

عنوان مقاله:

Application of Carbon and Oxygen stable isotope in sea water temperature and paleosalinity evaluation, Example from the Dariyan Formation, Interior Fars Province, Zagros

محل انتشار:

دومین کنگره بین المللی زمین شناسی کاربردی (سال: 1394)

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خلاصه مقاله:

In this study, carbon and oxygen stable isotopes of the Dariyan Formation carbonate sediments were used in order to reconstruction of geochemical conditions in the Kuh-e-Sefid section. According to heaviest oxygen isotope value, the paleotemperature of water has been inferred about 28.5°C which is in agreement with paleolatitude of the northeastern part of the Arabian Plate (10°S) during the Aptian interval. Paleosalinity index (Z) of the sedimentary basin water has been estimated by carbon and oxygen isotope values which were more than 120 for all samples. The results indicate the normal salinity for water in that time. Microfacies study show abundance of stenohaline fauna in the carbonate .sediments of the .formation that confirm this estimation

کلمات کلیدی:

Stable isotope, Paleotemperature, Paleosalinity, Dariyan Formation, Aptian, Zagros

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