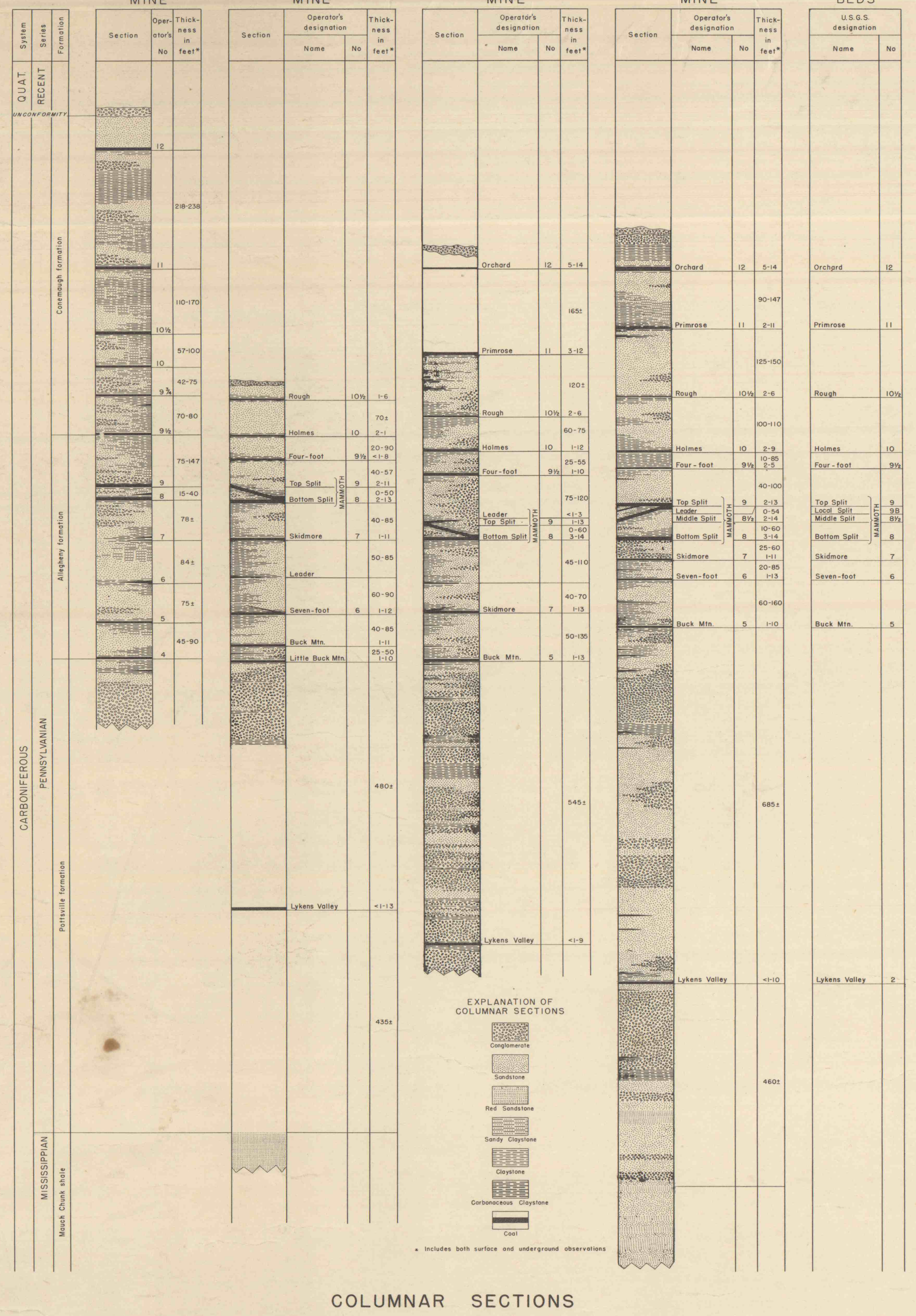
