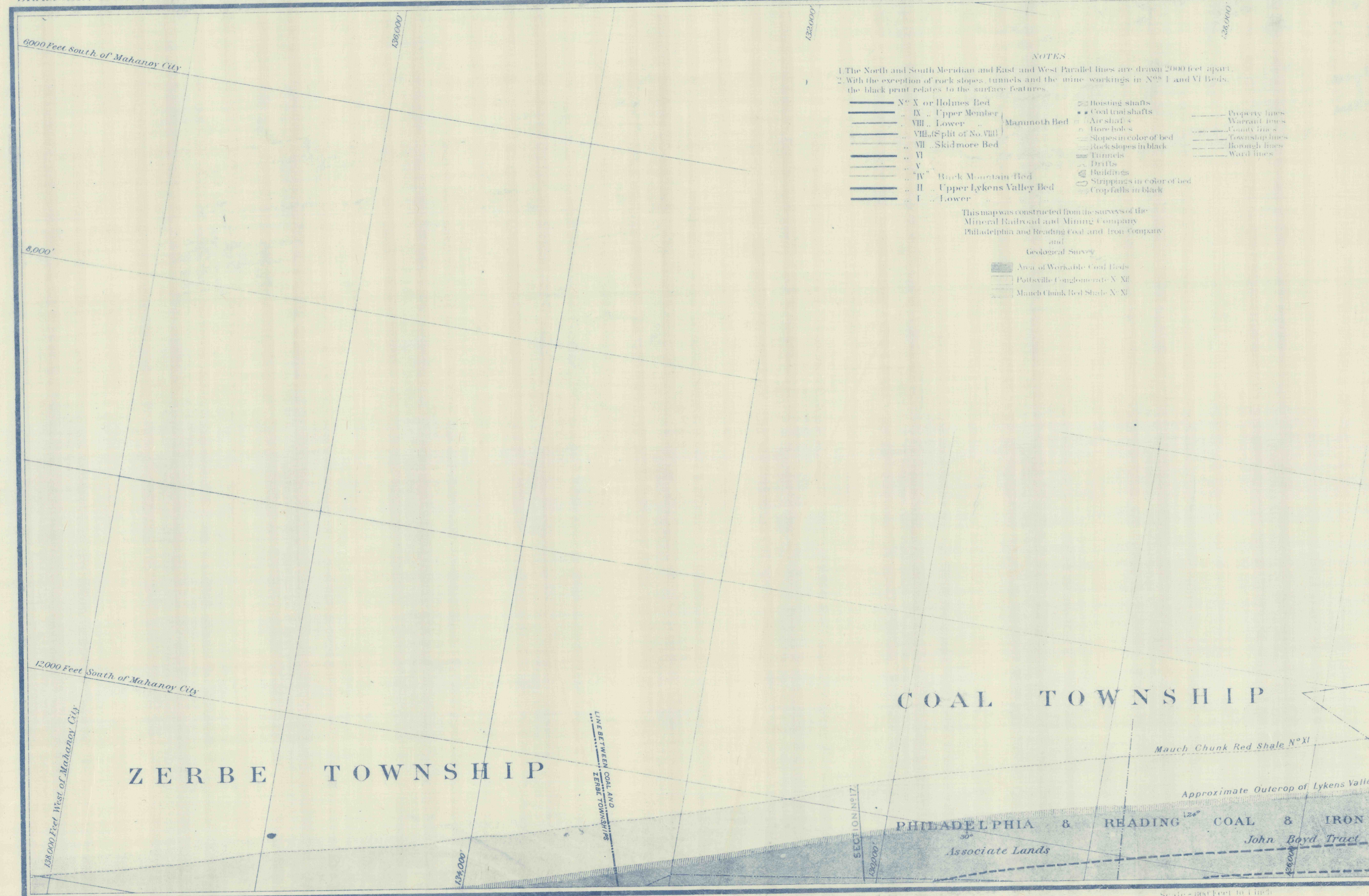


GEOLOGICAL SURVEY OF PENNSYLVANIA. J.P.L. ANTHRACITE DISTRICT. FRANK A. HILL, GEOLOGIST

SHAMOKIN BASIN, NORTHUMBERLAND COUNTY



NOTES

1. The North and South Meridian and East and West Parallel lines are drawn 2000 feet apart.
2. With the exception of rock slopes, tunnels and the mine workings in N°s I and VI Beds, the black print relates to the surface features.

N° X or Holmes Bed	Hoisting shafts	Property lines
N° IX Upper Member	Coal test shafts	Warrent lines
N° VIII Lower	Air shafts	County lines
N° VII (split of No. VIII)	Mine holes	Township lines
N° VI Skidmore Bed	Slopes in color of bed	Borough lines
N° V	Rock slopes in black	Word lines
N° IV Black Mountain Bed	Tunnels	
N° III Upper Lykens Valley Bed	Drifts	
N° II Lower	Buildings	
	Strippings in color of bed	
	Crop falls in black	

This map was constructed from the surveys of the Mineral Railroad and Mining Company, Philadelphia and Reading Coal and Iron Company, and Geological Survey.

Area of Workable Coal Beds
Pottsville Conglomerate N° XII
Mauch Chunk Red Shale N° XI

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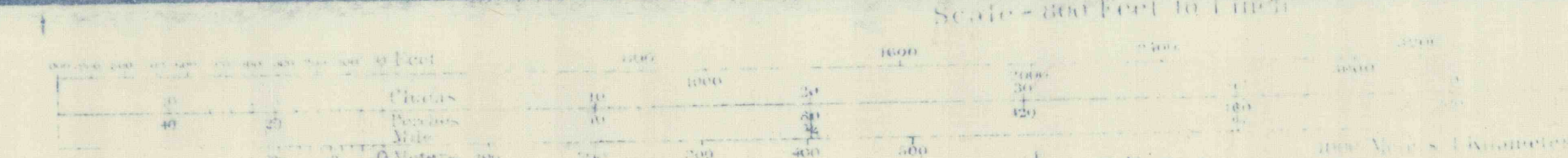
A.J.W. SMITH, Assistant Geologist

EDWARD F. KAERCHER
JINZOO ADACHI
HOWELL T. FISHER

ASSISTANTS

KEY TO SHEETS
VIII VII VI V IV III II I
VIII VII VI V IV III II I

JULIUS BIEN & CO. LITH.



MAY, 1889.