## THE OCCURENCE AND ANALYSIS OF CRUDE-OIL INDICIA IN THE BARRANDIAN BASIN

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Crude-oil indicia occurring in different stratigraphic regions of the Barrandian basin were studied as hydrocarbon inclusions and carbon impregnations. The following locations were investigated: Kosov u Berouna, Svatý Ján pod Skalou and Žákův lom (Velká Chuchle).

Samples were analyzed using the optical and fluorescence microscopy, atomic emission and absorption spectrometry, fluorescence spectrometry and a combination of GC–MS and NMR after some modifications.

In inclusions n-alkanes, accompanied by traces of polyaromatic compounds predominated. The amount of carbon was lower than 10<sup>-9</sup>g per g of sample, thus the work had a trace analysis character.

During the study of the carbon macroimpregnation, differentiation between coal and crude-oil samples origins was studied experimentally on the basis of obtained analytical data.

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