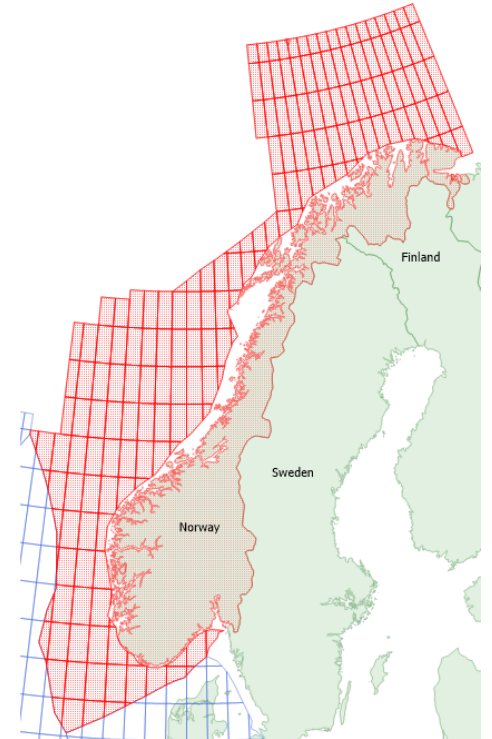


Norwegian North Sea, Norwegian Sea and Barents Sea Digital Core Log Database



Calderdale Geoscience (CGL), an independent geoscience consultancy established in 2004, has produced a suite of mapping and database products focussed on the Norwegian shelf.

