

Tombua Landana

PROJECT OVERVIEW

Seven Oceans during spooling operations at Luanda Spoolbase, Angola



Design, procurement, fabrication, installation and pre-commissioning of the tie-back facilities for the development of Cabinda Gulf Oil Company's Tombua Landana field, offshore Angola.

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

LOCATION

The Tombua Landana field is located in the Eastern part of Block 14, offshore Cabinda, Angola with water depths between 270 to 370 metres.

CLIENT

Chevron / Cabinda Gulf Oil Company

PROJECT DURATION

Contract Award	September 2006
Pipeline Fabrication completed	April 2008
Offshore Installation campaign 1	May – September 2008
Offshore Installation campaign 2	January – March 2009
Subsea Mechanical Completion	March 2009

ASSETS

Pipeline Fabrication	Spoolbase in Luanda, Angola
Pipelay Vessel	Seven Oceans
Construction Vessel	Toisa Perseus



Suction pile for production manifold

SCOPE OF WORK

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 100% local Angolan welders at Subsea 7's Luanda spoolbase.

The 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 is the on-the-ground presence of a fully-embedded Angola team of over 50 personnel, including a significant number of Angolan nationals, who are providing an excellent level of service.

The workscope was split into two campaigns with pipelay and drill center works being completed by the Subsea 7 new-built 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 toward 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.



Angolan Welders fabricating flowline stalk at Luanda spoolbase