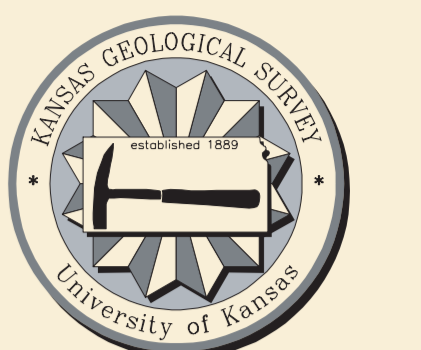


GEOLOGIC MAP OF SEDGWICK COUNTY, KANSAS

Revised 1991

KANSAS GEOLOGICAL SURVEY
THE UNIVERSITY OF KANSAS
MAP M-25

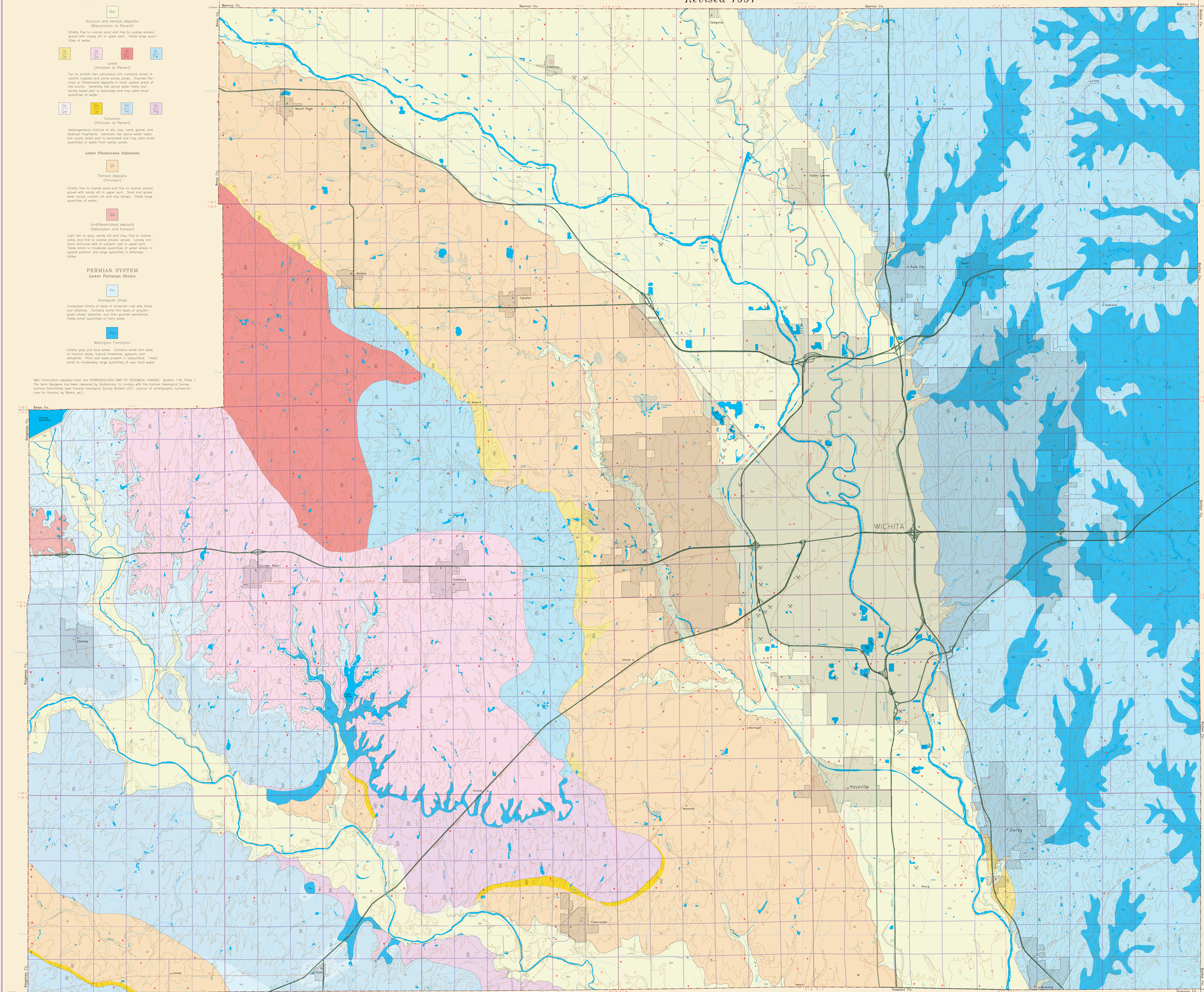


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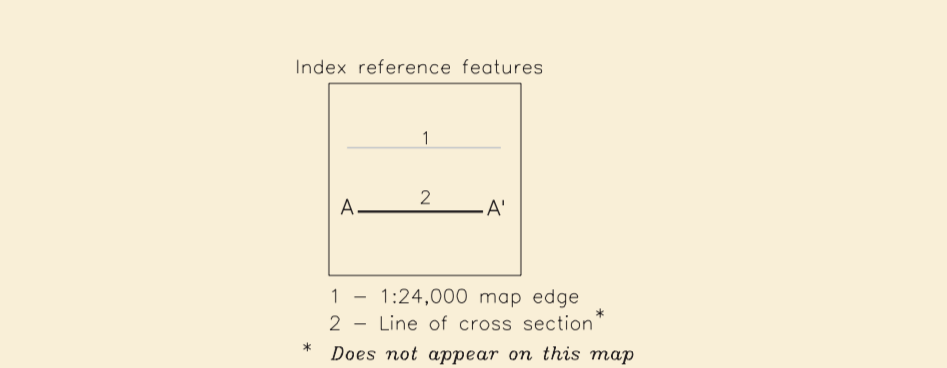
- QUATERNARY SYSTEM**
Pleistocene Series
Upper Pleistocene Subseries
- Qal**
Alluvium and terrace deposits (Mississippian to Recent)
Chiefly fine to coarse sand and fine to coarse silt, gravel with coarse silt in upper part. Yields large quantities of water.
 - Ql**
Qd
Qv
Qw
Qp
Qf
Qc
Qm
Qn
Qo
Qp
Qf
Qc
Qm
Qn
Qo
 - Loess**
(Illinoian to Recent)
Tan to pinkish-tan calcareous silt, contains zones of calcic nodules and some sandy zones. Overlies Illinoian or Pleistocene deposits in most upland areas of the county. Generally has above water table, but locally basal part is saturated and may yield small quantities of water.
 - Colluvium**
(Illinoian to Recent)
Heterogeneous mixture of silt, clay, sand, gravel, and boulders fragments. Generally lies above water table, but locally basal part is saturated and may yield small quantities of water from sandy cores.
 - Lower Pleistocene Subseries**
 - Ql**
Terrace deposits (Illinoian)