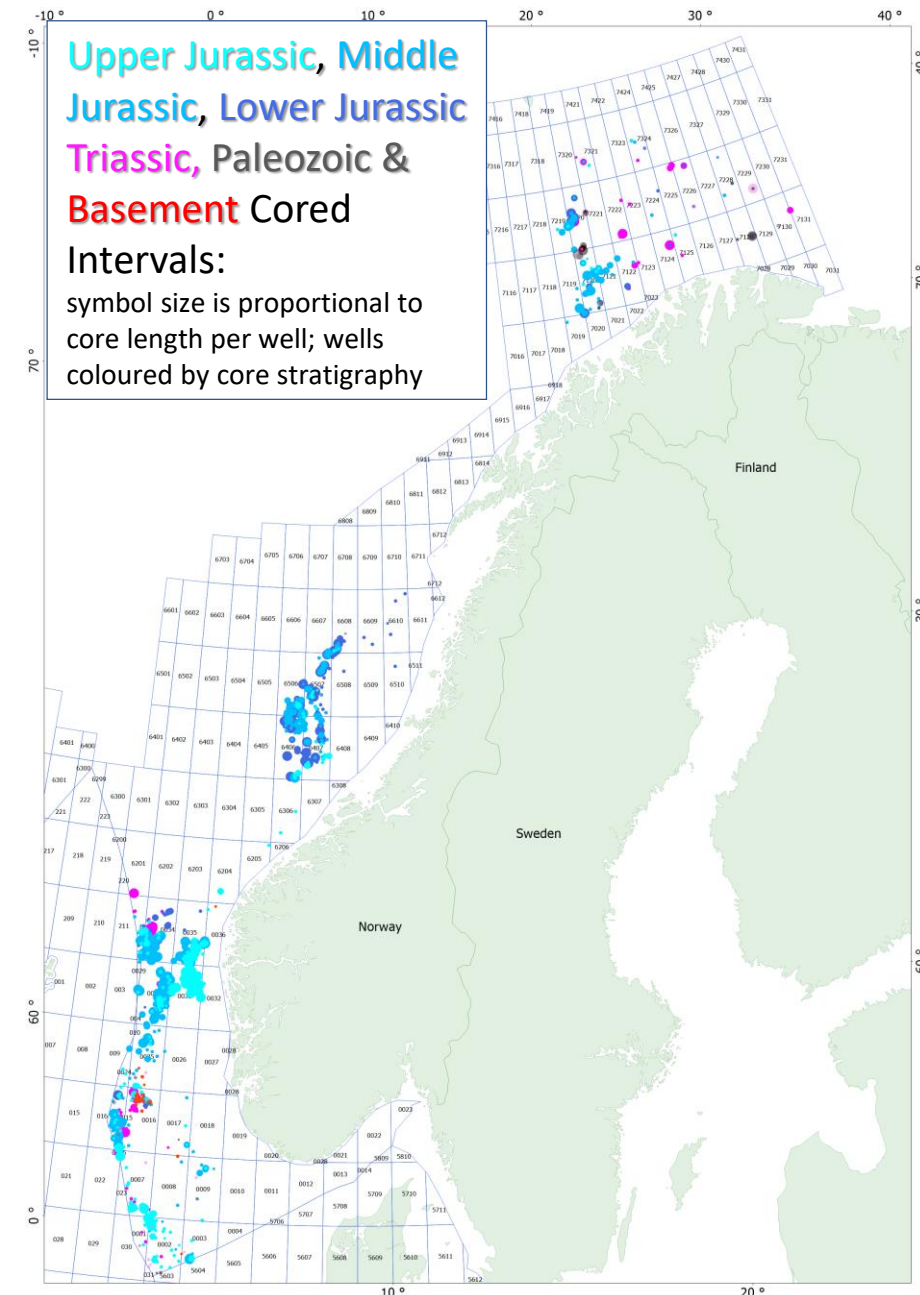
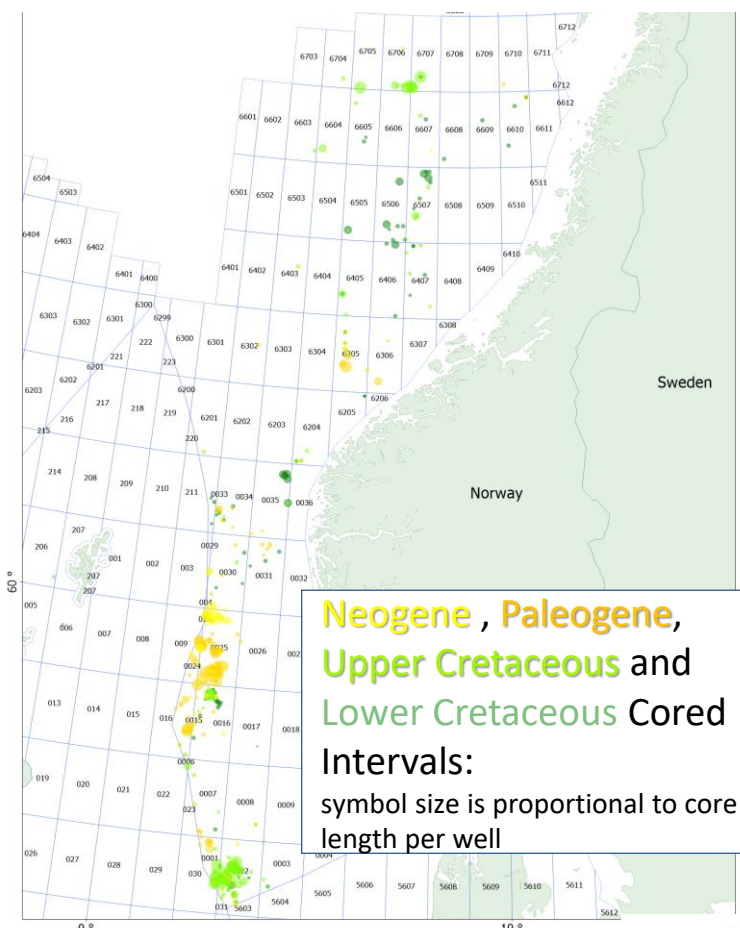
CGL now offers digital core logs from offshore Norway. This product facilitates the mapping and modelling of reservoir properties from c. 4600 cores from c. 1100 wells.



Cored Intervals:

CGL can offer digital products for the wells indicated (left and below). **CGL** has collated the cored intervals across all stratigraphic intervals, including:

- Neogene (44 wells)
- Paleogene (148 wells)
- Upper Cretaceous (149 wells)
- Lower Cretaceous (116 wells)
- Upper Jurassic (510 wells)
- Middle Jurassic (179 wells)
- Lower Jurassic (430 wells)
- Triassic (225 wells)
- Carboniferous & Devonian (18 wells)
- Basement (48 wells)



Available Products:

