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## Distribution and Evaluation of Carboniferous Source Rocks in the Juggar Basin

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A great deal of hydrocarbon resources related with Carboniferous source rocks are found in the Juggar basin in recent years, but the awareness of the source rocks are found to be low. Based on the analysis of lithofacies-paleogeography by the statistical analysis and synthesis of observing outcrop and wells, the Lower Carboniferous source rocks are mainly distributed in the northeastern marginal district and hinterland of the basin, with a wide distribution, great thickness of up to 400~500 m. The upper Carboniferous source rocks are mainly distributed in the eastern and northwest marginal district of the basin, with a thinner distribution. According to analytical data of many rock samples of observing outcrop and wells, The abundance of organic matter in both hydrocarbon source rocks are relatively high, and The organic matters mainly belong to type iii and partly type ii2. The maturity of organics is found significant differences between different areas, from low high to very high in maturity. Overall, the maturity of organics is getting lower from the margin to the hinterland of the basin.

