

STRUCTURE AND ECONOMIC GEOLOGY

U.S. GEOLOGICAL SURVEY
GEORGE OTIS SMITH, DIRECTOR

STATE OF PENNSYLVANIA
GEORGE W. MCNEES, RICHARD R. HICE, ANDREW S. MCCREATH
COMMISSIONERS
(Pittsburgh)

PENNSYLVANIA
BARNESBORO QUADRANGLE

LEGEND

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

Recent series

Qal
Alluvium
(in flood plains of present streams)

Ccm
Conemaugh formation
(shale, thin limestone, some red, locally thin, and coarse thick-bedded sandstone, containing the Monaca, Conemaugh, and Buffalo, Cb, members)

Ca
Allegheny formation
(chiefly light and dark gray shale with variable beds of coarse gray sandstone, or gray, greenish, or black, locally valuable coal beds, Upper Freeport coal at top)

Cpv
Pottsville formation
(thick bedded sandstone with shale in the middle, carrying thin coal, locally workable)

ECONOMIC AND STRUCTURE DATA

Coal outcrops
(dashed lines represent coal not known to be workable)

Upper Freeport
Lower Freeport
Lower Kittanning

Structure contours on the top of the Lower Freeport coal
(contour interval, 50 feet; datum, mean sea level)

Shipping coal mine
(unless otherwise specified)

Abandoned coal mine
Country coal, bank or prospect
Diamond drill hole
(only those are shown whose records are represented on columnar-section sheet)

Notes: In addition to the coal resources, clay and shale for brick and tile occur in the Allegheny and Conemaugh formations, and building stone in the Conemaugh formation.

NAMES OF MINES.
Location indicated on the map by numbers.

1. McKean.
2. Victor No. 29.
3. Rodkey.
4. Hines No. 5.
5. Hines No. 2.
6. Greenwich No. 5.
7. Greenwich No. 8.
8. Pioneer No. 7.
9. Penn-Mary town drift.
10. Penn-Mary No. 1.
11. Penn-Mary No. 3.
12. Penn-Mary No. 2.
13. Penn-Mary No. 5.
14. Penn-Mary No. 4.
15. Kimport.
16. Victor No. 15.
17. Victor No. 15.
18. Victor No. 17.
19. Greenwich No. 1.
20. Greenwich No. 3.
21. Greenwich No. 2.
22. Susquehanna No. 2.
23. Empire.
24. Lancashire No. 9.
25. Lancashire No. 12.
26. Lancashire No. 10.
27. Walnut No. 2.
28. Lancashire No. 3.
29. Moss Creek No. 22.
30. Moss Creek No. 21.
31. Moss Creek No. 23.
32. West Branch.
33. Spangler No. 4.
34. Spangler No. 2.
35. Alport No. 2.
36. Alport No. 1.
37. Walnut No. 4.
38. Walnut No. 1.
39. Walnut No. 3.
40. Spangler No. 1.
41. Victor No. 9.
42. Susquehanna No. 1.
43. Victor No. 4.
44. Spangler No. 25.
45. Brubaker No. 13.
46. Sterling No. 1.
47. Sterling No. 2.

Scale 62500

Contour interval 20 feet.
Datum is mean sea level.
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