

GABON

TOTAL – ANGUILE REDEVELOPMENT

SURF EPIC

AN EPIC STORY IN SHALLOW WATERS

When Total Gabon decided to redevelop the Anguille Field in Gabon to improve the oil recovery, the Telford 34 was engaged to undertake the execution of the pipeline EPCI contract to connect the platforms in water depth of 30m, 20km offshore Port-Gentil.



TOTAL – ANGUILE REDEVELOPMENT



This project consisted of the design, procurement and installation of a 32km, 18" pipeline between existing platforms in the Torpille and Anguille fields in water depths of 30-40m. The project was successfully completed in 2012.



After a number of successful accommodation/lifting contracts for Total in West Africa, this contract represented the first pipelay project for Total in the region.

The project was executed by the Telford 34 (ex Jascon 34), one of Telfords' DP3 Offshore Construction/Accommodation Support Vessels (ASV).

In house engineering works included the design endorsement, detailed design and installation engineering of the pipeline, risers, spoolpieces, riser clamps and riser protection frame. Procurement was a significant component of the project and in excess of \$24 million of permanent material (line pipe, structures, etc.) was procured and fabricated as part of the scope.

The scope included:

- Detailed design of pipeline, riser, spool and riser protection frame
- Installation engineering of all offshore activities
- Procurement of all materials, including 32km x 18" concrete coated pipe
- Fabrication of 2 risers with complex PFP coating, 2 expansion spools and a riser protection frame
- S-Lay of a new 18" x 32km pipeline
- Subcontracting and management of all logistics and transport, diving services and pre-commissioning scope
- Offshore installation of risers, spools and riser protection frame
- Topsides works including bumper removal and are boom removal.

PROJECT OVERVIEW

CLIENT

Total Gabon

PROJECT

Anguille Redevelopment

LOCATION

Gabon

PROJECT TYPE

Pipelay (full EPCI)

CONTRACT PERIOD

May – December 2012

VESSEL

TELFORD 34 & supporting fleet





The offshore program was split into two phases:

- Phase 1 consisting of boom removal, crossing installation, rigid pipelay and post-lay survey operations running from June to August 2012,
- Phase 2 including pig running (flooding/cleaning/ gauging), riser clamps and riser installation, spoolpiece metrology (to allow accurate fabrication of the spoolpieces on the Telford 34 deck), spoolpiece installation and tie-in at each end of the pipeline, installation of a riser protection frame and hydrotesting and commissioning of the completed pipeline system.

All operations were performed from the Telford 34, utilizing air diving and ROV systems to complete the subsea works.

Automatic welding systems for the pipeline welding operations were used on the Telford 34 with daily production and weld acceptance performance rates better than industry standard.

In addition to the vessel-based operations there was significant work performed on the two existing platforms to accommodate the risers, which involved the installation of

additional bracings and extensive use of rope access techniques to access the work locations.

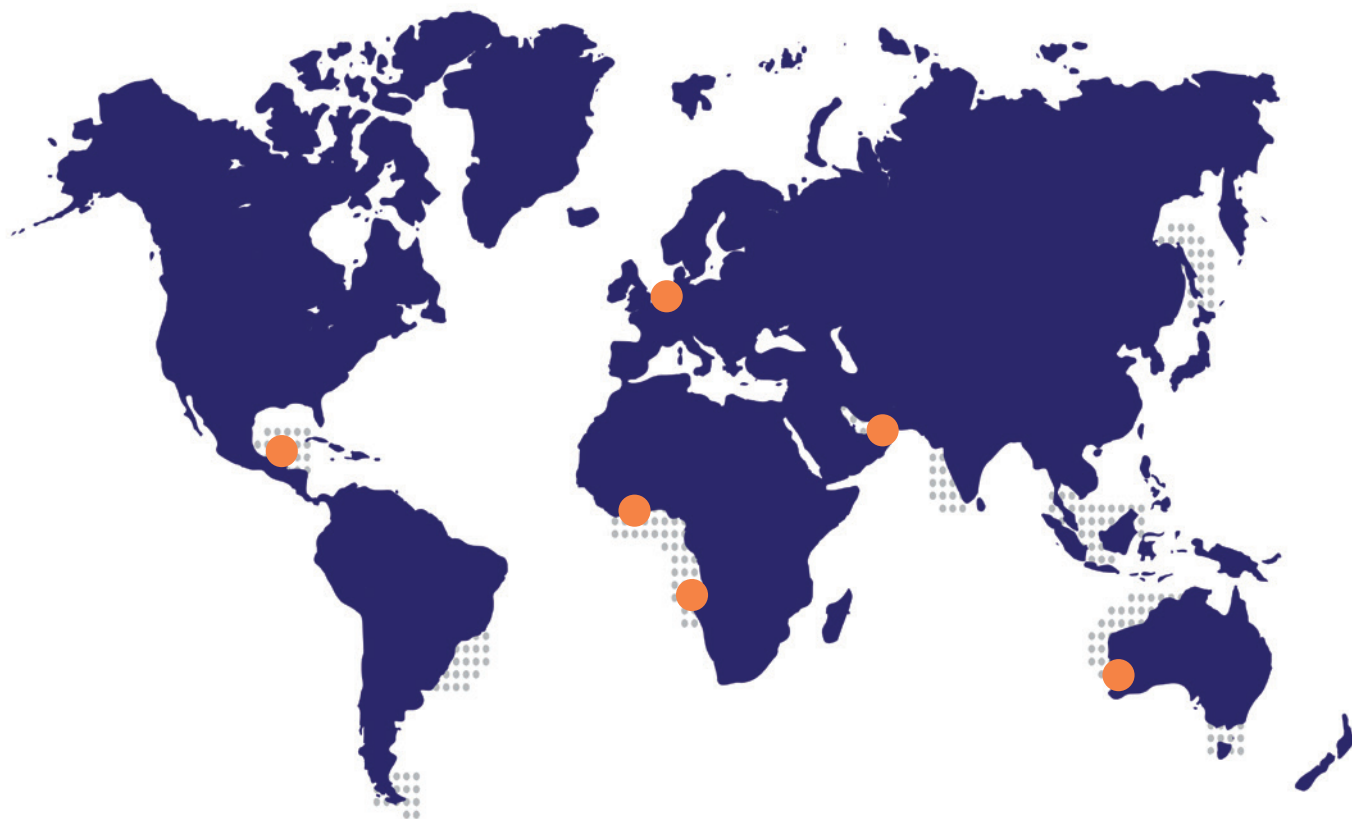
Excellent QHSSE results

The entire project was completed without an LTI (Lost Time Injury). The LTIFR (Lost Time Injury Frequency Rate) was 0.0 achieved for the Project with our target having been set at 0.6. The TRIFR (Total Recordable Injuries Frequency Rate) was 1.38 achieved for the project with our target having been set at 2.2.

Telford 34 successfully completed the pipelay scope and remaining subsea work in Q4 2012.



LOCATIONS - OPERATIONS



**Our locations around the world mean we're always close to our customers.
We serve all operators, from majors, internationals and NOCs to small independents and contractors —
so let's keep in touch.**

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