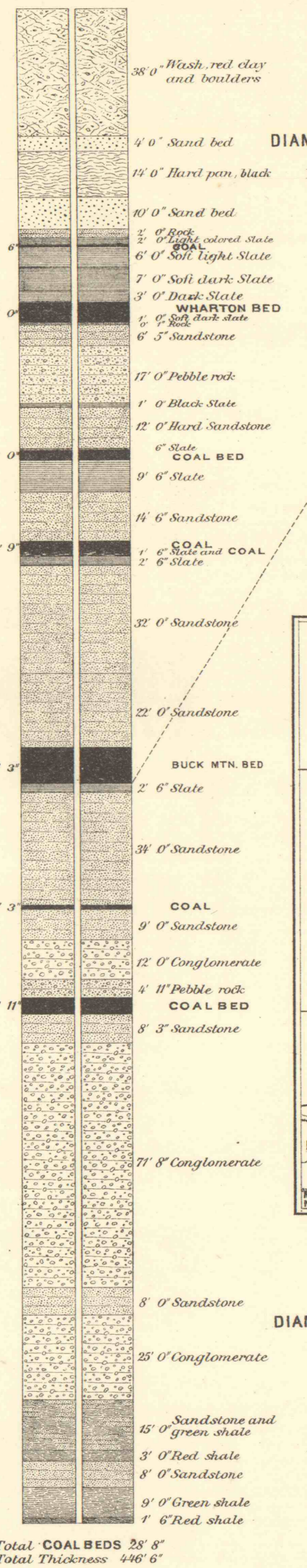
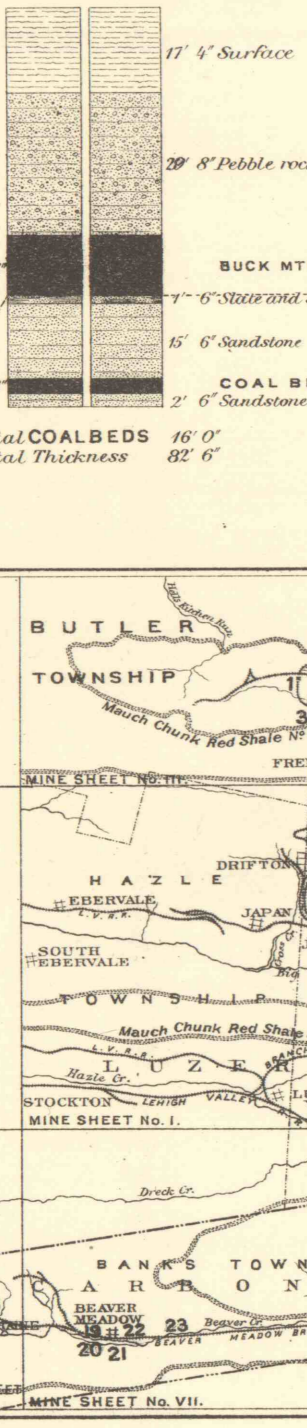


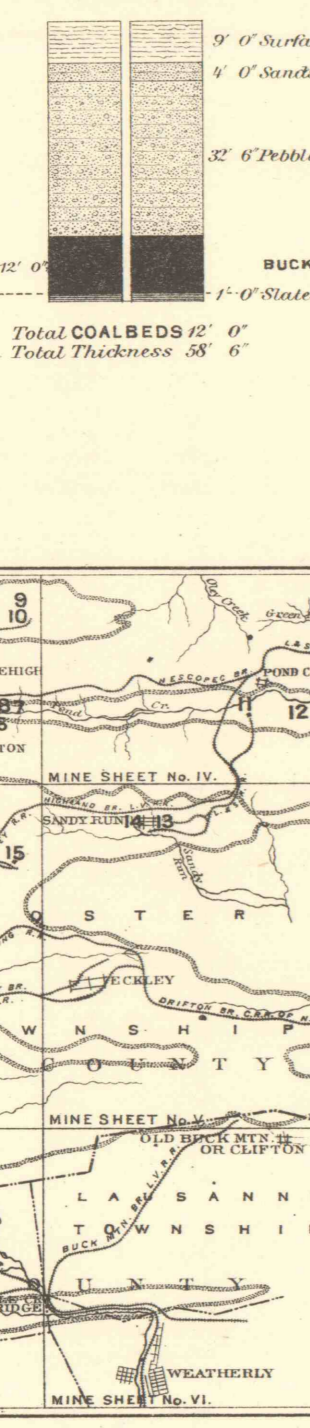
No. 1. Mine Sheet No. III. DIAMOND DRILL BORE HOLE No. 1. THROUGH PILLAR AT BOTTOM OF No. 2. SLOPE. Upper Lehigh Coal Co.



