

PROJECT SHEET

SHELL MALIKAI
LOADOUT OF INTEGRATED TENSION LEG PLATFORM (TLP)

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.

MALIKAI TLP PROJECT

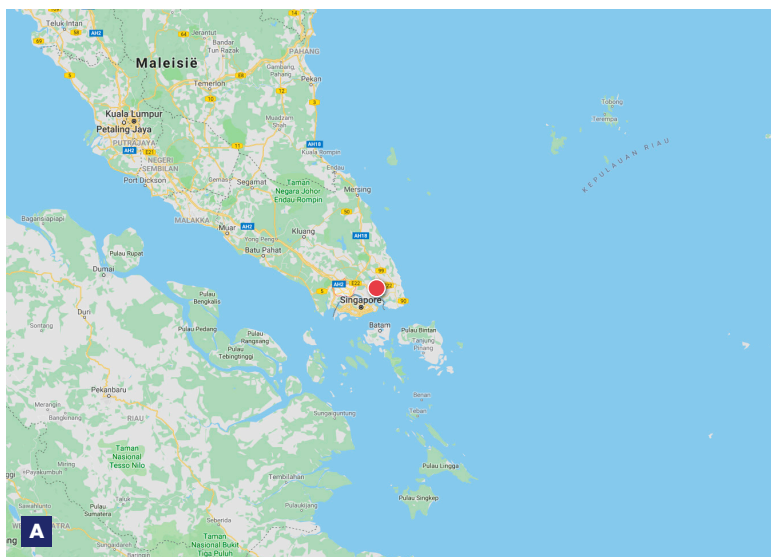
Malikai is a deepwater oil discovery in offshore Sabah, Malaysia where Sabah Shell Petroleum Company is the designated Operator. A floating Dry Tree Unit (DTU) will be installed over Malikai field utilizing a Tension Leg Platform (TLP) design that suits the Malikai environment.

The 27,500 MT Malikai TLP is to be located about 110 km off the shore of Sabah (East Malaysia) in the South China Sea in water depth about 500 m.

Boskalis was awarded a contract in 2014 for the provision of the Heavy Transport Vessel (HTV) for loadout and float-off package of the Project which includes loadout of the Integrated Malikai TLP from MMHE fabrication Yard into HTV, Dry-transport to Johor Buoy, Float-off, Tow back and Re-delivery to TMJV at MMHE fabrication yard.

FEATURES

Client	Technip MMHE Joint Venture (TMJV)
Location	MMHE, Johor Bahru, Malaysia
Period	April 2016
Contractor	Boskalis
Vessel	White Marlin



SCOPE

- Loadout, Transport and Float-off Engineering
- Design, construct and installation of grillages, skid beams and seafastening
- Preparation and Mobilization of White Marlin
- Ballasting of the HTV during the skidded loadout operation
- Provision of marine spread for the float off operation
- Demobilization of White Marlin and reinstatement

A Location map (loadout)

B Loadout of TLP onto White Marlin

PROJECT CHALLENGES

Technical challenges included the ability to adapt and successfully perform:

- The discharge of the TLP offshore in Desaru instead of the original location of Johor Port;
- The loadout of the integrated TLP ballasted instead of un-ballasted prior to loadout
- The outfit of a HTV in Vietnam for the first time

NINA

The project was executed without incident. The NINA initiative was not only inculcated within the Boskalis PMT but also with key subcontractors.

CONCLUSION

The success of the project was due to the strong collaboration between all parties. The loadout operation had several difficult challenges; technically and operationally.

However, this was all resolved through communication and the close cooperation between TMJV and Boskalis, which ensured that the TLP was still loaded in a safe, operationally sound and timely manner.



C Loadout of TLP onto White Marlin

D TLP in position onboard White Marlin

E TLP on-route to Desaru onboard White Marlin

F TLP safely floated off from White Marlin

