



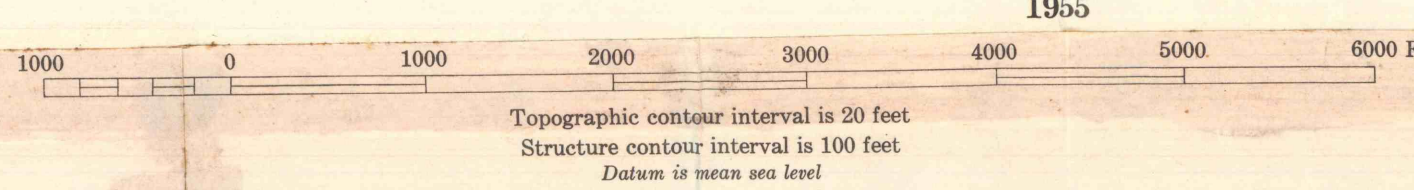
- EXPLANATION
OUTCROP MAP**
- Coal outcrop
Solid where location is known, long dashes where uncertain.
Number designates coal bed, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
 - High-angle fault, showing dip to right and 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000.
 - Fault showing relative movement
Fault trace to which where uncertainty limited, long dashes where approximately located.
 - Thrust or reverse fault showing dip to right and 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000.
 - Anticline
Showing crest line.
 - Syncline
Showing trough line.
 - Structural cross section
Strip-mined area shaded cross covered by mine waste.
 - Surface opening on coal bed
 - Exploratory trench
 - Mine waste
Includes such refuse from mining and breaker operation as culm, mill heads, mill pits, face fill, and soil in mining basins.
 - Stream-transported mine waste
 - Boundary of mine
PETER JOHNS
 - Warranty tract
Boundaries are indicated for general orientation and identification but are not authoritative for legal purposes.

- EXPLANATION
STRUCTURE MAP**
- Outcrop of Buck Mountain coal bed
 - Fault showing relative movement
Fault trace to which where uncertainty limited, long dashes where approximately located.
 - Fault cutting contoured bed showing dip of fault plane, relative position of faulted segments, and structural segments.
Fault trace to which where uncertainty limited, long dashes where approximately located. Dip angles where uncertainty limited, long dashes where approximately located. U, unknown; approx., approximate; D, direction; approx., approximate.
 - Anticline
Showing crest line, solid where location is known, dashed where location is uncertain.
 - Syncline
Showing trough line, solid where location is known, dashed where location is uncertain.
 - Contours on the bottom of the Buck Mountain coal bed
Solid in mined areas, long dashes in unmined areas; in those areas where a part of the bed shows another part of the same bed short dashes are used to connect areas, and very short dashes in unmined areas. Contour interval 20 feet. Datum is mean sea level.
 - Structural cross section
 - Barrier pillar in Buck Mountain coal bed
 - Boundary of mine
PETER JOHNS
 - Warranty tract
Boundaries are indicated for general orientation and identification but are not authoritative for legal purposes.

Base: U.S. Geological Survey topographic map. Polyconic projection, 1927 North American datum. Topography was compared from aerial photographs made in 1942. Correction has generally not been made for topographic changes resulting from strip-mining or alteration of mine refuse banks since 1942.

COAL OUTCROP MAP

GEOLOGY OF ANTHRACITE IN THE WESTERN PART OF THE
By
John A. Maxwell and Howard E. Roth
1955



COAL OUTCROP MAP

GEOLOGY OF ANTHRACITE IN THE EASTERN PART OF THE SHENANDOAH
By
Thomas M. Kehn and Holly C. Wagner

Base: U.S. Geological Survey topographic map. Polyconic projection, 1927 North American datum. Topography was compared from aerial photographs made in 1942. Correction has generally not been made for topographic changes resulting from strip-mining or alteration of mine refuse banks since 1942.

FIGURATIONS
SHEET 1 OF 2