PETROFISIK ANALYSIS OF DATA WELL-LOG FOR THE CHARACTERIZATION OF RESERVOIR CARBONATE ROCKS, FIELD "DE" FORMATION PARIGI, BASIN NORTH WEST JAVA

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ABSTRACT
Has been done research to determine the lithology of wells, determine petrophysic condition by calculate the value of porosity and water saturation, and correlation between wells in the “DE” well. The general methodology from data logs obtained, determine lithology then calculate water saturation values and porosity from Archie formula and the last, perform correlation between wells. From the obtained results and discussion, DE well have carbonate lithology and contained gaseous hydrocarbon reservoir. Value obtained porosity both wells are on the DE-04 value of 27%. And the lowest value of water saturation in the wells DE-04 value of 44%. Correlation of structure and stratigraphic indicate a reduction of Parigi formation and depletion of reservoir from north to south.

Keyword : porosity, water saturation, archie