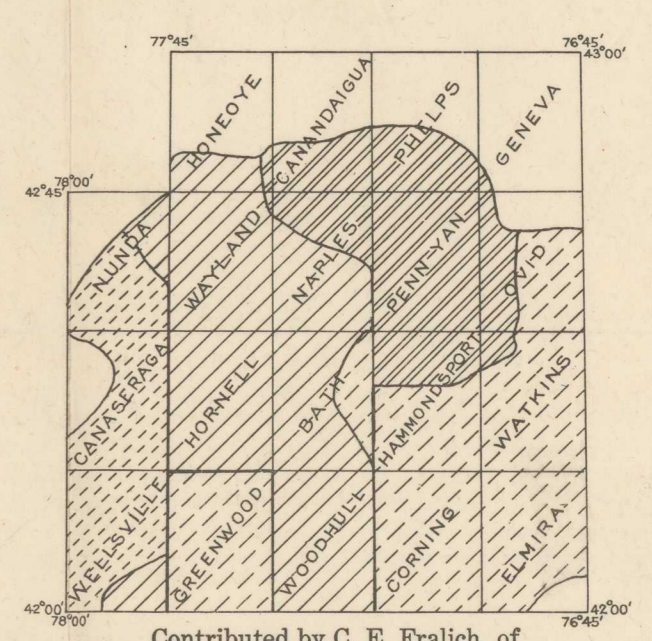




EXPLANATION

- 67 \pm 0.18
Gas well
 - 66 \pm 5.93
Show of gas
 - 38 \pm 1.49
Gas well flooded out by salt water
 - 15 \pm 5.27
Salt-water well
 - 19 \pm 2.26
Dry hole
 - Well being drilled
- (Small circles represent outcrops where altitudes were measured. Outcrop of key horizons represented by broken lines where inferred and by dotted lines where evidence is doubtful. Letter symbols, DT, SB, etc., denote key horizons whose stratigraphic positions are shown in the columnar sections on plate 1.)
- Structure contours
Contour interval 25 feet
(Datum is mean sea level)
- Fault
(U, upthrow; D, downthrow)
- Strike and dip
- General direction of dip
- Horizontal bed
- Axis of anticline
- Axis of syncline

(Figures at wells show altitude above (+) or below (-) mean sea level; upper figure, top of Tully limestone; lower figure, top of Onondaga sandstone. Serial numbers refer to well records in tables 1 to 6 on text. The records of the wells in gas fields are given in table 2 in the text, and their key numbers, corresponding to those in the tables, are shown on large-scale maps of the gas fields in figures 5 to 7.)



Contributed by C. E. Fralich, of
Torrey, Fralich & Simmons
Bradford, Pa.

W. H. Bradley J. F. Pepper

H. N. Eaton

Key map showing the quadrangles whose topographic maps were used in compilation, the part of the area covered by the geologic map contributed by C. E. Fralich, and the parts for which geologic mapping was done by members of the Geological Survey.

GEOLOGIC MAP OF STEUBEN, YATES, AND PARTS OF ADJACENT COUNTIES, NEW YORK
 SHOWING AREAL DISTRIBUTION OF KEY HORIZONS AND GEOLOGIC STRUCTURE CONTOURS DRAWN ON THE
 BASE OF THE RHINESTREET SHALE IN THE NORTHEASTERN PART AND ON THE BASE OF
 THE DUNKIRK SANDSTONE IN THE SOUTHWESTERN PART OF THE AREA

Base compiled from topographic maps of the Geological Survey which were surveyed in cooperation with the State of New York

Geology by W. H. Bradley, J. F. Pepper, G. H. Chadwick, H. N. Eaton, and H. R. Blank, assisted by N. S. Wagner, A. E. Wood, J. W. Sadler, and M. C. Baker. Surveyed in 1934, 1935, and 1936. The mapping in the northeastern part of the area is taken from a structure-contour map of about 650 square miles contributed by C. E. Fralich, of Bradford, Pa. (See key map in upper right corner)

Scale 1:25,000