

ABSTRACT

PT . Albros Energy is a national private company, engaged in coal mining which has a mining exploitation license in the District Jorong , Tanah Laut, South Kalimantan Province with an area of 483 hectares.

There has been no Technical Draft of Mining in this area, therefore it has to be made. PT . Albros Energy will use open-pit mining system using strip mine , mining technical design would be conducted for 5 years with mine production target about 600,000 tonnes / year , so this time we need a mining plan by considering stripping ratios (SR) at a maximum of 6:1.

The results of calculation of 3,168,085 tons of coal reserves , coal production scheduling in first year, the amount of excavated soil cover of 3,990,810 million BCM and tonnage of coal mined at 645,045 tonnes. Second year, the amount of excavated soil cover 3,870,315 BCM and tonnage of coal mined at 627,150 tons . Third year the amount of excavated overburden 3,857,005 BCM and tonnage of coal mined at 634,630 tonnes, Fourth year, the amount of excavated soil cover by 3,728,390 BCM and tonnage of coal mined at 620,720 tonnes. Fifth year , the amount of excavated soil cover of 3,524,130 million BCM and tonnage of coal mined at 640 540 tonnes.

The number and type of equipment that used for mining activities at the study site , namely : type backhoe excavator loading Cat 330BL with a bucket capacity of 2.2 m³ number of 8 units each year for ground cover 1 unit every year for coal and transportation equipment in use is Dump truck Nissan CWBA type tub 45 with a capacity of 21 tons load , number of 27-32 units each year to cover the ground and 2-3 units per year for coal.