MinE 306 Mining Exploration and Evaluation


Homework 2 Assignment:


Q1: From you reading and experience, what reserve parameters would you use to evaluate a coal property in Northern West Virginia?

Q2: Write the answers and be prepared to discuss in class the following

- How are in-place resource tonnages converted to saleable or product tons?
- What methods are used to calculate resource tons?

Q3: From this Example in the PowerPoint presentation “Resource Classification Systems” slide 25, determine the average thickness of this brown coal seam in the Latrobe Valley of Australia. The data available is listed below. You may need additional information or have to make assumptions to complete the problem.

Latrobe Valley brown coal seam, Victoria, Australia
3D geologic model covered 1,100 km2 (425 sq miles)
8,000 borehole data points were used in the model
Distribution and quality parameters were mapped
In-situ resource = 129,000 Mt of brown coal
Economic Resource = 53,000 Mt
Regional resource recovery is therefore = 53/129 = 41%

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