

Northern Producer – West Don, Don South West, Conrie and Ythan

Fields

The Northern Producer is located between the West and South West Don fields in the UK sector of the North Sea and produces from Blocks 211/18a, 18e & 211/13b. The West Don, Don South West, Conrie and Ythan fields are licensed to EnQuest and are pumped to Thistle Alpha via the Northern Producer.

Infrastructure Information

Installation Overview

The Northern Producer is an AKER H3 semi-submersible unit originally constructed by Trosvik Framnaes in Norway in 1976.

The Northern Producer has:

- Accommodation for 60 personnel (average, 64 max)
- Oil/water/gas separation, capacity to process crude oil up to a maximum of 42,000 BpD, metering and pumping equipment
- Seawater injection equipment
- Emergency facilities
- Full life support facilities
- Helicopter landing and refuelling facilities.

Process Overview

The Northern Producer installation is designed to accept production fluids from West Don, Don South West, Conrie and Ythan fields subsea. The production fluids are processed and separated into oil, gas and water. The oil is exported to the Thistle Alpha platform via the export pipeline, the gas is used to lift the wells using the gas lift system or exported to the Thistle Alpha/Dunlin Alpha platforms. Any gas not used for gas lift or export is flared. The water is separated, treated and discharged overboard.

Entry Specification:

Sweet Crude Oil

Exit Specification:

Oil - Brent Pipeline Entry Specification

Gas – Thistle / Dunlin / Dons Pipeline Entry Specification

Outline details of Primary separation processing facilities: Single train, two stage separation plant with inlet and inter-stage heaters to optimise separation. Produced water treatment via hydrocyclones and degasser followed by discharge to sea.

Outline details of gas treatment facilities: Duel train, two stage gas compression with common glycol dehydration plant, H2S scavenger facilities. Common gas source used for gas lifting and exporting.

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	Total Capacity	2019	2020	2021	2022	2023	Comments
Crude oil capacity	42,000 bbls/day						
Gas compression capacity	30 mmscf/day						
Gas export capacity	7 mmscf/day						
Gas lift capacity	23 mmscf/day						
Produced water handling capacity	40,000 bbls/day						
Dehydration capacity	60 mmscf/day						
H2S removal capacity	60 mmscf/day						
Water injection capacity	60,000 bbls/day						



Contact Information

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