# Evaluation of Kerogen Type and Source Rocks Potential Based on Rock-Eval Pyrolisis : Case Study of Shale in Tanjung Formation, Barito Basin

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Tanjung Formation is the formation that deposited during late paleogene to early oligocene in Barito basin (Kusuma & Darin, 1989). This formation is divided into two parts, lower Tanjung Formation and upper Tanjung Formation (Kusuma & Darin, 1989). Rocks in this formation showed the characters of terrestrial to transitional environments (Witts et al, 2012). Based on its depositional environment, Tanjung Formation splitted into three stages (Kusuma & Darin, 1989). In the three stages of its deposition, each stages in this formation reflects the environments and geological processes that happened during this formation was deposited. Not all environments can become potentially source rocks. Rocks that can become potentially source rocks must be qualified the terms as a good source rocks. Rock-Eval Pyrolisis is the one of many methods to determine the qualification of source rocks. Types of kerogen can be observed by statistical method to analysing the Rock-Eval Pyrolisis data. Kerogen types that obtained from the results of analysis is correlated with organic facies where the kerogen was formed. Organic facies that correlated with kerogen types can show the depositional environment, main ingredients of the kerogen, and type of hydrocarbon that potentially generated in this source rocks.

## Biography

Ilmi is a 3rd years Geological Engineering student of Pertamina University. He has experience in coal exploration as a Wellsite Geologist. He was interested in Geochemical, Sedimentology, Stratigraphy, and Structural Geology in petroleum exploration. This is the first scientific studies that he will publish.

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