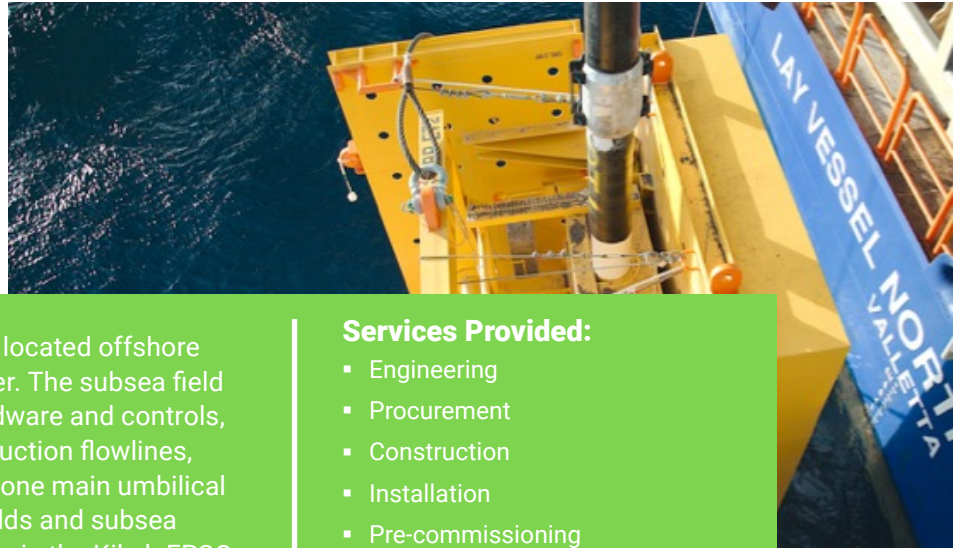


# SIAKAP NORTH PETAI, MURPHY SABAH OIL CO. LTD.



The Siakap North-Petai (SNP) field is located offshore Sabah, Malaysia, in 4,429 feet of water. The subsea field development consists of subsea hardware and controls, two rigid, insulated, pipe-in-pipe production flowlines, one rigid water injection flowline and one main umbilical system connecting eight new manifolds and subsea distribution units to existing riser slots in the Kikeh FPSO.

## Services Provided:

- Engineering
- Procurement
- Construction
- Installation
- Pre-commissioning

The SNP field is located approximately 8 miles northeast of the Kikeh FPSO and first oil was achieved in February 2014.

**Project Management:** The project was managed out of McDermott's office in Kuala Lumpur.

**Engineering:** The McDermott Malaysian affiliate completed detailed design, construction and installation engineering with support from McDermott in Singapore and Houston.

**Procurement:** All procurement activities were executed by the McDermott Malaysian affiliate with support from Singapore.

**Construction:** Fabrication of all subsea structures took place at Aker Solutions Port Klang and McDermott's Batam fabrication facility.

Pipeline **Spoolbase:** McDermott performed the pipeline stalking and reeling operations from its Batam spoolbase.

**Installation:** McDermott subsea construction vessel Lay Vessel North Ocean 105 installed all rigid pipe-in-pipe production flowlines and rigid water injection flowlines in more than 3,900 feet of water. Flexible risers were installed by McDermott's subsea construction vessel North Ocean 102. McDermott performed a comprehensive System Integration Test of the subsea units and provided commissioning assistance.

## Facilities

- Subsea infrastructure; risers, umbilicals, flowlines, subsea hardware and controls.

## Location

- Siakap North – Petai, Block K, offshore Sabah, Malaysia

## Water Depth

- 3,900 – 4,900 feet

## Yards

- Batam Island, Indonesia

## Vessels

- LV105
- NO102
- Emerald Se
- Third-party ROV construction support vessels



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