

## **The Greater Kittiwake Area (GKA)**

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The Kittiwake platform was installed in 1990 and is a fixed steel platform over the Kittiwake field, 160km East of Aberdeen, in block 21/18. The platform drilling facilities were decommissioned in 2009. The platform is owned 50% by EnQuest, the operator, and 50% by Dana. Petrofac is the current duty-holder.

The Kittiwake field itself is no longer on production, but the platform processes production from the following subsea tie backs:

- Goosander, Grouse, Gadwall and Mallard (collectively known as the Greater Kittiwake Area): EnQuest (Operator) 50%, Dana Petroleum 50%; and
- Scolty and Crathes: EnQuest (Operator) 50% and MOL 50%

### **Installation systems**

Produced oil flows through a four stage crude stabilisation system. Mallard and Gadwall, and Scolty and Crathes each have their own dedicated first stage separator in parallel, before the oil is co-mingled upstream of the second stage separator.

Stabilised oil is metered, then exported, using the oil export pumps, to the Forties Pipeline System via the 33km 10" Kittiwake-Unity Pipeline to the INEOS - operated Forties Unity platform.

Produced gas is compressed and used for fuel and gas lift. The surplus gas is exported via a 4" export line to the SEGAL gas pipeline.

Produced water is cleaned and discharged overboard to the sea.

## Infrastructure Information

<b>Description:</b>	Fixed steel jacket platform
<b>Entry Specification:</b>	Subject to discussion and negotiation
<b>Exit Specification:</b>	Forties Pipeline specifications for oil & SEGAL specifications for gas
<b>Outline details of Primary separation processing facilities:</b>	Four stage crude oil stabilisation
<b>Outline details of gas treatment facilities:</b>	Three stage centrifugal compressor (known as A-gas compressor) with an additional reciprocating compressor (known as E-gas compressor) to meet the gas export / gas lift pressure requirements. Gas dehydration facilities are located between the A & E gas systems. H <sub>2</sub> S scavenger facilities for topside and subsea injection are available.
<b>Separation capacity</b>	40,000 bopd
<b>Gas compression capacity</b>	14 mmscfd
<b>Gas lift capacity (Gas export compressor)</b>	9 mmscfd
<b>Produced water handling capacity</b>	60,000 bwpd
<b>Water injection capacity</b>	49,800 bwpd
<b>H<sub>2</sub>S removal capacity</b>	H <sub>2</sub> S: 50ppm max
<b>Dehydration capacity</b>	14 mmscfd
<b>Oil export capacity</b>	27,000bpd

## 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

>25% capacity available	
5-25% capacity available	
<5% capacity available	

Processing Facility	Capacity	2021	2022	2023	2024	2025	Comments
Separation capacity	40,000 bopd						Based on nameplate capacity and residence time calculations
Gas compression capacity	14 mmscfd						1 x fixed speed three stage centrifugal compressors & 1 x reciprocating compressor for gas export and gas lift requirements.
Gas export capacity	12 mmscfd						
Produced water handling capacity	60,000 bwpd						Based on degasser vessel nozzle dimensions
Water Injection capacity	49,800 bwpd						2 x 100% WI pumps.
H <sub>2</sub> S / CO <sub>2</sub> treatment	N/A						No unit operations for acid gas removal. H <sub>2</sub> S export specification is achieved by H <sub>2</sub> S Scavenger injection.
Power	17.4 MW						3 x Siemens SGT-200's capable of 5.8MW each. Currently run in a 2 out of 3 arrangement.
Oil export capacity	27,000 bopd						2 x 100% MOL pumps.



## Contact Information

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For further enquiries, please contact the Upstream Business Manager on Tel +44(0)1224 975000 or email [Commercial@enquest.com](mailto:Commercial@enquest.com).

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## Updated

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