








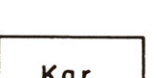
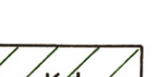




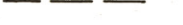







AREAL GEOLOGY OF LINCOLN COUNTY, KANSAS

State Geological Survey
of Kansas

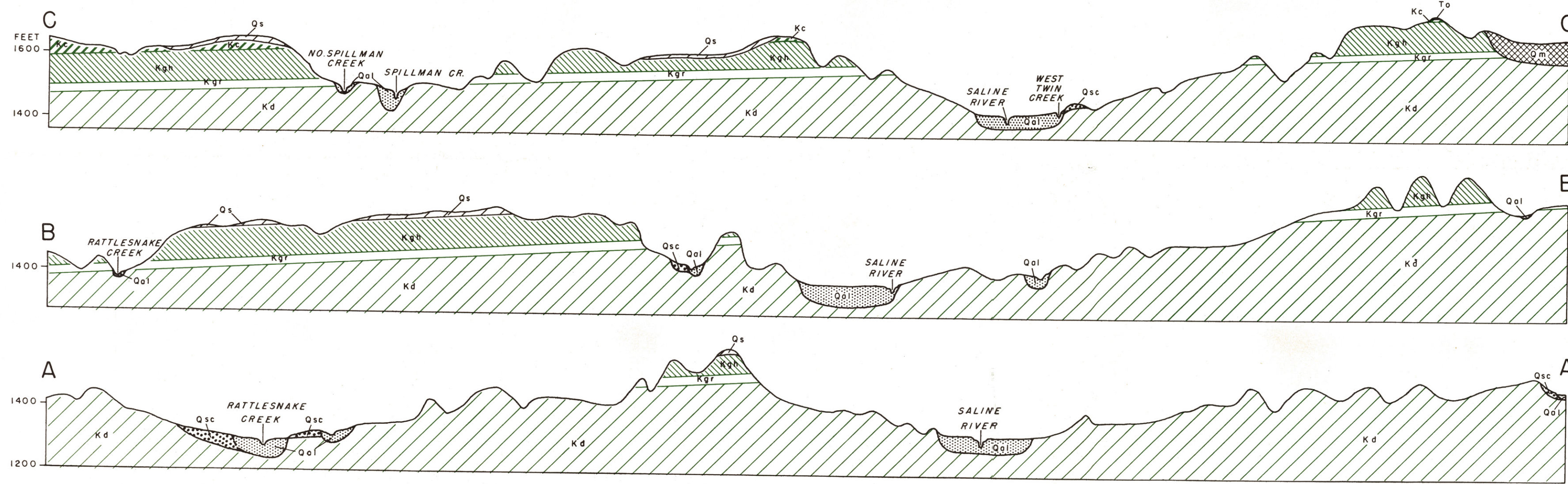
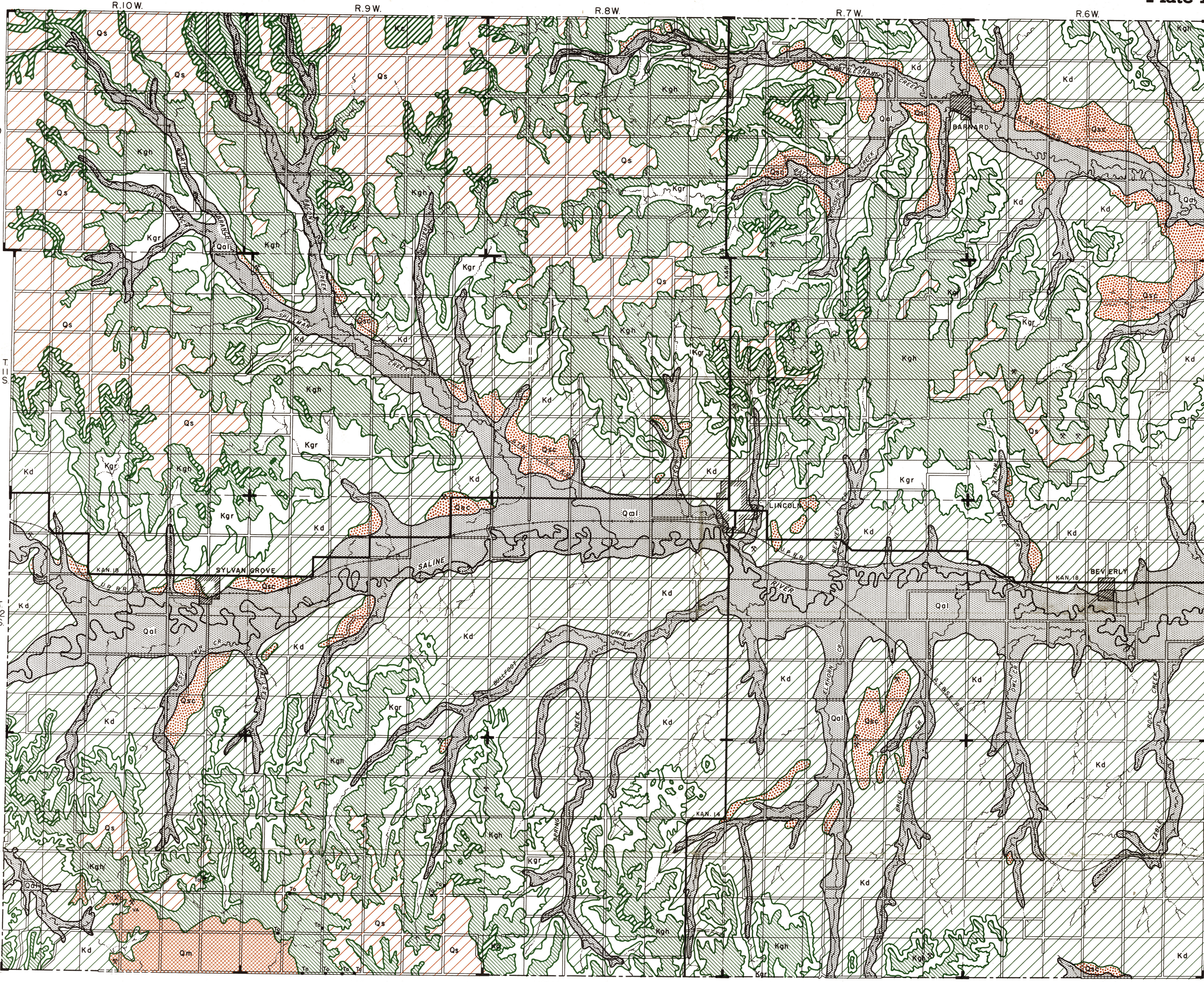
by Delmar W. Berry
1949

