INTRODUCTION

The Van Horne Quadrangle is located in central Iowa on the Iowa-Keokuk surficial terrace region. This region is characterized by a series of gently undulating to flat-topped basaltic plateaus with interspersed river valleys and small hills. The area is underlain by Quaternary sediments, which have been deposited since the last glacial episode. The study area includes the Van Horne and Vinton quadrangles and covers an area of approximately 100 square miles.

The Van Horne Quadrangle is part of the larger Iowa Geological Survey (IGS) effort to map the geology of Iowa. The map was produced using a combination of field observations, aerial photographs, and previous geologic maps. The map is intended to provide a detailed view of the geology of the area, including bedrock outcrops, surficial deposits, and landform features.

The map was compiled by Phil Kerr, Stephanie Tassier-Surine, and Richard Langel. The Mapping Unit was Qal: Alluvium. The Map was published by the Iowa Geological Survey in October 2000.

LEGEND

CENOZOIC
QUATERNARY SYSTEM

HOLDMAN EPISODE

Alluvium (Qal)

Wisconsin Episode

Alluvium (Qal)

Illinois Episode

Alluvium (Qal)

PRE-ILLINOIS EPISODE

Alluvium (Qal)

Correlation Chart

<table>
<thead>
<tr>
<th>General Lithology</th>
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<th>Series System</th>
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<td>Hudson</td>
<td>Quaternary</td>
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<tr>
<td>Loess</td>
<td>Qps1, Qps1b</td>
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<tr>
<td>Colluvium</td>
<td>Qwm2</td>
<td>Wisconsin</td>
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<tr>
<td>Erosion Surface</td>
<td>Qwa2</td>
<td>Wisconsin</td>
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</tr>
<tr>
<td>Glacial till</td>
<td>Qwa3</td>
<td>Pre-Illinois</td>
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REFERENCES


Surficial Geologic Map of the Van Horne 7.5’ Quadrangle, Benton County, Iowa

Phil Kerr, Stephanie Tassier-Surine, and Richard Langel

Iowa Geological Survey, UHBR-HydroScience & Engineering, University of Iowa, Iowa City, Iowa

Open File Map 686-FW-5

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