

**STRUCTURAL INTERPRETATION AND  
PETROPHYSICAL ANALYSIS OF MEYAL AREA, UPPER  
INDUS BASIN, PAKISTAN**



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## **ABSTRACT**

To develop an understanding of the structural analysis and correlation of seismic data of Meyal area, Upper Indus Basin. 2D seismic reflection data that was required for our research was provided by the Directorate General of Petroleum Concession (DGPC). The area of Meyal lies to the north of Potwar Sub-basin, Upper Indus basin, Pakistan. Pop-Up structural traps were found. Two horizons have been marked, Chorgali and Sakesar Formations of Eocene age. 2D seismic interpretation is carried out manually on the study area and Time & Depth contours are generated. Based on the outcomes of the carried out studies, it is concluded that the area is structurally highly complex and consists of numerous thrust faults that have caused displacement of the strata. Petrophysical analyses reveal that the rock properties are suitable for the formation to act as a reservoir.

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