ABSTRACT

STUDY OF VERTICAL ELECTRICAL SOUNING TO SEE THE PRESENCE OF HYDROCARBONS UNDER THE SURFACE

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A study of Vertical Electrical Sounding in Central Java Cepu area to determinan the existence of residual hydrocarbons in the area. Measurement of Vertical Electrical Sounding is done by using the Schlumberger configuration. The data processing performed in this study include: determination of apparent resistivity, forward modeling with RESTY to get the True resistivity. Resistivity log data were then made cross-sectional resistivity by using the program Surfer and Rocwork. The Results showed that the resistivity cross-section looks a low resistivity zone in the middle at a depth of 300 meters – 700 meters. This area is estimated as an area that is still there hydrocarbon deposit.

Keywords: Vertical, Electrical, Sounding, Hydrocarbons.