

U.S. GEOLOGICAL SURVEY
GEORGE OTIS SMITH, DIRECTOR

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

PENNSYLVANIA
PATTON QUADRANGLE



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

1

16-11-11

ECONOMIC AND
STRUCTURE DATA

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

uf, Upper Freeport
lf, Lower Freeport
uk, Upper Kittanning
lk, Lower Kittanning

- ✕ *Shipping coal mine*
(unless otherwise specified)
- ✕^A *Abandoned coal mine*
- ✕ *Country coal bank or prospect*
- ⊙ *Diamond drill hole*
(only those are shown whose records are represented on relevant maps)

Note: 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. Miller Run.
2. Red Top Nos. 1 and 2.
3. Pandee Nos. 27 and 29.
4. Hastings No. 12.
5. Rich Hill.
6. Oak Ridge No. 1.
7. Hastings No. 13.
8. Hastings No. 12.
9. Hastings No. 11.
10. Cymbria No. 2.
11. Sterling No. 3.
12. Cymbria No. 3.
13. Cymbria No. 10.
14. Eclipse.
15. Victor No. 1.
16. Victor No. 2.
17. Victor No. 6.
18. Victor No. 5.
19. Victor No. 4.
20. Victor No. 3.
21. Sterling No. 1.
22. Sterling No. 2.
23. Sterling No. 4.
24. Nanty No. 2.
25. Sterling No. 2.
26. Logan No. 1.
27. Black Cloud No. 2.
28. Patton No. 1.
29. Patton No. 2.
30. Ashcroft No. 35.
31. Ashcroft No. 34.
32. Pandee No. 2.
33. Columbian No. 32.
34. Patton No. 2.
35. Pandee No. 39.
36. Pandee No. 26.
37. Patton No. 3.
38. Flannagan No. 31.
39. Flannagan No. 30.
40. Flannagan No. 36.
41. Moshannon No. 58.
42. Patton No. 13 and 37.
43. Mount Verde.
44. Blain Run No. 13 and 37.
45. Oakland No.
46. Blain Run No. 1.
47. Oakland No.
48. Blain Run.
49. Oakland No.
50. Alpha.
51. Superior No. 4.
52. Beaver Dam No. 5.
53. Beaver Dam.
54. Dean No. 5.
55. Richland.
56. Jones No. 2.
57. Pennsylvania No. 16.
58. Pennsylvania No. 7.
59. Delaney No. 2.
60. Delaney No. 5.
61. Glenwithe.

Geology by Marius R. Campbell, Frederick G. Clapp,
and Charles Butts; assisted by J. S. Burrows.
Surveyed in 1903-4 and 1909.

SURVEYED IN COOPERATION WITH THE STATE OF PENNSYLVANIA.

H.M. Wilson, Geographer in charge.
Triangulation by S.S. Gannett.
Topography by Frank Sutton, A.M. Walker; and J.D. Forster.
Surveyed in 1901-2 in cooperation with the State of Pennsylvania.

APPROXIMATE MEAN
REGULATION 1995

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

I MAP# 10363