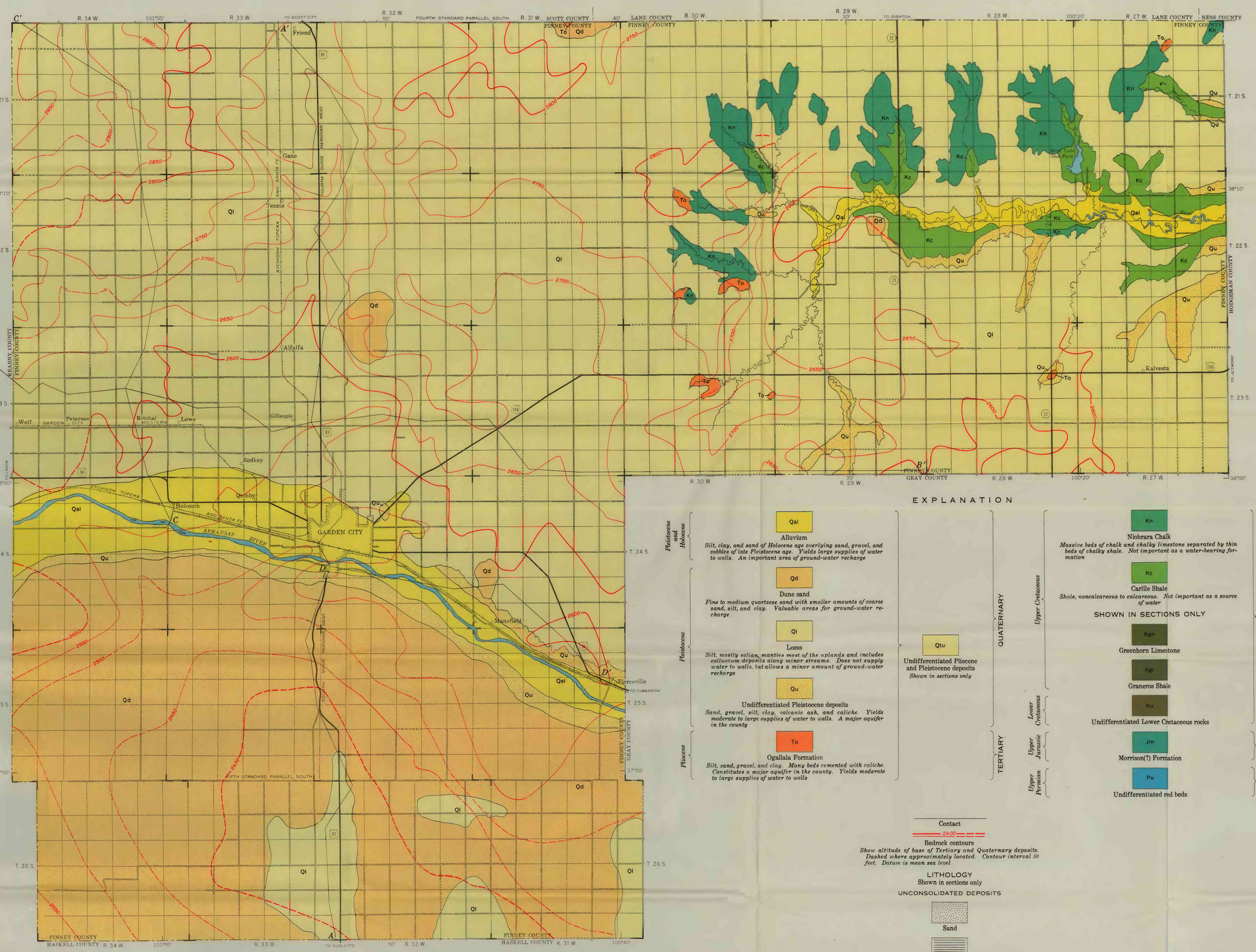
PREPARED IN COOPERATION WITH THE
STATE GEOLOGICAL SURVEY OF KANSAS
THE DIVISION OF WATER RESOURCES OF THE STATE BOARD OF AGRICULTURE
AND THE ENVIRONMENTAL HEALTH SERVICES OF THE KANSAS STATE DEPARTMENT OF HEALTH



Base from Kansas State Highway Commission

EXPLANATION

QUATERNARY

Holocene

Qal — Alluvium
Silt, clay, and sand of Holocene age overlying sand, gravel, and cobbles of late Pleistocene age. Yields large supplies of water to wells. An important area of ground-water recharge

Pleistocene

Qd — Dune sand
Fine to medium quartzose sand with smaller amounts of coarse sand, silt, and clay. Valuable areas for ground-water recharge

Ql — Loess
Silt, mostly eolian, mantles most of the uplands and includes colluvium deposits along minor streams. Does not supply water to wells, but allows a minor amount of ground-water recharge

Qu — Undifferentiated Pleistocene deposits
Sand, gravel, silt, clay, volcanic ash, and caliche. Yields moderate to large supplies of water to wells. A major aquifer in the county

Qtu — Undifferentiated Pliocene and Pleistocene deposits
Shown in sections only

TERTIARY

Pliocene

To — Ogallala Formation
Silt, sand, gravel, and clay. Many beds cemented with caliche. Constitutes a major aquifer in the county. Yields moderate to large supplies of water to wells

CRETACEOUS

Upper Cretaceous

Kn — Niobrara Chalk
Massive beds of chalk and chalky limestone separated by thin beds of chalky shale. Not important as a water-bearing formation

Kc — Carlile Shale
Shale, noncalcareous to calcareous. Not important as a source of water

SHOWN IN SECTIONS ONLY

Kgn — Greenhorn Limestone

Kgr — Graneros Shale

Lower Cretaceous

Ku — Undifferentiated Lower Cretaceous rocks

PERMIAN JURASSIC

Upper Jurassic

Jm — Morrison(?) Formation

Upper Permian

Pu — Undifferentiated red beds

Contact

Bedrock contours
Show altitude of base of Tertiary and Quaternary deposits. Dashed where approximately located. Contour interval 50 feet. Datum is mean sea level

