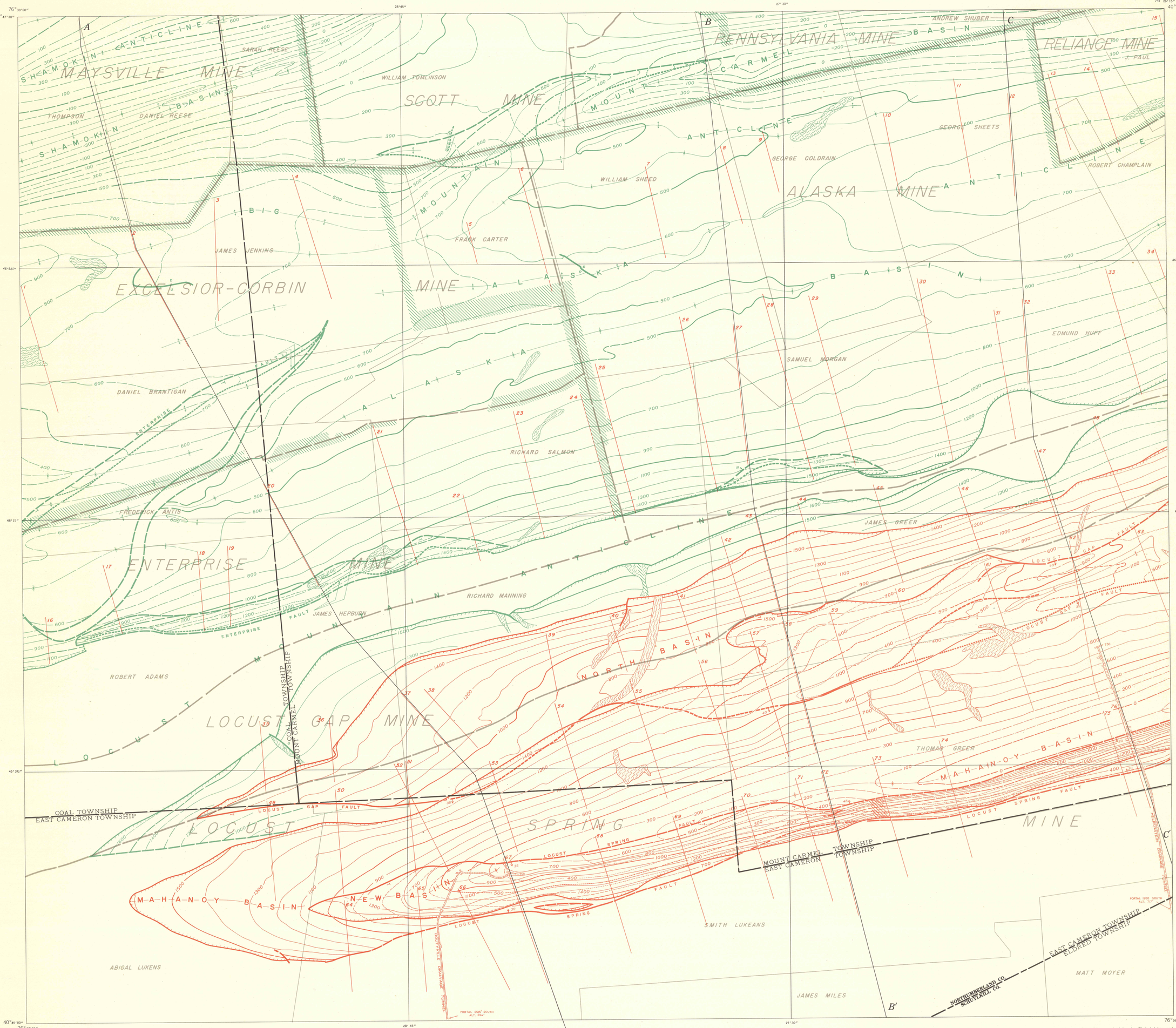

Polyconic projection. 1927 North American datum.

TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1944

STRUCTURE MAP OF THE BUCK MOUNTAIN AND MAMMOTH COAL BEDS

SCALE 1:6,000

500 100 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 1949 from data supplied by the Philadelphia and Reading Coal and Iron Company and the Susquehanna Collieries Company with modifications by the U. S. Geological Survey.

EXPLANATION

Boundary of mine

J. PAUL
Warranty tract
Boundaries are indicated for general orientation and identification but are not authenticated for legal purposes.

Township line

County line

A——A'
Structural cross section

34
Cross section from which stratigraphic column 34 of the coal interval diagram was made

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.

Outcrop of coal bed

U 40 D 600 700 900 1000
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.

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.

Drainage tunnel

Barrier pillar in contoured bed

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.

Drafted by John T. Howells

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

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

1951