Bulletin 95
Plate 1

EXPLANATION

-  **Alluvium**
Sand, gravel, clay, and silt, comprising stream deposits in the major and tributary valleys. Yields water for domestic and stock supplies. Quantities are limited.
 -  **Sanborn formation**
Loess, sand, and, locally, colluvium at the base; tan to gray-buff. Yields little or no water to wells in this area.
 -  **Crete member of Sanborn formation**
Sand, gravel, clay, and silt, locally derived; uppermost stream deposits of the area. Generally lies above the water table. Yields water for domestic and stock uses in small areas.
 -  **Meade formation**
Gravel, sand, silt, clay, volcanic ash, and caliche; gray, tan, and buff. Yields meager supplies of water to wells in this area.
 -  **Ogallala formation**
"Algal limestone", pink, gray, and tan. Fresh-water limestone and caliche. Yields no water to wells in this area.
 -  **Carlile shale**
Fairport chalky shale member. Shale, chalky to black, fissile; contains some limestone interbedded. Yields no water to wells in this area.
 -  **Greenhorn limestone**
Shale and limestone interbedded. Shale is calcareous, tan to blue-gray; limestone is thin-bedded, fossiliferous, gray. Weathered limestone yields some potable water to shallow wells in the uplands.
 -  **Graneros shale**
Noncalcareous shale, blue-gray; locally contains clay, siltstone, and sandstone. Contains selinite and pyrite. Yields little or no water to wells in this area.
 -  **Dakota formation**
Varicolored clay, shale, siltstone, and fine- to coarse-grained sandstone occurring in alternating beds and lenses; contains thin beds of ironstone and lignite. Sandstones of the Dakota formation are the chief source of ground water in the upland areas of Lincoln County and supply water to many domestic and stock wells and to the city supply wells of Lincoln and Sylvan Grove. Yields range from a few gallons to a few hundred gallons a minute. Some wells yield water of good quality, but others yield water too highly mineralized for ordinary uses.
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-  **Federal or State Highway**
 -  **Graded road**
 -  **Ungraded road**
 -  **Section line (no road)**
 -  **Township line (no road)**
 -  **County line (no road)**
 -  **Railroad**
 -  **Perennial stream**
 -  **Intermittent stream**
 -  **Gravel pit or stone quarry**
 -  **Meade volcanic ash location**
 -  **Quarry in Meade volcanic ash**

QUATERNARY
 TERTIARY
 CRETACEOUS



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

Base compiled from maps prepared by the Soil Conservation Service

SCALE IN MILES

