

**SOURCE ROCK MATURATION AND
PETROPHYSICAL ANALYSIS OF MIANO-01 WELL,
CENTRAL INDUS BASIN PAKISTAN**



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**MUHAMMAD AAMIR MAQSOOD
MUHAMMAD AZAM ABBAS
FAISAL LUQMAN**

**DEPARTMENT OF EARTH AND ENVIRONMENTAL
SCIENCES BAHRIA UNIVERSITY, ISLAMABAD**

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ABSTRACT

The study well Miano-01 is in the central Indus basin of Pakistan. It lies in petroleum block-20 of Pakistan and is tectonically bounded by eastern and western flanks of Sukhar rift and lies on the eastern flank of Jacobabad Khairpur high. The well is been drilled up to 4030m where its base lies in Samber shale and is been logged from 2200m to 4030m. the zone that has been identified from 3333m to 3341m on the basis of log characteristics shows hydrocarbon saturation of 51.51% calculated from Archie's equation. The literature study and petrophysical analysis recommended that the reservoir is Lower Goru formation and the zone has potential to produce hydrocarbons. The source rock maturity has been calculated from TTI maturity index that is calculated to be 857 showing that the source rock was capable of producing dry gas and wet gas.