Chiefly fine to coarse sand and fine to coarse silt, gravel with coarse silt in upper part. Sand and gravel beds locally contain silt and clay lenses. Yields large quantities of water.
 - Qd**
Undifferentiated deposits (Nebraskan and Kansan)
Light tan to gray, sandy silt and clay, fine to coarse sand and fine to coarse silt and gravel. Locally contains horizontal bed of volcanic ash in upper part. Yields small to moderate quantities of water when in upland position and large quantities in Arkansas Valley.
- PERMIAN SYSTEM**
Lower Permian Series
- Pn**
Ninnesch Shale
Composed chiefly of beds of brownish-red silt shale and siltstone. Contains some thin beds of grayish-green shale, dolomite, and fine-grained sandstone. Yields small quantities of hard water.
 - Pw**
Wellington Formation
Chiefly gray and blue shale. Contains small thin beds of maroon shale, impure limestone, gypsum, and anhydrite. Thick silt beds present in subsurface. Yields small to moderately large quantities of very hard water.

Well information adapted from the HYDROGEOLOGIC MAP OF SEDGWICK, KANSAS, Bulletin 176, Plate 1. The same legend has been retained by Sedgwick County, Kansas Geological Survey, to comply with the Kansas Geological Survey, Leavenworth, Kansas (see Kansas Geological Survey Bulletin 231, Leavenworth stratigraphic nomenclature for Kansas, by Stearns, ed.).

