

ABSTRACT

Perhitungan Produktivitas dan Biaya Pengeboran Overburden Menggunakan Drill Furukawa HCR 1500-D20II Mata Bor 5,5 Inch dengan HCR 1200-ED Mata Bor 3,5 Inch di area PT. Nusa Alam lestari

Oleh: Bambang Febrianto

Administratively, the mining concession area of PT NAL included in Prambahan, Talawi district, the city of West Sumatra province Sawahlunto, the distance between the mine with a desert city (provincial capital boast) \pm 90 km east of the city of Padang.

PT. NAL do with the system open pit mining, where the method of blasting is used for stripping rocks that have violence on the ability of excavator.

Drilling tools PT. NAL using a drill Fukukawa HCR 1500-D2011 with 5.5-inch bit diameter and 4 meters long rod, Fukukawa HCR 1200-ED with a 3.5 inch diameter bit rod 4 meters. Productivity tools drill Fukukawa HCR 1200-ED is low and this is because not effective, the plan pengemboran incompatible with the field results. Overburden stripping so that the production does not reach the production target of 30,000 tons that had been planned.

After a comparison of the two drill bits drill bit that is 3.5 inch and 5.5 inch drill bit, that pengemboran with HCR with HCR 1500-D20 1200-ED in terms of cost per meter, per-minute production is better than drilling by using HCR 1200 -ED this is caused by the volume of drilling such as burden, spacing, and depth but long compared to HCR 1200-ED working less time consuming compared to HCR 1500-D20II. The result is more effective than the 5.5 inch 3.5 inch. Production drilling m³/hr 317.16 5.5 inch 3.5 inch drilling and production can only 79.15 m³/hr.