

# Infrastructure Code of Practice

## Lomond



The Lomond platform is a steel jacket platform designed for two parallel processing trains to separate Lomond fluids into component phases: wet gas, condensate and produced water for disposal. A compact processing unit was installed on the platform's main deck for processing Erskine fluids into the same component phases. Wet gas is exported through an in-field pipeline to the Central Area Transmission System (CATS) Riser Tower at the North Everest platform and onwards to the CATS Terminal, Teesside. Condensate is exported in the same way to the CATS Riser Tower and onwards to the Forties Pipeline System (FPS).

<b>Key facts</b>	
Field	Lomond
Block	23/21a
Sector	UK central North Sea
Approx. distance to land	233 kilometres (145 nautical miles) east of Aberdeen
Water depth	83.8 metres (275 feet)
Hydrocarbons produced	Gas and condensate
Export method	57.8 km gas and condensate export pipeline from Lomond to CATS riser at North Everest. Thereafter, North Everest export condensate line to the Forties pipeline to Cruden Bay and CATS gas export line to the CATS Terminal at Teesside.
Manned/unmanned	Manned
Operated/non-operated	Operated
% of Harbour equity	100.0%
First production	July 1993
Accommodation onboard	79
Key commercial terms	Published Key Terms

<b>Infrastructure information</b>	
Entry specification:	Produced fluids must be commercially free of odours, materials, sand and solids/fluids that might interfere or cause injury to the proper operation of the Lomond facilities; which for the avoidance of doubt shall include any material that would affect the merchantable value of Lomond products.
Exit specification:	To meet the required specifications of Central Area Transmission System (CATS) for export gas and the Forties Pipeline System (FPS) for export condensate.
Outline details of primary separation processing facilities:	The Lomond platform has a single processing train for Lomond fluids, and the Erskine Processing Module (EPM) train which processes Erskine fluids. Initial stage separation for the Lomond process is through a two-stage vertical separator; initial stage separation for the EPM process is through a three-phase horizontal separator.
Outline details of gas treatment facilities:	For the Lomond process, a single gas train consisting of booster compression followed by TEG dehydration and export compression. A second parallel compression train has been positively isolated. For the EPM process, a single gas train consisting of TEG dehydration followed by export compression (with flash gas compression from the second stage separator).

Lomond Platform firm processing capacity available	Ullage as % of system capacity					Comment
	2021	2022	2023	2024	2025	
Oil export capacity	●	●	●	●	●	10,000bbl/day (oil processing and export)
Gas compression	●	●	●	●	●	65 mmscfd (at 22 barg suction); less at lower suction pressures
Gas export capacity	●	●	●	●	●	Governed by compression
Gas lift capacity						None
Produced-water handling capacity	●	●	●	●	●	5,000 bbl/day
Dehydration capacity	●	●	●	●	●	Governed by compression
H2S removal capacity						None
Water injection capacity						None

Erskine Production Module (EPM) firm processing capacity available	Ullage as % of system capacity					Comment
	2021	2022	2023	2024	2025	
Oil export capacity	●	●	●	●	●	16,000bbl/day (oil processing and export)
Gas compression	●	●	●	●	●	110 mmscfd (at 40 barg suction); more at higher suction pressures
Gas export capacity	●	●	●	●	●	Governed by compression
Gas lift capacity						None
Produced water handling capacity	●	●	●	●	●	10,000 bbl/day
Dehydration capacity	●	●	●	●	●	Governed by compression
H2S removal capacity						None
Water injection capacity						None

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## Contact Information

JOE HARRIS

T: 44 (0) 1224 086161

M: 44(0) 7920 547772