

AUSTRALIA

BHP BILLITON - PYRENEES

FLEXIBLE PIPELAY AND CONSTRUCTION

SCALING NEW PEAKS ON THE NORTH WEST SHELF!

For its first large SURF EPIC contract managed in a JV with Wellstream, the Telford 25 adapted to all changes over the life of the project located 20km offshore North West Cape, Western Australia. On 1st March 2010, the client was able to announce first oil production has commenced ahead of schedule.



BHP BILLITON - PYRENEES - SURF EPIC





The contract was awarded for the SURF development of Pyrenees through the Seastream JV - a joint venture with Wellstream International. The scope included all subsea installation services and supply of approximately 55km of flexible risers and flowlines for this major development in the North West Shelf, Western Australia.



OVERVIEW

Overall installation scope:

Management, engineering, transportation, installation and pre-commissioning of:

- 9-leg mooring system, complete with detachable submersible turret
- 4 mid-water arches
- 8 riser bases
- 7 subsea manifolds
- 55 km flexible pipe
- 24 km control umbilical
- 28 flexible jumpers
- 87 flying leads

Supply of:

- 4 mid-water arches (largest single unit approx. 710 t)
- 8 riser bases
- 55 km flexible pipe (4" to 12" diameter)
- 28 flexible jumpers
- All risers are 520 m in length, ranging in size from 4" through to 10"
- Manifolds range from 40t to 160t hook weight
- All lines were installed using a horizontal lay system

PROJECT OVERVIEW

CLIENT

BHP Billiton

PROJECT **Pyrenees**

LOCATION

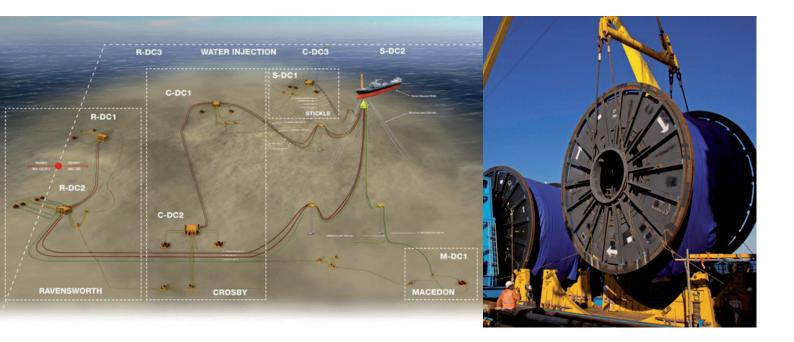
Australia

PROJECT TYPE
SURF (EPIC)

April 2009 - February 2010

VESSEL
TELFORD 25





INFORMATION

The Pyrenees Project encompassed the development of three separate oil reservoirs – Ravensworth, Crosby and Stickle, all to be tied back to an FPSO. The fields are located approximately 20 km north of the Exmouth peninsula, Western Australia in waterdepths up to 220 m.

The project was secured by Seastream JV against strong competition from competitors. Seastream was successful because of the ability to offer a fully integrated supply and installation service, which combined the product, quality and delivery experience of Wellstream with the technical capability and flexibility of the Telford 25 (ex Jascon 25), a unique combination.

Seastream JV opened a new project office in Perth, Australia to accommodate the 40-person strong project team and provide in-country management capability. Project Management and Engineering totalled approx. 160,000 man hours over the project duration, while the installation campaign totalled over 200 vessel days, including 3 mode changes between mooring, structures and flexible/umbilical installation campaigns. The engineering achievements included the design and fabrication of the purpose built flexible lay system for the project.

During the offshore phase of the project Seastream JV installed and pre-commissioned the FPSO turret and mooring system, subsea manifolds, mid-water arches, flowlines, risers and umbilicals. Cameron diverless connections were used to tie-in the flexibles to the manifolds and trees.

During the execution of the project, technical changes meant significant increases in the size and weights of some equipment, which the project team and the installation vessel were able to accommodate. MWA Installation hook loads were up to 710t, and flexible lay continued in Hs of over 4.0 m.

The flexibility of the vessel design combined with the fully integrated product design has meant that the project remained on schedule throughout the contract and resulted in the successful completion of the offshore campaign in January 2010.



LOCATIONS - OPERATIONS



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