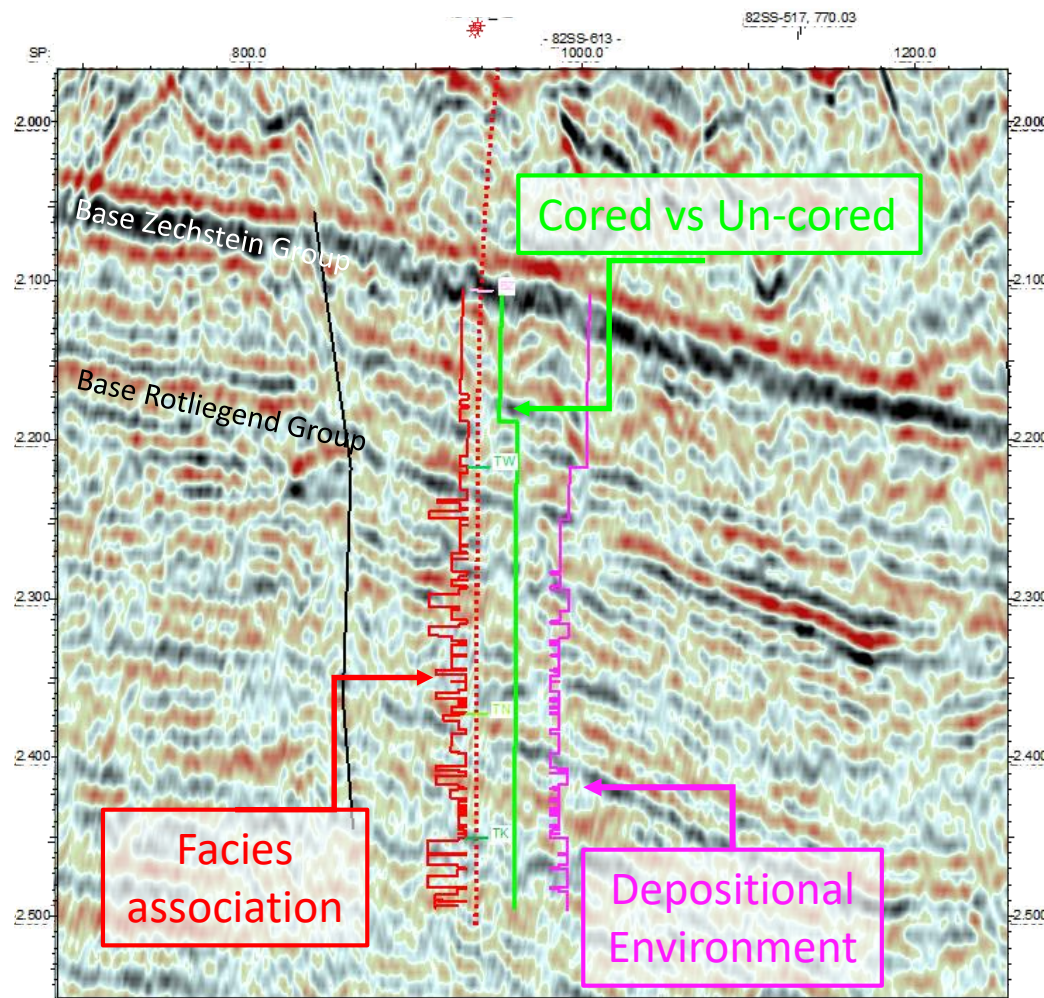
CGL core logs can be purchased singly or as groups of wells in the following formats:

- Data-tables of core attributes, both descriptive and interpretative-based,
- Workstation-ready LAS curves
- Spreadsheet interval tables.
- Traditional core description with accompanying graphics

For more information, please contact Paul Emerson; paule@calderdalegeoscience.co.uk
Visit www.calderdalegeoscience.co.uk



In the case of substantial cored intervals, facies associations can be displayed at seismic scale. Here, with an example taken from the UKCS (Southern North Sea), an interpreted **facies association curve**, captured from a thick cored section through Rotliegend and Upper Carboniferous strata, has been scaled to emphasise energy of deposition and potential reservoir quality (see below). Excursions of the curve to the left reflect higher energy and better reservoir quality (e.g. channel and mouthbar associations). In addition, curves have been constructed to illustrate the **cored versus un-cored interval** (with a binary 0 (uncored) to 1 (cored) scale) and **depositional environment** (scaled to emphasise more marine environments with excursions to the left). Facies association interpretation can be extrapolated to non cored intervals using wireline data and can also be provided by **CGL**.



In the Rotliegend (**BZ**), displaying facies associations at seismic scale, facilitates seismic interpretation:

- Seismically -transparent desert lake/marginal sabkha facies of the Silverpit Clay interval form part of the regional sealing unit.

The Upper Carboniferous (Namurian (**TN**) and Westphalian (**TW**)) section shows a direct and clear relationship between facies, depositional setting, stratigraphy and seismic response:

- Bright reflectors indicating delta top coals and fluvial channel development in upper part of Westphalian unit .
- Development of thick Kinderscoutian ((**TK**) Namurian) deltaic channel sands near base of cored section.
- Gas is encountered in the channelised intervals sourced from adjacent coal-prone delta top.

For more information, please contact Paul Emerson; paule@calderdalegeoscience.co.uk
Visit www.calderdalegeoscience.co.uk