

ABSTRACT

The calculation of coal reserves is essential to determine the existence of coal deposits. The calculation of coal reserves should be done optimally so that the error rate is low and the calculation can be accountable.

This research has been done in PT Rimau Energy Mining in Janang, Paku and Awang sub-districts, Barito Timur Regency, Central Kalimantan. The modelling and calculation of coal reserves was done using *Block model* in Minescape software.

The modelling and calculation of coal reserves has been done in 7 seams which consist of seam R01A, R01B, R02, R03A, R03B, R03C, R04D. The seams were chosen based on its quality and thickness which were qualified for mining.

This research shows that coal resources in Barito Timur are about 15.327.169 tons for measured, 9.537.671 ton for indicated, and 10.962.198 ton for inferred while coal reserves which are measured coal resources are about 11.218.134,46 tons: seam R01A 676.745,29 tons, seam R01B 966.757,48 tons, seam R02 1.520.334,27 tons, seam R03A 1.918.239,57 tons, seam R03B 2.718.091,74 tons, seam R03C 3.274.002,03 tons, seam R03D 143.964,08 tons, and the amount of overburden volume is 60.638.661,7 m³. The stripping ratio which was obtained is 1:5,505.