

**SEISMIC INTERPRETATION AND PETROPHYSICAL
ANALYSIS OF SHAHDADPUR AREA, LOWER INDUS BASIN,
PAKISTAN**



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2018

ABSTRACT

The Shahdadpur area lies in Lower Indus basin. Seismic interpretation was performed on four seismic lines. In total, five different horizons were marked named as Chiltan Limestone (Jurassic), Lower Goru Formation (Cretaceous), Pab Sandstone (Cretaceous), Kirthar Formation (Eocene) and Khadro Formation (Paleocene). Presence of normal faults in the study area shows extensional regime in the region. Reflectors are dipping in southeast direction providing a good sequence of rocks. Petrophysical analysis was performed on well logs of Shahdadpur-01 well. Two hydrocarbon bearing zones were identified within the Lower Goru Formation based on log trends. Overall, the average values of volume shale, saturation of hydrocarbon, and effective porosity in these zones were, 55%, 35%, and 8% respectively.

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