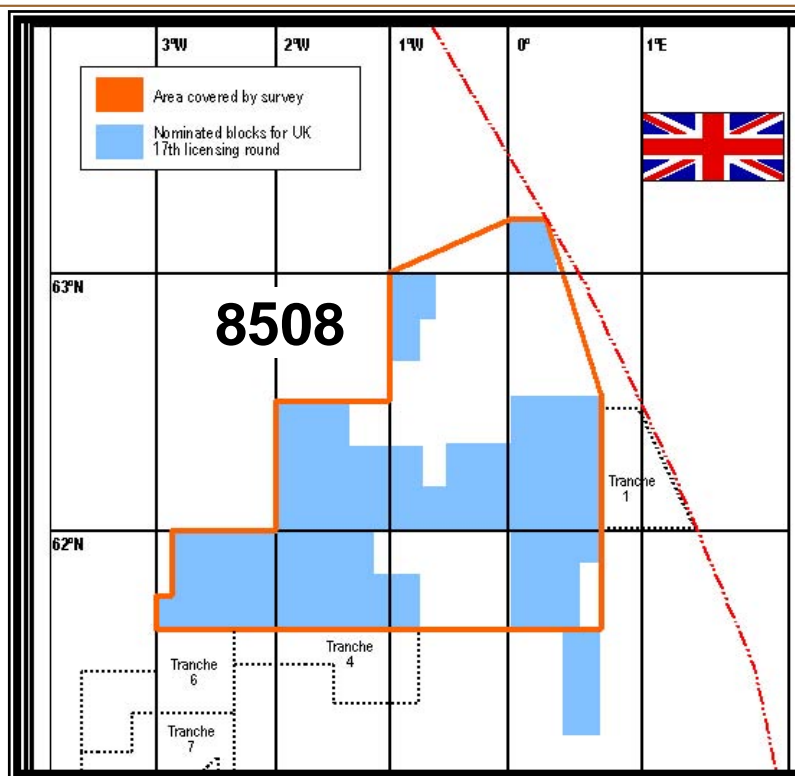


# Erlend Area, North Sea

## Aeromagnetic, Aerogravity & Airborne Seep Detection Data Package



### Project Summary

Studies of the West of Shetlands Basins have shown that the hydrocarbon potential in the area is likely to have been greatly influenced by the localized burial history of Jurassic source rocks. FGMS's high resolution aeromagnetic (HRA) survey in the Boring Basin offshore Mid-Norway, identified many of the problems that are now being encountered in the frontier basins west of Britain. Paleocene volcanics were pervasive throughout the region, obscuring the sedimentary and structural features below the Tertiary; multiple stacked sills intruded the cretaceous section and water depths of up to 1500 m were traversed. These characteristics are very similar to those likely to be encountered in the Erlend Region.

Gravity data in combination with high resolution aeromagnetic data, provides a definitive means of seismic section validation and structural interpretation. Recent gravity data from the west of Shetlands, in combination with seismic data, have proved to be particularly useful in determining the structural geometry of the pre-cretaceous sediments and depth to basement. In particular, basement highs mapped from the gravity data correlate with zones that are oil prone. Integrated 3D modeling and 3D gravity stripping enables clearer definition of anomalies from deeper sources and can be jointly used with magnetic data to provide constraints on the thickness of volcanics.

This unique combination data set will be integrated and interpreted with available seismic data to provide a comprehensive understanding of the hydrocarbon potential of the region.

### Data

56,000 km of magnetic data at a line spacing of 500 m x 1500 m; 28,000 km of seep data at a line spacing of 1000 m, 3000 m, and 14,000 km of gravity data at a line spacing of 2000 m x 6000 m.

### Survey Acquisition Parameters:

Flying height	Less than 200 m
Navigation	Differential GPS
Traverse line spacing (minimum)	500 m
Tie line spacing (minimum)	1500 m
Total acquisition	98,000 l.km

### Price and Availability

Price quotations are available upon request.

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