PRELIMINARY SURFICIAL GEOLOGY OF THE BLUFF CITY WEST QUADRANGLE, HARPER COUNTY, KANSAS

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GEOLGY UNITS

EXPLANATION

Quaternary System

Pleistocene Horizon

Lithofacies

Diffuse Irregular deposits

These alluvial deposits make up the modern floodplain to the south of the principal stream, Harper Creek. The floodplain consists of a silty loam that is undulating to the north. The floodplain deposits are highly permeable and form a zone of water storage.

Illuvial deposits

These alluvial deposits are easily identified by the presence of a marshy or swampy condition. The deposits are composed of a mixture of silt and clay and form a zone of water storage.

Upland horizon

These alluvial deposits are composed of a mixture of silt and clay and form a zone of water storage.

Paleozoic System

Lithofacies

Upland alluvium

Upland alluvium is found in most of the principal streams in Harper County. The main stems of streams may reflect more deeply seated structural features.

Regional alluvium

Regional alluvium is found in most of the principal streams in Harper County. The main stems of streams may reflect more deeply seated structural features.

Upland alluvium

Upland alluvium is found in most of the principal streams in Harper County. The main stems of streams may reflect more deeply seated structural features.

SUGGESTED REFERENCES TO THE MAP

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This map was produced using ArcGIS software, and the data were displayed using a variety of geospatial tools. The map was designed to provide a visual interpretation of the geologic features in Harper County.