

Norwegian Sea

Geochemical Interpretation Report

NEW FOR
2016

This report covers the interpretation of petroleum geochemical data held within IGI's Norwegian Sea Petroleum Geochemical Database (2015 Edition). That database has been compiled in p:IGI format from geochemical data within reports made available on the Norwegian Petroleum Directorate's (NPD) website, and is available as a separate product. It contains data for over 24,000 samples from 194 wells.



The interpretation report identifies and characterises key source rock intervals, correlating these intervals with oils, condensates and gases within the basin, and also includes a regional evaluation of source rock burial and maturation through 1-D modelling of selected wells.

- **Source rock geochemistry:** A regional evaluation of over 23,000 rock samples from 179 wells, considering hydrocarbon potential, kerogen type and maturity, with selected key source intervals considered for molecular and isotopic characteristics for correlation.
- **Hydrocarbon geochemistry:** Interpretation of both the molecular and isotopic composition of over 300 oils, condensates and stains to evaluate alteration, source maturity and recognition of distinct oil families, prior to an oil-source correlation. Potential Cretaceous sourcing of hydrocarbons is evaluated for the deeper basins. The report also presents interpretations on available geochemical data for 556 gas samples from 87 wells.
- **1-D Basin modelling:** Models have been produced for 17 drilled wells throughout the Norwegian Sea region and calibrated to temperature and maturity data. Results are presented for both local burial/maturation history and integrated for a regional evaluation of source maturity.

The report is provided in both printed and digital formats, the comprehensive bound report being accompanied by a CD with copies of the PowerPoint slide sets and text report, and the 1-D models in Zetaware's Genesis format. The Norwegian Sea Geochemical Database is not included with the report, but is available for separate purchase.

Report cost

Stand-alone price: £40,000

If bought with database: £28,000

For further details please contact:
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Source Rock Geochemistry

- * Evaluation of >22,000 samples (71 wells)
- * HC source potential by lithostratigraphic unit
- * Key sources identified and characterised

Hydrocarbon Geochemistry

- * Evaluation of 143 liquids & 72 stains
- * Gas geochemistry
- * Oil grouping and oil-SR correlation

1-D Basin Modelling

- * 1-D models for 17 drilled wells
- * Regional uplift and maturity history



Contents of the report:

1. Introduction

2. Source rock geochemistry

- Overview of the different lithostratigraphic groups
- Evaluation of source rock potential by lithostratigraphic unit
- Initial evaluation of source rock maturity
- Key potential source intervals
- Source characteristics for correlations

3. Oil geochemistry

- Oil alteration
- Oil maturity
- Oil-oil correlation
- Evaluation of oils by field/area
- Oil-source rock correlation
- Potentially Cretaceous sourced fluids

4. Gas geochemistry

5. 1-D basin modelling

- Models for 17 drilled wells
- Regional evaluation of present day heat flow and source maturity

