Availability of the Springfield Coal for Mining in Illinois
Map Summary of Illinois Minerals 118
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Introduction

The Illinois State Geological Survey (ISGS) is a nonregulatory state agency that conducts geological surveys and research. This survey examines the availability of coal in Illinois for future mining. The survey is based on a series of studies that examined the availability of coal in Illinois for future mining. These studies were conducted by various researchers, including C. G. Treworgy, Christopher P. Kanne, Chris A. Chenoweth, and Daniel H. Worth.

Geology and Minability

The Springfield Coal is a coal bed located in the Illinois Basin. The coal bed is composed of two seams, the Woodford and the Danville, and is found in central and southeastern Illinois. The coal bed is in the Pennsylvanian System, which is a geologic formation that includes the Woodford and the Danville coal beds.

The areas of available surface minable coal are limited in tonnage and areal extent. Towns, high stripping ratios, and potential restrictions in land use conflict these resources. The areas of available surface minable coal are limited in tonnage and areal extent. Towns, high stripping ratios, and potential restrictions in land use conflict these resources. The areas of available surface minable coal are limited in tonnage and areal extent. Towns, high stripping ratios, and potential restrictions in land use conflict these resources.

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Quality

The quality of the Springfield Coal is high. The coal has a high calorific value, low ash content, and low sulfur content. The coal is also low in volatile matter and has a low moisture content. The coal is suitable for use in power plants and as a fuel for industrial purposes.

Surface Mining

Surface mining is a mining method that involves the removal of overburden material to access a coal bed. The method is most commonly used for mining shallow coal deposits. The method is also used for mining deep coal deposits, but it is more expensive and causes more environmental damage than underground mining.

The availability of coal for surface mining is limited by various factors, including land use restrictions, potential restrictions, and technological restrictions. These factors reduce the amount of coal that can be mined and the amount of coal that is available for surface mining.

Resources

The available resources are primarily located in the central and southeastern portions of Illinois. The resources are located in rural areas, which are well suited for high-efficiency longwall mining. The resources are also located in areas that have low potential restrictions, which makes them more suitable for surface mining.

Technological factors, primarily geologic conditions and engineering parameters such as bedrock cover or a bedrock to unconsolidated overburden ratio of less than 1:1, influence the availability of coal for mining. These factors reduce the amount of coal that can be mined and the amount of coal that is available for surface mining.

Factors influencing the availability of coal for surface mining include:

- Land use restrictions
- Potential restrictions
- Technological restrictions
- Geologic conditions
- Engineering parameters
- Bedrock cover or a bedrock to unconsolidated overburden ratio

The availability of coal for surface mining is limited by these factors. The availability of coal for surface mining is limited by these factors. The availability of coal for surface mining is limited by these factors.

Conclusion

The availability of the Springfield Coal for mining in Illinois is limited by various factors, including land use restrictions, potential restrictions, and technological restrictions. The availability of coal for surface mining is limited by these factors. The availability of coal for surface mining is limited by these factors.