

Thistle Alpha

Location

The Thistle Alpha installation is located 125 miles north east of Sumburgh in the Shetland Isles and 275 miles north east of Aberdeen, mainland Scotland, in block 211/ 18. The platform coordinates are 61° 21'46.93"N and 01° 34'47.14" E and the installation stands in a water depth of 161.5m

Thistle installation

The Thistle platform is a fixed, 60 slot drilling and production installation, comprising of a conventional steel jacket with four main legs, supporting 36 modules arranged on 3 deck levels. 28 of these modules contain the equipment and machinery, which constitute the production, utilities, drilling systems and facilities. The remaining 8 modules situated on the southeast end of the installation contain living quarters (LQ), offices, the central control room (CCR), the helideck and workshops. The platform was installed on the jacket in 1976.

Installation systems

Fluids from the Thistle and Deveron reservoirs are recovered through platform drilled wells. The produced oil flows is processed through a two stage production separation system. Stabilised oil is metered and exported using the direct oil export pumps to the Brent Pipeline System. The original gas compression system has been decommissioned hence a small volume of gas separated from the oil is flared. Produced water is cleaned and discharged to the sea.

Oil evacuation system

Oil is imported from the Dons field via an 8" pipeline, and combined with the oil produced by the Thistle platform. The combined oil production is exported from the Thistle platform within a 16" oil export pipeline through the Brent Pipeline System via the Dunlin and Cormorant platforms to the Sullom Voe Oil Terminal.

Gas import

Gas is imported from the Northern Leg Gas Pipeline (NLGP) system. Import gas is used for fuel gas to provide the Thistle installation's power. Gas from NLGP is also exported to the Northern Producer.




Infrastructure Information


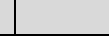


Description:

Entry Specification:	Sweet Crude Oil (v. low H2S, mercaptan, CO2 , heavy metals)
Exit Specification:	Brent pipeline spec
Outline details of Primary separation processing facilities:	Two stage, three phase separation
Outline details of gas treatment facilities:	None

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	2016	2017	2018	2019	2020	Comments
Separation capacity	250,000 bpd						New separation plant commissioned Dec16
Gas compression capacity	None						
Gas lift / export capacity	None						
Produced water handling capacity	200,000 bpd						
Water Injection capacity	200,000 bpd						
H2S / CO2 treatment capacity	None						
Power	30 MW						
Oil Export	22,000 bpd						

Contact Information

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Updated

January 2017