2-D SEISMIC DATA INTERPRETATION AND PETROPHYSICAL ANALYSIS OF KANDRA AREA, MIDDLE INDUS BASIN, PAKISTAN

By

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2015

ABSTRACT

The Kandra area is studied with the help of the 2-D seismic and petrophysical analysis. For this purpose five seismic lines have been obtained from the LMKR by the permission of DGPC. The well log data was also obtained along with the seismic lines for the subsurface evaluation.In the seismic data interpretation the horizons were marked and faults were identified on the formation tops which are named as Sui Main Limestone, Lower Goru and Chiltan formations. The time and depth contour maps were generated which delineated the subsurface structures and the tectonic activities in the study area.Well log analysis was performed out on Kandra-02 for the identification of zone of interest. The volume of shale, sand along with the different porosities such as sonic, neutron and density were calculated. The saturation of water and hydrocarbons was observed and on the basis of this analysis one probable zone of interest was identified in the SML.

ACKNOWLEDGEMENT

First of all we are thankful to Almighty Allah who gives us power and strength to do the thesis and countless salutation upon Holy Prophet Muhammad (S.A.W), the origin of knowledge who has guided his (Ummah) to seek information from cradle to grave. We are very thankful to our Parents, their prayers and love was with us all the time. Deepest appreciation goes to our supervisor Muhammad Raiees Amjad for his help throughout the thesis work, without the consistent help, completion of this thesis would not have been possible.

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