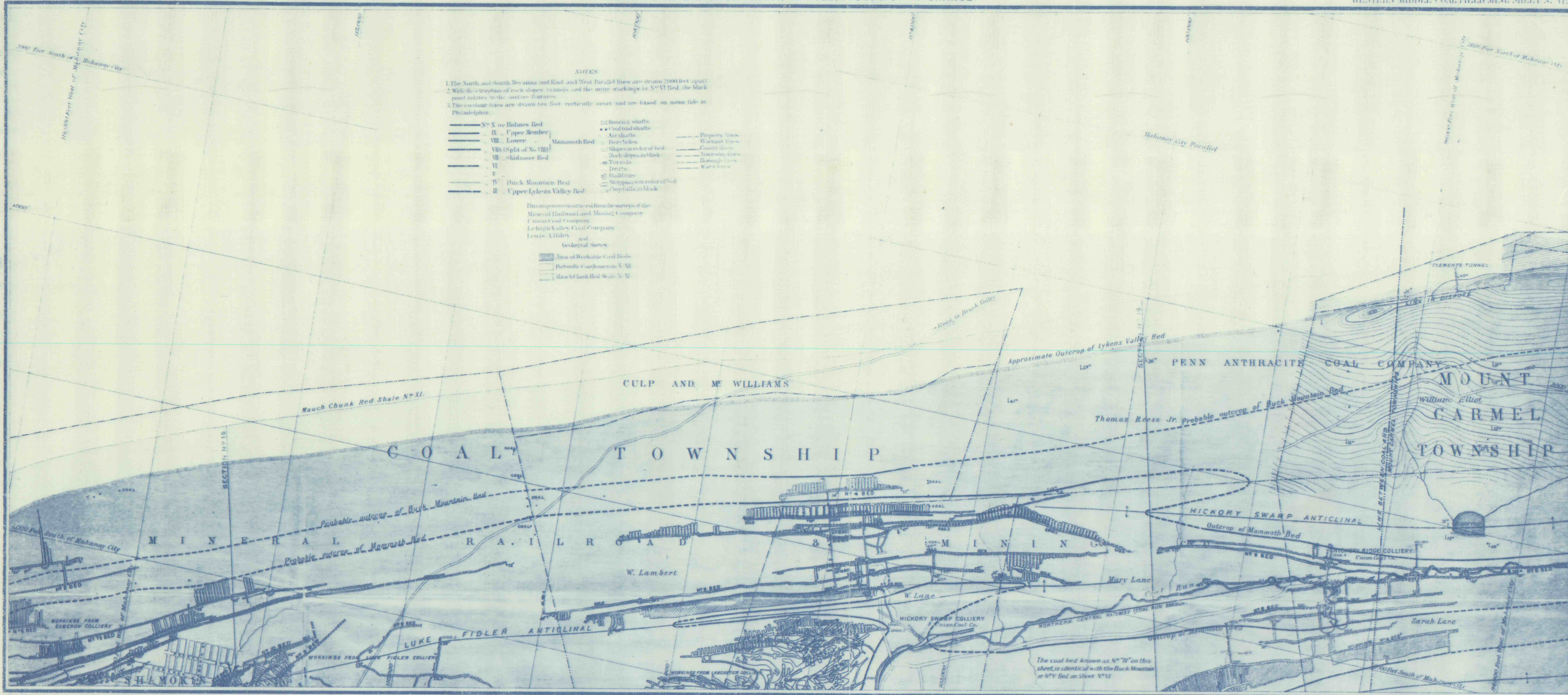
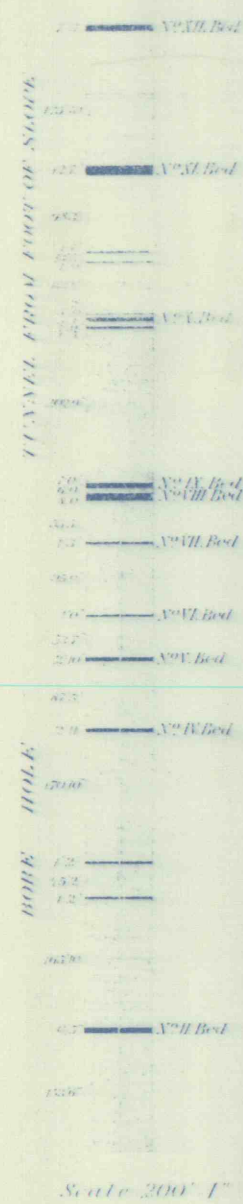


