

## ABSTRACT

Resources valuation is obtained through calculation and analyzing the exploration data such as drilling data, strike, dip and coal thickness. It is conducted to get information about the valuation of coal tonnage. The mapping location was located in the concessions area of PT. Bukit Asam (Persero) Tbk with covering as wide as 14,8 Ha, at Tanjung Enim, Muara Enim regency, South Sumatera province.

The purpose of this research were to determine the classification and to calculate the number of coal resources in the research area by using Cross Section Method with Rule of Gradual Changes and Rule of Nearest Point guidance.

The method used in the research was field note taking while the estimation method used Cross Section Method comparing between the guidance of Rule of Gradual Changes and Rule of Nearest Point.

The research findings were expected to determine the volume and the coal tonnage.

The conclusion that obtain by using Cross Section Method with the Rule of Gradual Changes guidance is done by connecting the one section to others section in order to obtain volume of 1.247.482,97 m<sup>3</sup> and coal tonnage as many as 1.621.727,86 ton.

Cross Section Method with Rule of Nearest Point guidance is conducted by cross border demarcation by half between the cross section with the result of volume as many as 1.247.483,01 m<sup>3</sup> and coal tonnage was 1.621.727,9 ton.