

## **Thistle Alpha**

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### **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 1978.

### **Installation systems**

Oil from the Thistle and Deveron reservoirs is recovered by platform wells. The produced oil flows is processed through the two stage production separation system. Stabilised oil is metered and exported using the main oil line 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 in 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. A portion of the import gas is used for as fuel gas to provide the Thistle installation power, with the remainder exported to Northern Producer.

### Infrastructure Information

|                                                              |                                                              |
|--------------------------------------------------------------|--------------------------------------------------------------|
| 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 oil 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 | 2019 | 2020 | 2021 | 2022 | 2023 | Comments |
|----------------------------------|----------------|------|------|------|------|------|----------|
| Separation capacity              | 250,000 bpd    |      |      |      |      |      |          |
| Gas compression capacity         | None           |      |      |      |      |      |          |
| Gas lift / export capacity       | None           |      |      |      |      |      |          |
| Produced water handling capacity | 250,000 bpd    |      |      |      |      |      |          |
| Water Injection capacity         | 200,000 bpd    |      |      |      |      |      |          |
| H2S / CO2 treatment capacity     | None           |      |      |      |      |      |          |
| Power                            | 32 MW          |      |      |      |      |      |          |
| Oil Export                       | 10,000 bpd     |      |      |      |      |      |          |



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### **Contact Information**

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### **Updated**

March 2019