

Title:

Study of Geochemical Characteristics and Genesis of Dalianhe Oil Shale in Heilongjiang Province

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This paper discusses the geochemical characteristics and genesis of the Dalianhe oil shale in both the coal and the oil shale members. The oil shale in the two members is quite similar in geochemistry in that both are of high percentage of SiO_2 , Al_2O_3 and Fe_2O_3 (middle to difficult lava silicon ash), ratios of Mn/Ti less than 0.1, Sr/Ba between 0.1 and 0.5 and Vi/Ni between 2.6 and 7.0. The organic styles are mainly composed of sapropel humus. OEP values of n-alkanes are between 1.55 and 3.67, showing outstanding odd carbon number distribution, with $n\text{C}_{23}$ and $n\text{C}_{29}$ as the highest peaks. Average Pr/Ph ratio is up to 2.30, indicating pristine dominance. Pr/ $n\text{C}_{17}$ ratios are between 1.18 and 2.30. All these characteristics reflect that both oil shales in the two members are deposited in a fresh water, lake-swamp, alongshore and lower oxygen and anoxic environment condition. The parent material styles from the coal member are richer in hydrogenous component relate to wetness-like flora, which is the main reason for the quality difference of the oil shale in the two members.

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