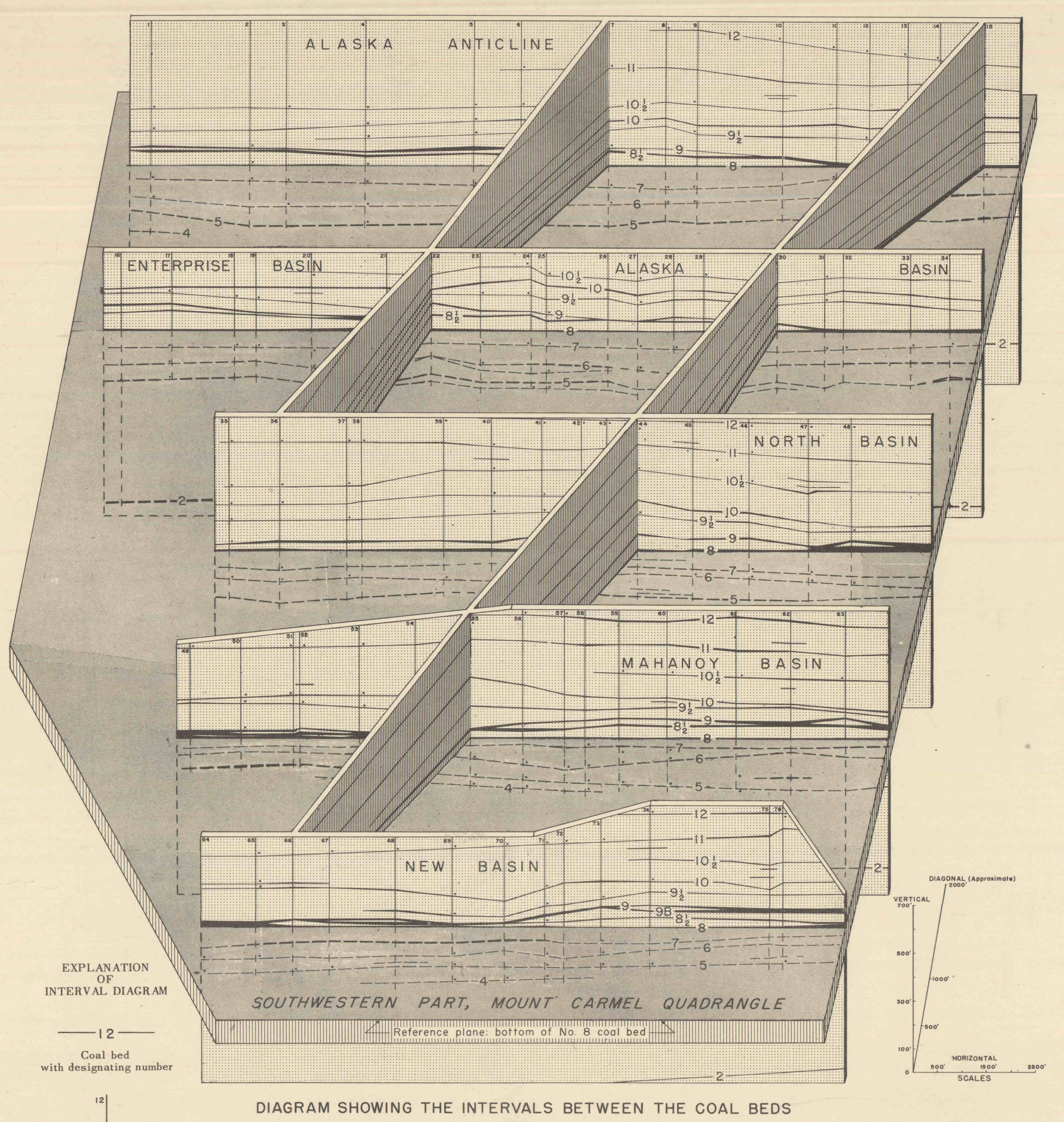


