP1) and Madu (MADP1) oil reservoirs. Production fluid will be offloaded to a spread moored FPSO. The project is expected to deliver a production capacity of 50,000 bopd. First oil is forecasted for Q1 2019.

The scope of work is FEED 2 nos Conductor Supported Platforms (CSPs) with sufficient details to support procurement of Long Lead Items and enable Company proceed with EPCI.

- Two CSP each consisting of
  - Gathering Manifold and Gas lift/Gas Injection Manifold
  - Import and Export Riser; Power and Control Umbilical
  - Chemical Injection System and Pig Launcher;
  - Control Room and Emergency Personnel Refuge
  - Process Control and Integrated Safety System
  - CCTV and Intruder Detection System
  - 10 mT Crane
- Flowlines and Jumpers
  - 10 inch 22km export Flowline from Madu to FPSO
  - 10 inch 22km Gaslift/Gas injection Import pipeline from FPSO to Madu
  - 2 Nos 12 inch export jumpers for LP & HP from Anyala to FPSO
  - 6inch test jumper from Anyala to FPSO
- Power and control umbilical
- Interface with FPSO



### Services

Front End Engineering Design

### Phase 1 Facilities

- Two CSPs
  - ANDP1: 50.7m water depth
  - MADP1: 28.7m water depth
- One FPSO;
- Flexible jumpers, power and fibre optic cables between ANDP1 and the FPSO;
- Flowlines, electrical and fibre optic cables between MADP1 and FPSO;
- Flexible riser between FPSO & seabed flowline connections; Rigid risers between MADP1 topside and seabed flowline connections or J-tube for flexible pull-in.

### Jumpers/Flowline

- 10 inch 22km export Flowline from Madu to FPSO
- 10 inch 22km Gaslift/Gas injection Import pipeline for FPSO to Madu
- 2 Nos 12inch export jumpers for LP & HP from Anyala to FPSO
- 6inch test jumper from Anyala to FPSO

### Location

Nigeria, West Africa

### Completion Status

Completed