

The nature of bitumens of "anomalous" zone of abdrahmanovskaya area of Romashkinskoe oil field

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Abstract

Comparative analysis of geochemical data bitumens of "abnormal" and normal zone of Devonian sediment and weathering crust basement rock of Abdrahmanovskoy area Romashkinsko oil field indicate one producer - Sapropelic substance. By gas chromatography and chromatography-mass spectrometry identified biomarker values of parameters (hopanes, steranes). They indicate that the degree of maturity in catagenetic bitumen "anomalous" zone is greater than normal, but less than the basement rocks. Hydrocarbon composition of the latter differs offset high content of *n*-alkanes in the direction of the lower molecular weight compared with their distribution in bitumens of "anomalous" zone.