



# NORTHERN PRODUCER

## Floating Production Facility Equipment Overview



## SPECIFICATIONS

### SUMMARY DETAILS

**Gross Fluids:** 60,000 bbls per day  
**Oil:** 55,000 bbls per day  
**Gas:** 60 mmscfd.  
**Water Injection:** 59,000 bbls per day  
**Produced Water:** 40,000 bbls per day  
**FPF Owner:** Qualimar Shipping Limited  
**Duty Holder/Manager:** EnQuest plc  
**Previous Names:** Nortroll, Ali Baba, Emerald Producer  
**Type:** Aker H-3 Semi-Submersible  
**Builder:** Built 1976 by Trosvisc Framnaes, Norway  
**Helideck:** Suitability for Sikorsky 61 or equivalent  
**Lifesaving:** 4 x 38 man (TEMPSC) Offshore Marine Engineering Lifeboats. 8 x 20 man liferafts (4 x fws, 4 x aft)  
**Classification:** Lloyds Registry  
**Flag:** Cyprus

### MAIN DIMENSION

**Length Overall:** 108.2m.  
**Breadth Overall** 68.6m.  
**Breadth Moulded:** 67.4m.  
**Height Keel to Main Deck:** 36.6m.  
**Columns:** 4 x 7.9m diameter  
4 x 5.8m diameter  
2 x 3.8m, stabilising columns added at conversion to FPF.  
**Pontoons:** 2 x 108.2m long x 11.0m wide x 6.7m high.  
**Main Deck Dimensions:** 68.6m x 56.4m.  
**Deck Load:** Approx 4,500 tonnes.  
**Ballast Water Capacity:** 62,000 bbls (11,901 tonnes) in 31 pontoon tanks.  
**Fuel Oil Capacity:** 10,784 bbls (1,717 tonnes) in 6 tanks  
**Water Capacity:** 615 tonnes in 3 tanks  
**POB:** Maximum 60 POB, however during hydrocarbon production max. currently 64

### BASIC DESIGN

The Northern Producer was originally built as a drilling rig of Aker H-3 design prior to conversion to a floating production facility (FPF) in 1991. It has ten columns and two hulls with the columns and four 'A' shaped bracing structures supporting the rectangular deck. Conversion of the drill rig to a floating production facility (FPF) for the Emerald Field included the removal of redundant drilling equipment, installation of new production equipment and upgrading of accommodation, lifeboats, power generation, ballast and safety systems. Upgrading of the floating production facility, in 1997, to handle Galley fluids has seen extensive modification of the process facilities. The existing oil separation train and gas dehydration skid were retained and new gas compression, NGL removal, gas export, oil export, produced water treatment, chemical treatment, process cooling, oil and gas metering facilities were installed. The unit underwent a complete overhaul and accommodation upgrade at McNulty's shipyard in 2007.

### CURRENT FIELD APPLICATION

The Northern Producer Floating Production Facility currently operates on the West Don oil field and is located in blocks 211/13b to 211/18a in the northern part of the North Sea, in 170m water depth. It is situated about 150km north-east of the Shetland Islands and 12km north of the Thistle Field.

Production from the West Don field commenced on 28 April 2009 and the Northern Producer is tied in to the Thistle platform and Brent oil export infrastructure through pipelines.