

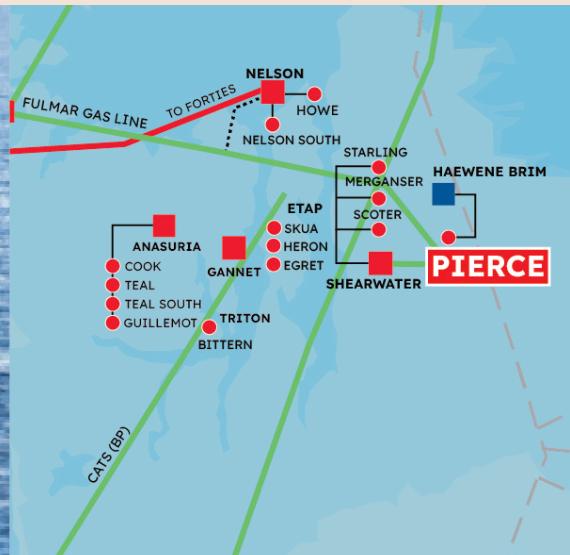
PIERCE

INSTALLATION

The Haewene Brim is a purpose built, double hull Floating Production Storage and Offtake vessel (FPSO). Bluewater Energy Services are the duty holder of the facility. It is located in the licence blocks 23/22a and 23/27a.

The purpose of the FPSO is the extraction, processing and storage and offloading of crude oil from the Pierce North and South fields. The FPSO extracts crude oil via subsea wells, processes the crude and stores it in cargo tanks prior to offloading via shuttle tanker. Produced gas is compressed and dried via onboard processing. Following the Pierce Depressurisation Project, processed gas is exported via the SEGAL system – previously produced gas was reinjected into the Pierce reservoir.

The Brynhild subsea tie-back, operated by Lundin Petroleum and located in the Norwegian sector of the North sea has been decommissioned and was previously processed via the Haewene Brim facility.



KEY FACTS

- **Block:** 23/22a & 23/27a
- **Sector:** Central North Sea
- **Approx distance to land:** 265km (165 miles) East of Aberdeen
- **Water Depth:** 262ft (85m)
- **Hydrocarbons Produced:** Oil and Gas
- **Export Method Oil:** Oil offloaded from FPSO to tanker
Gas is exported via pipeline to the SEGAL system
- **Operated / Non-Operated:** Operated

INFRASTRUCTURE INFORMATION

- **Entry Specification:** Sweet crude oil and associated gas 1.6mol% CO₂, H₂S <2.5ppm
- **Exit Specification:** BS&W 0.5%vol. Oil Storage 600kbbbs
Gas specification maximums (as per Fulmar line):
 - CO₂ 1.6% vol
 - H₂S 2.5ppmv
 - Water 35ppmv
 - Cricondenbar: 105bar
 - Oxygen 10ppm
 - Mercury 0.01micrograms/m³
- **Details of primary separation processing facilities:** Production manifolds, subsea flowlines, crude oil heater, 1st and 2nd stage oil/gas/water separation, test separator, 2x 100% crude oil heaters, 3x 50% crude oil export pumps
- **Outline details of gas treatment facilities:** Crude oil heater, 1st and 2nd stage oil/gas/water separation, test separator, 2x 100% crude oil heaters, gas recompressor (recovery) system, Glycol dehydration unit, 2 stage gas export compressor, H₂S management (scavenger chemical injection)

HIGH LEVEL CAPACITY INFORMATION

The basic capacity information is portrayed by colour coded 'traffic lights' that reflect thresholds of availability over the next 5 years.

Available Capacities:  >25%  5% to 25%  <5%  Unknown

Pierce firm processing capacity available	Ullage as % of system capacity					Comment
	2026	2027	2028	2029	2030	
Oil export capacity - 60kbbls/d						Tanker loading - no pipeline
Gas compression capacity - 115MMscf/d						Plant is optimised to maximise gas compression volume
Gas export capacity						Availability based on capacity of SEGAL system
Gas lift capacity						
Produced water handling capacity - 40kbbls/d						
Dehydration capacity - 115MMscf/d						Gas dehydration system capacity improvements scheduled
H ₂ S removal capacity						Scavenger chemical injection for control only
Water injection capacity						Water injection previously conducted on facility however no longer considered economic and equipment is now redundant.

CONTACT INFORMATION

Adura: For further enquiries regarding the above please contact
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