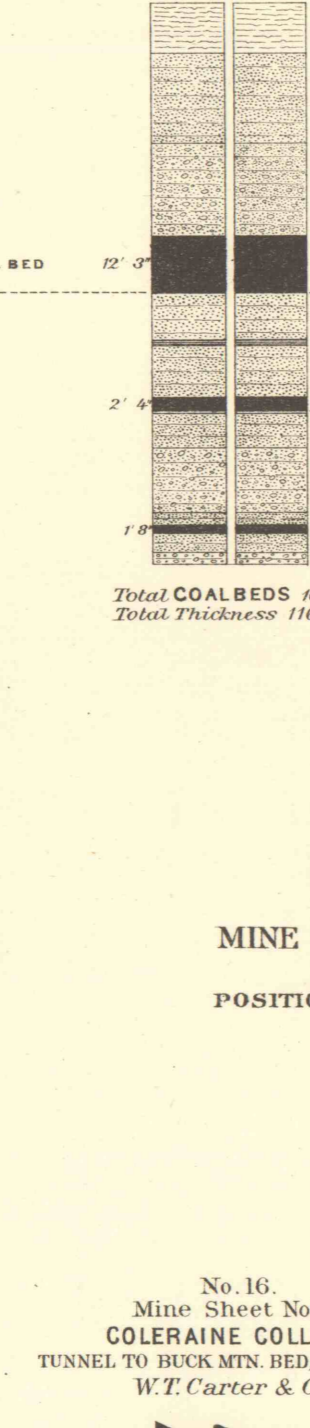
No. 2. Mine Sheet No. III. DIAMOND DRILL BORE HOLE No. 2. 307 S. AND ON LINE OF No. 7. SLOPE IN 'No. 7' BASIN' Upper Lehigh Coal Co.



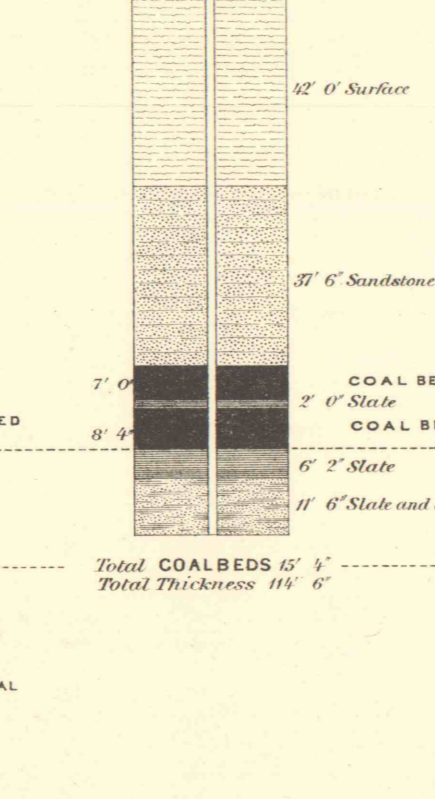
No. 3. Mine Sheet No. III. DIAMOND DRILL BORE HOLE No. 3. 405 S. AND ON LINE OF No. 7. SLOPE IN 'No. 7' BASIN' Upper Lehigh Coal Co.



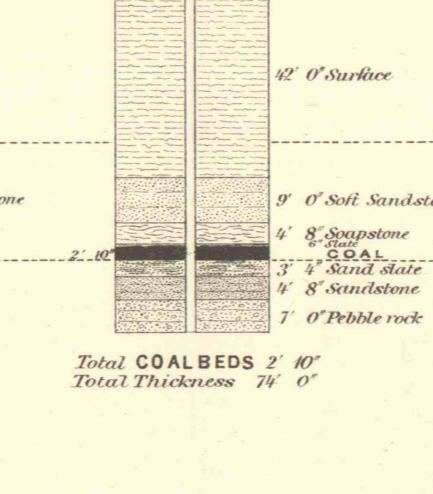
No. 4. Mine Sheet No. III. DIAMOND DRILL BORE HOLE No. 4. 725 S. AND ON LINE OF No. 7. SLOPE IN 'No. 7' BASIN' Upper Lehigh Coal Co.



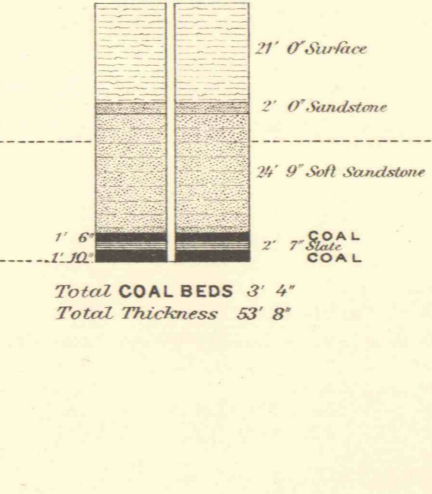
No. 5. Mine Sheet No. III. DIAMOND DRILL BORE HOLE No. 5. 1055 S. 77° E. FROM OLD No. 3. SLOPE. Upper Lehigh Coal Co.



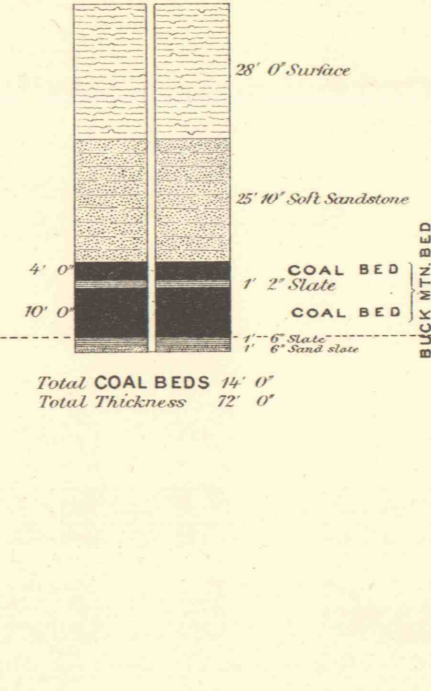
No. 6. Mine Sheet No. III. DIAMOND DRILL BORE HOLE No. 10. 975 S. 56° 45' E. FROM OLD No. 3. SLOPE. Upper Lehigh Coal Co.



