

Scale, 1"=100'



LEGEND

Coal outcrops
(Solid lines show positions of known workable beds; dash lines show probable positions of workable beds)

Clay outcrops
(Solid lines show positions of known workable beds; dash lines show probable positions of workable beds)

Structure contours
(Showing elevation and lay of bottom of lower Kittanning coal bed (datum is mean sea level)

Coal mine
Country coal bank
Abandoned mine
Abandoned bank or prospect

SANDSTONE Sandstone quarry
SHALE Shale pit
CLAY Fire-clay mine
Diamond-drill hole
Shaft

Upper Freeport coal
Lower Freeport coal
Upper Kittanning coal
Lower Kittanning coal

LIST OF MINES

JOHNSTOWN DISTRICT

UPPER FREEPORT (COKE YARD) COAL

- 46. Cambria Steel Company, Conemaugh slope.
- 72. Ferndale Coal Company.
- 75. Berneville Coal Company.
- 60. William Schaeffer.
- 51. William Davis.
- 50. William Cover.
- 52. Johnstown Press Brick Company.
- 76. Davis mine, Grubtown.
- 81. Lewis Epply.
- 44. L. J. Mitchell.
- 42. Charles Umbarger.

UPPER KITTANNING (CEMENT) COAL

- 79. Cambria Steel Company, Rolling Mill mine.
- 47. Cambria Steel Company, Franklin No. 1.
- 69. Valley Coal and Stone Company, No. 1.
- 68. Valley Coal and Stone Company, No. 2.
- 77. Citizens' Coal Company, Eighth Ward mine.
- 62. Citizens' Coal Company, Dale mine.
- 53. Suppes Coal Company, No. 1.
- 63. Suppes Coal Company, Dale mine.
- 73. Sunnyside Coal Company, No. 2.
- 74. Llewellyn mine.
- 78. Highland Coal and Coke Company.
- 61. Caddy Coal Company.
- 71. Casfield mine.
- 58. Fyock mine.
- 64. Livergood mine.
- 59. Jacoby mine.
- 57. Wertz & Miller.
- 56. Edward Litsinger.
- 55. George Heidingsfelder.
- 49. John F. Griffith.
- 65. J. J. Orris.
- 84. Lewis Fugate (slope).
- 82. E. W. Fugate.
- 83. Samuel Fugate.
- 67. Keelo Smokeless Coal Company.

LOWER KITTANNING (MILLER) COAL

- 78. W. J. Williams, Kenville slope.
- 86. W. J. Williams, Morelville mine.
- 48. Cambria Steel Company, Franklin slope, No. 2.
- 54. Citizens' Coal Company, Green Hill slope.
- 80. A. J. Haws & Sons (Limited), shaft.
- 87. A. J. Haws & Sons (Limited), Coopersdale mine.
- 45. Keystone Coal Company, Conemaugh mine.
- 85. Robertson & Griffith.
- 66. Ingelside Coal Company.
- 88. John Adams.
- 43. J. L. Custer.

SOUTH FORK DISTRICT

UPPER FREEPORT (LEMON) COAL

- 21. Pennsylvania, Beech Creek, and Eastern Coal Company, No. 8.
- 25. South Fork Coal Company, No. 2.
- 32. H. C. Stineman, No. 5.
- 31. O. M. Stineman, No. 3.

UPPER KITTANNING (CEMENT) COAL

- 33. H. C. Stineman, No. 6.
- 30. O. M. Stineman, No. 3j.
- 27. Charles Hutzel.
- 24. Robert A. Giles.
- 40. H. W. Gillan.

LOWER KITTANNING (MILLER) COAL

- 26. South Fork Coal Company, No. 1.
- 35. Priscilla Coal Company.
- 23. Pennsylvania, Beech Creek, and Eastern Coal Company, No. 3.
- 23. Pennsylvania, Beech Creek, and Eastern Coal Company, No. 5.
- 23a. Pennsylvania, Beech Creek, and Eastern Coal Company, shaft.
- 36. Argyle Coal Company, Argyle No. 1.
- 37. Argyle Coal Company, Argyle No. 2.
- 38. Argyle Coal Company, Argyle No. 3.
- 34. Stineman Coal and Coke Company, No. 2.
- 29. Stineman Coal and Coke Company, No. 4.
- 28. Stineman Coal Mining Company, No. 1.
- 39. Page-Reighard Mining Company, Juniper mine.
- 41. Valley Smokeless, No. 3 (Radnor mine).

BROOKVILLE (?) ("DIRTY A") COAL

J. H. Wilkes (omitted on map owing to lack of space)

BLACKLICK CREEK DISTRICT

LOWER (?) FREEPORT COAL

- 3. Ivory Hill Coal Mining Company
- LOWER KITTANNING (MILLER) COAL
- 4. Ivory Hill Coal Mining Company (slope).
- 5. Lincoln Coal Company.
- 1. Pennsylvania, Beech Creek, and Eastern Coal Company, No. 14.
- 2. Neely-Glo Coal Mining Company.
- 6. Cardiff Coal Company.
- 7. Blacklick Coal Mining Company, Colliery No. 2.
- 8. Big Bend Coal Mining Company, Nonaval No. 1.
- 9. Commercial Coal Mining Company, No. 3.
- 10. Commercial Coal Mining Company, No. 4.
- 11. Vinton Colliery Company, No. 5.
- 12. Vinton Colliery Company, No. 3.
- 14. Vinton Colliery Company, No. 2.
- 15. Vinton Colliery Company, No. 1.
- 13. Vinton Colliery Company, No. 6.
- 17. Lakavanna Coal and Coke Company, No. 4 (shaft).
- 16. Amos Rager.
- 18. H. R. Dill.

WINDBER DISTRICT

LOWER KITTANNING (MILLER) COAL

- 89. Berwind-White Coal Mining Company, Eureka No. 37.
- 90. Berwind-White Coal Mining Company, Eureka No. 40.

CONEMAUGH FURNACE DISTRICT

LOWER KITTANNING (MILLER) COAL

- 19. Johnstown Coal Company, Cramer mine.
- 20. Nineveh Coal Company.

* Only those mines which lie in the Johnstown quad-rangle are given.

ECONOMIC AND STRUCTURAL MAP OF THE JOHNSTOWN QUADRANGLE, PENNSYLVANIA

H.M. Wilson, Geographer.
Frank Sutton and R.D. Cummin, in charge of section.
Topography by R. D. Cummin and A. C. Roberts. Assistant, B. B. Alexander.
Control by S. S. Gannett and H. B. Paige.
Surveyed in 1901-1904.



Geology by W.C. Phalen,
assisted by Lawrence Martin,
under the supervision of G.H. Ashley.
Surveyed in 1906.