

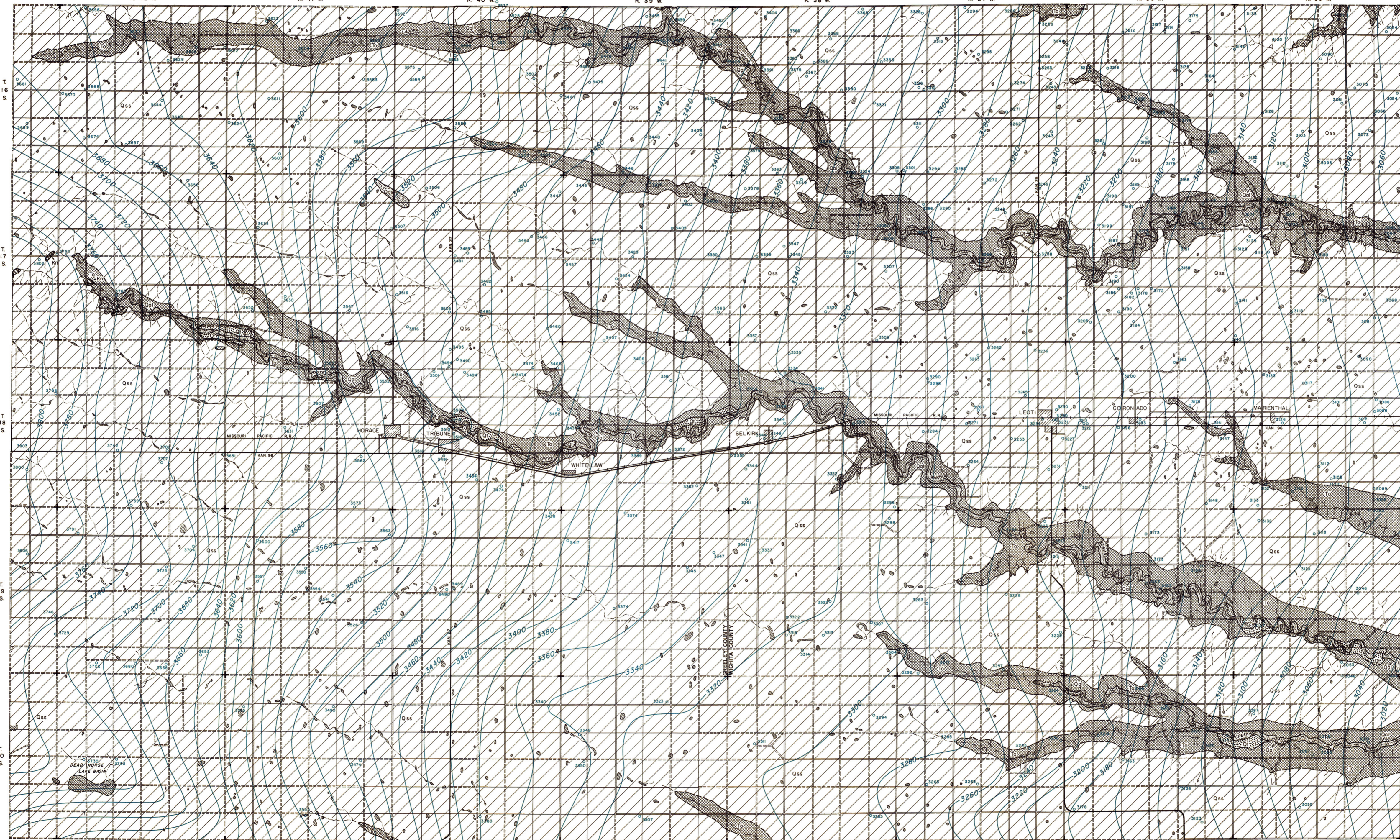
AREAL GEOLOGY OF WICHITA AND GREELEY COUNTIES, KANSAS

With Water-Table Contours

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Plate 1

State Geological Survey
of Kansas



EXPLANATION

- Alluvium**
Sand, gravel, and silt comprising stream deposits along some of the valleys. Yields small supplies of water to wells in some areas.
- Dune sand**
Fine- to medium-grained wind-blown sand. The sand dunes are above the water table and do not furnish water directly to wells.
- Terrace deposits**
Silt, sand, and gravel occurring in terrace position along parts of Loder, White Woman, and Sand Creeks. Generally lie above the water table.
- Sanborn formation (including slope deposits)**
Light-tan, massive silt. Locally contains sand and gravel at base. Generally lies above the water table.
- Ogallala formation**
Gravel, sand, silt, clay, and calciferous sand and gravel beds sometimes cemented by calcium carbonate to form mortar beds. The most important water-bearing formation in Wichita and Greeley Counties. It yields moderate to large supplies of water.
- Niobrara formation**
Smoky Hill chalk member
Chalk and chalky shale. Yields little or no water to wells in this area.

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- Well location. Number refers to altitude of water level.**
- Stream altitude. Number refers to altitude of water in stream.**
- Water-table contours based on instrumental levels.**
- Contour interval 20 feet**

- Federal or State Highway**
- Graded road**
- Ungraded road**
- Railroad**
- State line (no road)**
- County line**
- Township line (no road)**
- Section line (no road)**
- Intermittent stream**
- Intermittent lake or pond**

Base modified from map prepared by State Highway Commission of Kansas



Drainage from map prepared by U.S. Dept. of Agriculture