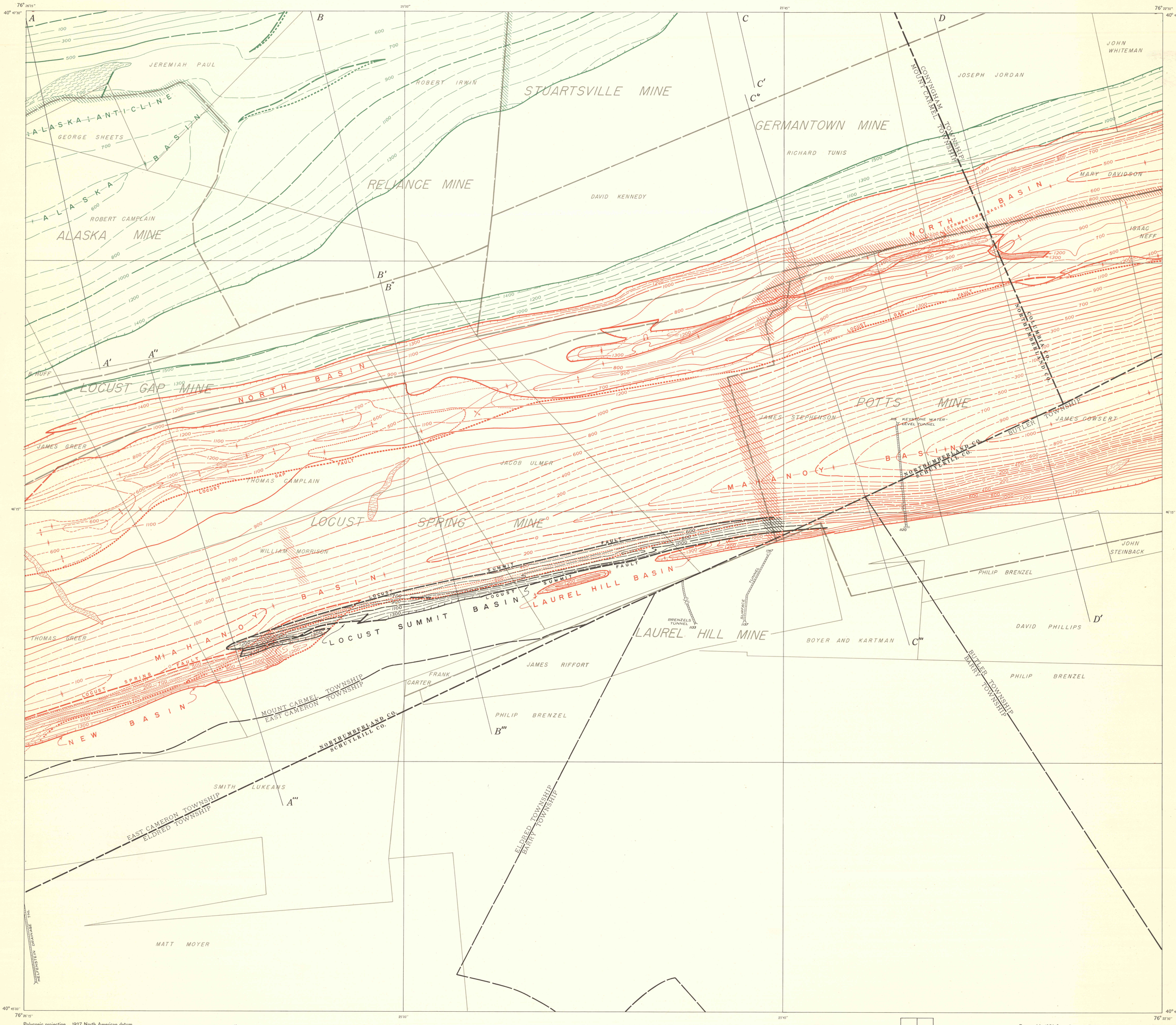

EXPLANATION

Boundary of mine

E. HUFF

Warranty tract

Boundaries are indicated for general orientation and identification but are not authenticated for legal purposes.

A ——— A'

Structural cross section

Note: Green structure and outcrop symbols apply to the Buck Mountain coal bed. Red structure and outcrop symbols apply to the bottom split of the Mammoth coal bed. Where segments of bottom split of the Mammoth coal bed are superposed by thrust faulting, structure contours on the upper plates of the bottom split of the Mammoth coal bed are shown in black.

Outcrop of coal bed

Fault cutting contoured bed showing dip of fault plane, relative position of faulted segments, and overthrust segment.

Fault trace is solid where accurately located, long dashes where approximately located. Fault trace on underlying plate is indicated by short dashes where accurately located and dots where approximately located. U, upthrown segment; D, downthrown segment; ▷, overthrust segment.

700 400 600 300 500

Contours on the bottom of the contoured coal bed

Solid in mined areas; long dashes in unmined areas; in those places where a part of the bed lies beneath another part of the same bed short dashes are used in mined areas, and very short dashes in unmined areas.

Shear zone

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.

Overturned syncline

Showing trough line and direction of dip of the limbs.

Drainage tunnel

Barrier pillar in contoured bed

Polyconic projection. 1927 North American datum.

TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1944.

STRUCTURE MAP OF THE BUCK MOUNTAIN AND MAMMOTH COAL BEDS

SCALE 1:6,000

500 0 500 1000 2000 3000 Feet

Contour interval is 100 feet
Datum is mean sea level.

DIAGRAM OF A TOPOGRAPHIC QUADRANGLE SHOWING THE AREA INCLUDED IN THIS MAP

Prepared in 1950 from data supplied by the Raven Run Coal Co., Lehigh Valley Coal Co., and the Philadelphia and Reading Coal and Iron Co., with modifications by the U. S. Geological Survey.

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.

GEOLOGY OF ANTHRACITE IN THE SOUTHEASTERN PART OF THE MOUNT CARMEL QUADRANGLE, PENNSYLVANIA

By
Howard E. Rothrock, Holly C. Wagner, Boyd R. Haley, and Harold H. Arndt

1953

COAL INVESTIGATIONS
MAP C12 (IN 3 SHEETS) SHEET 2

For sale by U. S. Geological Survey, price $1.50 per set