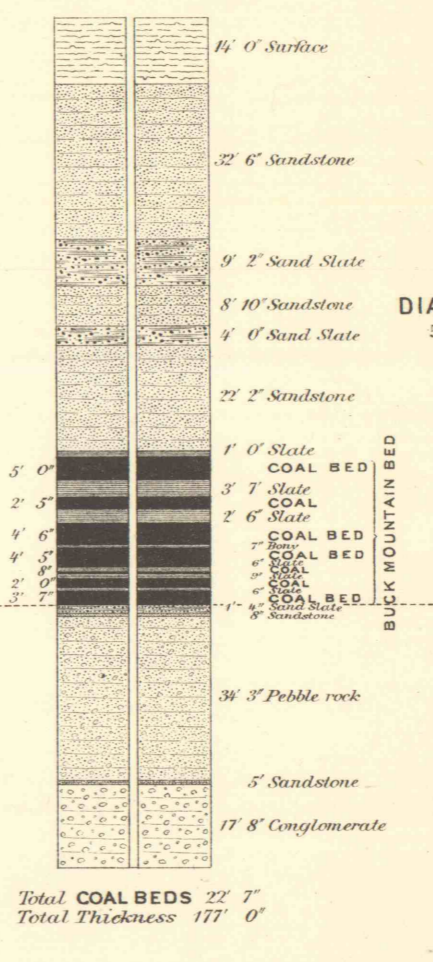
No. 7. Mine Sheet No. III. DIAMOND DRILL BORE HOLE No. 11. 1435 S. 77° E. FROM OLD No. 3. SLOPE. Upper Lehigh Coal Co.



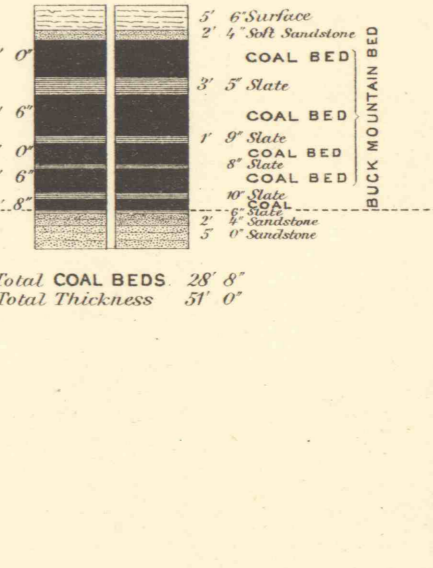
No. 8. Mine Sheet No. III. DIAMOND DRILL BORE HOLE No. 13. 1055 S. 77° E. FROM OLD No. 3. SLOPE. Upper Lehigh Coal Co.



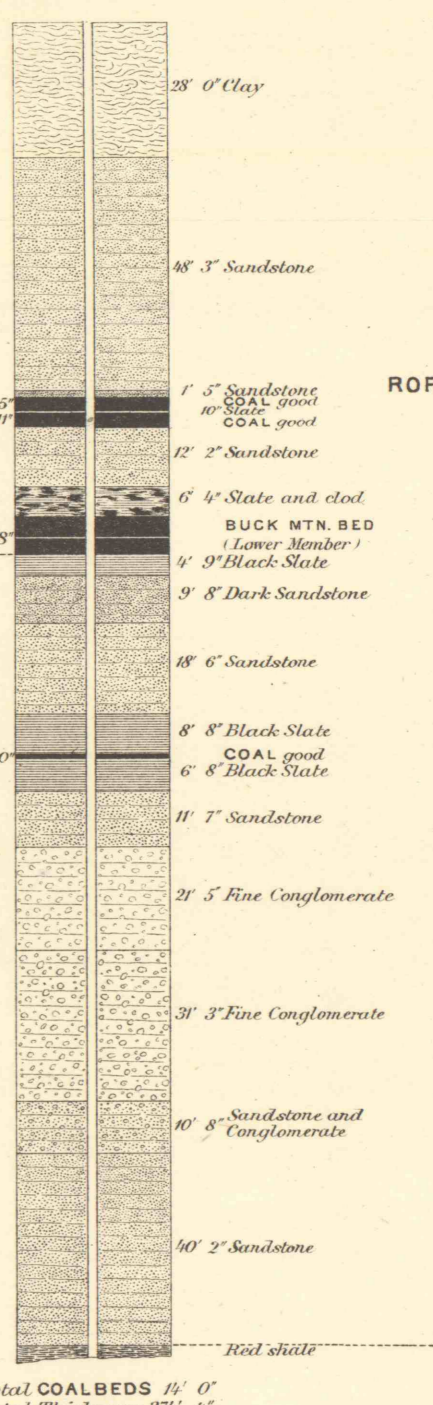
No. 9. Mine Sheet No. III. DIAMOND DRILL BORE HOLE No. 14. IN PILLAR WEST OF No. 5. SLOPE. CENTER OF 'No. 5' BASIN'. Upper Lehigh Coal Co.



