

ABSTRAK

Currently PT. Bumi Karunia Pertiwi have not the design of mining coal deposits, so that the necessary make mining design. The design will be used as a reference in the implementation of mining coal deposits in the Binangin Village, Kecamatan Teweh Timur, Kabupaten Barito Utara, Provinsi Kalimantan Tengah.

The design of mining in PT. Bumi Karunia Pertiwi using surface mining methode with a system of strip mine, the area of IUP PT. Bumi Karunia Pertiwi is 886 Ha, the stripping ratio of 10:1 and the production target of 1,000,000 ton per years with two years mining production.

The number of coal seam at IUP PT. Bumi Karunia Pertiwi much as six seams, namely: Seams A, Seams B, Seams C, Seams D, Seams E, and Seams F. From the analysis resgraphick obtained two viable mineable seam, namely: Seam A and Seam B with SR 10:1.

Dimensions of the strip mine is bench height 8 m, bench width 5 m, single slope 60°, and pit bottom width 20 m. And the dimension of waste dump is angle of repose overburden 27°, bench height 5 m, bench width 5 m. Schedule of production is:

1. First year production of coal is 1,057,350 tons, overburden 9,955,569 bcm, stripping ratio 10:1, and geometri design from PIT_BLC_01 until PIT_BLC_12. Pit limit area 24.26 Ha.
2. Second year production of coal is 1,253,782 tons, overburden 12,241,397 bcm, stripping ratio 10:1, and geometri design from PIT_BLC_13 until PIT_BLC_33. Pit limit area 33.81 Ha.