1985

Keith County, Nebraska, Map Series

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KEITH COUNTY, NEBRASKA
MAP SERIES

PREPARED BY
NEBRASKA GEOLOGICAL SURVEY STAFF
CONSERVATION AND SURVEY DIVISION, IANR
UNIVERSITY OF NEBRASKA-LINCOLN

1985

R. F. Diffendal, Jr., et al.
KEITH COUNTY--LIST OF MAPS AND THEIR AUTHORS

1. Topography--U. S. Geological Survey
2. Index of 7.5' Topographic Quadrangles and Township Boundaries--R. F. Diffendal, Jr.
11. Oil and/or Gas Test Hole Locations--R. F. Diffendal, Jr.
15. Configuration of Top of White River Group (= Brule Fm.)--R. F. Diffendal, Jr.
17. Configuration of Top of Niobrara Fm.--H. M. DeGraw
18. Configuration of Base of Greenhorn Limestone--H. M. DeGraw
19. Configuration of Top of Permian System--R. R. Burchett
20. Structural Contours on Top of Stone Corral--R. R. Burchett
21. Structural Contours on Top of Pennsylvanian System--R. R. Burchett
22. Depth to Precambrian Surface--M. P. Carlson
23. Configuration of Top of Precambrian--R. R. Burchett and M. P. Carlson
24. Geothermal Projected Temperatures on Top of Dakota Group--D. Eversoll and W. Gosnold
25. Bouguer Gravity Anomaly Map--R. R. Burchett and T. Eversoll
### SOIL LEGEND