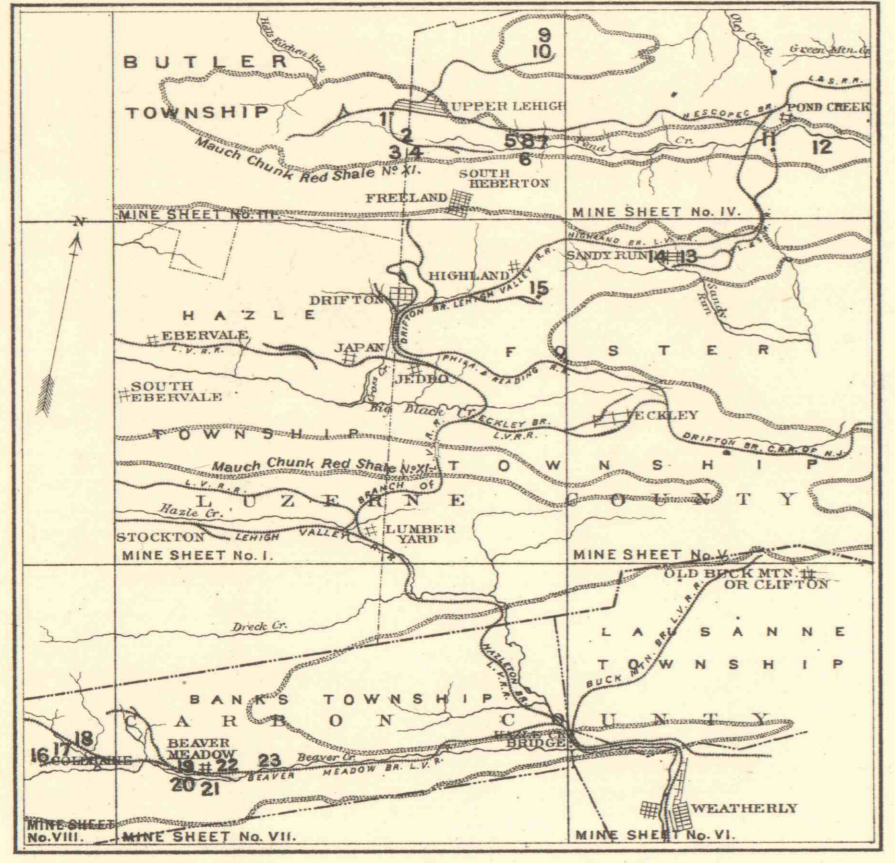
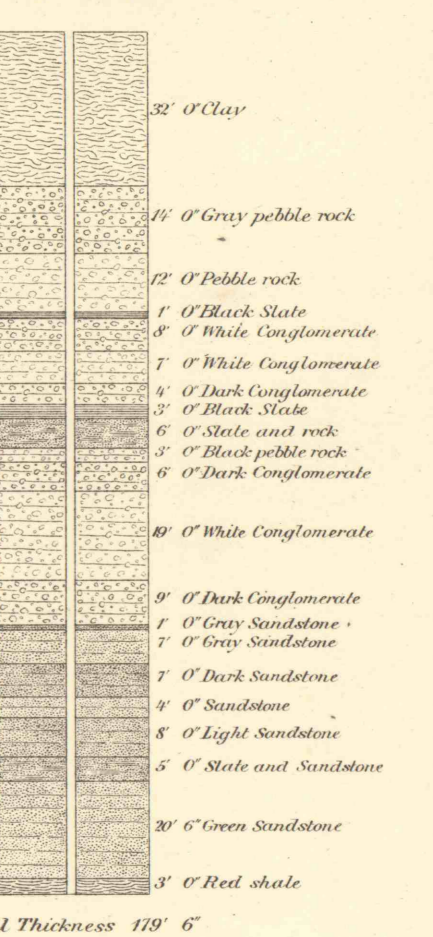
No. 10. Mine Sheet No. III. DIAMOND DRILL BORE HOLE No. 15. 565 S. 52° 30' W. FROM No. 5. SLOPE. Upper Lehigh Coal Co.



No. 11. Mine Sheet No. IV. ROPE DRILL BORE HOLE No. 1. POND CREEK EAST OF SLOPE No. 1. 490 N. OF MOUTH OF No. 2. SLOPE. M. S. Kemmerer.



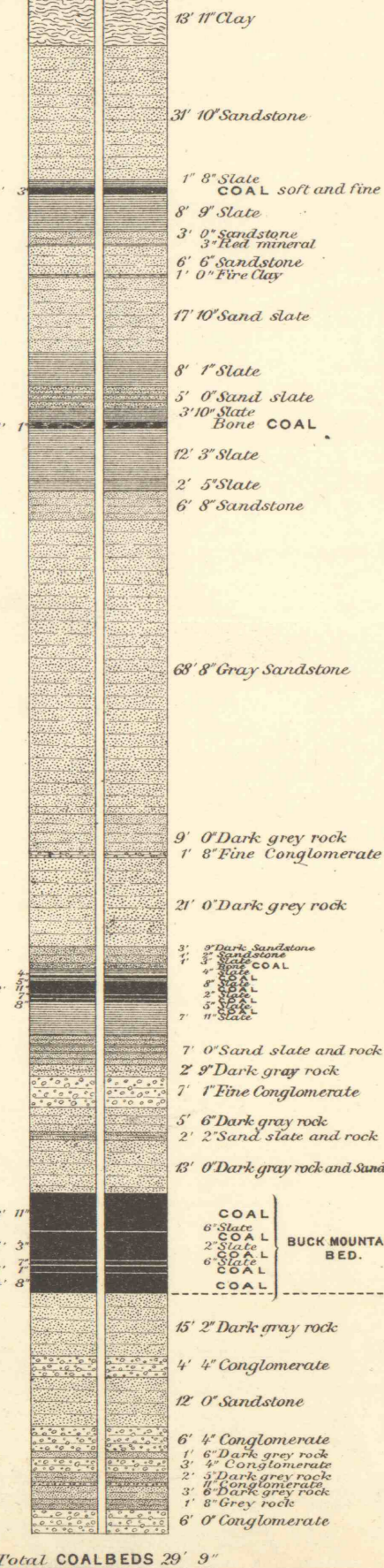
No. 12. Mine Sheet No. IV. ROPE DRILL BORE HOLE No. 2. POND CREEK EAST OF SLOPE No. 1. M. S. Kemmerer.



