

ABSTRACT

Pertamina EP Java region is one of the oil and gas companies operating in the region of the island of Java. As a company that has a working area on the island of Java is required to conduct a study to learn about the system that is oil (petroleum system), followed by seismic geophysical operations by drilling wells to determine geological data underground.

There are several ways to obtain geological data currently underground drilling one of them is by using geophysical well logging, where logging activities carried out simultaneously during well drilling activities take place. From the results of the analysis carried out logging interpretation that can be known types of fluid and it can also be known zone calculation method petrofisik prospects with both qualitative (reading logs) and quantitatively in the Batu Raja formation.

The analysis is carried out focused on the TBN 2 boreholes 5 and 21 who are at Tambun field. Based on the results of qualitative and quantitative analysis were carried out on both wells indicates that the zone of hydrocarbon prospects TBN 5 wells are at a depth of 2125 to 2129 and the MD from 2189 to 2197 while the MD TBN 21 wells at depths of 2474-2484 MD.

Average parameter values of each layer of the above is:

TBN wells 5-a: VSH = 10.88%, 29.57% and $e = S_w = 14.88\%$. This layer contains a hydrocarbon gas.

TBN wells 5-b: VSH = 19.43%, 19.88% and $e = S_w = 37.55\%$. This layer contains a hydrocarbon oil.

TBN wells 21: VSH = 20.55%, 20.15% and $e = S_w = 31.73\%$. This layer contains a hydrocarbon oil.