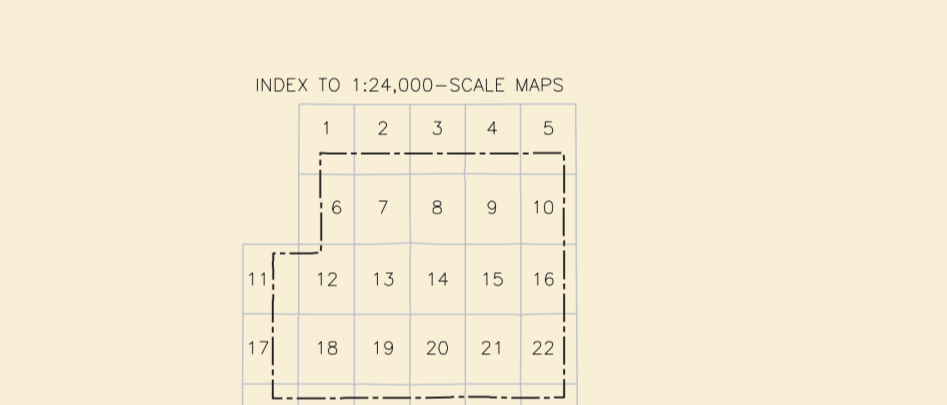
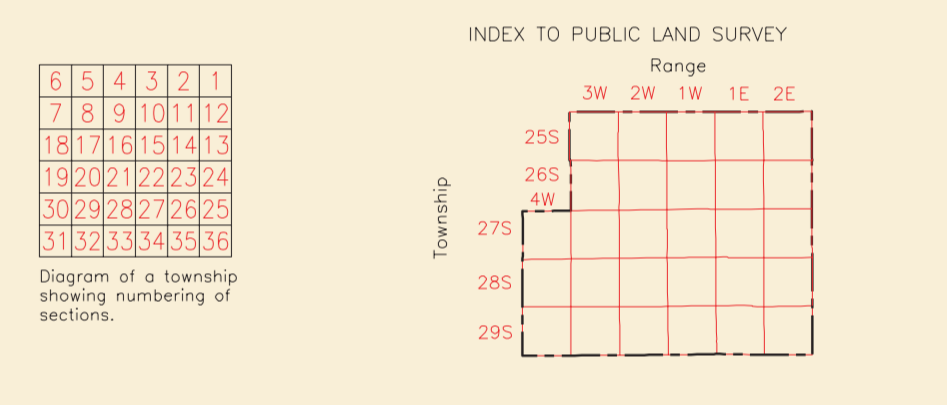


- Geologic unit boundaries**
- 1 - Observed geologic contact
 - 2 - Inferred general contact
 - 3 - Conjectured geologic contact
- Hydrology and topography**
- 1 - Intermittent stream
 - 2 - Perennial stream
 - 3 - Arroyo hydrology
 - 4 - Contour interval to nearest foot
 - 5 - Elevation contours (100-foot contour interval)
 - 6 - Elevation contours (5-foot contour interval)

