

**2D STRUCTURAL AND PETROPHYSICAL
INTERPRETATION OF FORT ABBASS, MIDDLE INDUS
BASIN, PAKISTAN**



By

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ABSTRACT

The basic objective of the study is to get preliminary understanding of the subsurface structures trend and stratigraphy of the cited area. Seismic data interpretation eventually resulted in outcomes as time and depth contour maps, which assisted to understand the subsurface structures for further exploration. Fort Abbas concession is a part of Punjab platform which is a gentle eastward monoclinical rise at the Middle Indus Basin. Drilling of Fort Abbas well 1 was carried out to test the hydrocarbon potentials of Khewra (Cambrian age) and Salt Range Formation of Pre-Cambrian. Three prominent reflectors namely Datta, Jutana and Khewra were marked on the seismic section on the basis Time and Depth information of these formations. Time and Depth contour maps generated for the marked reflectors showed the presence of a monoclonal structure with gentle dip in western direction of the area whereas a closure is formed in the eastern margin of the area. The well Fort Abbas is also drilled on the same closure. Petrophysical Analysis of Fort Abbas well 1 was also done by different well logs which shows that the formations are water wet.

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