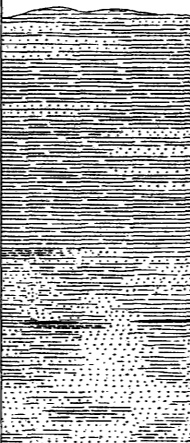
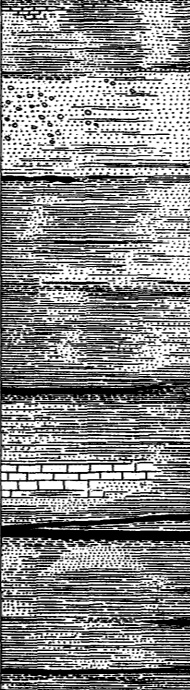
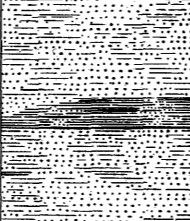
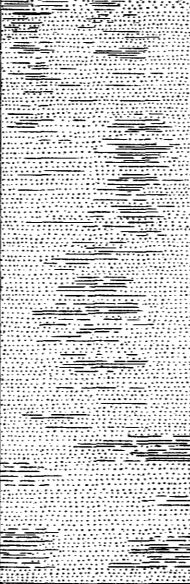
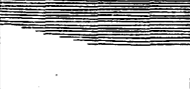


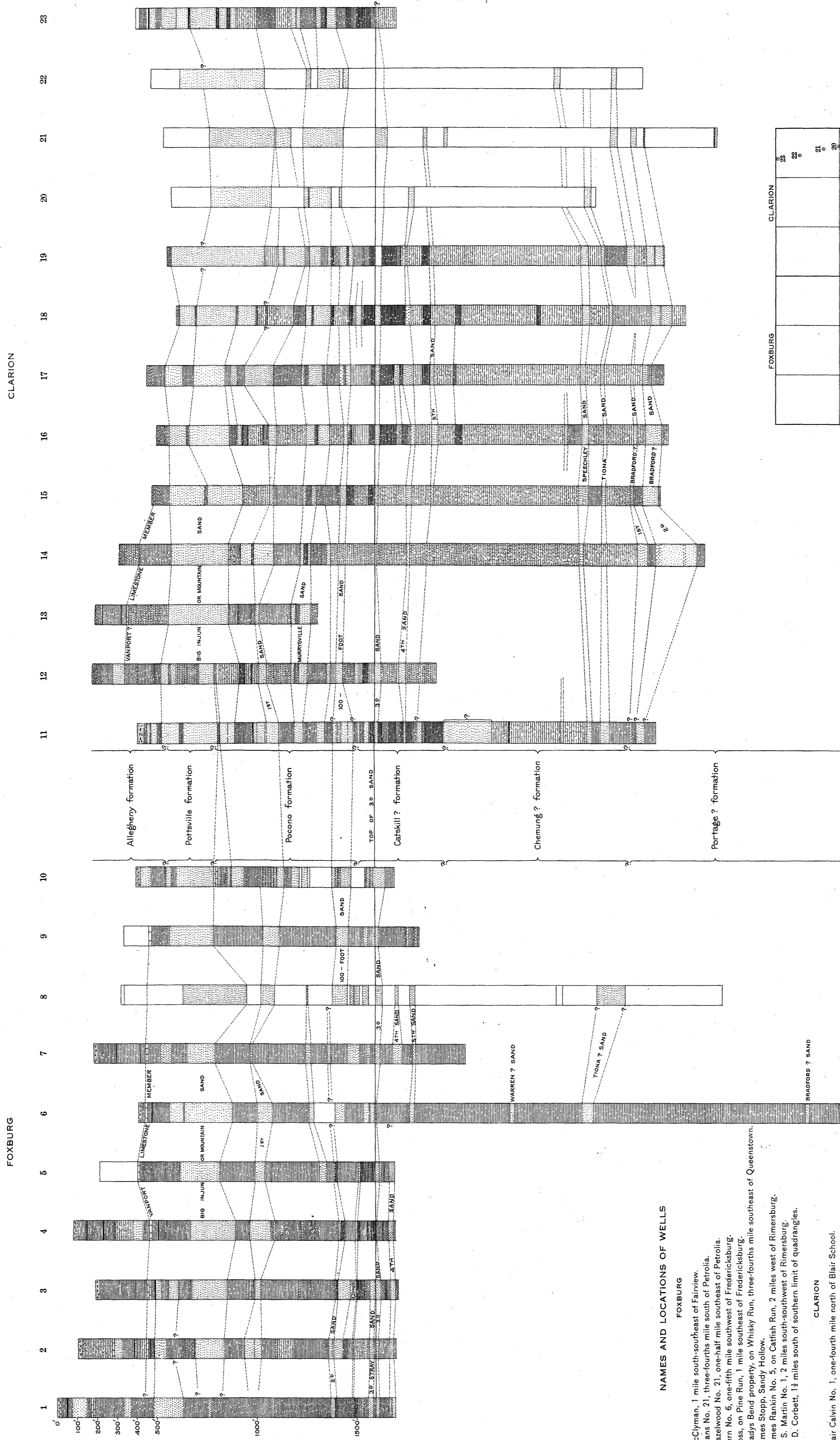
COLUMNAR SECTION

GENERALIZED SECTION OF THE ROCKS EXPOSED IN THE FOXBURG AND CLARION QUADRANGLES.
SCALE: 1-INCH=100 FEET.

