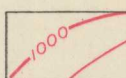
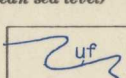
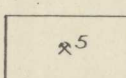
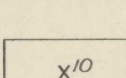
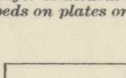
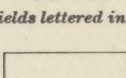
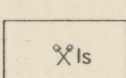




EXPLANATION

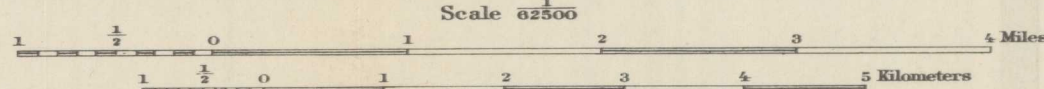
-  Structure contours
(Drawn on top of Vanport limestone member; contour interval 50 feet, datum mean sea level)
-  Outcrop of Upper Freeport coal horizon
-  Coal mine
(Figures refer to measured sections of coal beds on plates or in text)
-  Country coal bank
(Figures refer to measured sections of coal beds on plates or in text)
-  Oil well
(Oil fields lettered in green)
-  Gas well
-  Limestone quarry

MAP SHOWING STRUCTURE AND ECONOMIC GEOLOGY OF
ZELIENOPLE QUADRANGLE, PENNSYLVANIA

R. B. Marshall, Chief Geographer.
Frank Sutton, Geographer in charge.
Topography by R. D. Cummin and R. H. Reineck.
Control by C. B. Kendall and C. B. Burns.
Surveyed in 1906-1908.

Geology by G. B. Richardson, assisted by
T. C. Brown and R. Van A. Mills
Surveyed in 1916, 1928, and 1931

SURVEYED IN COOPERATION WITH THE STATE OF PENNSYLVANIA.



Contour interval 20 feet.

Datum is mean sea level.

1936