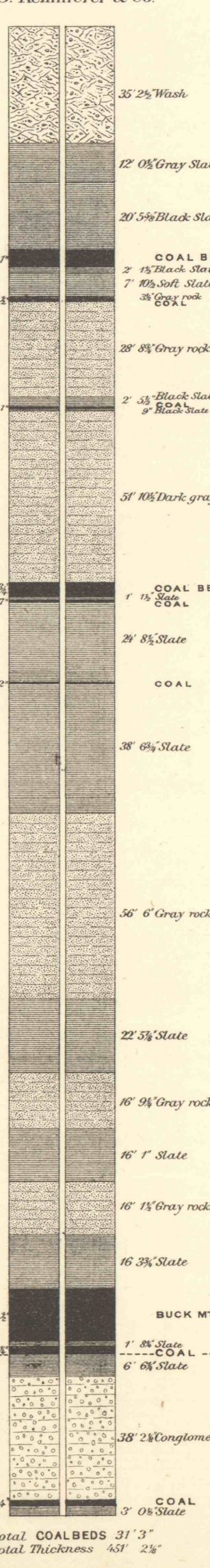
SKELTON MAP OF MINE SHEET No. I AND A PORTION OF MINE SHEETS Nos. III, V, VI, VII AND VIII SHOWING THE POSITION OF THE COLUMNAR SECTIONS ON SHEET IV. Scale, 2 miles to 1 inch.

NOTES. 1. The strata composing some of these sections have been named locally and consequently a similarity of name does not necessarily indicate a similarity in the character of the strata and vice versa. 2. Section No. 10 was measured by the geological Survey and to it No. 1 does not apply. 3. Sections Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10 were constructed from the records of the Upper Lehigh Coal Co. No. 11 and 12 from those of M. S. Kemmerer Nos. 13 and 14 from those of M. S. Kemmerer & Co. No. 15 from those of G. B. Markle & Co. and Nos. 17, 18, 19, 20, 21, 22 and 23 from the records of Coxo Bros. & Co. 4. The thicknesses assigned to the individual strata are the true thicknesses perpendicular to the bedding. The thicknesses of the coal beds are shown as cut in the bore-hole, or tunnel which the section represents and do not necessarily show the average thickness of the beds where worked at other points. 5. The thickness of the coal beds shown in these sections does not represent the thickness of the coal alone, but includes the refuse material of the bed.

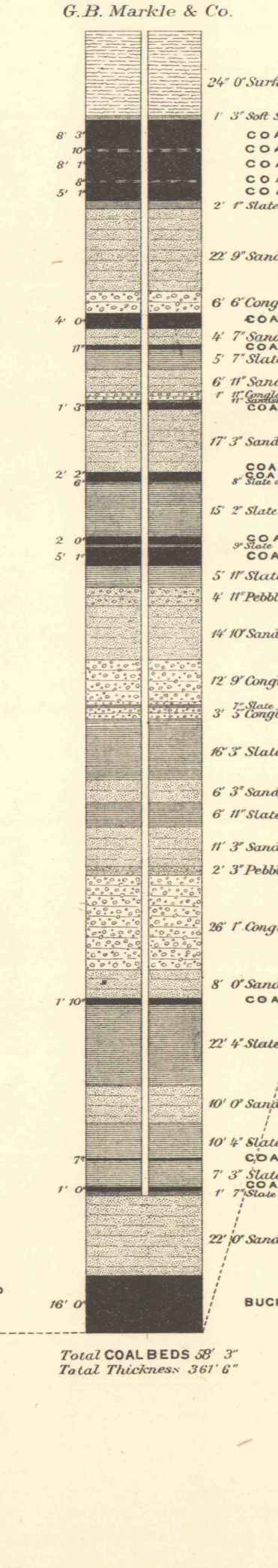
No. 13. Mine Sheet No. V. DIAMOND DRILL BORE HOLE No. 1. SANDY RUN COLLIERY. M. S. Kemmerer & Co.



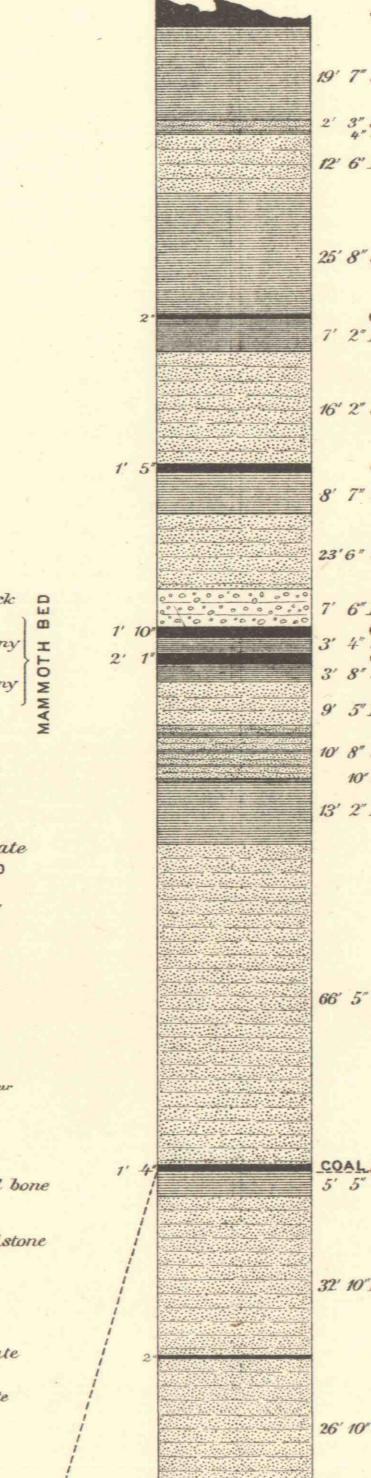
No. 14. Mine Sheet No. V. DIAMOND DRILL BORE HOLE No. 2. SANDY RUN COLLIERY. 1290 W. OF SLOPE No. 4. CENTER OF BASIN. M. S. Kemmerer & Co.



