

ABSTRACT

The observation area taken place in mining trace area of batubara in Senong pit which located in Desa Bukit Pinang, Kecamatan Samarinda Ulu, Kabupaten Samarinda, Provinsi Kalimantan Timur. The mining in Senong pit used open mine method, which this mining method will leave cavities shape that it needs planning activity to structuring the land and revegetation.

The purpose of this observation are planning the way to structuring land of the mining trace area that consist of hoarding, structuring the top of soil and planting in order to the revegation activity can work well.

The method of observation by using combination of theory that have studied by used data that taken from field that it processed and analyzed so it getting approach to solve the problems.

The large of Senong pit which revegetated are 288.900 m² by material volume which needed to hoarding are 4.211.365,125 m². The hoard material from over burden pit Jongkang. The diplacement of material use excavator backhoe Komatsu PC300LC-8 2 units, Bulldozer Komatsu D85ESS-2 1 unit with chump truck Isuzu FVZ34P 10 units. The times that needed to wreck the materials over burden use *excavator backhoe* PC300LC-8 along 25 months 12 days.

The structuring top of soil used guludan system by the amount of guludan which needed for 28,89 hectare of large of land are 3.438 gulud by the amount of per hectare are 119 gulud, the volume total of top soil which needed are 27.503,1848 Lcm, the dimension of guludan that is the long of guludan = 11 m ; the wide of beam = 1 m ; the tall = 0,5 m ; the layer of triangle = 0,5 m ; the wide of bottom = 0,5 m ; the wide between guludan = 5 m. The structuring top of soil made by combined human energy and heavy equipment . the times of structuring top of soil by combination of human energy and heavy equipment are 4 months 17 days. The plants which used to doing revegation are sengon plant (*paraserienthesfalcataria*). The requirement of sengon plant grows is seen from the parameter of soil pH, texture of soil, efective of depth, air temperature, and high.