ABSTRACT

Has been done research to determine petrophysic condition by calculate the value of porosity and water saturation, determine the lithology of wells and correlation between wells then mapping porosity distribution and water saturation in the “DIF” well. The general methodology from data logs obtained, determine lithology then perform correlation between wells and water saturation values and porosity from Archie formula. The result show and discussion of a value obtained porosity both wells are on the DIF-07 value of 29%. And the lowest value of water saturation in the wells DIF-01 and DIF-07 value of 46%, structure correlation and stratigraphy correlation can be known beneath surface of the structure Parigi formation.

Keyword : porosity, water saturation, archie