

ABSTRACT

PT Sugih Alamanugroho is a limestone mining company which is located in the village of Bedoyo, District Ponjong, Gunung Kidul, Yogyakarta. Assessment of the resources obtained through the calculation and analysis of the data that is detailed exploration drilling and mapping of data.

Mineral resource assessment limestones at. Sugih Alamanugroho aims to estimate the volume and tonnage of limestone resources in Mount Pokerso. This assessment is done by using two methods, namely Cross Section and Contour method.

In the cross section method performed by making an incision (cross-section). An incision is made as many as 14 incisions were divided into 13 blocks, from the incision A-A', incision B-B', incision C-C' until the incision N-N' with the distance between the incision 25 meters. While the method is done digitized contour at each contour is at 430 meters above sea level with the highest interval contour interval of 5 meters, consisting of nine contour is divided into 8 blocks. Both of these methods are based on the topography of limestone sediment that consists of the topography of peaks, slopes and valleys, using the guidelines of gradual change (rule of gradual change).

Limit estimate of the elevation of 430 meters above sea level - 390 meters above sea level, with an area of 5 ha area of research. The material covered is limited to the assessment of the resource alone.

Results of the resource estimation using the Cross Section with the guidelines of the gradual change in the distance between the incision 25 meters obtained measured mineral resources amounting to 1,225,577.28 tons. As for the method Contour with the guidelines of the gradual change in the contour interval of 5 meters measured mineral resources sebesar obtained 1,246,145.17 tons.

Mining objectives targeted by PT. Sugih Alamanugroho amounted to 544 320 tonnes / year, so it can be calculated the mine life. Cross section for the method and to methods of contour is 2.5 years. Limestone in the study area used for the base material of which is industrial paint industry.