

Chevron Tombua Landana



Client:
Chevron / Cabinda Gulf Oil
Company

Location:
Offshore Angola, Africa

Project Type:
SURF

The Tombua Landana project was successfully completed offshore Angola in 2009 representing another safe and successful display of Subsea 7's global engineering and project management excellence, as well as its in-country capabilities and embedded local facilities in Angola.

The scope of work involved the design, procurement, fabrication, installation and pre-commissioning of the tie back facilities for the Tombua Landana development. Subsea 7 was responsible for the fabrication and installation of steel pipelines, flowline jumpers, connectors and PLETs along with the installation of manifolds and distribution units.

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Water depth

270m to 370m

Project Type

SURF

Date Awarded

September 2006

Date Completed

March 2009

Vessels/Spoolbases Utilised

Luanda spoolbase, Angola
Seven Oceans
Toisa Perseus

Overview

The Tombua Landana project included the following elements:

- 2 x 10" insulated production flowlines
- 1 x 8" insulated test flowline
- 1 x 12" water injection flowline
- 1 x 6" gas lift flowline
- 10 x flexible jumpers
- 10 x pipeline end terminations (PLETs)
- 1 x steel tube umbilical including associated equipment and flying leads
- 1 x six-slot production manifold and associated suction pile
- 1 x six-slot water injection manifold

The Subsea 7 scope of work for the Tombua Landana project involved the construction of a subsea well tie-back system from the Tombua South Drill Centre to a new drilling and production platform where water depths range between 270 and 370 metres.

Subsea 7 was responsible for the fabrication and installation of steel pipelines, flowline jumpers, connectors and PLETs along with the installation of operator supplied equipment including manifolds and distribution units. Project management, engineering and procurement of major items were executed from Subsea 7's office in Houston. Fabrication of the pipelines, PLETs and umbilical were undertaken and managed in Angola at facilities in Luanda and Lobito. Fabrication of pipelines was completed by local Angolan welders at Subsea 7's Luanda spoolbase.

The Luanda facility has recently benefited from an extensive upgrade which included extending the firing line to provide improved workstations for welding, non-destructive examination and field joint coating. Permanent mid-line and spooling tie-in stations were also introduced to improve efficiency of these operations, along with more general operational environment improvements.

A key benefit of this project was the on-the-ground presence of a fully-embedded Angola team of over 50 personnel, including a significant number of Angolan nationals.

The workscope was split into two campaigns with pipelay and drill centre works being completed by the Subsea 7 new-build pipelay vessel *Seven Oceans* and deepwater construction vessel *Toisa Perseus* in Q3/Q4 2008. Following platform installation in Q4 2008, platform tie-in works were completed successfully by the *Toisa Perseus* in Q1 2009.

Subsea 7 was subsequently presented with a safety award by Chevron in recognition of completion of operations without a lost time incident and the commitment of Subsea 7 towards being incident and injury free during the project.

This contract seamlessly follows the successful completion of another project for the same client, executed between 2004 and 2006, at the nearby Lobito and Tomboco fields.



Suction pile for production manifold



Seven Oceans during spooling operations at Luanda Spoolbase, Angola



Angolan Welders fabricating flowline stalk at Luanda spoolbase