LITHOLOGY
Shown in sections only

UNCONSOLIDATED DEPOSITS

Sand

Shale

Silt, clay, and caliche

CONSOLIDATED DEPOSITS

Sandstone

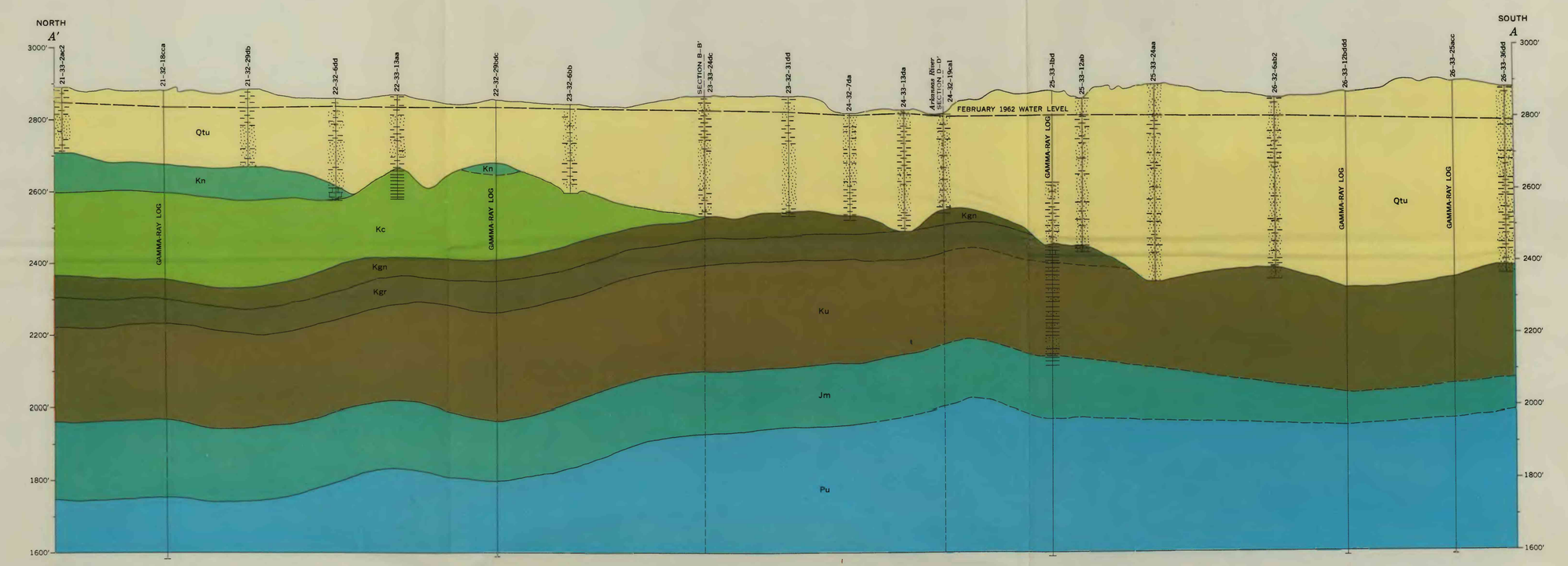
Limestone

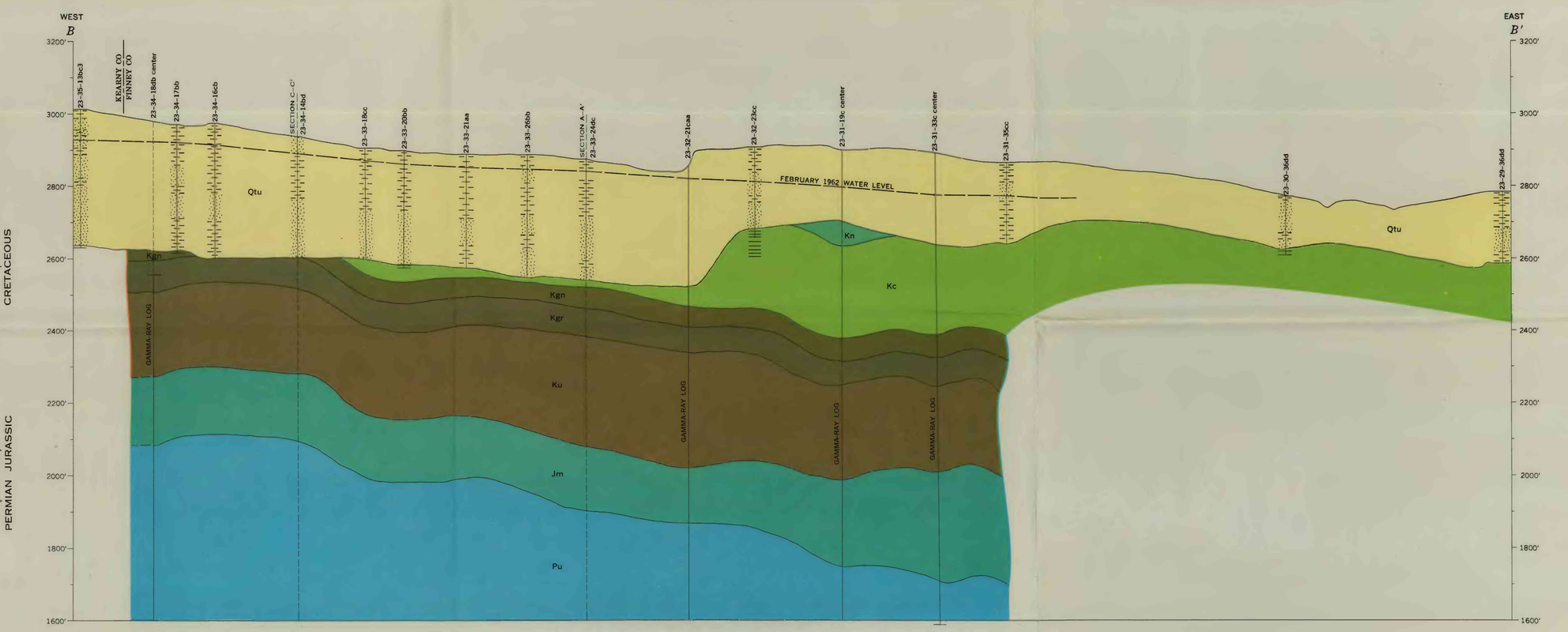
GEOLOGIC MAP AND SECTIONS OF FINNEY COUNTY, KANSAS

