Petroleum Geology and Hydrocarbon Prospectivity of the Laptev Sea

The Laptev Sea has a Mesozoic and older “basement” which in part is a continuation of the structures within the Yenisei-Khatanga Trough. However, the present structure is the product of a series of Cenozoic rifting events. There is therefore a very thick sedimentary succession with considerable hydrocarbon prospectivity. A significant amount of seismic has been shot, parts of which have been published. The basin is virtually undrilled.

The report includes many colour illustrations and large-format enclosures together with relevant information on oil and gas fields from Blackbourn Geoconsulting’s FSU database. All maps are georeferenced and are available in ArcGIS format.

The study includes the following data:

- Depth map to base of “sedimentary section”
- “Relative depth” maps of three main seismic sequences.
- Gravity map
- Indicative map of areas of major magnetic anomalies
- Earthquake data indicating present-day rifting pattern
- Shallow seismic data illustrating development of gas chimneys etc.
- A series of interpreted cross sections based on seismic data
- Detailed recent interpretations based on seismic and other data of crustal structure, Mesozoic “basement” stratigraphy and structure, and the Cenozoic rifting history and stratigraphy

**PART 1:**

Geology of the Laptev Sea and Surrounding Areas; Structure, Stratigraphy and Palaeogeographic Development

I.1. Overview of the Laptev Sea: its Geography and Climate

   I.1.1 Description of the report
   I.1.2 Brief description of the Laptev Sea and its coastal belt; geography and climate
   I.1.3 Brief introduction to the petroleum geology of the Laptev Sea
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I.2. The Palaeozoic and Mesozoic Development of the Laptev Sea and Adjacent Regions of Northern Siberia

I.2.1 The Laptev terrane
I.2.2 The Kotel'nyi terrane
I.2.3 The Chelyuskin and Pronchishev terranes and Kara block

I.3. Cenozoic of the Laptev Sea and Development of the Laptev Sea Rift System

I.3.1 General characteristics of the Laptev Sea Rift system
I.3.2 Cenozoic successions onshore around the Laptev Sea
I.3.3 Seismic reflection surveys over the Laptev Sea
   Interpretation of LARGE seismic lines
   Interpretation of BGR seismic lines
I.3.4 Discussion on the development of the Laptev Sea Rift system
   Ust'-Lena Rift
   Laptev Horst and Anisyi Basin
I.3.5 Summary

PART II

Petroleum Geology of the Laptev Sea

II.1 Mesozoic and Older Prospectivity

II.2 Cenozoic Prospectivity

II.2.1 Reservoir
II.2.2 Seals
II.2.3 Traps
II.2.4 Source rocks and hydrocarbon generation

II.3 Summary of Laptev Sea Prospectivity

Timing & Cost

The report is available now at a cost of **US $15,000**. Companies purchasing this report together with Blackbourn’s report on “The Petroleum Geology and Hydrocarbon Potential of the Yenisei-Khatanga Trough, Northern Siberia” may do so for a combined price of **US $30,000**.

For further details on this report, please visit [www.blackbourn.co.uk/reports/laptev-sea.html](http://www.blackbourn.co.uk/reports/laptev-sea.html) or contact Dr Graham Blackbourn at: