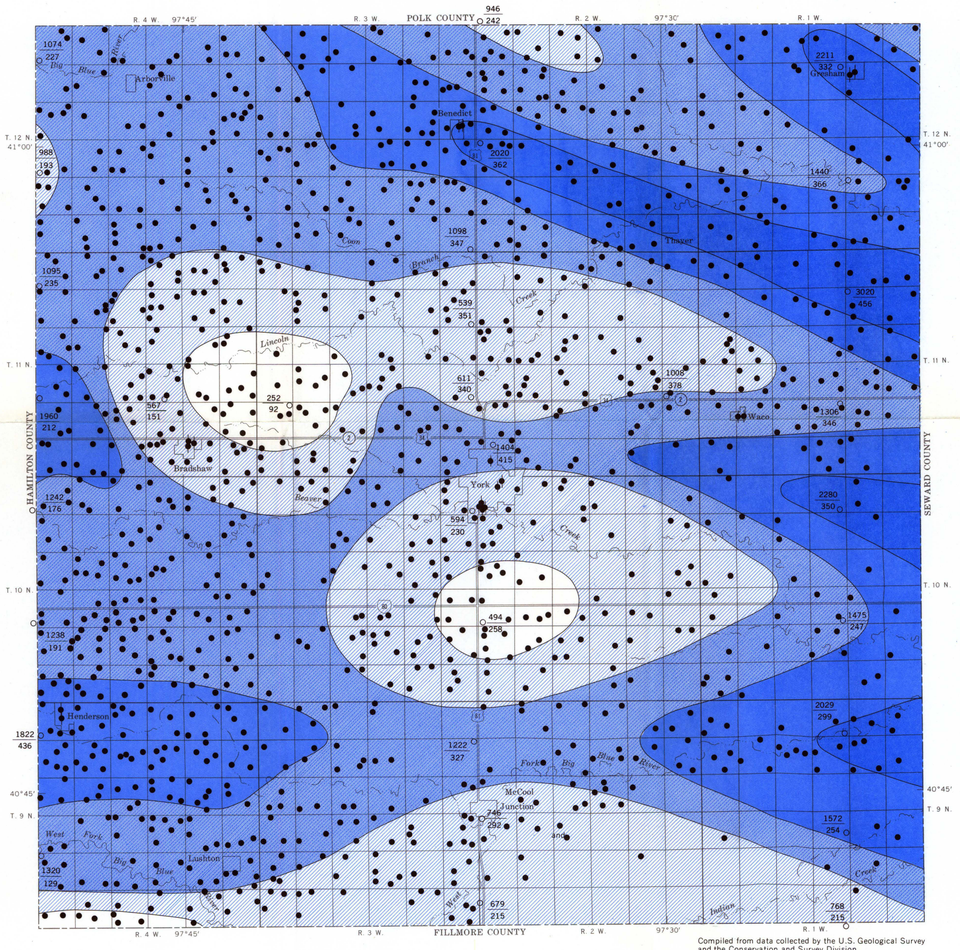
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
STATE OF NEBRASKA
CONSERVATION AND SURVEY DIVISION
UNIVERSITY OF NEBRASKA

WATER-SUPPLY PAPER 1839-F
PLATE 1



EXPLANATION

Areas of potential yield, in gallons per minute

- Less than 500
- 500–1000
- 1000–1500
- 1500–2000
- More than 2000

Irrigation well

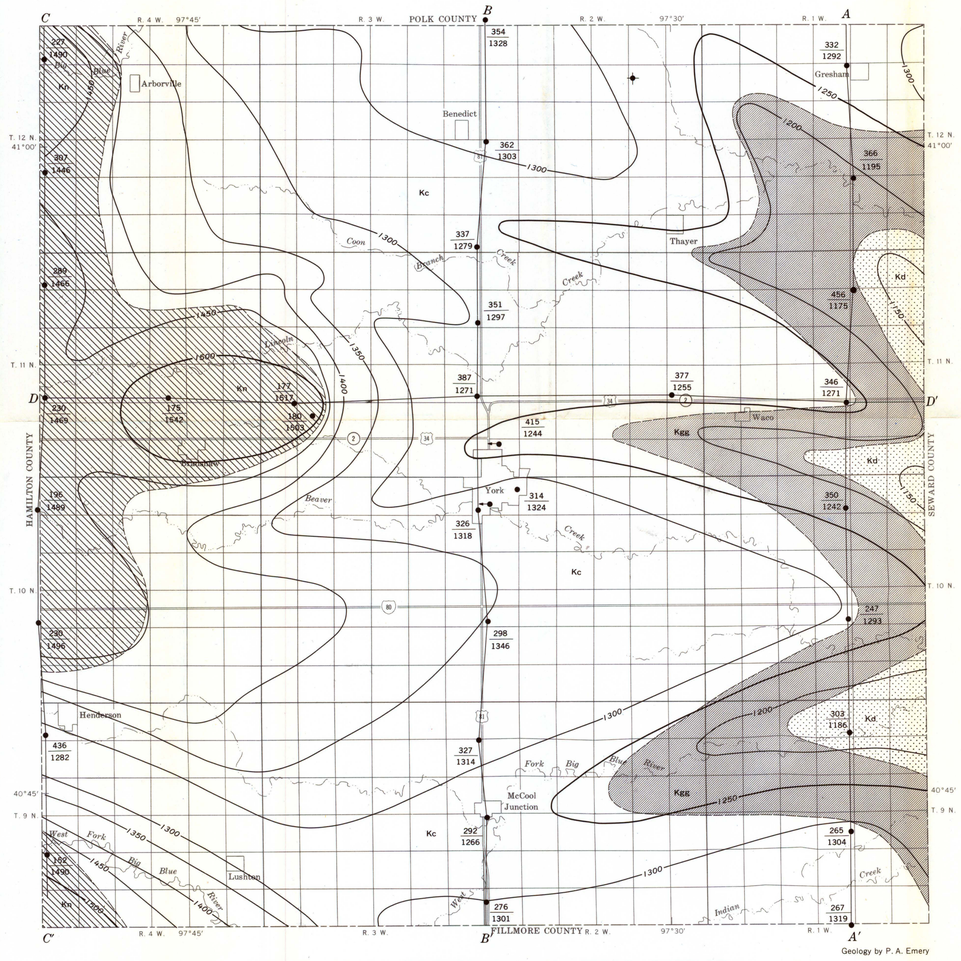
Municipal well

○ 594 / 230 — Test hole

Upper number is estimated coefficient of transmissibility, in hundreds of gallons per day per foot. It is approximately the potential yield of the aquifer to wells, in gallons per minute. Lower number is depth, in feet, to the base of deepest water-yielding material of Quaternary age

Compiled from data collected by the U.S. Geological Survey and the Conservation and Survey Division, University of Nebraska

POTENTIAL YIELD OF QUATERNARY ROCKS AND DISTRIBUTION OF LARGE-CAPACITY WELLS



EXPLANATION

- Kn — Niobrara Formation
- Kc — Carlile Shale
- Kgg — Greenhorn Limestone and Graneros Shale
- Kd — Dakota Sandstone

Upper Cretaceous; Lower Cretaceous; CRETACEOUS

Approximate contact

1250 / 1200 — Bedrock contours
Show altitude of bedrock surface. Contour interval 50 feet; datum is mean sea level

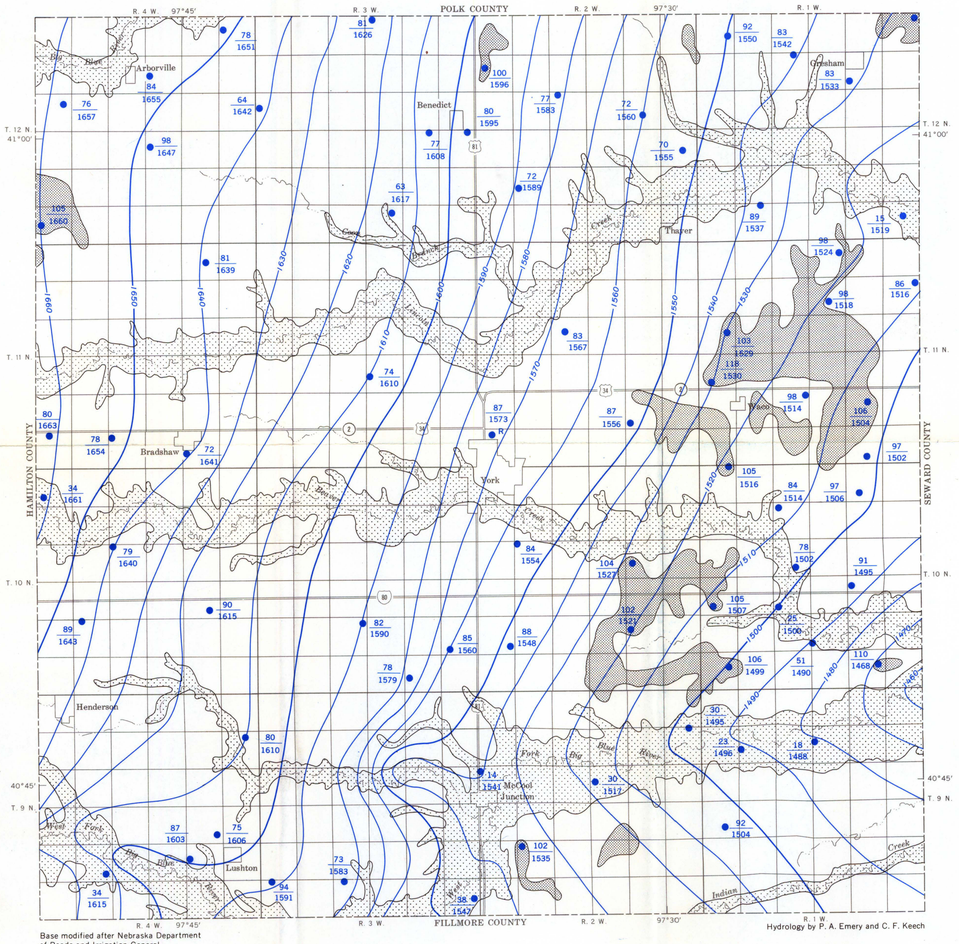
415 / 1244 — Test hole
Upper number is depth to bedrock, in feet; lower number is altitude of bedrock surface, in feet

Oil test

A — A′ — Line of geologic section
Sections shown on plate 2

Geology by P. A. Emery

GEOLOGY AND CONFIGURATION OF THE BEDROCK SURFACE



EXPLANATION

Depth to water, in feet below land surface

- Less than 50
- 50–100
- More than 100

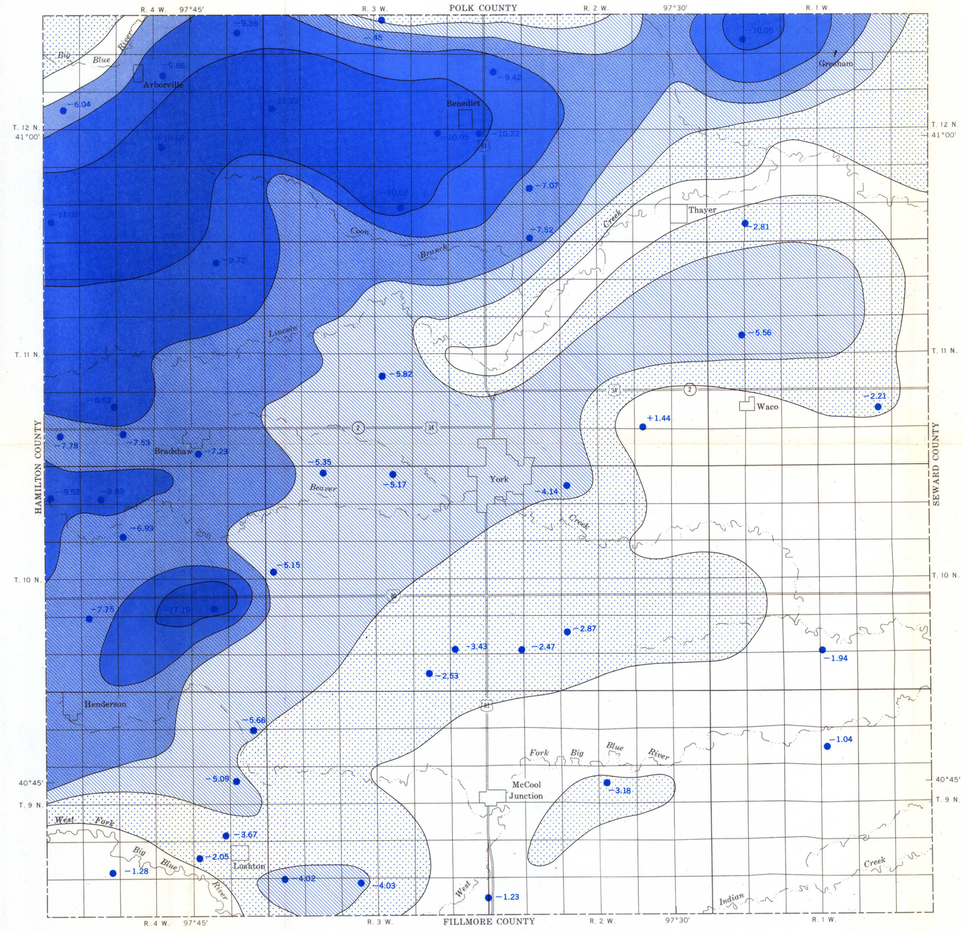
1600 / 1590 — Water-table contours
Show altitude of water table. Contour interval 10 feet; datum is mean sea level

R 87 / 1573 — Well
Upper number is depth to water, in feet below land surface; lower number is altitude of water level, in feet above mean sea level. R, denotes recording gage

Base modified after Nebraska Department of Roads and Irrigation General Highway Map of York County

Hydrology by P. A. Emery and C. F. Keech

DEPTH TO WATER AND CONFIGURATION OF WATER TABLE, SPRING 1964



EXPLANATION

Water-level decline, in feet

- Less than 2
- 2–4
- 4–6
- 6–8
- 8–10
- More than 10

−7.52 — Observation well
Number is change in ground-water level, in feet

NET CHANGE IN GROUND-WATER LEVELS, SPRING 1953 TO SPRING 1964

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1967—W66393

HYDROGEOLOGIC MAPS OF YORK COUNTY, NEBRASKA

APPROXIMATE MEAN DECLINATION, 1967

SCALE 1:125 000

2 0 2 4 6 8 10 MILES

2 0 2 4 6 8 10 KILOMETERS