

**2-D seismic interpretation and volumetric analysis of Dhulian
area upper Indus basin Punjab Pakistan**



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ABSTRACT

Dhulian is located in the Eastern Potwar Zone and is broad east-west trending, doubly plunging anticline. The aim of study is to identify structures present in the area of the Dhulian through the interpretation of the Seismic data. A total number of 4 seismic lines PDK-102, PDK-103 PDK-104 and PDK-113, well logs of Dhulian-43 and a basemap were provided to us by Director General of Petroleum Concession from a Seismic survey conducted by OGDC in 1981 in the area of Dhulian. Three Reflectors were marked for the seismic interpretation and mapped.

Two way time for each reflector was calculated and the average velocity for each line was calculated. Time and Depth contour maps were made for the three Horizons and then plotted on Computer Software to view Time and Depth Surfaces. These Contour maps show a faulted anticline subsurface structure favourable for Hydrocarbon accumulation.

Petrophysical Analysis of the Dhulian-43 well is done with the help of the logs available. One Formation has more productive zone than other and finally Volumetrics analysis has been done.

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