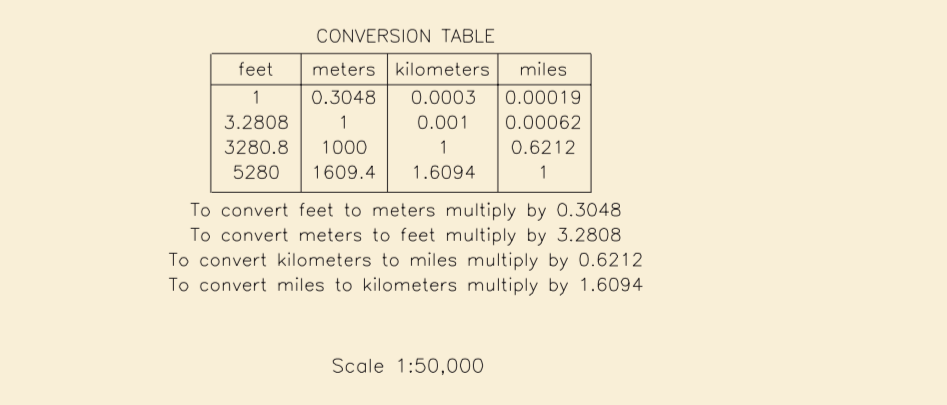
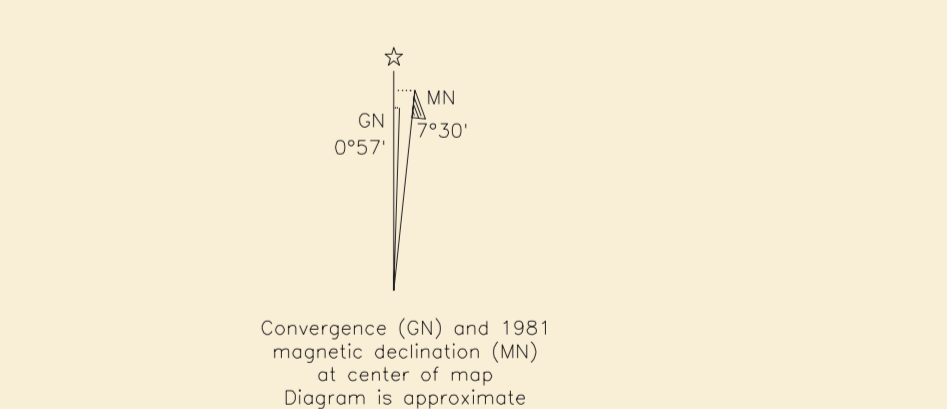
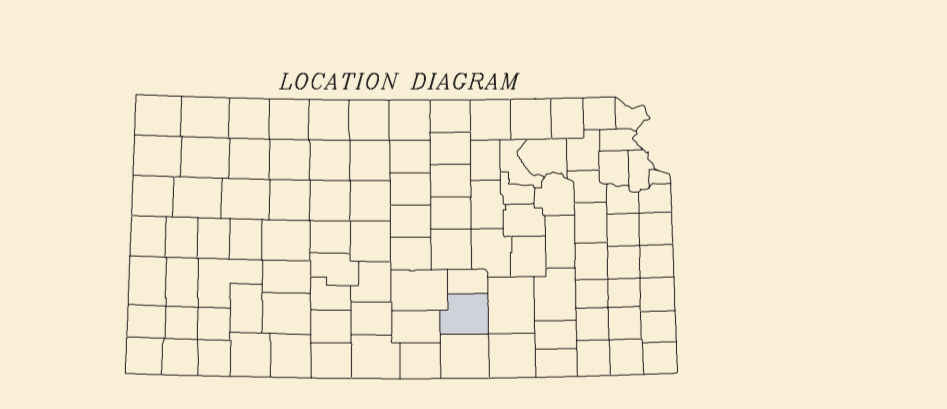
- Transportation**
- 1 - Interstate highway
 - 2 - Federal highway
 - 3 - State highway
 - 4 - Medium-duty secondary road
 - 5 - Light-duty secondary road
 - 6 - Unimproved secondary road
 - 7 - Railroad
- Boundaries and locations**
- 1 - State line
 - 2 - County line
 - 3 - Township/Range line
 - 4 - Section line
 - 5 - Locality
 - 6 - Population over 1000



- SYMBOL EXPLANATION**
- Municipal well
 - Industrial well
 - Irrigation well
 - Domestic or stock well
 - Observation well
 - Spring
 - Number of wells on this location
 - Drilled test hole
 - Augured test hole
 - Indicated dry hole
 - Gravel pit
 - Sinkhole
- Where test hole and well are at same location, test hole was omitted from map.



- REFERENCES**
1. Peterson-1926 (76 pp)
 2. Miller-1927 (76 pp)
 3. Seligson-1928 (76 pp)
 4. Seligson-1929 (76 pp)
 5. Seligson-1930 (76 pp)
 6. Seligson-1931 (76 pp)
 7. Seligson-1932 (76 pp)
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 24. Seligson-1949 (76 pp)
 25. Seligson-1950 (76 pp)
 26. Seligson-1951 (76 pp)
 27. Seligson-1952 (76 pp)
 28. Seligson-1953 (76 pp)
 29. Seligson-1954 (76 pp)
 30. Seligson-1955 (76 pp)



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Suggested reference to this map:
Lurie, C. B., and Miller, D. E., revised 1991, Geologic Map, Sedgwick County, Kansas, Kansas Geological Survey, Map M-25, scale 1:50,000.