ABSTRACT

Concession of PT. Borneo Brikoks Industri has an area of 80 ha. Based on the result of field surveys and exploration drilling activities as much as 6 seam coal is found in block A, B, C, D, E, and F with a thickness between 0,5 - 4 m. The general direction of the spread of coal strike $N190^0E$, and the angle of subduction dip 62^0. Based on reserve assessments conducted on all block obtained a total reserve of 945.726 ton. Mine stripping ratio limit 14:1.

Problems in this study is PT.Borneo Brikoks Industri needs to do the technical design of coal mining, which is safe and economical so that production targets can be achieved. Methods of problem solving done by the secondary data processing which includes data exploration and drilling, resulting in geological modeling, calculation of reserves, design pit mining, and coal production scheduling.

The results obtained for coal in the area of production scheduling, conducted over 5 years namely :

a. The design in the first year of coal production amounted to 225.719 tons, with overburden stripping of 3.176.279 bcm, SR 14:1.
b. The design in the second year of coal production amounted to 225.719 tons, with overburden stripping of 3.176.279 bcm, SR 14:1.
c. The design in the third year of coal production amounted to 225.719 tons, with overburden stripping of 3.176.279 bcm, SR 14:1.
d. The design in the fourth year of coal production amounted to 225.719 tons, with overburden stripping of 3.176.279 bcm, SR 14:1.
e. The design in the fifth year or the end of mining only until the second month and based on technical and economic assessment of the company proposed to take coal with production of 42.850 tons, and stripping overburden of 1.556.800, 44 bcm, with SR 36:1.

Total production for five years was 945.726 tons, with value of all mining stripping ratio is 14:1. Stockpiling overburden dump is done outside as well as in the second to fifth be backfilling the east pit mining.