

RESERVE CALCULATION OF COAL MINED BASED ON EXAMINATION OF STRIPPING RATIO AT NORTH BLOCK IN PT. PANCARAN SURYA ABADI EAST KALIMANTAN PROVINCE, INDONESIA

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ABSTRACT

Mining is an activity carried out to take deposits of minerals below the earth's surface, one of which is coal. To calculate how much money is spent to buy minerals? Another thing agreed in the calculation of reserves is as a basis for economic evaluation, whether regional research is feasible or not feasible. Research conducted at PT. Pancaran Surya Abadi, Kutai Lama, Anggana District, Kutai Kartanegara Regency, East Kalimantan, where the calculation is done using a computer-based program, Minescape 4118. In this study the block model method is used to determine the optimal potential area for mining activities, from the block model is made a solid block batter (with the contour structure as the lower boundary and topography as the upper limit), so that from the solid block we can make reshgraph based on the stripping ratio value of 4.6: 1, from the results of the reshgraph can be determined the potential area to be mined marked with certain colours. The results of the research that has been carried out, obtained seam A coal seam modelling has a thickness of 2.21 meters and seam B 5.19 meters. The calculation of mining reserves obtained by coal is 13,074,635.12 MT, overburden is 60,532,994.96 BCM, and so a stripping ratio of 4.6: 1 is obtained.

KEYWORDS: *Coal, Block model, Solid Batter block, Stripping Ratio, Reshgraph*

Article History

Received: 09 Dec 2020 | Revised: 15 Dec 2020 | Accepted: 26 Dec 2020
