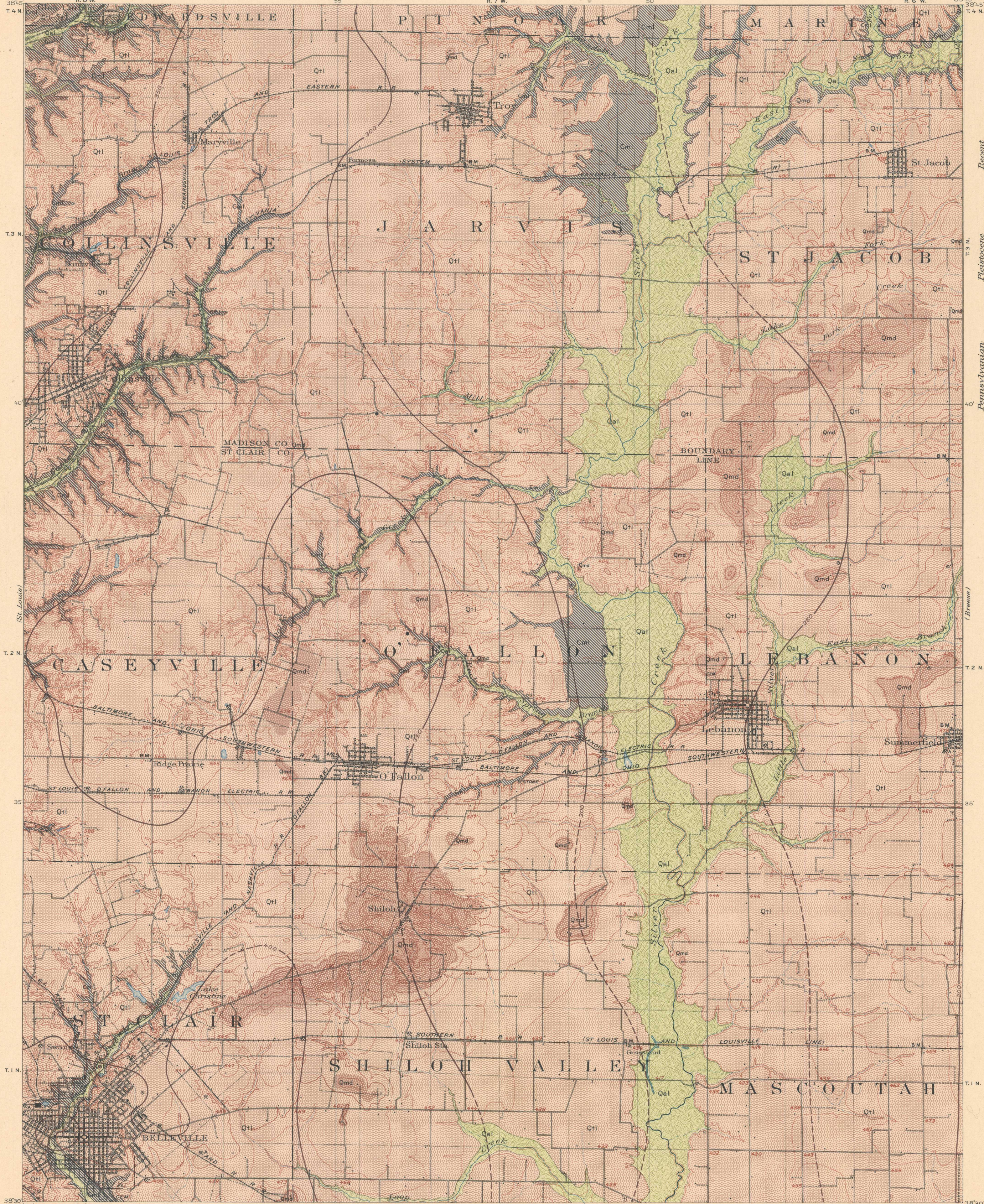


AREAL GEOLOGY

U.S. GEOLOGICAL SURVEY
GEORGE OTIS SMITH, DIRECTOR


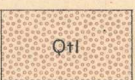

STATE OF ILLINOIS
GOVERNOR C. S. DENEEN, T. C. CHAMBERLIN, E. J. JAMES, COMMISSIONERS
FRANK W. DE WOLF, DIRECTOR, STATE GEOLOGICAL SURVEY

ILLINOIS
BELLEVILLE QUADRANGLE



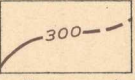
LEGEND







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

- | | | |
|---------------------------------------|--|------------|
| Recent | 
Alluvium
<i>(In flood plains of present streams, upper part generally fine silt, lower part sandy or gravelly)</i> | QUATERNARY |
| Pleistocene
<i>Illinoian stage</i> | 
Glacial till
<i>(generally overlain by loess, generally overlain by loess to gray loess, near the larger streams the material is partially sorted by water)</i> | |
| | 
Morainal drift
<i>(Hills of gravelly and sandy clay with some layers of clean sand and gravel, overlain with loess)</i> | |

- | | | |
|---------------|---|---------------|
| Pennsylvanian | 
McLeansboro Formation
<i>(generally with shale and sandstone with some limestone and thin beds of coal; underlies all Quaternary deposits in the quadrangle)</i> | CARBONIFEROUS |
|---------------|---|---------------|

ECONOMIC AND STRUCTURE DATA


Structure contours
on the base of Herrin (No. 6) coal
(dashed position of coal indicated by dashed lines; contour interval, 50 feet; datum, mean sea level)

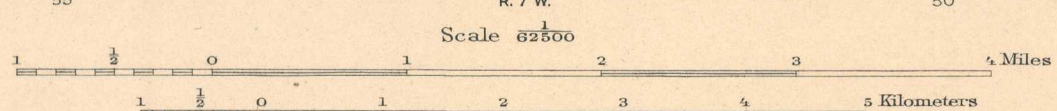
-  Coal mines
-  Abandoned coal mines
-  Coal test borings
-  Deep wells
-  Clay pits
-  Stone Quarries

Note: The most valuable coal, Herrin (No. 6) lies at the top of the Carboniferous formation, lies 50 to 200 feet below the surface; other coals occur in the Carboniferous and McLeansboro formations, shale for brick and tile, and limestone for cement materials and building stone occur in the McLeansboro formation; loess and glacial till yield clay for brick and tile, alluvium and morainal drift locally carry sand and gravel. The Herrin coal is known in the region of the Belleville and Bross quadrangles as the Belleville bed.

H. M. Wilson, Geographer,
Chas. E. Cooke, in charge of section,
Topography by W. J. Lloyd and L. Scott Smith,
Control by J. R. Ellis,
Surveyed in 1905.

SURVEYED IN COOPERATION WITH THE STATE OF ILLINOIS.

APPROXIMATE MEAN
MAGNETIC NORTH



Contour interval 20 feet.
Datum is mean sea level.
Edition of May 1913.

DIAGRAM OF TOWNSHIP

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30

Geology by J. A. Udden,
assisted by L. J. Broman,
Surveyed in 1907.

SURVEYED BY THE STATE OF ILLINOIS.