

**2-D SEISMIC INTERPRETATION AND
PETROPHYSICAL ANALYSIS OF DINA AREA, UPPER
INDUS BASIN, PAKISTAN**



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ABSTRACT

The purpose of the study is to delineate the structure and hydrocarbon potential leading to the future prospects. This can be performed by analyzing migrated seismic lines. Seismic data analysis involves identification and demarcation of the different lithological horizons. Then they are assigned with different names according to the depths, after correlating with the well data. The seismic data has also been used to analyze the petro physical parameters and 2-D seismic modeling. The results gained from all these analyses were then utilize for the coherent study pertinent to reservoir characterization of the area under study. Petro-physical analysis is done on the basis of the computed value of volume of shale, volume of clean, saturation of water, saturation of hydrocarbon, average porosity, and effective porosity along the seismic lines. These properties determine the rock characters in the subsurface. After applying all these analyses, it came out that there is a pop up anticlinal structure in the Dina area.

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