SYSTEM.	SUBDIVISION.	GROUP.	FORMATION.	SYMBOL.	SECTION.	THICKNESS IN FEET.	MINOR DIVISIONS.	CHARACTER AND DISTRIBUTION OF MINOR DIVISIONS.	GENERAL CHARACTER OF FORMATION.	
CARBONIFEROUS	PENNSYLVANIAN		Conemaugh formation.	Cem		280-	Mahoning sandstone member (upper part).	Coal of good quality, but local. Brown, heavy and conglomeratic to shaly; variable in development.	More or less sandy olive to gray shale with thin to thick beds of sandstone, sometimes conglomeratic, thin coal, and clay.	
						(0-8)	Mahoning coal. Mahoning sandstone member (lower part).			
			Allegheny formation.	Ca		(0-7)	Upper Freeport coal. Upper Freeport clay. Upper Freeport limestone member.	345-370	Excellent coal, low in sulphur and other impurities. Generally gray, plastic; locally dirt clay. Both above and below limestone. Light-gray limestone, generally thin but in places thick and of good quality. In western part of area commonly split by a parting of clay or shale. Thick-bedded yellowish to dark-gray clay. Very local.	Iron-bearing shale, fine-grained to conglomeratic sandstone, limestone, and valuable beds of coal and clay.
						(0-13)	Lower Freeport coal. Lower Freeport clay. Lower Freeport limestone member. Freeport sandstone member.		Generally coarse, very resistant sandstone or fine conglomerate.	
							Upper Kittanning coal. Upper Kittanning clay. Thin coal.		Local, but its horizon usually marked by a trace of coal or under clay. Dark gray, plastic clay. Possibly a split from Middle Kittanning coal north of Rimerburg.	
	Middle Kittanning coal. Middle Kittanning clay.	Good coal, but thin; present over most of area. Generally sandy gray clay.								
Pottsville formation.	Cpv			Lower Kittanning coal. Lower Kittanning clay. Kittanning sandstone member.		Excellent coal in southern two-thirds of quadrangles; uniform in thickness. Gray to white, generally plastic; 64 feet in northern half of Clarion quadrangle.	Resistant sandstone with irregular beds of shale. Equivalent to the uppermost beds of the Pottsville in the type locality.			
				Vanport limestone member.	Gray fossiliferous limestone.					
				Upper Clarion coal. Upper Clarion clay. Lower Clarion coal. Lower Clarion clay. Clarion sandstone member. Craigs ville coal. Brookville coal.	Sulphurous; probably a split from the Lower Clarion coal. White plastic clay; local. Generally workable and persistent; contains pyrite. White, yellow, or gray clay, generally plastic, and over 5 feet thick. Coarse resistant thick-bedded to massive gray or pinkish sandstone. Well developed along Bear Run and locally elsewhere. Locally attains minable thickness but is sulphurous. Generally good coal but thin; at some places it resembles cannel coal.					
UNCONFORMITY										
MISSISSIPPIAN	POCONO		Burgoon sandstone.	Cbg		810			Fine, more or less impure sandstone with thin to very thick lenses of shale.	
			Cuyahoga formation.			35+	Meadville shale member.		Hard gray shale with pebbles near top.	

SECTIONS OF DEEP WELLS IN THE FOXBURG AND CLARION QUADRANGLES

SCALE: 1 INCH = 400 FEET



NAMES AND LOCATIONS OF WELLS

- FOXBURG**
- McClaman, 1 mile south-southeast of Fairview.
 - Evans No. 21, three-fourths mile south of Petrolia.
 - Pitzerwood No. 21, one-half mile southeast of Petrolia.
 - Kern No. 6, one-fifth mile southwest of Frederickburg.
 - Boss, on Pine Run, 1 mile southeast of Frederickburg.
 - Brady Bend property, on Whiskey Run, three-fourths mile southeast of Queenstown.
 - James Stopp, Sandy Hollow.
 - James Rankin No. 5, on Catfish Run, 2 miles west of Rimersburg.
 - J. S. Martin No. 1, 2 miles south-southwest of Rimersburg.
 - J. D. Corbett, 1 1/2 miles south of southern limit of quadrangles.
- CLARION**
- Blair Calvin No. 1, one-fourth mile north of Blair School.
 - George Delp, one-half mile east of Oakgrove Church.
 - C. A. Spindler, one-half mile southeast of Piolett.
 - Wm. Sheridan, three-fourths mile southwest of Leatherwood Church.
 - M. T. Bodanorn, at head of Glade Run, 1 1/2 miles south-southwest of Frogtown.
 - A. A. Stewart, on Sisan Run, one-half mile south of Oak Hall School.
 - G. E. and G. R. Spurr, 1 mile east-northeast of Greenville.
 - Stewart Snyder, one-half mile east of Pinegrove School.
 - John Moyer No. 1, one-half mile southwest of Henderson.
 - J. Frank Ross No. 1, two-thirds mile north-northeast of Waterson.
 - Wm. Knight No. 1, one-half mile west-northwest of Maplegrove School.
 - George Wood No. 1, 1 1/2 miles northeast of Mill Creek.

FOXBURG		CLARION	
1	2	10	11
3	4	12	13
5	6	14	15
7	8	16	17
9	10	18	19
11	12	20	21
13	14	22	23

DIAGRAM SHOWING LOCATIONS OF DEEP WELLS IN THE FOXBURG AND CLARION QUADRANGLES AND VICINITY

DRILLERS' TERMS

- Sandstone
- Shale
- Red shale
- Slate and shells
- Limestone
- Coal