

# OIL AND GAS FIELDS IN NORWAY

## INDUSTRIAL HERITAGE PLAN



NORSK OLJEMUSEUM

## Volund

This North Sea oil field lies in 120-130 metres of water 10 kilometres south-west of Alvheim, with Marathon Petroleum Norge as operator. The government approved the PDO for Volund and the plan for installation and operation (PIO) of the Volund-Alvheim pipeline on 18 January 2007.

### Reservoir and recovery strategy

The reservoir is an intruded Eocene sandstone structure in the Balder formation, about 2 000 metres down. Volund produces with water injection as the drive mechanism.

### Transport

Crude from Volund contributes to the Alvheim blend, transported to market by shuttle tankers. Associated gas is piped to St Fergus via Alvheim and a tie-in with Britain's Sage line.

### Volund

Block	24/9
Production licence	150
Awarded	1988
Total recoverable reserves	45.3 mill bbl oil 0.6 bn scm gas

Discovery year	1994
Approved for development	18 Jan 2007
On stream	16 Sep 2009
Operator	Marathon Petroleum

### Licensees

Marathon Petroleum Norge	65%
Lundin Norway	35%

### Development solution

Volund has been developed with three subsea wells and a water injection well, all tied back to the Alvheim FPSO.

## Vilje

This small oil field lies in about 120 metres of water 11 kilometres north of Heimdal. It is a subsea development tied back to the Alvheim FPSO.

### Reservoir and recovery strategy

The reservoir comprises turbidite sandstones belonging to the Palaeocene (early Tertiary) Heimdal formation, and lies roughly 2 150 metres beneath sea level.

An oil column about 68 metres tall was found by the discovery well. Oil is recovered through natural water drive.

### Transport

The wellstream is piped to Alvheim, where the oil is loaded into shuttle tankers.

### Development solution

Vilje has been developed with two subsea wells.

### Vilje

Block	25/4
Production licence	036
Awarded	1971

Total recoverable reserves	52.2 mill bbl oil 0.4 bn scm gas
Remaining at 31 Dec 2008	49 mill bbl oil 0.4 bn scm gas

Discovery year	2003
Approved for development	18 Mar 2005
On stream	1 Aug 2008
Operator	Statoil

### Licensees

Marathon Petroleum Norge	46.90%
Statoil	28.85%
Total E&P Norge	24.24%