

**SURFICIAL GEOLOGIC MAP OF THE SPERRY (IOWA) 7.5’ QUADRANGLE**

The Sperry Quadrangle is located in southeastern Iowa on the Southern Iowa Drift Plain landform region. The area includes parts of Des Moines County, Iowa, and adjacent Illinois. The bedrock surface in the quadrangle is low, with elevations ranging from 200 to 300 feet above mean sea level. The area is underlain by a variety of bedrock formations, including the Oskaloosa and Keokuk Formations.

**INTRODUCTION**

This section provides an overview of the geologic setting and history of the area. The bedrock geology is dominated by the Oskaloosa and Keokuk Formations, which are composed of limestone, dolomite, and shale. The area has been affected by glacial and fluvial processes, resulting in a variety of surficial deposits.

**MAP INTERPRETATIONS**

The surficial geologic map of the Sperry Quadrangle is based on detailed field studies, aerial photography, and remote sensing data. The map units are interpreted based on the geologic context and are not intended to be a substitute for detailed site-specific studies.

**CORRELATION OF MAP UNITS**

The correlation of map units is shown in the legend. The map units are color-coded and identified with letters and numbers. The map is scaled at 1:24,000 and is intended as a guide for further exploration and study.

**REFERENCES**


**ACKNOWLEDGEMENTS**

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The views and conclusions contained in this document are those of the authors and should not be interpreted as representing the official policies, either expressed or implied, of the Department of Defense or the US Government.

**MAP LEGEND**

- **Till**: Glacial till, including glacial outwash. The till includes a variety of materials, including deposits from glacial lakes, continental glaciers, and Ice Age marine transgressions.
- **Till Plains**: Areas covered by till plains, including deposits from continental glaciers and Ice Age marine transgressions.
- **Loess**: Deposits of loess, including deposits from Ice Age marine transgressions and Ice Age wind action. Loess is a fine-grained sedimentary deposit typically found in areas that have been subjected to strong winds.
- **Fluvial Deposits**: Deposits of fluvial origin, including deposits from streams and rivers. Fluvial deposits are typically found in valleys and low-lying areas.
- **Boulder Clay**: Deposits of boulder clay, including deposits from Ice Age marine transgressions and Ice Age wind action. Boulder clay is a sedimentary deposit typically found in areas that have been subjected to strong winds.
- **Alluvium**: Deposits of alluvium, including deposits from streams and rivers. Alluvium is typically found in valleys and low-lying areas.

**LOCATION MAP**

The location map shows the extent of the Sperry Quadrangle, including the surrounding area. The map includes the locations of major towns and cities, as well as major highways and roads. The map is intended as a guide for further exploration and study.

**SURFICIAL GEOLOGIC MAP OF THE SPERRY 7.5’ QUADRANGLE, DES MOINES COUNTY, IOWA**

This surficial geologic map of the Sperry 7.5’ Quadrangle, Des Moines County, Iowa, is based on detailed field studies, aerial photography, and remote sensing data. The map units are interpreted based on the geologic context and are not intended to be a substitute for detailed site-specific studies.