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The Relationship between Jatiluhur Formation and Upper Cibulakan Formation based on Petrographic Analysis and Analysis of Foraminifera

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Cipamingkis River is a part of the Jatiluhur Formation in the northern part of the Bogor Basin which is often made equal, as according to Reksalegona et al (1996) and Martodjojo (2003) with the Upper Cibulakan Formation for reservoir rock analogy. This study will complement the results of previous studies that only use methods based on measurable cross-section data. The data used in this study included cross-sectional stratigraphic data with five samples taken for thin section used as a petrographic analysis and for foraminifera analysis. The use of petrographic analysis methods to determine and analyze lithology in more detail and foraminifera analysis to determine the depositional environment and the age of the two formations. The results of this study indicate differences in lithological characteristics and depositional environment between these two formations. Given the differences in characteristics between the two formations, the use of the Jatiluhur Formation and the Upper Cibulakan Formation should be used separately in the naming of the lithostratigraphic unit in West Java.

Biography

Disa Kurnia Dewi is an assistant lecturer in the field of micropaleontology and 7th-semester student, majoring in Geology at the University of Indonesia. She is interested in the fields of stratigraphy and sedimentology. She actively participated in organizational activities and community empowerment volunteer activities. She participated in the Student Exchange at Petronas Technology University, Malaysia. She was also an assistant lecturer in the field of micropaleontology and had been a third winner and best presenter for the 2018 Scientific Writing Competition of National Scientific Days (NASA) in Palembang.