

Infrastructure Code of Practice

Britannia



Britannia is one of the largest natural gas and condensate fields in the North Sea processing oil, condensate and gas from the Britannia, Brodgar, Callanish, Enochdhu and Alder fields. (Finlaggan Field (Zennor operated) to be tied in during 2021).









































Condensate is delivered through the Forties Pipeline to the oil stabilisation and processing plant, Kerse of Kinneil, near the Grangemouth Refinery in Scotland, and natural gas is transported through a dedicated Britannia pipeline to the Scottish Area Gas Evacuation (SAGE) facility at St. Fergus, Scotland.

To enable production over Britannia, tie-ins could occur at either the Britannia platform, the bridge-linked platform (BLP), or any one of the subsea manifolds: Brodgar, Callanish, Enochdhu or Alder (Alder is operated by Ithaca).

There are also three spare risers on the BLP.

KEY FACTS	
Field	Britannia
Block	16/26
Sector	UK central North Sea
Approx. distance to land	210 kilometres (130 miles) north-east of Aberdeen
Water depth	136 metres (446 feet)
Hydrocarbons produced	Oil, gas and condensate
Export method	Gas – by a 28-inch, 116-mile pipeline, to the SAGE terminal at St Fergus. Oil and Condensate – by a 14-inch, 28-mile pipeline to the Forties Pipeline System via the Unity Platform and onwards to Cruden Bay.
Manned/unmanned	Manned
Operated/non-operated	Operated
% of Harbour equity	58.65%
First production	3 August 1998
Accommodation onboard	184
Key commercial terms	Published Key Terms - Alder

Infrastructure Information	
Entry specification:	Depending on the point at which any potential third-party would enter the Britannia facilities and the composition of production already being processed at that time (also includes areas that cover onward transportation).
Exit specification:	Liquids are exported via the Forties Pipeline System (FPS) (directly negotiable between prospective third-party and FPS). Any exit specification must be achievable with the processing facilities available on the Britannia facilities. Gas is exported through the Britannia pipeline for further processing within the SAGE Gas Terminal at St. Fergus. Exit specification is the National Transmission System specification at that point.
Outline details of primary separation processing facilities:	Primary separation consists of: Britannia Platform – HP Separator (3-phase)*, Platform Well Test Separator (3-phase)*, Finlaggan Separator (3-phase), MP Separator (3-phase), Bridge-Linked Platform (BLP) – Brodgar HP Separator (2-phase), Callanish Separator (3-phase), Brodgar IP Separator (3-phase), Alder Separator (3-phase). *Water is separated, metered and recombined.
Outline details of gas treatment facilities:	Booster compressor is available upstream of the gas treatment and compression trains and allows the Britannia HP Separator to be operated at a lower pressure. There are two parallel gas treatment and compression trains each reducing hydrocarbon dewpoint and water content before compressing the gas for export.

High Level Capacity Information						
Britannia Platform firm processing capacity available	Ullage as % of system capacity					Comment
	2021	2022	2023	2024	2025	
Oil export capacity						
Gas compression capacity						Based on dual train operation
Booster compressor capacity						
Gas export capacity						Based on dual train operation
Gas lift capacity						
Produced-water handling capacity						Alder produced water is not commissioned yet
Dehydration capacity						Based on dual train operation
H2S removal capacity						None
Water injection capacity						Topsides modifications would be required to provide water injection
POB capacity						Sleeping accommodation has been upgraded to 184

Last update: December 2020

Disclaimer:

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