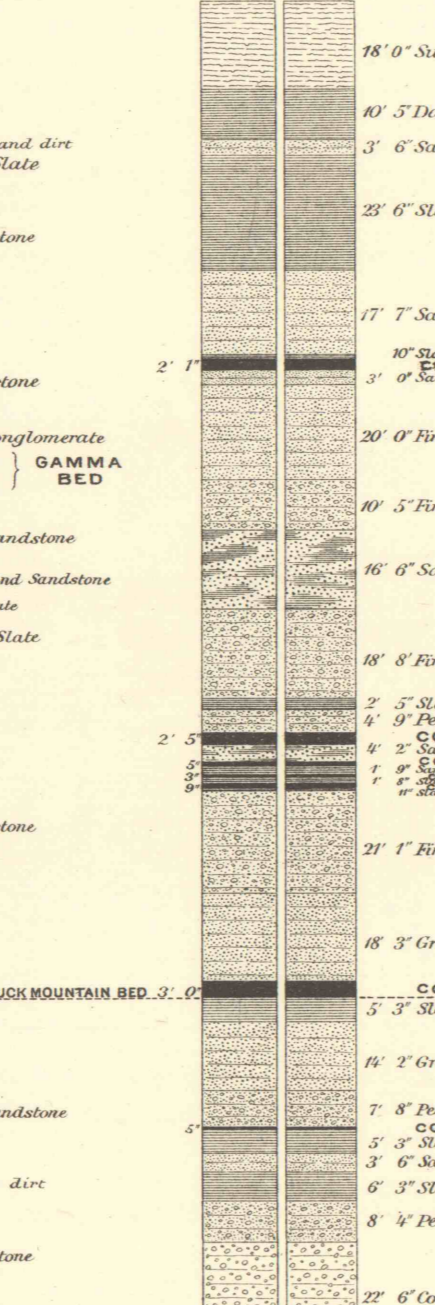
No. 15. Mine Sheet No. I. DIAMOND DRILL BORE HOLE No. 1. HIGHLAND COLLIERY. FOOT OF INSIDE SLOPE No. 2. CENTER OF BASIN. G. B. Markle & Co.



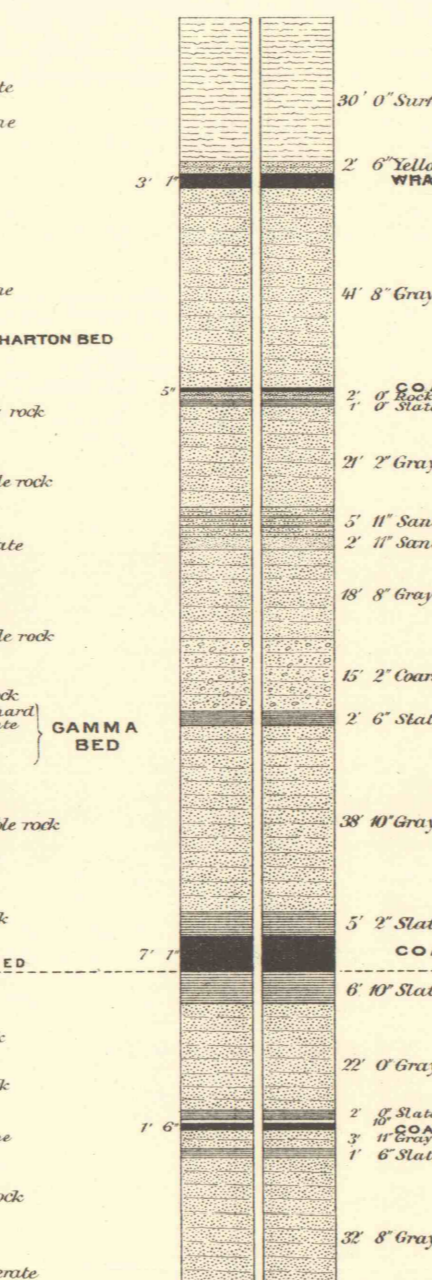
No. 16. Mine Sheet No. VIII. COLERAINE COLLIERY. TUNNEL TO BUCK MTS. BED. No. 4 SLOPE. W. T. Carter & Co.



