

SUMMARY

The study was conducted at PT. Berau Coal, Lati Mine Operation site which is located in the district of Gunung Tabur, Berau, East Kalimantan province starting from September 2nd of 2021 to Desember 31th of 2021.

The overburden stripping activity by PT. Berau Coal as the owner uses conventional methods for mining activities, namely using a combination of loading an unloading equipment and transportation equipment. The digging tools uses are the Excavator 2000 and the Caterpillar 777D hauling equipment.

One of the mining stages is to excavate and fill the overburden (OB) layer. OB material is transported to the dumping or disposal location for dumping until it reaches the final dump condition in accordance with the plan that has been made previously covering the area, shape and elevation of the stockpile.

The dumping ratio from the current evaluation is soft material 1 : 3,55 hard material. In this PQRT pit area by considering the need for hard material or blasting material, where in the PQRT pit for hard materials the volume is very limited with a lot of soft material at the top that must be removed first. The hard material is very necessary to be used as dumping material in front loading swamp areas, ex-disposal areas that are redisturb, dumping soft materials in disposal areas and material for layering on mining roads.

This study analyzes the activities of ratio dumping in the disposal area. This research is intended so that the results of the dumping ratio in the disposal area are in accordance with company standards, namely soft material 1 : 3 hard material. Thus, excess soft material can be transferred to Channel Dump. This research can be completed properly and on time. The results of the research on the comparison between soft and hard materials can be used as evaluation material by the company owner.

Based on the results of the study, it was found that the production of Excavator PC2000 from the front to channel dump was 20.474 BCM/Month and the production of Excavator PC2000 from the front to the disposal was 20.861 BCM/Month. Meanwhile, the production of HD-777 from the front to channel dump is 18.715,5 BCM/Month and the production of HD-777 from front to disposal is 14.392 BCM/Month.