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Evaluation of jeribe formation in Hamrin Oil Field, NE Iraq

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Hamrin oil field is one of the important oil fields in northern Iraq. The field represents an anticline that extends NW-SE for more than 101 km, with width (4-7)km, (Al-Naqib, 1959). Hamrin oil field is located at the south western boundary of the foot hill zone of the unstable shelf area according to the tectonic division of Iraq. Jeribe formation is an attractive petroleum completion target in most of northern oil fields of Iraq. The main aim of this study is to determine the petrophysical properties of this formation, because these

properties affect the estimate of reserves (porosity and saturation) and well deliverability (permeability). This study shows that the petrophysical properties are controlled by depositional environment, diagenesis and tectonic process as well as the depositional environment of Jeribe formation. The evaluation of petrophysical properties of Jeribe formation in Hamrin oil field was necessary to choose the best interval for well completion.

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