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>9</td>
<td>BRIDGET-TRIPP-CHEYENNE ASSOCIATION: Deep and moderately deep over sand and gravel, nearly level to gently sloping, well drained, loamy soils formed in colluvium, alluvium, loess, and alluvium on uplands and terraces: Torriorthentic Haplustolls, coarse-silty; Aridic Haplustolls, coarse-silty; Aridic Haplustolls, fine-loamy over sandy or sandy skeletal.</td>
</tr>
<tr>
<td>16</td>
<td>CANYON-ROSBUD-ROCK OUTCROP ASSOCIATION: Shallow and moderately deep, gently sloping to very steep, excessively and well drained, loamy soils formed in weathered sandstone and areas of rock outcrop on uplands: Ustic Torriorthents, loamy, shallow; Aridic Argiustolls, fine-loamy.</td>
</tr>
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<td>CARUSO-SILVER CREEK-HUMBARGER ASSOCIATION: Deep, nearly level, moderately well and somewhat poorly drained, loamy soils and silty saline-alkali soils formed in alluvium on bottomlands and terraces: Fluvaquentic Haplustolls, fine-loamy; Typic Natraquolls, fine; Cumulic Haplustolls, sandy.</td>
</tr>
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<td>20</td>
<td>COLBY-CANYON ASSOCIATION: Deep and shallow, gently sloping to very steep, somewhat excessively and excessively drained, silty soils formed in loess and loamy soils formed in weathered sandstone on uplands: Ustic Torriorthents, fine-silty; Ustic Torriorthents, loamy, shallow.</td>
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<td>30</td>
<td>DIX-ALTVAN ASSOCIATION: Shallow and moderately deep over gravely sand, nearly level to steep, well and excessively drained loamy soils formed in sandy and gravelly sediments and loamy sediments over sand and gravel on uplands and terraces: Torriorthentic Haplustolls, sandy-skeletal; Aridic Argiustolls, fine-loamy over sandy or sandy-skeletal.</td>
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<td>41</td>
<td>GOTHENBURG-PLATTE ASSOCIATION: Shallow over sand and gravel, nearly level and very gently sloping, poorly and somewhat poorly drained, sandy and loamy alluvium underlain by sand and gravel on bottomlands: Typic Psammaquents; Mollic Haplustolls, fine-loamy.</td>
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<td>JAYEM-HAXTUN-ROSEBUD ASSOCIATION: Deep and moderately deep, nearly level to gently sloping, well drained, loamy soils formed in eolian sand, loam, and weathered sandstone on uplands: Aridic Haplustolls, coarse-loamy; Pachic Argiustolls, fine-loamy; Aridic Argiustolls, fine-loamy.</td>
</tr>
<tr>
<td>67</td>
<td>JAYEM-KEITH ASSOCIATION: Deep, nearly level to gently sloping, well drained, loamy and silty soils formed in eolian sand, loam, and loess on uplands: Aridic Haplustolls, coarse-loamy; Aridic Argiustolls, fine-silty.</td>
</tr>
<tr>
<td>74</td>
<td>KUMA-KEITH-GOSHEN ASSOCIATION: Deep, nearly level and very gently sloping, well drained, silty soils formed in loess on uplands and in upland swales: Pachic Argiustolls, fine-silty; Aridic Argiustolls, fine-silty; Pachic Argiustolls, fine-loamy.</td>
</tr>
<tr>
<td>78</td>
<td>LAS-LAS ANIMAS-MCCOOK ASSOCIATION: Deep, nearly level, somewhat poorly and well drained, loamy soils formed in alluvium on bottomlands: Aquic Ustifluvents, fine-loamy; Typic Fluvaquents, coarse-loamy; Fluventic Haplustolls, coarse-silty.</td>
</tr>
<tr>
<td>80</td>
<td>LAWET-WANN-LEX ASSOCIATION: Deep and moderately deep over sand and gravel, nearly level, poorly and somewhat poorly drained, loamy soils formed in alluvium on bottomlands: Typic Calciaquolls, fine-loamy; Fluvaquentic Haplustolls, fine-loamy; Fluvaquentic Haplustolls, fine-loamy over sandy or sandy skeletal.</td>
</tr>
<tr>
<td>104</td>
<td>OTERO-MITCHELL-BRIDGET ASSOCIATION: Deep, nearly level to moderately steep, well drained, loamy and silty soils formed in loamy sediments, weathered siltstone and colluvium and alluvium on foot slopes and terraces: Ustic Torriorthents, coarse-loamy; Ustic Torriorthents, sandy-skeletal; Torriorthentic Haplustolls, coarse-silty.</td>
</tr>
<tr>
<td>110</td>
<td>ROSEBUD-ALLIANCE-KUMA ASSOCIATION: Moderately deep and deep, nearly level to gently sloping, well drained, loamy and silty soils formed in weathered sandstone and loess on uplands: Aridic Argiustolls, fine-loamy; Aridic Argiustolls, fine-silty; Pachic Argiustolls, fine-silty.</td>
</tr>
<tr>
<td>128</td>
<td>ULYSSES-KEITH-COLBY ASSOCIATION: Deep, very gently sloping to steep, well and somewhat excessively drained, silty soils formed in loess on uplands: Aridic Argiustolls, fine-loamy; Aridic Argiustolls, fine-silty; Ustic Torriorthents, fine-silty.</td>
</tr>
<tr>
<td>133</td>
<td>VALENTINE ASSOCIATION: Deep, gently sloping to very steep, excessively drained, sandy soils formed in eolian sand on uplands: Typic Ustipsamments.</td>
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<tr>
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<td>VALENTINE ASSOCIATION, Hilly and Rolling: Deep, strongly sloping to very steep, excessively drained, sandy soils formed in eolian sand on uplands: Typic Ustipsamments.</td>
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<td>138</td>
<td>VALENTINE-HERSH ASSOCIATION: Deep, nearly level to moderately steep, excessively and well drained, sandy and loamy soils formed in eolian sand and loam on uplands: Typic Ustipsamments; Typic Ustorthents, coarse-loamy.</td>
</tr>
</tbody>
</table>
Permian Surface as Refered to Mean Sea Level

North County - Contribution at the Top of Permian System - After Brunner (1981)
Keith County - Structure Contour Map - Top of Stone Corral (Permian) - After Burchett (1981)
After Burchett (1981) - Surface referred to Mean Sea Level

Keith County - Structural Contour Map - Top of the Pennsylvanian System
Keith County - Depth to Precambrian Surface - Contour Interval = 500'