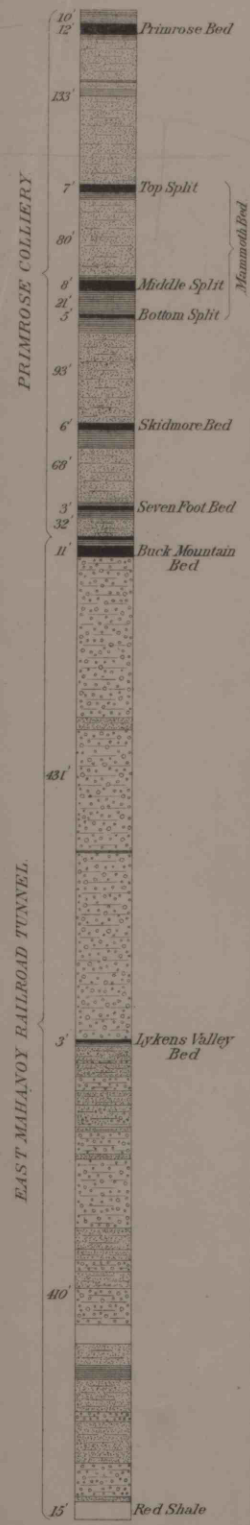


SECOND GEOLOGICAL SURVEY OF PENNSYLVANIA. J.P. LESLEY, STATE GEOLOGIST
ANTHRACITE DISTRICT. CHAS. A. ASHBURNER, GEOLOGIST IN CHARGE.

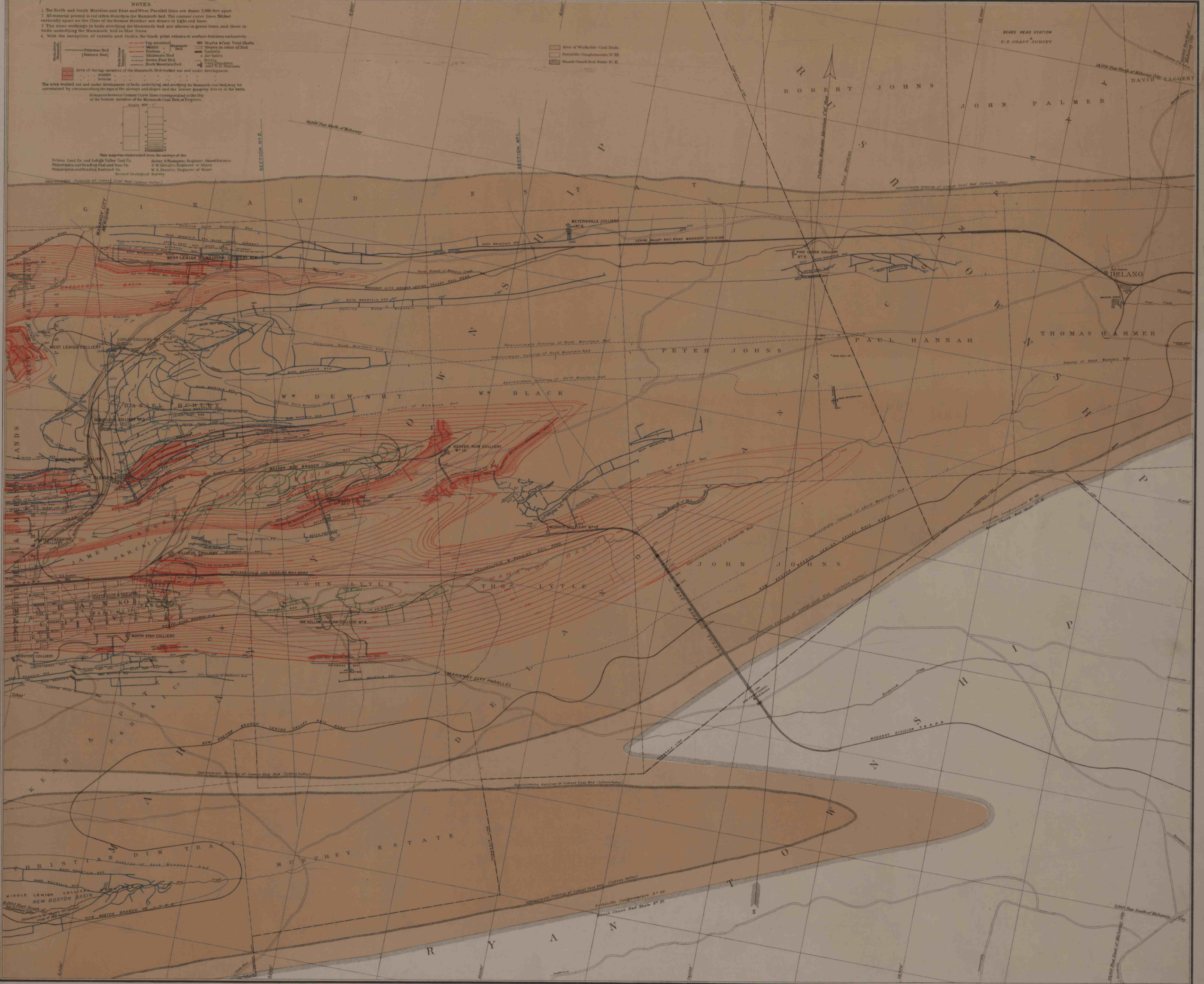
WESTERN MIDDLE COAL FIELD MINE SHEET No. 1

SECTION OF COAL MEASURES
DELANO SHEET.
EAST MAHANOY R.R. TUNNEL
AND PRIMROSE COLLIERY.

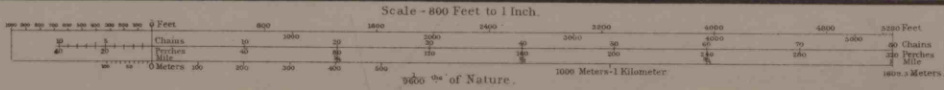


- NOTES.
1. The North and South Meridian and East and West Parallel lines are drawn 2,000 feet apart.
 2. All material printed in red refers directly to the Mammoth bed. The contour curve lines 50 feet vertically apart on the floor of the bottom member are drawn in light red lines.
 3. The mine workings 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.
- Area of the top member of the Mammoth bed worked out and under development.
- 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 beds.
- Distance between Contour Curve lines corresponding to the top of the bottom member of the Mammoth bed in degrees.

This map was constructed from the surveys of the
Delano Land Co. and Lehigh Valley Coal Co.
Philadelphia and Reading Coal and Iron Co.
Philadelphia and Reading Railroad Co.
Second Geological Survey



GEOLOGISTS: J.W. SHEAFER, to July 1882. ASSISTANT GEOLOGIST, H.N. SIMS.
AID, RALPH RALPHSTON.



Latitude Mahanoy City Center and Main Streets (compared) 40° 45' 45"
Longitude 75° 45' 45"
Latitude Pottsville Court House (observed) 40° 45' 45"
Longitude 75° 45' 45"

OCTOBER 1882.