

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 in Block 211/18b. The West Don, Don South West, Conrie and Ythan fields are licensed to EnQuest and are pumped to the Sullom Voe Terminal via the Brent System Pipeline.

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 64 personnel during operations
- Oil/water/gas separation, capacity to process crude oil up to a maximum of 42,000 Bopd, 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 via subsea tie-backs. The production fluids are processed and separated into oil, gas and water. The oil is exported via pipeline to the Thistle Alpha platform and from there to the Sullom Voe Terminal. The gas is used to lift the wells using the gas lift system. 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: Dual train, two stage gas compression with common glycol dehydration plant, H2S scavenger facilities.

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	2017	2018	2019	2020	2021	Comments
Crude oil capacity	42,000 bbls/day						2018 Export Pipeline constraint 15MBOD
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	59,000 bbls/day						

Contact Information

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Updated

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