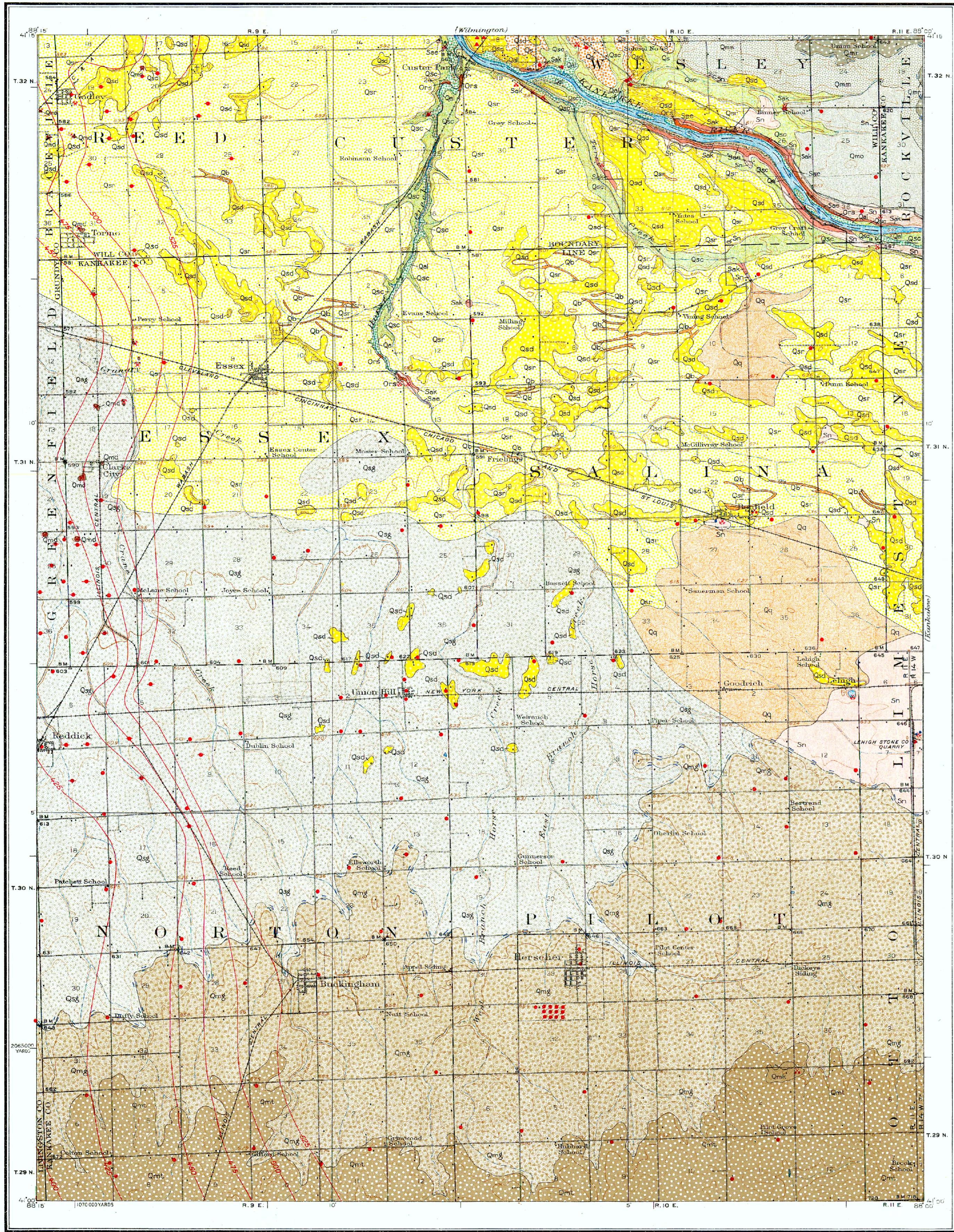


STATE OF ILLINOIS
DEPARTMENT OF REGISTRATION AND EDUCATION
A. M. SHELTON, DIRECTOR
GEOLOGICAL SURVEY DIVISION
M. M. LEIGHTON, CHIEF
URBANA, ILLINOIS

HERSCHER QUADRANGLE
BULLETIN No. 56, PLATE I



Topographic base map surveyed in cooperation with U. S. Geological Survey

Scale 1:62,500
1 Kilometer
Contour interval 20 feet.
Datum is mean sea level.

Geology by L. F. Athy
Geologically surveyed in 1924

ECONOMIC, STRUCTURAL AND SURFICIAL GEOLOGY OF THE HERSCHER QUADRANGLE

(Topographic maps without geologic data may be obtained by addressing the Chief, State Geological Survey, Urbana, Illinois.)

LEGEND

- Qmd Mine dumps
- Qai Alluvium
- Qsd Torrental bars modified by wind action, and sand dunes
- Qsc Unassorted sand and gravel in abandoned channels and high-level terraces
- Qsr Deep sand over rubble
- Qq Coarse angular rubble over bed rock
- Qs Torrental sand and rubble covering older outwash gravels of economic importance
- Qb Sand and rubble bars
- Qsg Thin sand, pebbly silt and fine gravel over Marseilles ground moraine
- Qmr Qmm Minooka-Rockdale terminal moraine modified in part by Kankakee Torrent
- Qmo Coarse gravel over bed rock. Minooka-Rockdale outwash
- Qmg Marseilles ground moraine
- Qmk Kame associated with the Marseilles moraine
- Qmt Marseilles terminal moraine
- UNCONFORMITY
- Pottsville (?) formation (sandstone, sandy shale and carbonaceous material in sinks and fissures in older limestone)
- UNCONFORMITY
- Niagaran dolomite (dolomitic limestone, gray to brown, pyritic, thin to massive bedded)
- UNCONFORMITY?
- Sak Kankakee limestone (dolomitic limestone, thin to massive bedded gray to brown, vesicular, contains fossiliferous beds)
- Alexandrian
- Sae Edgewood limestone (brown dolomite, ferruginous limestone; fossiliferous shaly limestone; blue limestone; also ferruginous, oolitic, dolomite shale)
- UNCONFORMITY
- Ors Richmond formation (olive green, plastic shale, occasional thin limestone beds, non-fossiliferous)
- Greatest extent of the Kankakee torrential waters
- ECONOMIC AND STRUCTURE DATA
- 450 425 Structure contours on the top of No. 2 coal
- * Abandoned coal mine
- X Stone quarry
- △ Sand and gravel pit
- ▲ Foundry sand pit
- ◆ Coal test
- ◆ Abandoned oil and gas well
- Artesian well