

# PROJECT SHEET

**WINTERSHALL L8-P4**  
UMBILICAL TIE-BACK

## BOSKALIS

Royal Boskalis Westminster is a leading global marine contractor and services provider. With safety as our core value, we offer a wide variety of specialist activities to the oil & gas and renewables sectors. These activities include marine installation and decommissioning, seabed intervention, marine transport and services, subsea services and marine survey. In addition, Boskalis is a global dredging contractor, provides towage and terminal services across the globe and delivers marine salvage solutions.

By understanding what drives our clients we are able to provide the solutions that enable them to meet their specific business goals. For this reason we are constantly looking for new ways to broaden and optimize our offering and are committed to expanding our proposition, supported by our financial strength.

With our committed professionals in engineering, project management and operations, 900 specialized vessels and an unprecedented breadth of activities in 90 countries across six continents we help our clients in the offshore industry push boundaries and create new horizons.

## INTRODUCTION

Wintershall Noordzee B.V. installed a new remote platform at L6-B as a gas production tie-back to L8-P4. L6-B is a remote and unmanned gas well unit. Utilising a dry-tree design, all control, power and metered injection for the two wells will be via the 19.5-km control umbilical between the new satellite platform L6-B and the operational gas platform L8-P4.

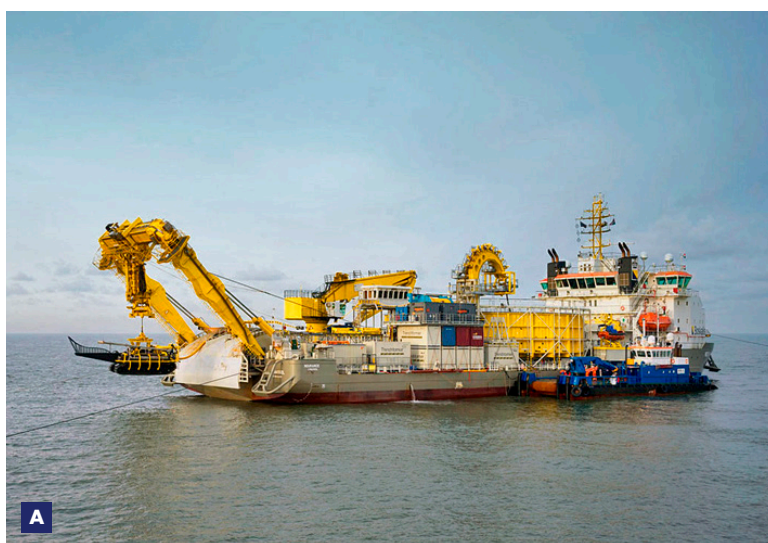
The umbilical forms the entire link between the remote platforms, supplying and controlling all functions and ensuring continual feedback and monitoring of L6-B. The umbilical supplies all the necessary input data, control and feedback to eliminate the usual day-to-day requirement of direct human contact.

The umbilical was installed from L8-P4 first end to second end pull-in at L6-B remote end. Both platforms are located in Dutch territorial waters in the North Sea.

The umbilical was connected/pulled in to L6-B via a J-tube and internal conductor to the L6-B topside - TUTA. The umbilical will be installed from L8-P4 - first end with pull-in to topside deck via a J-tube, laid in corridor separate from the 8-inch pipeline between L8-P4 and L6-B.

## FEATURES

Client	Wintershall Noordzee B.V.
Location	North Sea, the Netherlands
Period	February 2014 - August 2014
Contractor	Boskalis



## FACTS AND FIGURES

- Water depth 30-35 meters.
- Challenging North sea conditions.
- Challenging soft seabed.
- Fast-track project, with a short lead-time between award and installation – Feb 2014, July/Aug installed.
- Stepped phase process of pull-in, laying and burial ops.
- Completed on time, with no incidents.
- Umbilical loaded quickly and safely.
- Umbilical length 19.5 km.
- Burial scope of single pass burial of umbilical minimum requirement of 1 m TOC (top of cover).

**SCOPE OF WORK**

- Prepare project planning for Boskalis’ scope of work.
- Survey work, including a pre-burial, as-laid and post-burial survey.
- Perform route engineering and installation engineering to optimize the performance of the installation scope, including a detailed burial assessment study (BAS).
- Prepare platform on L8-P4 and L6-B.
- Define umbilical length together with the client.
- Umbilical load-out at DUCO Newcastle (UK) onto the installation vessel Ndurance.
- Hang-off of umbilical end.
- Crossing 36-inch live gas pipeline Callantssoog.
- Pull-in at L6-B & L8-P4 platforms – direct from vessel as part of SIM-OPS.
- Mobilize and demobilize all installation spreads for Boskalis’ scope.
- Provide engineering support during the offshore umbilical installation, including burial.
- Provide QHSE management for Boskalis’ scope.

