

## **ABSTRACT**

A petrophysical interpretation has been carried out by utilizing the wire line logs in the Kandra gas field, Middle Indus Basin, Pakistan. SP log, Resistivity log, Density log, Sonic log, Neutron log, Gamma ray log and Caliper log are used. Geographics software has been used for petrophysical interpretation. The rock parameters which have been used for petrophysical interpretations are shale volume, porosity, total porosity, effective porosity, water saturation, hydrocarbon saturation, and permeability. The producing reservoir is Sui main limestone Formation in kandra-01 and kandra-02 well. Both Kandra 01 & 02, are gas bearing wells. Petrophysical interpretation shows 49 % hydrocarbon saturation in Kandra-01, while in the Kandra-02 well, 44 percent hydrocarbon saturation is present. Reserve estimation of Kandra field show estimated reserves of 1.8 Trillion cubic feet (TCF).

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