

Ithaca Jacky

PROJECT OVERVIEW

Mid-Line structure over boarding (Seven Sisters- Beatrice Field)



Fast-track project management, fabrication, installation and offshore pre-commissioning of a 10.5km production and water injection pipeline and power cable tie-back to the new Jacky platform from the Beatrice Alpha platform; with a 1km production and water injection pipeline tie-back of the Beatrice Bravo platform to a mid-line manifold structure.

Project included the following elements:

- 1 x Power cable (10.5km)
- 2 x 6" Rigid flow lines (10.5km and 1km)
- 2 x 8" Rigid flow lines (10.5km and 1km)
- 1 x 80te Midline structure
- 223 Concrete mattresses
- 1 x 84te Tether clump weight
- 38 x Tie-in and metrology spools
- Trenching
- Rock dumping for upheaval buckling (UHB) mitigation and pipeline protection

LOCATION

The Jacky development is located in Block 12/21c of the North Sea, approximately 19 kilometres to the east of the Moray Firth East Caithness cliffs and 10km northwest of the Beatrice Alpha complex in Block 11/30. The water depth is 37 - 47 metres.

CLIENT

Ithaca Energy (UK) Ltd

PROJECT DURATION

Contract Award	June 2008
Engineering completed	January 2009
Fabrication completed	January 2009
Pipelay	December - January 2009
Structures and spools installation and storage	January 2009
Tie-ins	February/March 2009
Rock dump and protection	March 2009

ASSETS

- Vigra Spoolbase, Norway
- Seven Navica
- Rockwater 1
- Seven Pelican
- Seven Sisters
- Kommandor Subsea

SCOPE OF WORK

The scope of work involved the project management, fabrication, installation and offshore pre-commissioning of 10.5km production pipelines, water injection pipelines and power cable, which were tied-back to Ithaca Energy's Jacky platform, from the Beatrice Alpha platform. 1km production and water injection spur pipelines were also laid and tied into the Beatrice Alpha platform from Beatrice Bravo via a mid-line manifold structure.

Subsea 7 was responsible for the procurement of flanges and installation aids. Pipeline welding was carried out by Subsea 7 at its Vigra Spool base in Norway.

Offshore preparation work associated with the re-use of existing risers at Beatrice Alpha and Beatrice Bravo was completed offshore by the Rockwater 1, with support from the Subsea Viking.

The Seven Navica installed the production pipeline, water injection pipeline and power cable. The power cable was laid directly next to the water injection line so that they could be simultaneously trenched. Pipe lay and survey support was provided by the Kommandor Subsea. The Seven Sisters gauged the pipelines and installed the 80T midline structure and the fixed spools.

The Seven Pelican, in conjunction with Subsea 7 rigging teams on Beatrice Alpha and Jacky, repositioned and pulled the power cable up into the two platforms and commenced the spool tie-ins, which were subsequently completed using the Rockwater 1. The Rockwater 1 also completed the leak testing and some mattress protection work. The Seven Sisters was used to complete the mattress protection work.

Offshore construction was finished in March 2009, allowing Ithaca to obtain first oil from Jacky at the beginning of April 2009.



Ithaca Jacky Platform



Ithaca's Windcat transferring personnel from the Seven Pelican to the Jacky platform