

# PROJECT SHEET

**AASTA HANSTEEN**  
TRANSPORT AND INSTALLATION

## 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

The Aasta Hansteen platform operated by Equinor is the world's largest Spar platform and the first of its kind on the Norwegian continental shelf (NCS). Total recoverable reserves for Aasta Hansteen, previously called Luva, are preliminarily estimated at about 47 billion standard cubic metres (scm) of gas and 0.8 million scm of condensate. The platform will be the first Spar with storage capacity and will be able to store about 25,000 scm of condensate, and export gas via the Norwegian Sea Gas Infrastructure (NSGI). Both the Spar hull and Topside have been fabricated in South Korea. The Topside living quarters has been fabricated in the Netherlands.

## FEATURES

Client	Hyundai Heavy Industries (ultimate client Equinor)
Location	Rotterdam (Netherlands)/Ulsan(South Korea)/Stord(Norway)
Period	December 2015 - December 2017
Contractor	Boskalis
Equipment	MV Swan, MV Swift, MV Teal, MV Boka Vanguard, MV White Marlin



## SCOPE

The Boskalis scope for the Aasta Hansteen project consisted of three phases:

- Living Quarters transport, from the Netherlands to Ulsan, South Korea, onboard MV Swan
- FPSO Spar Transport, from South Korea to Stord, Norway, onboard MV Boka Vanguard
- Topside T&I
  - Topside Transport, from South Korea, to Stord, Norway, onboard MV White Marlin
  - Topside Transfer from MV White Marlin to two MV Swift & MV Teal
  - Topside Installation by means of a Dual-barge float-over operations



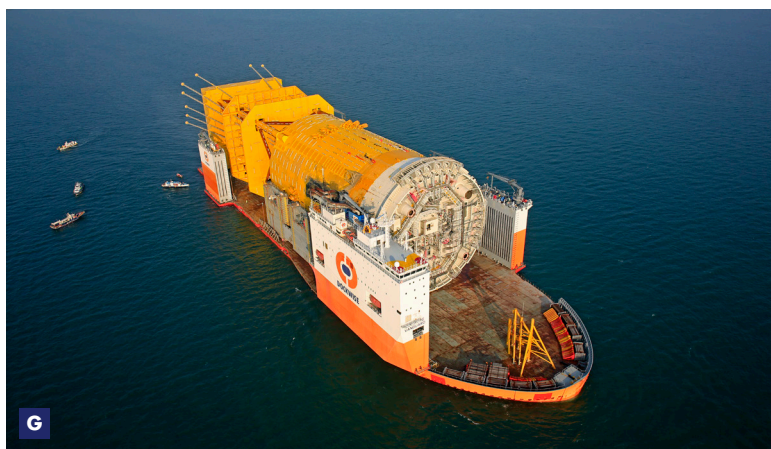
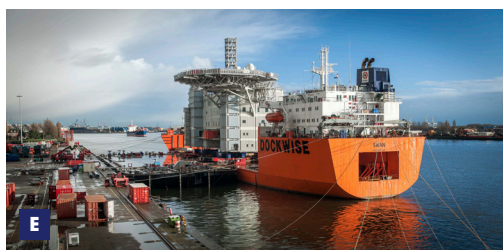
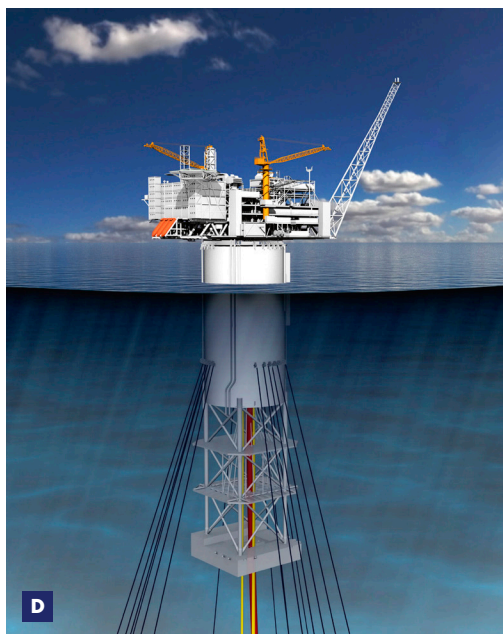
**CONCLUSION**

All three phases have been executed according plan exceeding CLIENT's expectations without any injuries or accidents.

The Dual-barge float-over by means of 2 HTV's can be recognized as a one of a kind non-standard operation where extensive engineering and operational simulations have led to an extraordinary result.

**CARGO PARTICULARS**

Type	Living Quarters	FPSO Spar	Topside
Weight	3,400 t	46,000 t	25,000 t
Length	68 m	204 m	84 m
Width	39 m	50 m	107 m
Height	40 m	50 m	63 m



- A** Topside Transfer
- B** Topside Transport
- C** Topside Installation
- D** Aasta Hansteen Platform illustration
- E** Living Quarters Transport
- F** Aasta Hansteen Platform
- G** FPSO Spar Transport