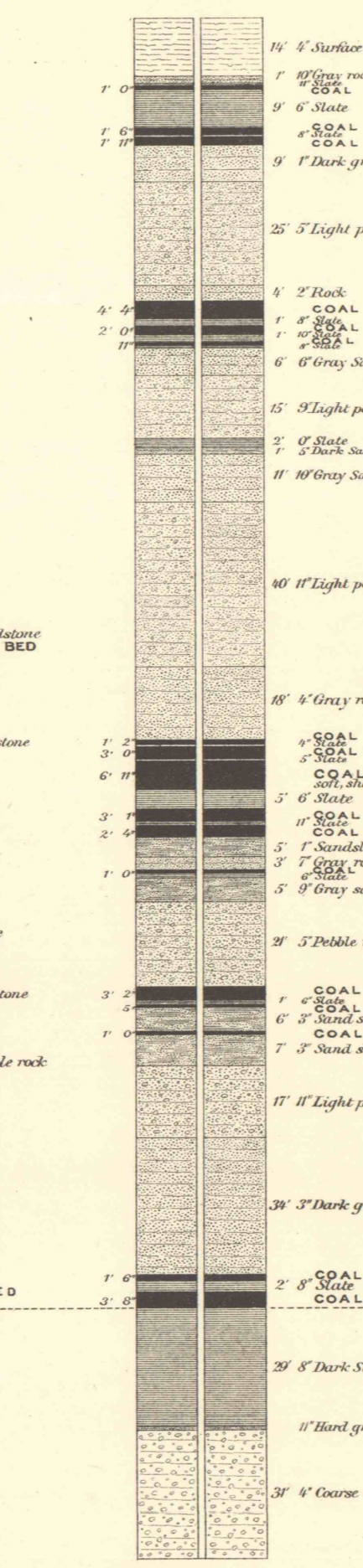
No. 17. Mine Sheet No. VIII. DIAMOND DRILL BORE HOLE No. 67. BEAVER MEADOW NEAR WATER STATION. No. 3. Coxo Bros. & Co.



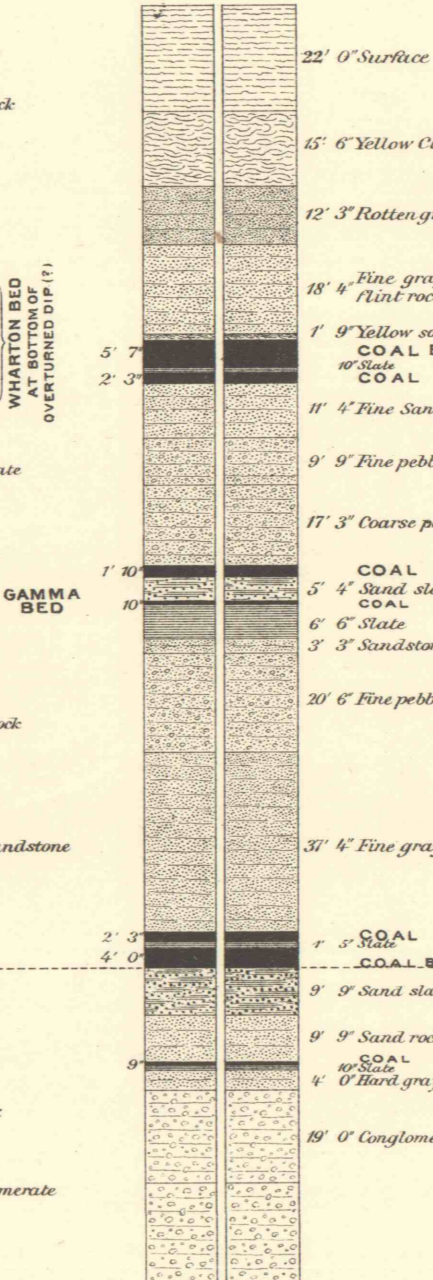
No. 18. Mine Sheet No. VIII. DIAMOND DRILL BORE HOLE No. 66. BEAVER MEADOW NEAR WATER STATION. No. 3. Coxo Bros. & Co.



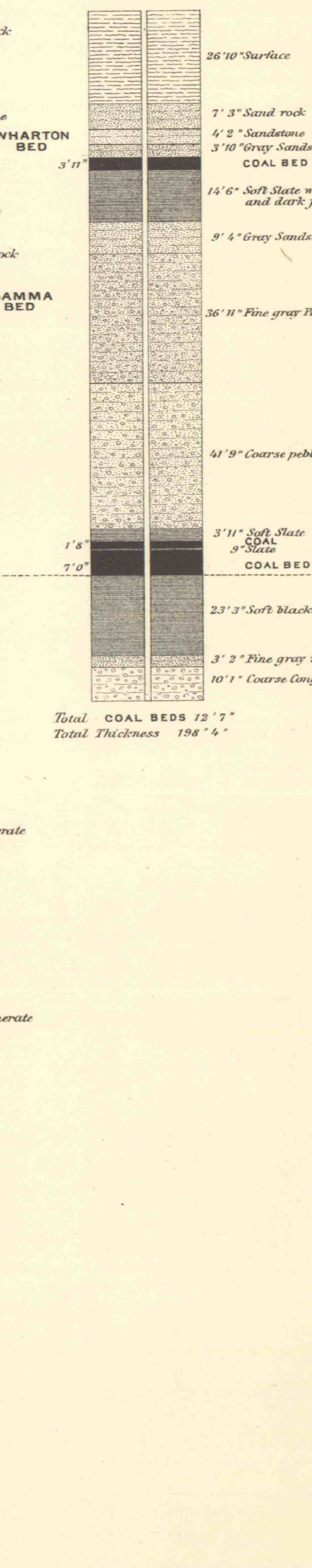
No. 19. Mine Sheet No. VII. DIAMOND DRILL BORE HOLE No. 65. BEAVER MEADOW ON TOP OF JONAH REESE SLOPE. Coxo Bros. & Co.



