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unit is one of the best reservoirs in the Gulf of Suez region and is Received 13 June 2015 Accepted 05 August 2015

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dated as of Lower Cretaceous age. This study is concerned as the petrophysical evaluation and well log analysis of Nubia A for 4 wells at the West Esh El Mallaha Oilfield, Southern Gulf of Suez, Egypt. Computer-assisted log analyses were used to evaluate the petrophysical parameters such as shale volume, total and effective porosities, water, hydrocarbon and flushed zone saturations, reservoir and pay flags. Cross-plots of the petrophysical parameters versus depth were illustrated. The Nuabia A rock unit refers to the matrix components mainly sandstone with some kaolinaite and shale contents. In this study, the Nubia A rock unit differs slightly in thickness in the study area. The capacity of the Nubia A rock unit is assessed from the well-log analysis through the examination of the total and effective porosities. Nubia A rock unit is interpreted from 4 studied wells as a good quality reservoir rocks with high average effective porosity reaching up to 21% and high average hydrocarbon saturation reaching up to 68%.

ABSTRACT