Chapter 7

Conclusion

From the previous chapters, conclusion regarding the geostatistical analyses on data from Sin Pun and Saba Yoi areas can be drawn as the following contexts :

1. FoxPro and Geo_EAS software programs can create successfully in a practical database system and determine variogram analysis for coal-quality modeling, respectively. These two softwares can successfully run on any IBM the PC computer.

2. Selected data on proximal analysis can be either transferred from the VULCAN program with the assistance of the created sub-routine subprogram before using or directly stored in the FoxPro database software system.

3. Specific variogram parameters, including angular tolerance (45°), lag spacing (130-400), and range (mostly from 400 to 1000 m), seem appropriate for the variogram analysis.

4. Variogram models can be run successfully using both Geo_EAS and SURFER softwares. It is discovered that the former is good at determining variogram modeling, whereas the latter is better at multi-coloured graphic presentation.

5. Based upon variogram analysis, mostly the variogram models justified are spherical with the minority of linear, gaussian and pure nugget effect models.

6. The uses of variogram analysis and kriging estimation can serve as a major tool in optimization of exploratory drill-hole sites, optimum sampling pattern vertically and

horizontally and mine planning. In addition, uses of variances can help in the interpretation of related geological setting.

It is hoped that the technique adopted from this current research gains acceptance by staff geologists and engineers of EGAT and may be considered to be integral elements in the routine reassessment of production parameters.