ABSTRACT

Resource assessment obtained through calculation and analysis of the data in the form of detailed exploration drilling and mapping of data. Resource assessment carried out in order to determine the estimated amount of tonnage of coal resource and the subsequent stripping ratio will be calculated on the land. Mapping the location of the concession area is located in the CV. Betuah an area of 157.08 hectares where there are 12 drilling points are located in the village of Kuala Samboja, Samboja district, Kutai regency, East Kalimantan province.

The purpose of this research is to apply the method of Cross Section in determining and estimating the amount of coal resources in the study area.

The method used in this study is the observation in the field using the method of valuation reserves Cross Section method by comparing the incremental changes guidelines (rule of gradual change) to the nearest point of the guidelines (rule of the nearest point).

The results are expected to determine the volume of resources in the overburden, seam A, interburden and seam B, determine the tonnage of coal, and the stripping ratio (SR).

Based on the assessment of coal resources by using the method of Cross Section with gradual changes in the guidelines (rule of gradual change) ≤ spaced incisions and obtained 53.55 meters measured coal resource (Measured Coal Resource) seam A is equal to 19 936 tonnes and 49 001 tonnes seam B is , so the total tonnage of coal amounted to 92 323 tonnes. Overburden and interburden obtained amounted to 191 491 Bcm by Stripping Ratio (SR) 2,07:1.

Methods Cross Section with guidance closest point (rule of the nearest point) to the distance between the incision of ≤ 26.78 meters measured coal resource to be obtained (Measured Coal Resource) seam A is equal to 19 936 tonnes and seam B is equal to 49 001 tonnes, so the total tonnage amounted to 68 937 tons of coal, as well as the volume of overburden and interburden obtained amounted to 142 708 Bcm. with Stripping Ratio (SR) 2,09:1.