



INDEX TO NUMBERS
SHOWING LOCATIONS AT WHICH
COALS WERE OBSERVED.

Nos. 1 to 206, points in the
Buffalo Basin.

Nos. 207 to 280, points in the
Glade Run Basin.

Nos. 281 to 467, points in the
Allegheny Basin west of
the river.

Nos. 468 to 590, points in the
Allegheny Basin east of
the river.

Nos. 591 to 704, points in the
Cowanshannock Basin.

Nos. 705 to 830, points in the
Pine Creek Basin.

Nos. 831 to 991, points in the
Mahoning Basin.

Nos. 992 to 1037, points in the
Redbank Basin.

INDEX TO NUMBERS
SHOWING LOCATIONS OF
OIL AND GAS WELLS.

Nos. 1 to 43, wells in
Winfield Township.

Nos. 44 to 63, wells in
Clearfield Township.

Nos. 64 to 122, wells in
Donnell Township.

Nos. 123 to 161, wells in
Fairview Township.

Nos. 162 to 167, wells in
South Buffalo Township.

Nos. 168 to 211, wells in
North Buffalo Township.

Nos. 212 to 225, wells in
West Franklin Township.

Nos. 226 to 243, wells in
Sugar Creek Township.

Nos. 244 to 248, wells in
Brady's Bend Township.

Nos. 249 to 290, wells in
East Franklin Township.

Nos. 291 to 290, wells in
Washington Township.

Nos. 291 to 307, wells in
Manor Township.

Nos. 308 to 310, wells in
Rayburn Township.

Nos. 311 to 331, wells in
Kittanning Township.

Nos. 332 to 359, wells in
Valley Township.

Nos. 360 to 398, wells in
Boys's Township.

Nos. 399 to 415, wells in
Madison Township.

Nos. 416 to 420, wells in
Plum Creek Township.

Nos. 421 to 485, wells in
Cowanshannock Township.

Nos. 486 to 541, wells in
Wayne Township.

Nos. 542 to 545, wells in
Mahoning Township.

Nos. 546 to 549, wells in
Redbank Township.

LEGEND

SEDIMENTARY ROCKS
Deposits are shown by
substantial deposits by
patterns of lines and
dots.

- Recent
 - Qal Alluvium (in flood plains or present streams)
 - Cg Glacial gravel (rough gravel and sand of glacial origin, with some pebbles of local origin)
- Platycene
 - Ccm Carmichaels formation (sand, silt, clay and red, brown, purple, or blue shales)
 - Qoa Older alluvium (sand and silt of local derivation)

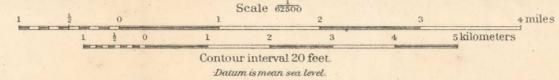
- Carboniferous
 - Ccm Conemaugh formation with Ames limestone and Saltsburg sandstone lentils (massive sandstone, often shaly, with thin coal seams and shaly limestone)
 - Al Allegheny formation and Vancor limestone lentil (shale and massive sandstone and several valuable beds of coal and fire clay)
 - Cpv Pottsville formation (massive sandstone, often shaly, with thin coal seams and shaly limestone)
 - Cpe Pocahontas formation (massive sandstone, with thin coal seams and shaly limestone)

- Known productive formations
 - Coal outcrops (contour lines represent coal beds or prospects or prospects of workable thickness, shaded top, roots of peaks, or workable thickness)
 - Upper Pottsville coal, Lower Pottsville coal, Upper Kittanning coal, Middle Kittanning coal, Lower Kittanning coal, Upper Allegheny coal, Lower Allegheny coal, Cleggville coal.

- Structure contours drawn on the top of the Pottsville limestone lentil (contour interval is 50 feet, datum is mean sea level)
- Oil pools (projected to the surface, indicated by red dots)
- Mines and quarries (red dots, unless otherwise marked)
- Coal outcrops, coal banks, and prospects (x)
- Scattered oil wells (o)
- Wells drilled for gas (●)
- Dry wells, or product unobtainable (○)
- Wells numbers refer to printed sections in report
- Diamond drill holes (◆)

H. M. Wilson, Geographer in charge.
Translation and control, S. S. Gannett and E. L. McNeil.
Topography by Frank Sutton, R. D. Cummin, J. D. Forster,
W. L. Miller, and W. Carver Hall.
Surveyed in 1900 and 1901 in cooperation with the
State of Pennsylvania.

MAP SHOWING STRUCTURE AND ECONOMIC GEOLOGY OF KITTANNING AND RURAL VALLEY QUADRANGLES.



Geology by Charles Butts,
L. H. Weisley and Frank Leverett,
under the direction of Marius R. Campbell.
Surveyed in 1901-1902 in cooperation with
the State of Pennsylvania.