

Statoil Vega



Client:
Statoil Hydro

Location:
Norwegian North Sea

Project Type:
SURF

The Vega project was a subsea tie-back from the gas and condensate field Vega to the new Gjøa floating production platform and was the first to utilise the Subsea 7 spoolbase at Vigra. It demonstrated the company's proven EPIC capability and its experience in safely and efficiently managing the logistics of several vessels working in-field.

The work scope included the engineering, procurement, installation and commissioning of 52km of rigid and MEG flowlines, umbilicals and five spools.

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Project

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Location

Norwegian North Sea

Water depth

365m to 380m

Project Type

SURF

Date Awarded

May 2007

Date Completed

September 2009

Vessels/Spoolbases Utilised

Toisa Perseus
Seven Navica
Seven Oceans
Seven Seas
Seven Sisters
Vigra Spoolbase

Overview

The Vega gas and condensate field is made up of the discoveries Vega North, Vega Central and Vega South (previously Camilla, Belinda and Fram B) in the northern part of the North Sea.

Managed by a project team in Subsea 7's Stavanger office and supported by Subsea 7's engineering team in London, key elements of the project included the engineering, procurement, installation and commissioning of:

- Rigid flowlines (52km)
- 3 x umbilicals (52km)
- 3 x MEG lines (52km)
- 5 x spools

Specifically, this consisted of three four-slot subsea templates, a 14" ID/12" ID daisy chained flowline system, flowline expansion spools, a static umbilical and a dynamic umbilical and a 3" ID MEG line. All lines, spools and the umbilical were installed in the 2009 installation season. The flowlines were designed based upon a Subsea Instrumental Pressure Protection System (SIPPS). This system design required fortified zones on the flowlines at each side of the subsea templates.

Rock dumping, design and trenching of MEG pipelines and umbilicals were also performed by Subsea 7.

The Vega project was the first to make use of Subsea 7's new pipeline fabrication yard and spoolbase at Vigra. The spoolbase is located beside Ålesund airport, Vigra on the north west coast of Norway and runs 3.7km across the island. It includes a purpose-built deepwater quay area, covering a total area of 284,505 m². This makes it one of the longest spoolbase facilities of its type in the world.

The riser at Gjøa was hooked up and commissioned in August 2010. The field is scheduled to be brought on-stream in 2011.



Flowlines were fabricated at Vigra Spoolbase, Norway



The Seven Oceans, Pipelay Vessel, supported offshore operations