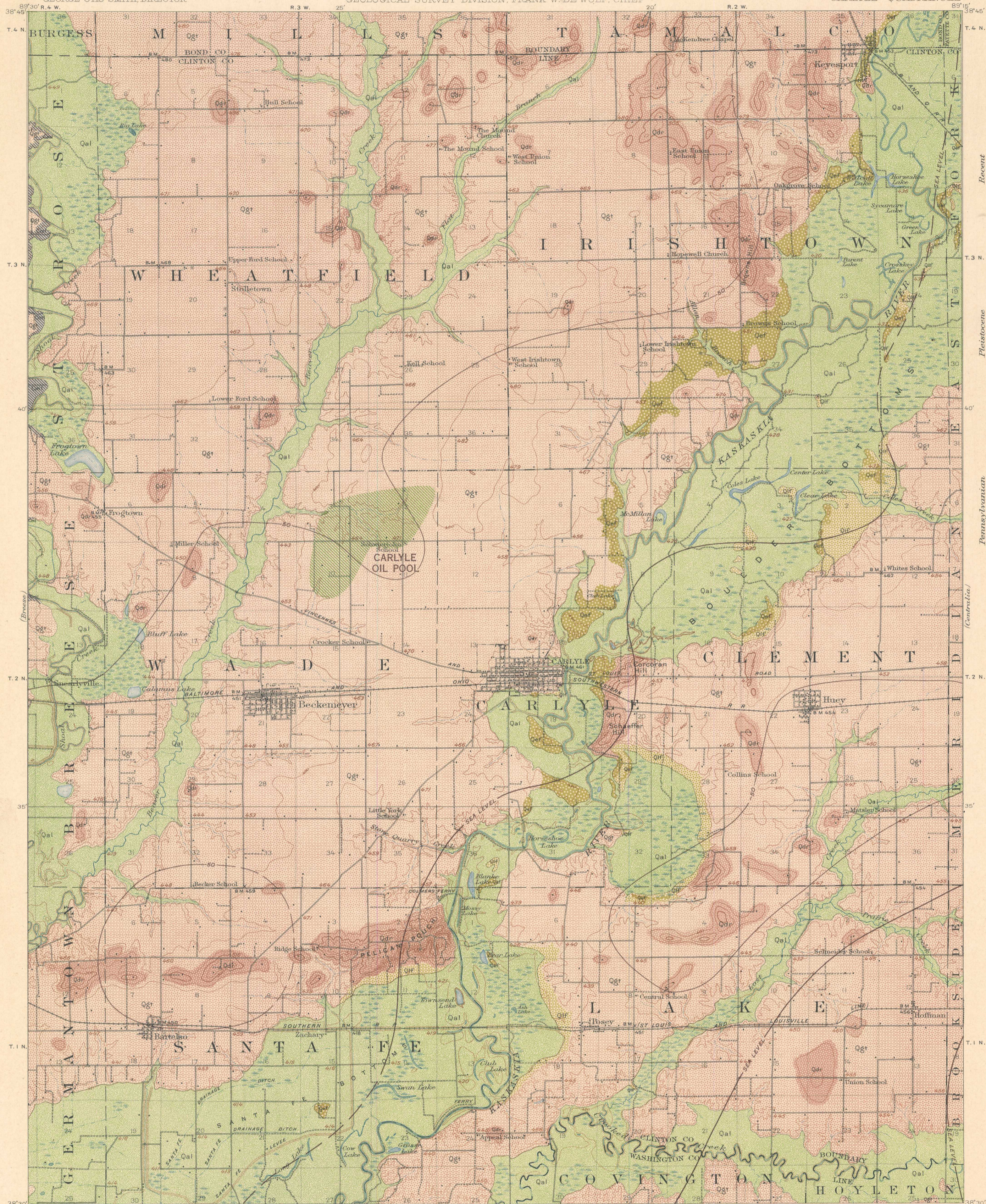


AREAL GEOLOGY

DEPARTMENT OF THE INTERIOR
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ILLINOIS
CARLYLE QUADRANGLE



EXPLANATION

SEDIMENTARY ROCKS

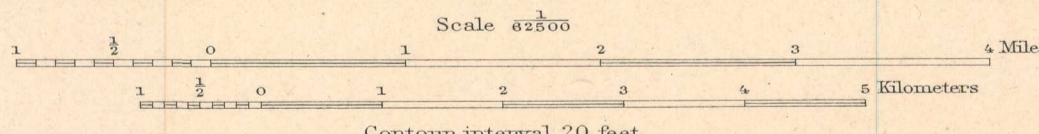
(Areas of subaqueous deposits are shown by patterns of parallel lines; subaerial deposits by patterns of dots and circles)

- | | | |
|--------|---|------------|
| Recent | Qal | QUATERNARY |
| Recent | Alluvium
<i>(in flood plains of present streams mostly silt and sand, including marsh deposits on broad or valley bottoms)</i> | |
| Recent | Qlf | |
| Recent | Later valley filling
<i>(valley filling mainly of clay and silts, altitude of terrace surface 420 to 430 feet)</i> | |
| Recent | Qef | |
| Recent | Earlier valley filling
<i>(valley filling mainly of clay and silts, altitude of terrace surface 440 to 450 feet)</i> | |
| Recent | Qgt | |
| Recent | Glacial till
<i>(mantled by loess of probable Peorian age, underlain by McLeansboro formation)</i> | |
| Recent | Qdr | |
| Recent | Drift ridges, possibly moraine
<i>(highly clayey sand and gravel in places mantled by loess of probable Peorian age)</i> | |
| Recent | UNCONFORMITY | |
| Recent | m1 | |
| Recent | McLeansboro formation
<i>(soft shale and sandstone with some limestone and thin beds of coal, underlain by the white area that is covered in most places by glacial drift)</i> | |

ECONOMIC AND STRUCTURE DATA

- | | |
|--|--|
| 50
SEA LEVEL | |
| Structure contours on the basis of Herrin (No. 6) coal
<i>(doubtful position of coal indicated by dashed lines; contour interval, 50 feet; datum, mean sea level)</i> | |
| Oil pool | |
| * Coal mines | |

R.B. Marshall, Chief Geographer.
W.H. Herron, Geographer in charge.
Topography by A.T. Fowler and E.W. McCrary.
Control by Coast and Geodetic Survey, J.R. Ellis, and W.A. Gelbach.
Surveyed in 1908.



Contour interval 20 feet.
Datum is mean sea level.
Edition of Sept. 1922.

Geology by E.W. Shaw.
Surveyed in 1911.
Structure by E.W. Shaw and Stuart St. Clair.
SURVEYED IN COOPERATION WITH THE STATE OF ILLINOIS.