



# Petrojarl Foinaven

## Oceangoing oil exploration

Norway

### **Petrojarl Foinaven**

The Petrojarl Foinaven is currently in operation for British Petroleum (BP) in the Foinaven Field in the Atlantic Ocean. It is a converted submarine tender originally built in Finland. Her length was increased to 253 m (827 ft) by joining the existing bow and stern of the vessel to a newly constructed 142.5 m (466 ft.) 14,592 ton, double-hulled middle section. 32 pre-assembled process units totaling 4,000 tons were added for its operation in Foinaven.

The vessel is turret-moored on the field located west of the Shetland Islands and has successfully weathered severe North Atlantic storms. This unit has been on contract with BP since 1996. The vessel has completed over 500 off-loadings to shuttle tankers.

Design: Russian designed submarine tender  
Built: 1989 at Wartsila, Turku yard, Finland  
Start of Production: November 1997

### **Main Dimensions**

Length Overall: 250.2 m (821 ft)  
Breadth: 34 m (112 ft)  
Draught: 12.8 m (42 ft)

### **Process Capacities**

Crude Oil: 140,000 bopd  
Produced Water: 120,000 bwpd  
Water Injection: 165,000 bwpd  
Gas Injection: 100 mmscfd



## CUSTOMER CASE

### Storage Capacities

Crude Storage: 260,000 bbls in five tanks

### Systems

Control Systems: Simrad positioning system; Siemens process control system (IGSS)

Riser System: Up to 15 flexible risers with umbilicals

### IGSS System

4 IGSS systems are installed. 2 multi-user systems of 15.000 objects each and 2 multi-user systems of 10.000 objects each, all redundant, are in place to supervise the production process. A total of 16 IGSS operator stations are present in the system.

### System Integrator

Siemens Norway