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GEOLOGIC MAP
OF
EQUALITY-SHAWNEETOWN AREA
 (PARTS OF GALLATIN AND SALINE COUNTIES)
ILLINOIS
 BY CHARLES BUTTS
 SURVEYED IN COOPERATION WITH
U. S. GEOLOGICAL SURVEY
 TOPOGRAPHIC MAPPING IN 1913-1914 GEOLOGIC MAPPING IN 1917-1918
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COLUMNAR SECTION
GENERALIZED SECTION OF THE ROCKS
 In the Equality-Shawneetown Area
 Scale: 1 inch=400 feet

FORMATION	THICKNESS IN FEET	MINOR DIVISIONS	GENERAL CHARACTER OF FORMATIONS
Recent	0-10	Alluvium	Silt, sand and gravel.
Pleistocene	0-10	Lake beds	Generally fine, compact earth, transported and deposited by wind.
Quaternary	0-10	Gravel	Clay, silt sand, and gravel deposited in glacial lake of Wisconsin age.
PENNSYLVANIAN	0-100	Geiger Lake coal	Great of chert and vein quartz, well rounded and highly polished.
	100-1000	Thin coal	
	1000-1000	Thin coal	
	1000-1000	Thin coal	
	1000-1000	New Haven (?) limestone of Illinois Geological Survey	The portion of the McLeansboro above the New Haven (?) limestone has been eroded from this area. In Kentucky it occurs in its full thickness.
	1000-1000	Thin coal	
	1000-1000	Carlinville limestone member	Shale and sandstone mostly. Some thin beds of limestone; some thin chert, a number of thin coal beds of no present commercial importance.
	1000-1000	Limestone	
	1000-1000	Amol Rock sandstone member, Par	
	1000-1000	Cincinnati limestone	
MISSISSIPPIAN	1000-1000	St. Louis limestone	Thinly bedded, blue, and ferruginous yellow limestone; shale with thin limestone layers as many as 10 feet thick, one of which may represent the Dipetean sandstone of Illinois County. Highly fossiliferous. A coal bed about 18 inches thick in bottom, locally at least.
	1000-1000	Thin coal	
	1000-1000	Thin coal	
	1000-1000	Thin coal	
	1000-1000	Thin coal	
	1000-1000	Thin coal	
	1000-1000	Thin coal	
	1000-1000	Thin coal	
	1000-1000	Thin coal	
	1000-1000	Thin coal	
DEVONIAN	1000-1000	Chert	Chert on weathered surface. Black fine grained limestone so far as seen in the field exposure. Chert, especially, banded by much iron. Color reddish, pinkish, yellowish and grayish tints. Very sparsely fossiliferous.
	1000-1000	Chert	
	1000-1000	Chert	
	1000-1000	Chert	
	1000-1000	Chert	
	1000-1000	Chert	
	1000-1000	Chert	
	1000-1000	Chert	
	1000-1000	Chert	
	1000-1000	Chert	

LEGEND

QUATERNARY

- Recent: Slope wash and alluvium (silt, sand and gravel. Black from slope around margins of high ground)
- Pleistocene: Lake beds (silt, clay and gravel. Undifferentiated from modern alluvium)
- McLeansboro formation: (shale and sandstone with a little limestone, and thin coal beds. Amol Rock sandstone member, Par, at or near bottom)
- Carbondale formation: (shale, sandstone, a little limestone and thin coal beds. Horria coal, Par; Murphycreek, Par; De Koven coal, De; and Davis coal, D. Main coal-bearing formation of the State)
- Traverse formation: (shale, sandstone, a little limestone and thin coal beds. Carlinville limestone member, Pci; Willis coal, W; and Geiger Lake sandstone member, G)
- Caseville sandstone: (thick-bedded conglomerate, thin-bedded sandstone and shale, and thin coal beds)
- Kinkaid and Clore limestones: (limestone, shale, a little sandstone; thin bed at bottom)
- Palestine sandstone: (mainly thin-bedded sandstone)
- Menard and Vienna limestones: (pure blue limestone with some shale)
- Undivided: (including Palestine sandstone to Bethel sandstone, the Genesee and St. Louis limestones included in one small area. In part refers to chert on which map is not)
- St. Genevieve limestone: (thick-bedded and shaly. Bethel, Clore and Clara members, if present, are included in the St. Genevieve on map)
- St. Louis limestone: (dark, fine-grained, non-oolitic limestone)
- Spergen (?) and Warsaw limestones: (locally dark, fine-grained and shaly limestone; some coarse-grained, light gray limestone at top)
- Osgage limestone: (probably dark limestone; all chert on weathered surface; slightly fossiliferous. Chattanooga shales included in one small area)

ECONOMIC AND STRUCTURE DATA

- Outcrop of coal beds: (broken lines show approximate outcrop on the rock face; more deeply bedded beneath outcrop of lake beds and where location is doubtful)
- Horria: hr
- Harrisburg: hg
- De Koven: dk
- Davis: d
- Murphycreek: mc
- Willis: wi

Structure contours on the top of the Harrisburg coal (contour interval 100 feet in western part of area; 50 feet in northern part. Datum mean sea level)

Asses of anticlines and synclines (arrows show direction of dip)

Faults (dotted where concealed)

Strike and dip of stratified rocks

Vertical beds and strike of stratified rocks

X10 Mines

X5 Pits

Numbers refer to coal sections on Plate III

Drill holes