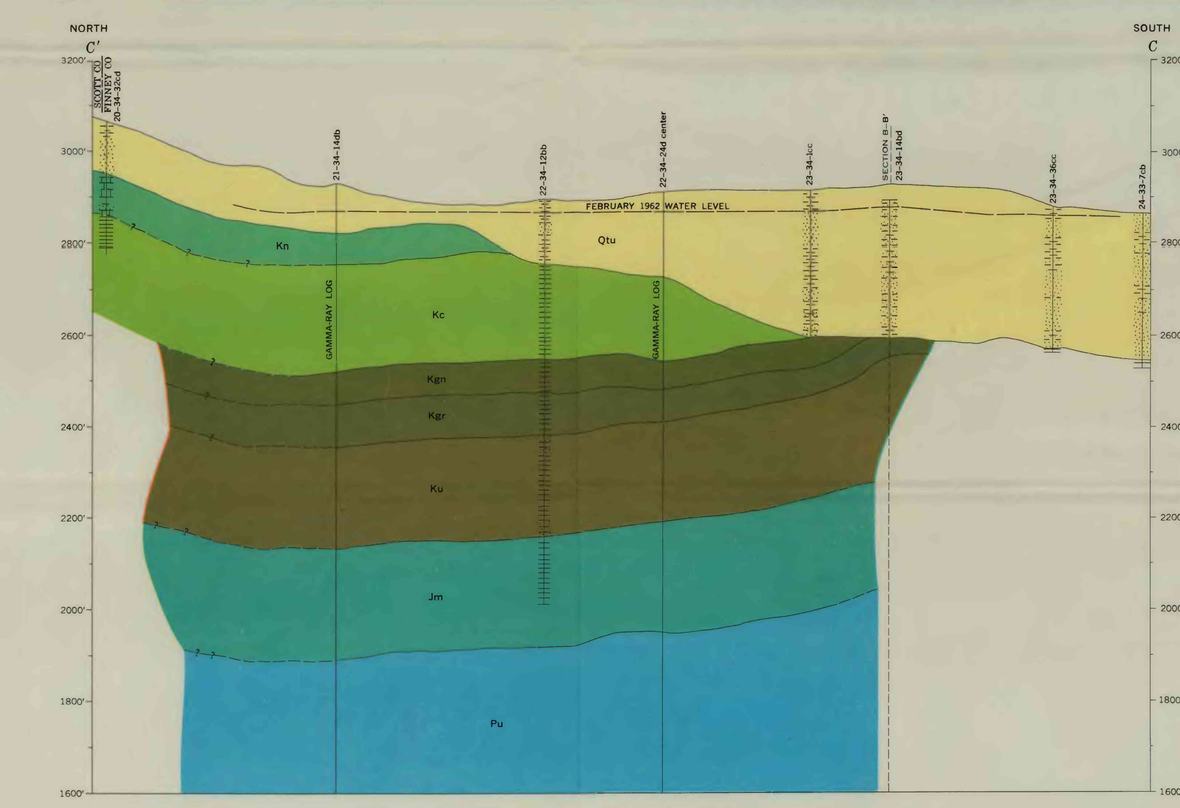
SCALE 1:125 000

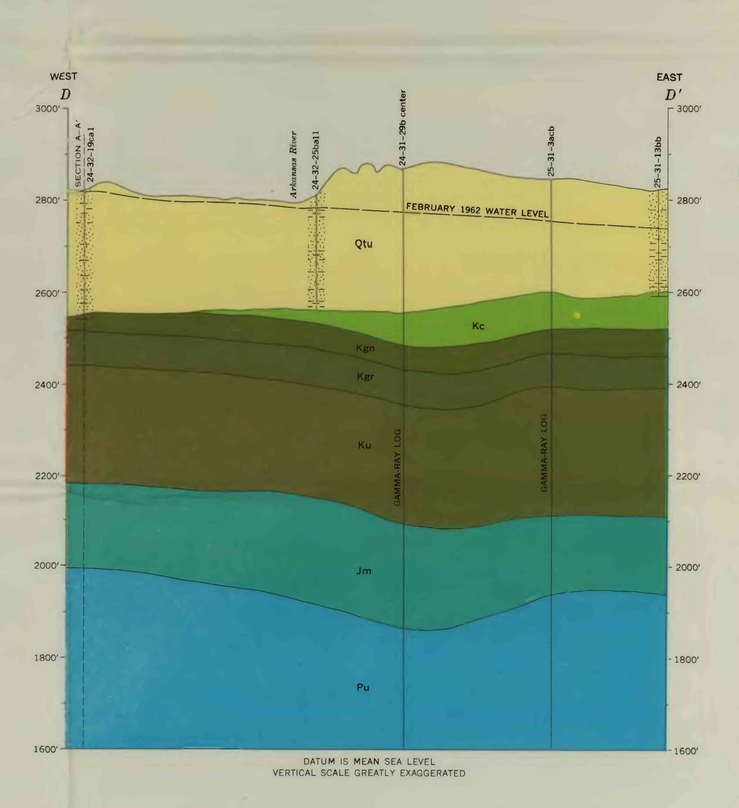
2 0 2 4 6 8 10 MILES

2 0 2 4 6 8 10 KILOMETERS









DATUM IS MEAN SEA LEVEL
VERTICAL SCALE GREATLY EXAGGERATED

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1970—W69083