Surficial Geology of Black Hawk County, Iowa

Introduction to the Surficial Geology of Black Hawk County

Black Hawk County was selected for this study because of the variety of surficial deposits and geologic features found within its borders. The county is characterized by a diverse landscape that includes areas of varying elevation, topography, and drainage patterns. This diversity provides an excellent opportunity to study the interplay between geologic processes and the resulting surficial deposits.

The study area includes the county's boundaries and extends approximately 5 miles beyond them to ensure that all significant geologic features are included in the analysis. The map and cross-sections are based on interpretations of the best available information at the time of mapping.

Methodology

New subsurface geologic data was collected through stratigraphic logging, geophysical surveys, and drilling. The data was then integrated with existing geologic maps and reports to create a comprehensive view of the area's geology.

Geologic Cross-Section A-B

The geologic cross-section A-B provides a detailed view of the geology along a particular transect. It includes information on the stratigraphic units, rock types, and other geological features along the section.

Correlation Chart

The correlation chart provides a summary of the stratigraphic units and their relationships. It is used to correlate the geologic units across the study area and to identify areas of potential joint drilling or further study.

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References

[List of references]

Map interpretations are not a substitute for detailed site-specific studies.

Surficial Geology of the Midwest: A Quaternary Synthesis