

عنوان مقاله:

Petrophysical Evaluation of Fahliyan Reservoir Formation

محل انتشار:

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خلاصه مقاله:

The main goal of this paper is petrophysical evaluation of Fahliyan Formation as one of the reservoir formations in SW of Iran. In this regard, well log data of one of the Iran's oil fields located in Dezful embayment was used. Petrophysical properties of Fahliyan Formation such as lithology, type of clay mineral, porosity, saturation and shale volume were evaluated. Also, based on petrophysical characteristics, it was divided into 7 members and studies on each of the sections were conducted separately. According to these studies, the lithology of the reservoir is limestone that has a porosity between 0 and 30% and its average porosity is equal to 15%. The shale volume is less than 25%, which indicates a clean formation. Comparison of petrophysical characteristics shows that members 1 and 2 of the formation are of lower reservoir quality than other members. They have a high amount of water saturation and also have less porosity than other parts. The results of this study can be used to better understand the different aspects of the reservoir as well as the expected areas for perforations.

کلمات کلیدی:

Petrophysics; Lithology; Well Logs; Fahliyan Formation; Petrophysical Evaluation

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