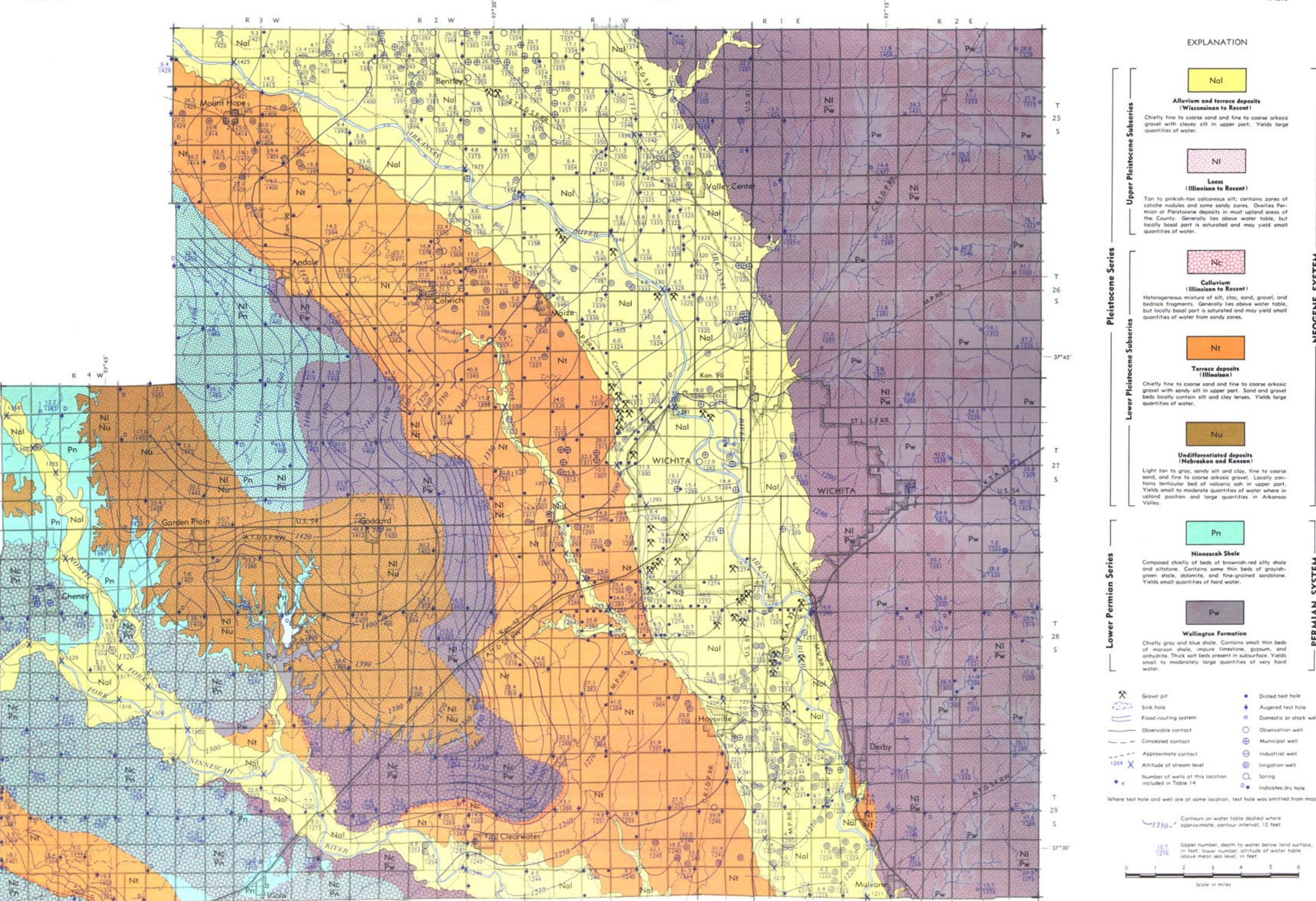


HYDROGEOLOGIC MAP OF SEDGWICK COUNTY, KANSAS



EXPLANATION

- | | | |
|-----------------------------|------------|---|
| Upper Pleistocene Subseries | Nal | Alluvium and terrace deposits (Wisconsinan to Recent)
Chiefly fine to coarse sand and fine to coarse arkosic gravel with clayey silt in upper part. Yields large quantities of water. |
| | Ni | Loess (Illinoian to Recent)
Tan to pinkish-tan calcareous silt; contains zones of caliche nodules and some sandy zones. Overlies Permian or Pleistocene deposits in most upland areas of the County. Generally lies above water table, but locally basal part is saturated and may yield small quantities of water. |
| Pleistocene Series | Nc | Colluvium (Illinoian to Recent)
Heterogeneous mixture of silt, clay, sand, gravel, and bedrock fragments. Generally lies above water table, but locally basal part is saturated and may yield small quantities of water from sandy zones. |
| | Nt | Terrace deposits (Illinoian)
Chiefly fine to coarse sand and fine to coarse arkosic gravel with sandy silt in upper part. Sand and gravel beds locally contain silt and clay lenses. Yields large quantities of water. |
| Lower Pleistocene Subseries | Nu | Undifferentiated deposits (Nebraskan and Kansan)
Light tan to gray, sandy silt and clay, fine to coarse sand, and fine to coarse arkosic gravel. Locally contains lenticular beds of volcanic ash in upper part. Yields small to moderate quantities of water where in upland position and large quantities in Arkansas Valley. |
| Lower Permian Series | Pn | Winneshok 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 salt beds present in subsurface. Yields small to moderately large quantities of very hard water. |

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|--|---|--|---|
| | Gravel pit | | Drilled test hole |
| | Sink hole | | Augered test hole |
| | Flood-routing system | | Domestic or stock well |
| | Observable contact | | Observation well |
| | Concealed contact | | Municipal well |
| | Approximate contact | | Industrial well |
| | Altitude of stream level | | Irrigation well |
| | Number of wells at this location included in Table 14 | | Spring |
| | Indicates dry hole | | Where test hole and well are at same location, test hole was omitted from map |
- Contours on water table dashed where approximate; contour interval, 10 feet
- Upper number, depth to water below land surface, in feet; lower number, altitude of water table above mean sea level, in feet
- Scale in miles

NEOGENE SYSTEM

PERMIAN SYSTEM