

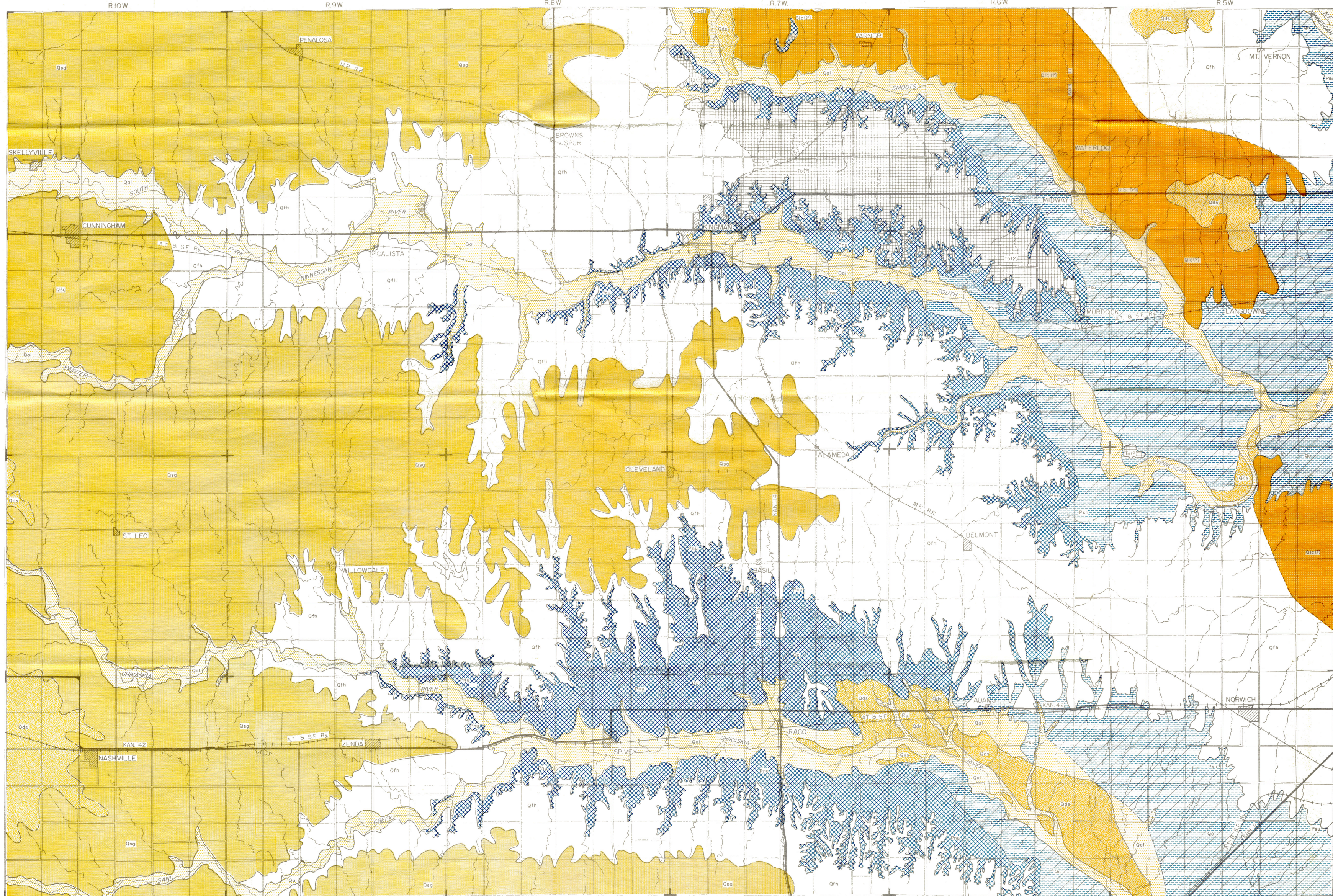
# MAP OF KINGMAN COUNTY, KANSAS, SHOWING AREAL GEOLOGY

Bulletin 144

By Charles W. Lane  
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Plate 1

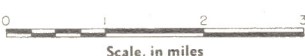
State Geological Survey  
of Kansas



## EXPLANATION

Pleistocene	Upper Pleistocene	Qds	<b>Dune sand</b> Fine to medium sand and some silt. Lies above the water table and yields no water to wells.
		Qat	<b>Alluvium and terrace deposits</b> Silt, sand, and gravel in channels of major streams and beneath terraces adjacent to streams. Yield moderate to large water supplies to wells.
Pliocene	Lower Pleistocene	Qc	<b>Colluvium</b> Silt, sand, and some gravel deposited on Permian rocks by sheet wash and soil creep. Yields small water supplies for stock and domestic use in small areas in the eastern part of the county.
		Qsg	<b>Sappa and Grand Island Formations</b> Silt, clay, sand, gravel, and some caliche; contains volcanic ash locally. The Sappa Formation is absent in a part of the mapped area. Yield moderate to large water supplies where saturated thickness is sufficient.
Tertiary	Leonardian	Qfh	<b>Fullerton and Holdrege Formations</b> Silt, clay, sand, gravel, and some caliche. The Fullerton Formation is absent in a part of the mapped area. Yield moderate to large water supplies where saturated thickness is sufficient.
		To	<b>Ogallala (?) Formation</b> Silt, sand, and gravel, locally derived. Yields small water supplies for stock and domestic use in a small area of the county.
Permian	Permian	[Cross-hatch pattern]	<b>Nippewalla Group undifferentiated and Sumner Group undifferentiated</b> Reddish-brown to red shale, siltstone, sandstone, and thin limestone. Yield small water supplies for stock and domestic use in most of area of outcrop from deeply weathered zone.

- Federal or State Highway
- Gravel road
- Railroad
- County line (no road)
- Township line (no road)
- Section line (no road)
- Intermittent stream



Base compiled from maps prepared by the Soil Conservation Service