COLUMNAR SECTIONS



EXPLANATION OF INTERVAL DIAGRAM

Coal bed with designating number

Section showing intervals between coal beds

DIAGRAM SHOWING THE INTERVALS BETWEEN THE COAL BEDS

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

INTRODUCTION

LOCATION

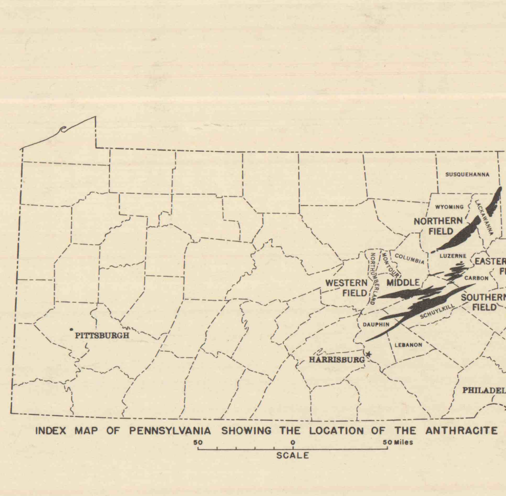
PURPOSE

METHODS OF WORK AND ACKNOWLEDGMENTS

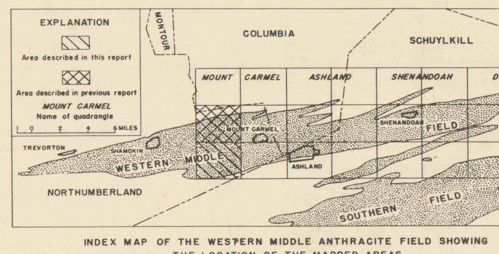
GEOLOGY

STRATIGRAPHY

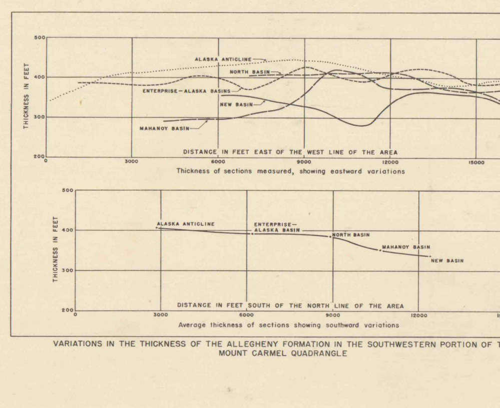
PENNSYLVANIAN ROCKS



INDEX MAP OF PENNSYLVANIA SHOWING THE LOCATION OF THE ANTHRACITE FIELDS



INDEX MAP OF THE WESTERN MIDDLE ANTHRACITE FIELD SHOWING THE LOCATION OF THE MAPPED AREAS



VARIATIONS IN THE THICKNESS OF THE ALLEGHENY FORMATION IN THE SOUTHWESTERN PORTION OF THE MOUNT CARMEL QUADRANGLE

THICKNESS OF THE ALLEGHENY FORMATION IN THE SOUTHWESTERN PART OF THE MOUNT CARMEL QUADRANGLE

QUATERNARY DEPOSITS

STRUCTURE

GENERAL DESCRIPTION

FOLDS

FAULTS

EFFECT OF DEFORMATION ON THE THICKNESS OF STRATA

RELATIONSHIP BETWEEN THE THICKNESS AND THE DIP OF STRATA IN THE ALLEGHENY FORMATION IN THE SOUTHWESTERN PART OF THE MOUNT CARMEL QUADRANGLE

COAL BEDS

NOMENCLATURE AND CORRELATION OF THE COAL BEDS

DESCRIPTION OF THE COAL BEDS

THICKNESS AND OUTCROPS OF COAL

AVERAGE THICKNESSES AND RANGES IN THICKNESSES OF COAL BEDS IN THE SOUTHWESTERN PART OF THE MOUNT CARMEL QUADRANGLE

LYKENS VALLEY COAL BEDS

LITTLE BUCK MOUNTAIN (NO. 4) COAL BED

BUCK MOUNTAIN (NO. 5 AND 5½) COAL BED

SEVEN-FOOT (NO. 6) COAL BED

SKIDMORE (NO. 7) COAL BED

MAMMOTH COAL ZONE

FOUR-FOOT (NO. 9½) COAL BED

HOLMES (NO. 10) COAL BED

LOCAL (NO. 10½) COAL BED

RODGERS (NO. 11) COAL BED

LOCAL (NO. 11½) COAL BED

PRIMROSE (NO. 12) COAL BED

ORCHARD (NO. 13) COAL BED

LIST OF REFERENCES

EXPLANATION OF CROSS SECTIONS

Boundary of mine

Boundary of warranty tract

Contact between the Mauch Chunk shale (Cgv) and the Pottsville formation (Cms)

Coal bed with designating number
Solid where mined, dashed where unmined.

Fault showing relative movement
Solid where location is known, dashed where uncertain.

