

ABSTRACT

PT. Bumi Kalimasada Mining is Company mine stones which is located in the village of Kalirejo, district Kokap, Kulon Progo. PT. Bumi Kalimasada Mining is still under construction, so did the valuation of the andesite stones with the method of Cross Section and method of Contour, as input for the company.

Research area around 49,15 hectares. Resource assessment method used is the method of Cross Section and method of Contour. The reason the use of both of these methods because the stones have a high level of its homogeneity and has simple geometric shapes. The method of Cross Section which done in the study had the distance between the incision. This is due to the condition of the topography of the area of research has a different degree of steepness. Resource estimation results of the stones:

The Method Of Cross Section.

• North – South: 36.320.620 m³

• West – East: 35.804.928 m³

Contour Metho: 37.085.253 m³

The results of the valuation of the stones resources used to find the accuracy based on the percent error. The method of Cross Section incision direction West-East has the percent error of 0,90%, which means it has the accuracy rate of 99,10%. The method of Cross Section a North-South direction of the incision has a percent error of 0,61%, which means it has the accuracy level of 99,39%. And the method of Contour have a percent error of 0,10%, which means it has the level of accuracy of 99,90%.

Method of Contour better when compared with the method of Cross Section because it has higher accuracy with the percentage accuracy of 99,90%, on the distance between the elevation of 12 meters with resource assessment results of andesite 37.085.253 m³.