



## **Petroleum Geology & Hydrocarbon Potential of the Yenisei-Khatanga Trough**

**This report covers the petroleum geology of an area of Northern Siberia north of the Central Siberian Plateau, from the Gyda Peninsula in the west to the coast of the Laptev Sea in the east, and including the Yenisei gulf/estuary, the Taimyr Peninsula and Yenisei-Khatanga Trough.**

The data are mostly derived from published Russian-language sources (supported by several “western” sources, which are relevant mainly to the large-scale tectonic development of the area). This study is therefore comparable in its nature and scope to other reports in Blackbourn Geoconsulting’s series on the petroleum geology of the regions of the former Soviet Union.

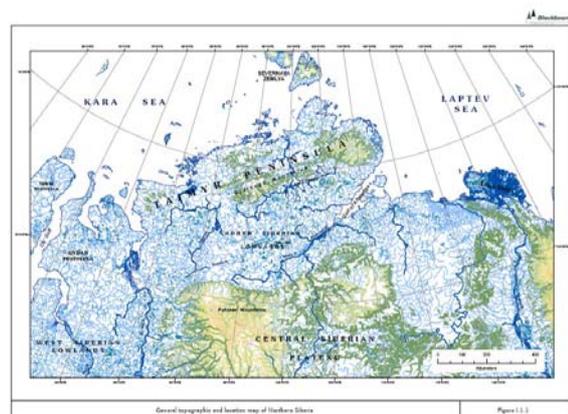
### **Tectonic Development of the Region**

There have been numerous papers published on the tectonic development of different parts of the study area over the past decade. These have been integrated to provide an overview of the tectonic development of the area as a whole, and that of individual basins. Some Precambrian prospectivity is claimed for parts of the region, although known hydrocarbons appear to be derived exclusively from the Mesozoic and younger deposits.

All maps provided in the report are georeferenced and are available in ArcGIS format. The report covers the following geographic areas:

#### **Gyda Peninsula**

This forms the western end of the area of study, and is also covered in Blackbourn’s regional study on “The Petroleum Geology of Western Siberia”. More detailed stratigraphic and palaeogeographic data are now available, including significant new data on hydrocarbon-source characteristics.



#### **Taimyr Peninsula**

The Peninsula is composed of Precambrian to Mesozoic accreted terranes, and most of the available data are on the plate-tectonic and structural development of the area. There are some Mesozoic sedimentary systems incorporated within the Taimyr structures, for which some limited prospectivity

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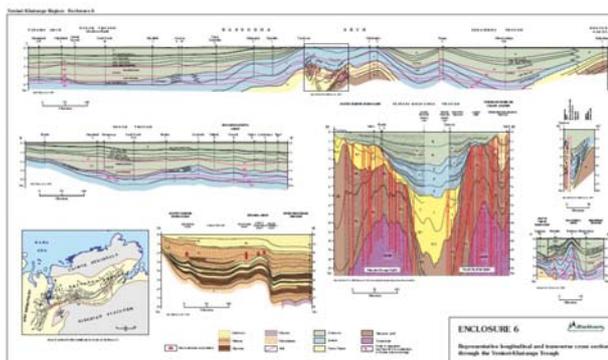
has been claimed. Sufficient stratigraphic and structural data are available to provide an initial assessment of the likely prospectivity.

### Yenisei-Khatanga Trough

This trough runs from around the Yenisei estuary in the west to the coast of the Laptev Sea in the east, bounded by the Taimyr Peninsula in the north and the Central Siberian Plateau in the south. It is divided into a series of sub-basins, a number of which have a substantial, mainly Mesozoic, fill, and are associated with hydrocarbons (primarily gas has been discovered to date).

There are a variety of different names for the various sub-basins, including:

- Ust'-Yenisei Basin
- Boganida-Kheta Basin
- Balakhnya Basin
- Tsvetkovo-Paksinsk Basin
- Bolshaya Kheta Basin
- Pendomayakha Basin
- Malaya Kheta Basin
- Nosok Trough
- Agapa Trough
- Dudypta-Zhdanikha Trough



Data available for these basins include:

- Depth to top-Middle Jurassic maps.
- Detailed stratigraphies.
- Burial and palaeotemperature curves (for Balakhnya, Ust'-Yenisei and several other sub-basins).
- Illustrative fragments of seismic lines, including a line through the Agapa Trough illustrating Neocomian clinofolds.
- Various illustrative cross sections.
- Thermal maturity data, typical TOC values, productivity analysis of potential source rock.

### Timing & Cost

The report is available now at a cost of **US \$20,000**.

Companies purchasing this report together with Blackbourn's report on "The Geological Development and Hydrocarbon Prospectivity of the Laptev Sea" may do so for a combined price of **US \$30,000**.

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

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