

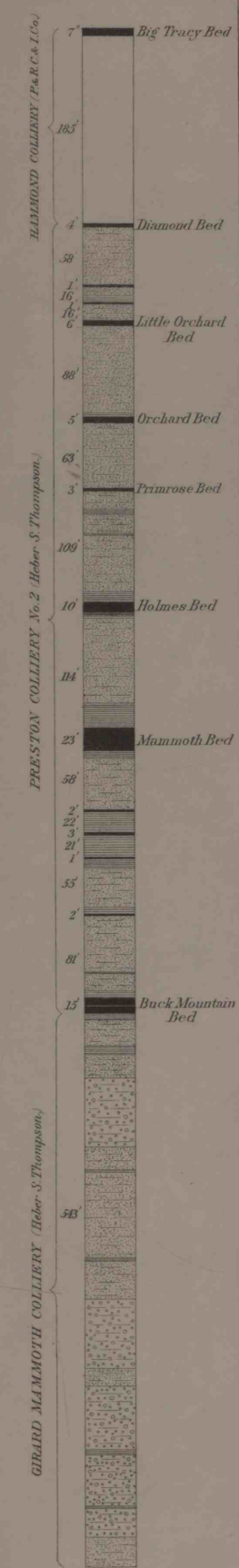
SECOND GEOLOGICAL SURVEY OF PENNSYLVANIA. J.P. LESLEY, STATE GEOLOGIST

ANTHRACITE DISTRICT. CHAS. A. ASHBURNER, GEOLOGIST IN CHARGE.

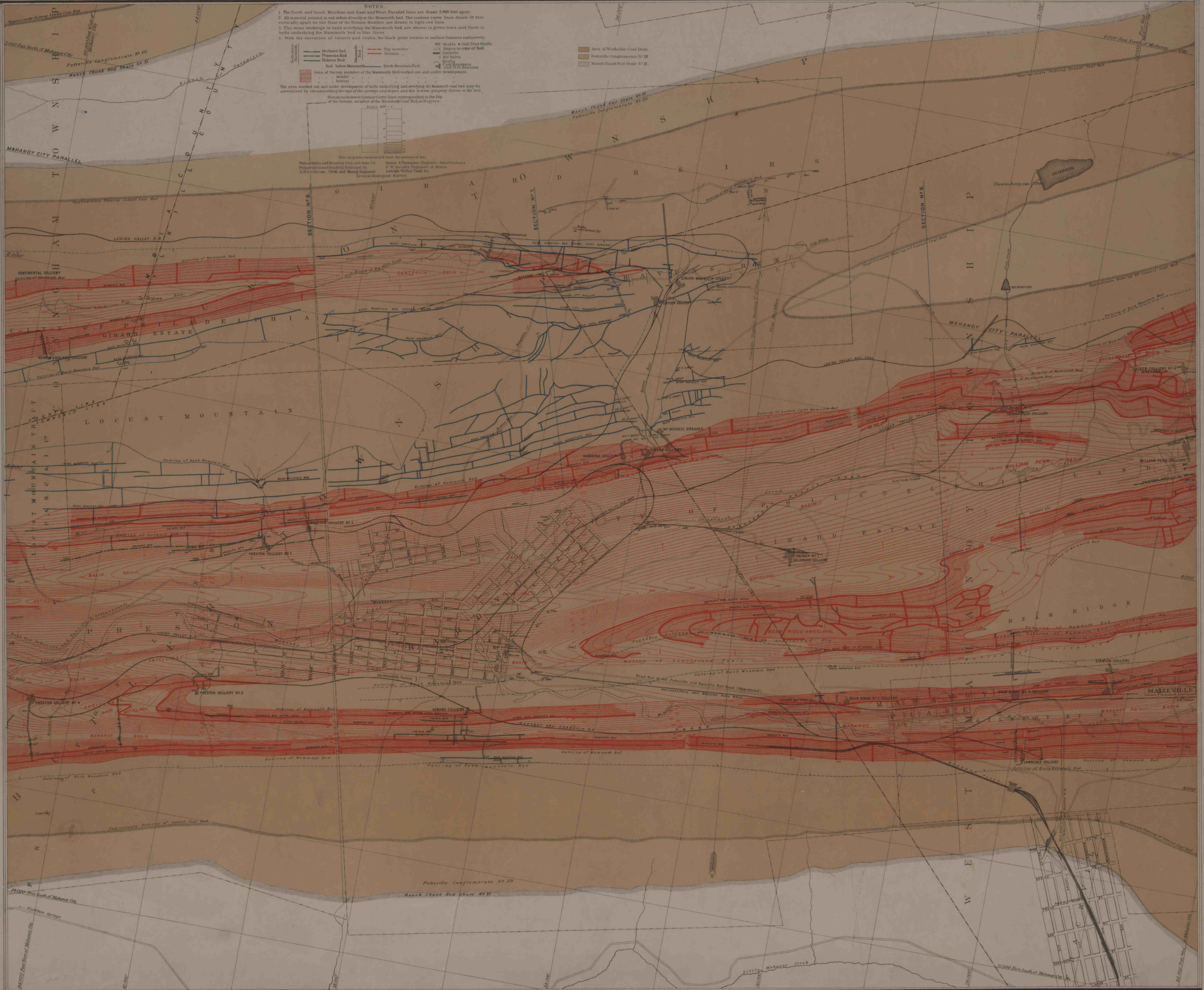
WESTERN MIDDLE COAL FIELD. MINE SHEET No. 11.

CENTRALIA, GIRARDVILLE AND MAHANOV BASINS, SCHUYLKILL AND COLUMBIA COUNTIES.

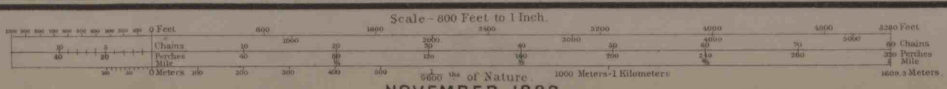
SECTION OF COAL MEASURES
GIRARDVILLE SHEET
HAMMOND PRESTON AND
GIRARD MAMMOTH COLLIERIES



NOTES.
1. The North and South Meridian and East and West Parallel lines are drawn 2000 feet apart.
2. All material printed in red refers directly to the Mammoth bed. The contour curve lines drawn 50 feet vertically apart on the floor of the bottom member are drawn in light red lines.
3. The mine workings in beds overlying the Mammoth bed are shown in green lines, and those in beds underlying the Mammoth bed in blue lines.
4. With the exception of tunnels and faults, the black print relates to surface features exclusively.
5. The area worked out and under development of beds underlying and overlying the Mammoth coal bed may be ascertained by circumscribing the tops of the airways and slopes and the lowest gangway driven in the bed. Distances between contour curve lines corresponding to the Dip of the bottom member of the Mammoth coal bed in degrees.



GEOLOGISTS: J.W. SHEAFER, to July 1882. ASSISTANT GEOLOGIST, R.S. SIMS.
JAMES W. SHEAFER, to July 1882. ASSISTANT GEOLOGIST, R.S. SIMS.
AID, RAND BALDWIN.



NOVEMBER 1882.

LANE & HART, STATE PRINTERS.

Girardville Station P. & R. R. 1.64 miles south of Mahanov City
Latitude Mahanov City Center and Main Streets (computed) 40° 48' 43"
Longitude east of Washington 74° 54' 10"