

HYDROCARBON POTENTIAL AND RESERVOIR CHARACTERIZATION OF MIANO GAS FIELD, MIDDLE INDUS BASIN, PAKISTAN

Zeeshan ul Hassan Abbasi¹, Waqas Ali² and Raja Asad Taimure³

¹*Bahria University Islamabad*

²*Halliburton Saudi Arabia*

³*Bahria University Islamabad*

honour.geosciences@gmail.com

Abstract

Being an energy starved country, Pakistan is in dire need of maximizing the potential of its energy resources to meet the ever growing demand. Miano area in the Central Indus Basin has been on the radar of explorationists since 1993. Miano Gas Field was developed in 2002, and has been producing ever since. Tectonically, Miano block lies in Pannu Aqil grabben, and in between two highs i.e. on the eastern flank of Khairpur – Jacobabad High and western flank of Mari Kandkot High.

Further studies will most definitely bring up more information and will better enable the explorationists to optimize the hydrocarbon potential of the area. To this end, this study has been carried out using well data of Miano 9 and Miano 10 gas wells. Petrophysical interpretation has been performed and the reservoir lithology, porosity and effective porosity characterized by using core data. The log data and core data complement each other. The results yield a maximum of 75.5% hydrocarbon saturation in Miano 9 and a maximum of 77% hydrocarbon recovery potential in Miano 10.