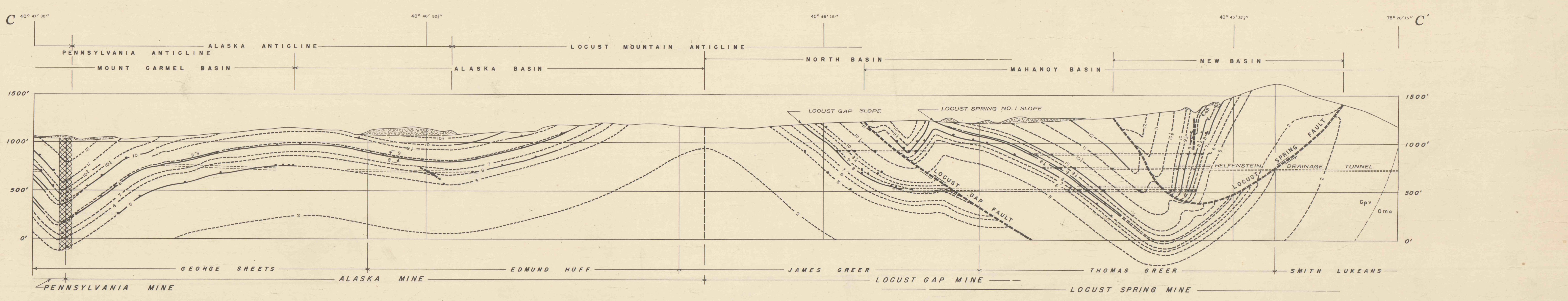
Drill hole showing position of coal beds found in core or cuttings
Solid where hole is in the plane of the section, dashed where projected to the section.

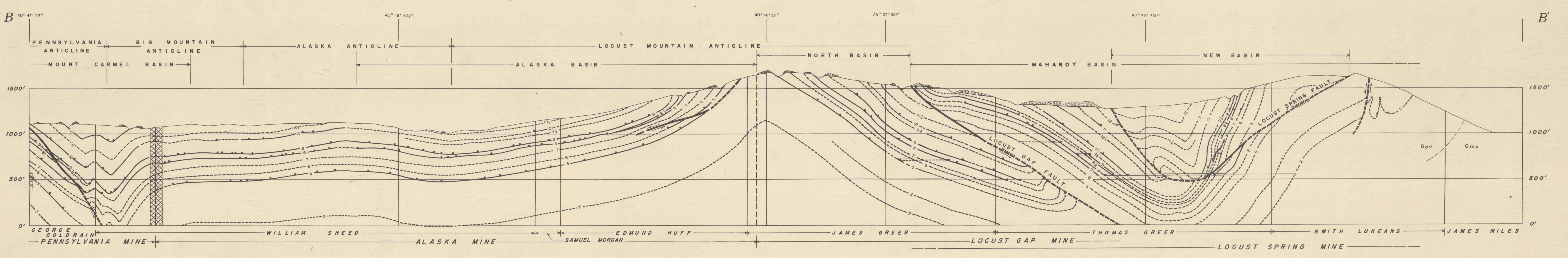
Cross section of gangway

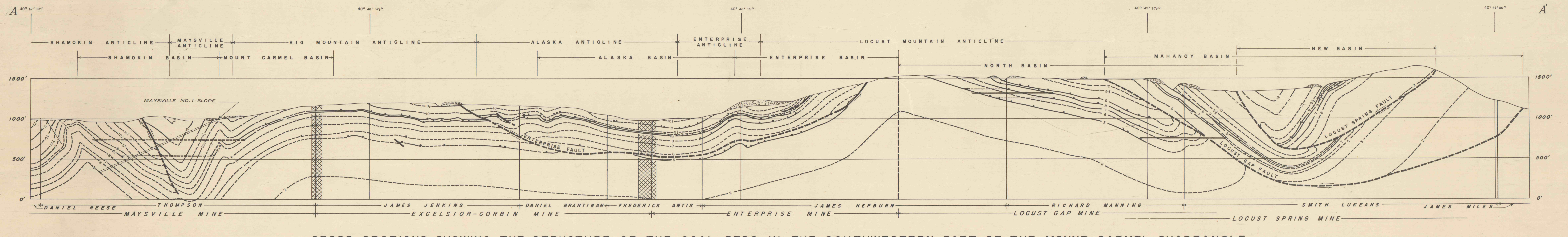
Tunnel showing position of intersecting gangway
Solid where tunnel is in the plane of the section, dashed where projected to the section.

Mine waste

Area reserved for barrier pillar







CROSS SECTIONS SHOWING THE STRUCTURE OF THE COAL BEDS IN THE SOUTHWESTERN PART OF THE MOUNT CARMEL QUADRANGLE

SCALE 1:6,000

Datum is mean sea level

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.

Drafted by John T. Howells

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