GEOLOGICAL SURVEY OF PENNSYLVANIA. J.P. LESLEY, STATE GEOLOGIST
ANTHRACITE DISTRICT FRANK A. HILL, GEOLOGIST IN CHARGE

SHAMOKIN, LUKE FIDLER AND COAL RUN BASINS, NORTH MERLAND COUNTY

WESTERN MIDDLE COAL FIELD MINE SHEET NO. 17

SECTION OF COAL MEASURES
SHAMOKIN NORTH SHEET
LUKE FIDLER COLLIERY
MINERAL R.R. & MINING CO.

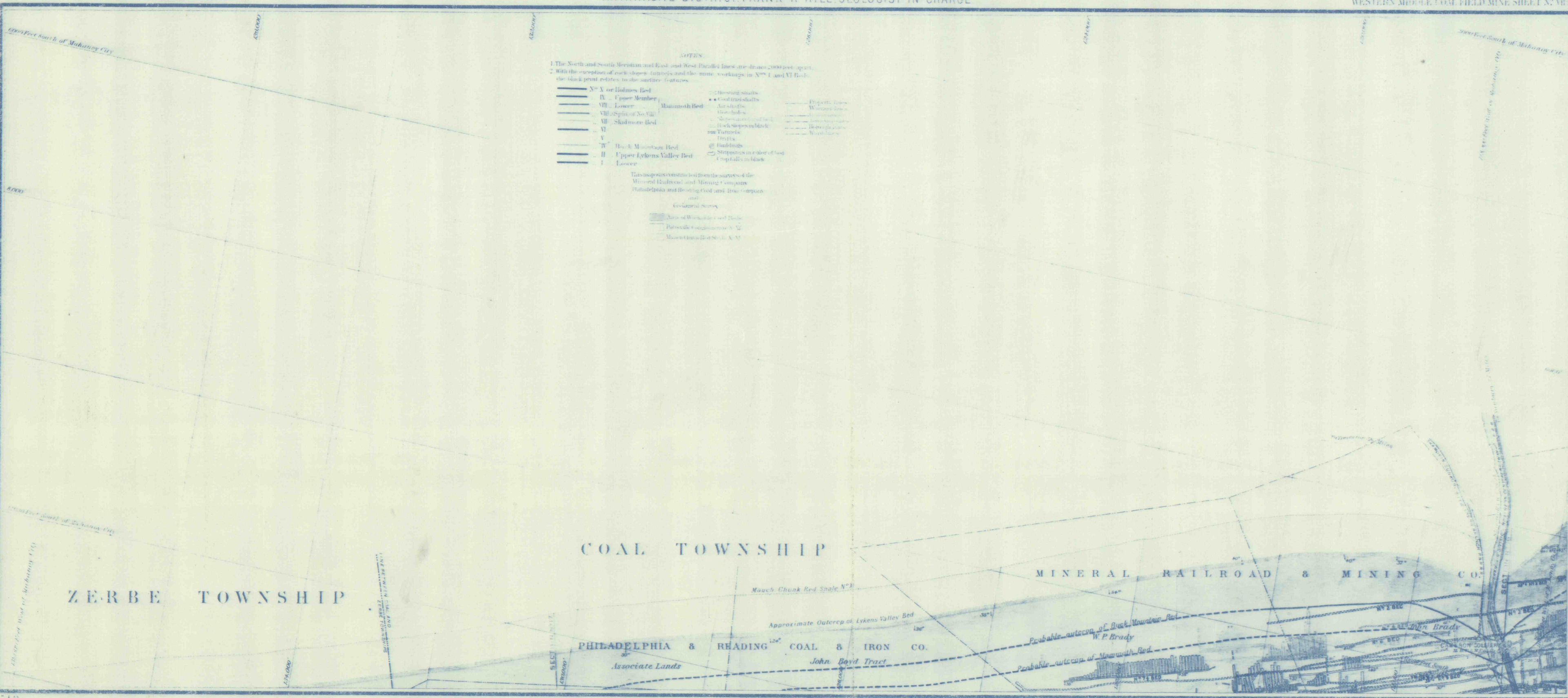


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ANTHRACITE DISTRICT FRANK A. HILL, GEOLOGIST IN CHARGE

SHAMOKIN BASIN, NORTH MERLAND COUNTY

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MAY, 1889.