ABSTRACT

PT. Sugih Alamnugroho is a limestone mining company in Yogyakarta. Currently the mining is done only at Mount Sidowayah mountain while others still have not been mined. Market demand is increasing and reserves dwindling in the mountain then carried out an assessment on the Pokerso Mount so that when a backup in the Sidowayah Mount exhausted then it can move to Pokerso Mount so that market demand can be met.

Assessment of resources in mountain pokerso at PT. Sugih Alamnugroho done by using cross section.This assessment is restricted from elevation of 425-370 meters above sea level and limit the IUP of company. Whereas for comprehensive measurement the author using AutoCAD 2007.

Sectional lines that do not cross the topography will be having an increasing and decreasing volume. assessment of the volume using the cone formula, frustum formula, and the formula mean area, depending on the difference between the two cross-sectional area. The smaller the distance between the cross section of the assessment results will be more accurate. This research is considered accurate assessment on the cross-section of 10 m was 2.929.019 tons. But at 40m sectional assessment is the biggest with 2.978.486 tons and 100m sectional outcome assessment is the smallest with 2.577.065 tons. The assessment results, demonstrate at that distance occurs a straightening that causes the increasing of volume while the smaller assessment results show the reduction in volume.