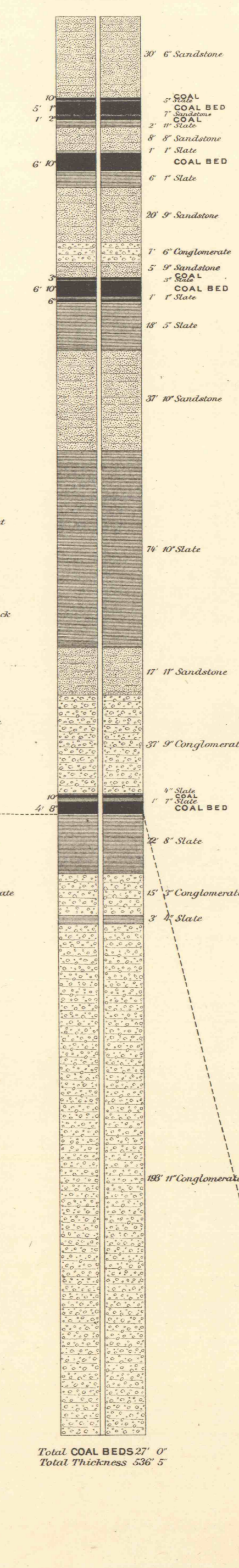
No. 20. Mine Sheet No. VII. DIAMOND DRILL BORE HOLE No. 68. BEAVER MEADOW NEAR WATER STATION. No. 3. Coxo Bros. & Co.



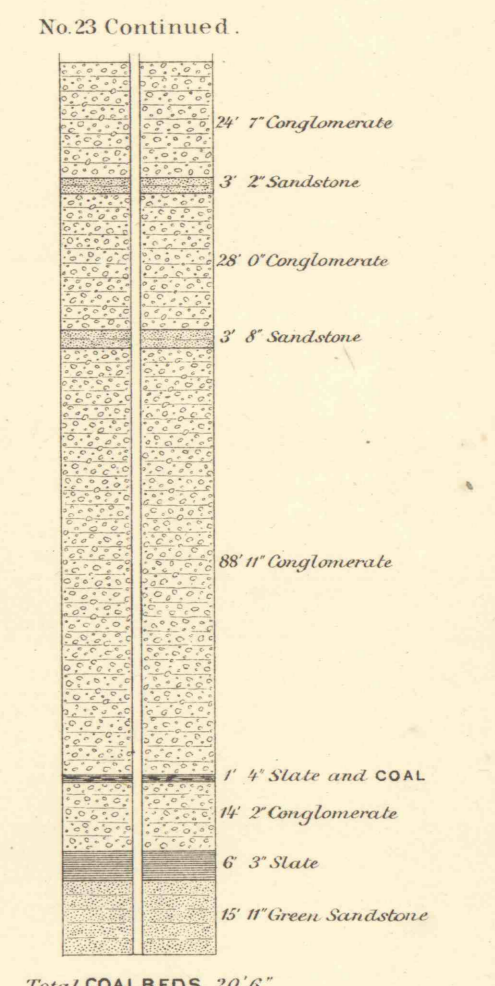
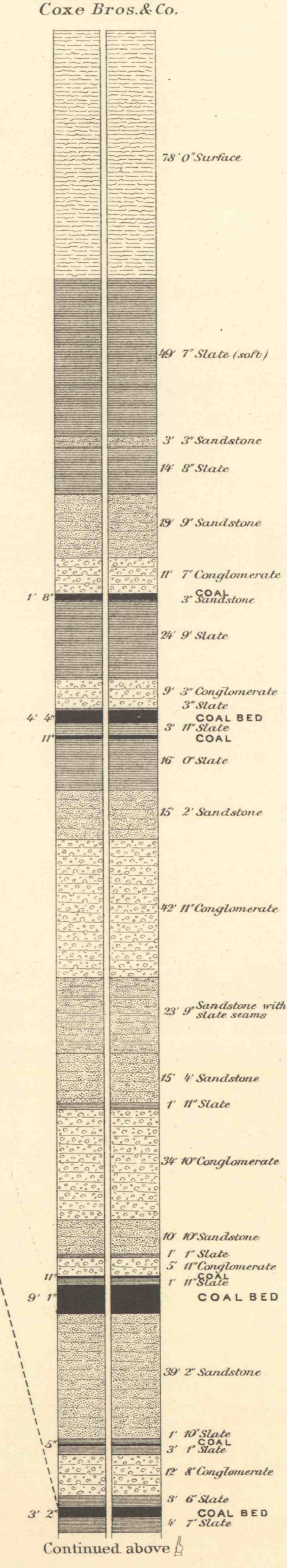
No. 21. Mine Sheet No. VII. DIAMOND DRILL BORE HOLE No. 69. BEAVER MEADOW ON NORTH LINE OF DUSTEDMAN TRACT. Coxo Bros. & Co.



No. 22. Mine Sheet No. VII. DIAMOND DRILL BORE HOLE No. 61. BEAVER MEADOW NEAR WATER STATION. AND 30' N. OF TRACK. Coxo Bros. & Co.



No. 23. Mine Sheet No. VII. DIAMOND DRILL BORE HOLE No. 60. BEAVER MEADOW NEAR WATER STATION. AND 15' N. OF TRACK. Coxo Bros. & Co.



COLUMNAR SECTIONS OF THE COAL MEASURES IN THE VICINITY OF UPPER LEHIGH, POND CREEK, SANDY RUN, HIGHLAND COLERAINE AND BEAVER MEADOW LUZERNE AND CARBON COUNTIES

CONSTRUCTED FROM MEASUREMENTS OBTAINED FROM THE COMPANIES NAMED IN THE INDIVIDUAL TITLES, AND FROM THOSE MADE BY THE GEOLOGICAL SURVEY

Scale: 40 feet to 1 inch.