

ABSTRACT

PT. Gunungbayan Pratamacoal (PT. GBPC) Blok II is a private company which is engaged of coal mining located at Muara Tae, Jempang District, West Kutai, East Kalimantan as the holder second generation PKP2B (KW. 05PB0157) covering area of 15.690 Ha. In conduct mining activities, PT. Gunungbayan Pratamacoal using surface mining system.

This research was conducted because there was a change in the overall stripping ratio of the original 23: 1 to 18: 1 so that PT. GBPC requires mining engineering designs with overall stripping ratio of 18: 1.

Mining activities carried out in Pit Jumbo for seam 7, seam 8, and seam 9, which it's extension pit with the amount of overburden 61.239.924 BCM and 3.811.021 Tons of coal reserves will be conducted for period of 21 months that is June 2013 to February 2015.

The results obtained for scheduling the production of coal in the area of research for 7 quarter :

- a. 1st quarter, overburden stripping of 10.838.301,90 BCM and coal production amounted to 561.066,21 Tons with stripping ratio of 19,3: 1.
- b. 2nd quarter, overburden stripping of 11.027.412,02 BCM and coal production amounted to 571.065,25 Tons with stripping ratio of 19,3: 1.
- c. 3rd quarter, overburden stripping of 10.279.761,08 BCM and coal production amounted to 531.533,81 Tons with stripping ratio of 19,3: 1.
- d. 4th quarter, overburden stripping of 10.807.132,87 BCM and coal production amounted to 559.418,17 Tons with stripping ratio of 19,3: 1.
- e. 5th quarter, overburden stripping of 8.723.794,17 BCM and coal production amounted to 560.830,26 Tons with stripping ratio of 15,5: 1.
- f. 6th quarter, overburden stripping of 7.248.521,61 BCM and coal production amounted to 576.838,73 Tons with stripping ratio of 12,6: 1.
- g. 7th quarter, overburden stripping of 2.315.000,35 BCM and coal production amounted to 450.268,57 Tons with stripping ratio of 5,1: 1.