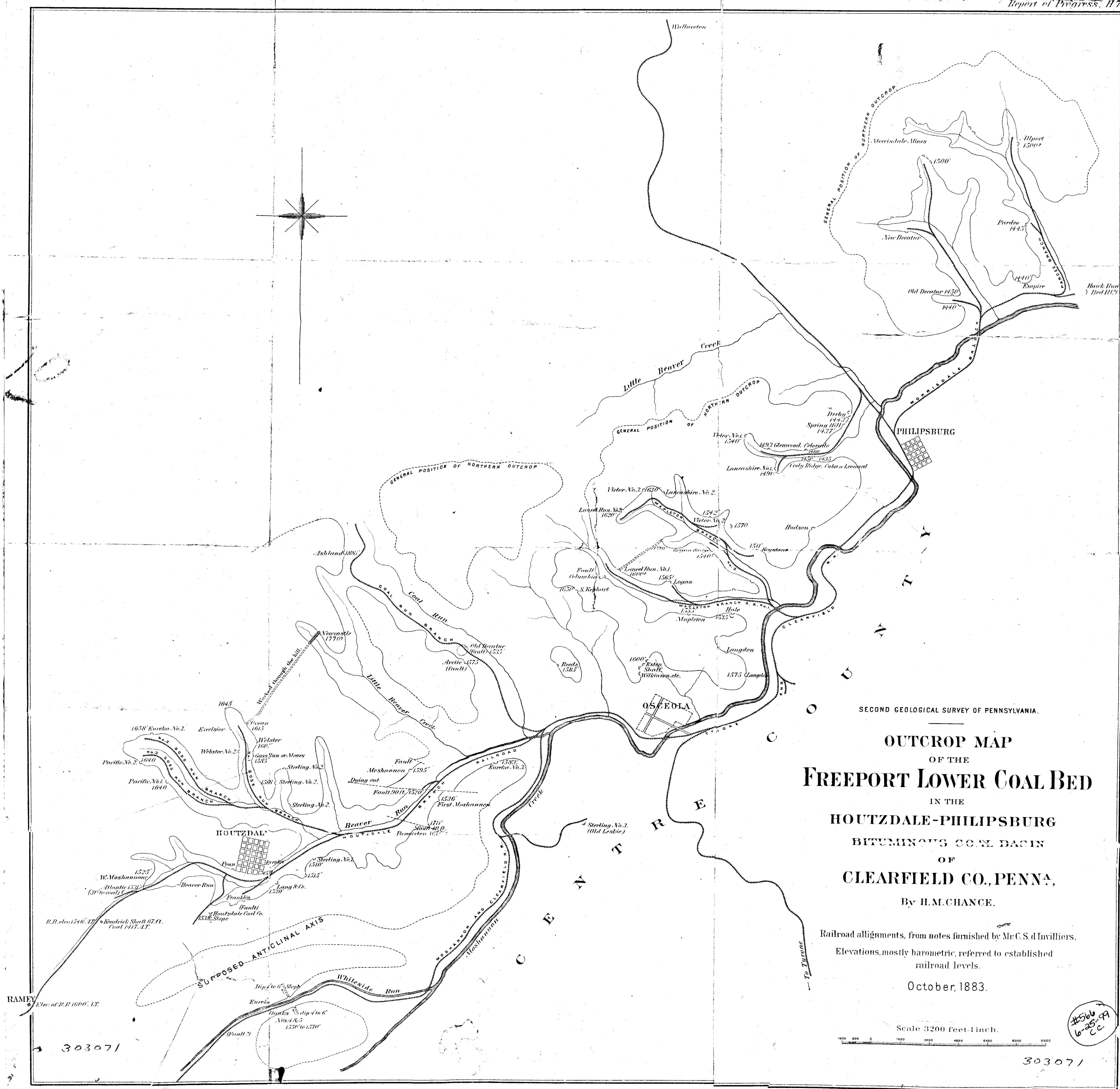
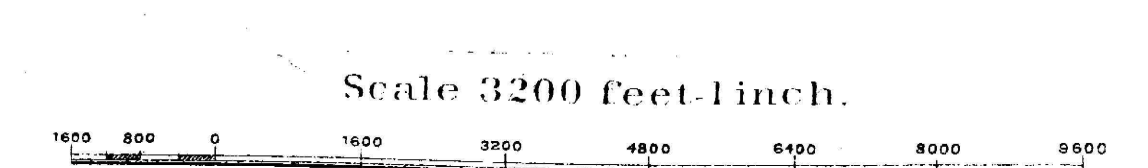




SECOND GEOLOGICAL SURVEY OF PENNSYLVANIA.

OUTCROP MAP
OF THE
FREEPORT LOWER COAL BED
IN THE
HOUTZDALE-PHILPSBURG
BITUMINOUS COAL BASIN
OF
CLEARFIELD CO., PENNA.
By H.M. CHANCE.

Railroad alignments, from notes furnished by Mr. C. S. d'Invilliers.
Elevations, mostly barometric, referred to established
railroad levels.
October, 1883.



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