

ABSTRACT

PT. Gunung Emas Abadi is a company which moved in coal mining business located at Lalap, Petangkep Tutui District, Municipality east Barito, central Kalimantan province.

Mining activity were implemented by PT.Gunung Emas Abadai is a system of surface mining with method open cut. In the excavating overburden using a series of work loading equipment and hauling equipment, to move the material from the loading site to the dumping area. The excavating used for digging and loading material into dump truck and then hauling material at the dumping area front 1 626,89 m and front 2 with distance area 668,93 m.

The equipment are used is backhoe Volvo EC 480 DL that having a capacity of 3,3 m³ bucket and equipment hauling which used dump trucks Nissan CWB45 with vessel capacity 22 m³. production overburden target is 118.600,00 BCM/Month. The problem that occur this time is the production of dump truck I not optimal yet, so the production that set on target was not yet reaches. The real overburden production is 111.479,20 BCM/Month. Production target is not achieving to the lost work time of delay time work, which delay time or idle time. With the delay time will be reduce the effective working time so that causing effesien working little being.efforts are being made increase production using increase work efficiency and reduce of the cycle time hauling equipment.

By reducing cycle time Hauling Equipment on front 1 from 11.14 minutes to 9.61 minutes, while the front 2 of 11.20 minutes to 9.97 minutes and controllable delay time, will cause the improvement of work effectiveness. Excavator Volvo EC 480 DL(EX-4035) effectiveness improve from 73,30 % to 74,21 %, for excavator Volvo EC 480 DL(EX-4037) dari 73,14 % to 74,45 %, and Dump Truck Nissan CWB45(EX-4035) improve from 69,28 % to 71 %, for Dump Truck Nissan CWB45(EX-4037) dari 69,36 % to 70,59 %. Before The Production enhancement 111.479,20 Bcm/month and The Production after that is equal to 129.941,65 Bcm/month.