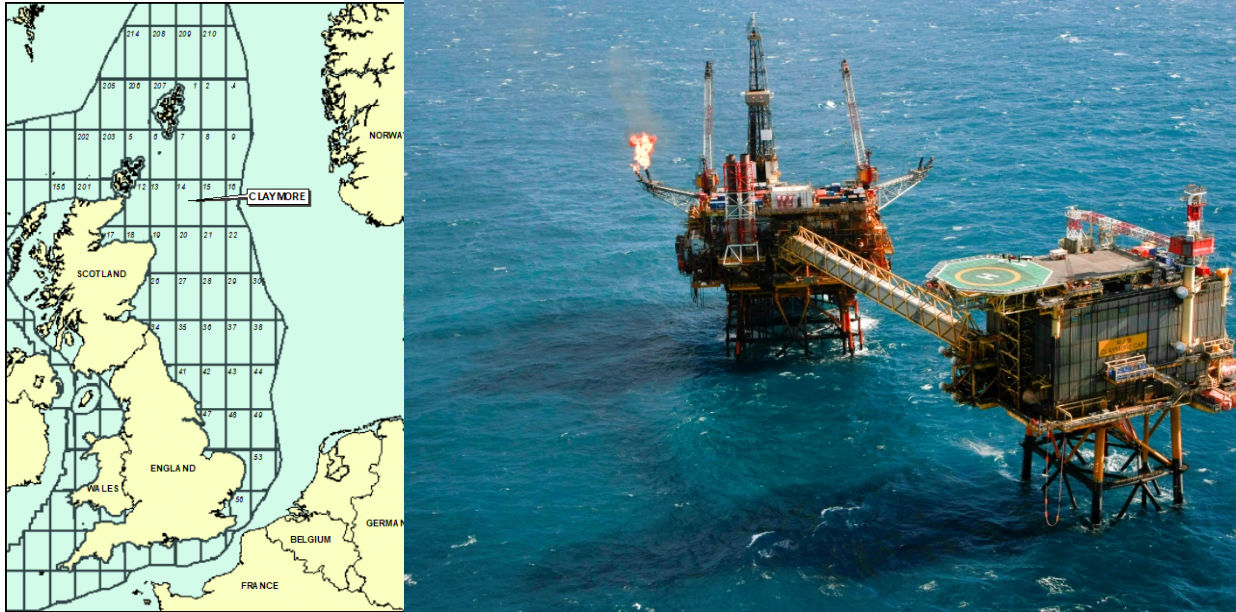


CLAYMORE



Last Updated:

July 2018

The Claymore complex is located in block 14/19n of the United Kingdom Continental Shelf located 161 km north east of Aberdeen in the Central North Sea. Located at co-ordinates 58°26'58" N, 00°15'13" W, it stands in approximately 110m of water. The Claymore complex contains two fixed steel bridge-linked platforms, the Claymore Production Platform (CPP) and Claymore Accommodation Platform (CAP). The CPP, weighing approximately 36,000 tonnes, sits on a conventional eight-legged steel jacket and provides process and drilling facilities. The CAP is much smaller at around 8,000 tonnes, and provides accommodation and utilities for staff, and the helideck. The platforms are linked by 106m bridge.

Design work on the platform started in 1974 after the field was discovered in May of that year. The Claymore Production Platform was installed in 1976 with first production from the Claymore field commencing in November 1977 and the Claymore Accommodation Platform was installed in 1995. The Scapa field was developed as a subsea tie-back to the Claymore platform in 1982.

Claymore provides an up and over transportation service to the Golden Eagle. Hydrocarbons from the Golden Eagle Area are transported via a 14" oil export pipeline from Golden Eagle and delivered to the Claymore Pipeline which provides transportation services for the Golden Eagle Group in respect of the Golden Eagle Pipeline Liquids. Oil export from Golden Eagle commenced 1st November 2014.

OPERATIONAL INFORMATION

Licence	P.249
Licensees (Joint Venture Partners)	<p>Repsol Sinopec Resources UK Limited (Op) 13.0000%</p> <p>Repsol Sinopec North Sea Limited 36.6667%</p> <p>Transworld Petroleum (U.K.) Limited 17.7000%</p> <p>Repsol Sinopec Alpha Limited 13.7333%</p> <p>Repsol Sinopec Oil Trading Limited 11.3784%</p> <p>Dana Petroleum (E&P) Limited 7.5216%</p>
Platform Type	Eight-legged steel jacket
Platform Weight	<p>Claymore Production Platform: 36,000 Tonnes</p> <p>Claymore Accommodation Platform: 8,000 Tonnes</p>
Wells	<p>Production: 32 (platform) 5 (Scapa Template)</p> <p>Injection: 4 (platform) 17 (Subsea)</p>
Drilling	Well Slots: 36
Nearest Installations	<p>Piper Bravo: 29 km E</p> <p>Tartan: 20 km SE</p>
Associated Fields	Scapa (Subsea template with flowline bundles and control umbilicals): 4.5 km SW of Claymore

CAPACITY PROJECTION

The platform process system is nominally designed for the following quantities:

Description	Unit	Max Capacity	Projected ullage (% of maximum capacity)				
			2018	2019	2020	2021	2022
Claymore Separators (A & B parallel)	BPD	180,000	●	●	●	●	●
Scapa Separator	BPD	32,000	●	●	●	●	●
Oil Export	BPD	180,000	●	●	●	●	●
Claymore Produced Water	BPD	180,000	●	●	●	●	●
Scapa Produced Water	BPD	45,000	●	●	●	●	●
Claymore Water Injection	BPD	160,000	●	●	●	●	●
Scapa Water Injection	BPD	40,000	●	●	●	●	●
Gas Compression	MMscfd	140,000	●	●	●	●	●
Gas Export	-	-	-	-	-	-	-
Gas Lift	MMscfd	140,000	●	●	●	●	●
Gas Dehydration	MMscfd	24,000	●	●	●	●	●
H2S Removal	-	-	-	-	-	-	-

Available Capacities:	●	> 25%
	●	5% to 25%
	●	< 5%

PRIMARY SEPARATION PROCESSING FACILITIES

Claymore fluids are separated in two horizontal vessels which operate in parallel, separating into oil, gas and water phases. Oil is pumped through metering streams then into export pipeline. Produced water is treated in Hydrocyclones and a Degasser vessel before being discharged overboard. Scapa fluids are treated similarly with a dedicated single stage of Separation and Produced Water Hydrocyclones and Degasser.

GAS TREATMENT FACILITIES

There is no gas export from the Claymore platform. Gas from the Claymore and Scapa Separators is combined and compressed to provide lift gas to the wells. All lift gas requirements are met by 1x 100%, 3 stage gas compression train. Lift gas for Scapa is dehydrated in Molecular Sieves prior to injection.

PIPELINES

Crude Oil Export	30" * 4.5 km to Wye Joins main 30" oil line to Flotta Terminal
Crude Oil Import	24" * 27.4 km from Tartan
Gas Import	16" reducing to 6" from Piper 'B' / Frigg System
Claymore / Scapa Interfield Bundle	6 * 3" * 4.5 km gas lift lines 2* 10" * 4.5 km production lines 2 * 6" * 4.5 km test/utility lines Service pipelines
Water Injection	11" / 8" Claymore / Scapa water injection (CASWI) 12" / 10" Claymore water injection (CFE)

ENTRY SPECIFICATION

Subject to discussion and negotiation

EXIT SPECIFICATION

Crude Oil Export	Set by Flotta Pipeline System entry requirements
Gas Export	N/A
Produced Water (Prevention of Oil Pollution Act 1971)	<30 mg/L oil in water