

GENERALIZED SECTION OF STRATA IN THE ALEXIS QUADRANGLE

PENNSYLVANIAN CENE TO System	T Peorian Illinoia Yarmou Kansan			0	mum 20+	
	Yarmou			6	20	Alluvial silt, sand, and gravel; slope-wash and soil Loess; fine silt or sand; gray or buff
	Kansan			0	4 85 ?	Soil and silt, noncalcareous; contains plants and other fossils Till, blue-gray where fresh; gumbotil in upper part Soil, silt or sand, with some gravel; sand is noncalca-
ENNSYLVANIAN		Carbon-		0	30 ? 50 ?	Soil, silt or sand, with some gravel; sand is noncalcareous, cross-bedded, reddish; contains logs and other fossils Till, bouldery, dark in color; gumbotil in upper
ENNSYLV	Osage	dale Pottsville Burlington		0	50	part Suite V—Pleasantview sandstone, underclay, coal, clay or shale
Š				13	37	Suite IV—Colchester (No. 2) coal and associated strata: shale, limestone, shale, coal, underclay, and sandstone Suite III—Gilchrist shale and other undiffer—
<u>a</u>				30	145	entiated sandstones, shales, underclays, and coals Suite II—Rock Island (No. 1) coal and associated strata;
				5	47	Suite II—Rock Island (No. 1) coal and associated strata; shale, limestone, shale, coal, underclay, and "Stigmarian" sandstone Suite I—Undifferentiated sandstones, shales,
	Osage	Darmigeon		$\sqrt{\frac{50}{0}}$	80	underclays, limestones, and coals Limestone, coarsely crystalline, gray; cherty
PIAN	×	Hannibal		0	110	Shale, soft, light greenish-gray
MISSISSIPPIAN	Kinderhook					
MISS		Sweetland Creek		0	140	Shale, brownish-gray; contains Sporangites huronense
						naronense
N A	Niagaran Senecan	Wapsipinicon and Cedar Valley				
DEVONIAN				94	165	Limestone; some beds thin, some massive; some horizons shaly, others dolomitic; chert
						locally abundant
N.						
ILURI				195	200	Dolomite and dolomitic limestone, cherty, fine-
S				120	200	grained, crystalline, massive, gray
		Maquoketa				Shale, calcareous, gray or brown, interbedded with dolomitic limestone. A dolomitic limestone member 15-30 feet thick persists near the middle of the formation. Shale is more dolomitic below than above
	Cincinnatian			192	92 215	
	Mohawkian					Galena-limestone, dolomitic, coarsely crys-
-						
		Galena		287	326	talline massive grav weathers vellow and
				201	020	sandy: Platteville — limestone, dolomitic, brownish-gray, thin beds with thin shale partings. A thin shale member 50 feet above base may represent Decorah formation
CIAN						
RDOV		Platteville		_		Shale, sandstone, dolomite, and limestone, all
ا		Glenwood		10	60	interbedded and intermixed; all glauconitic; sand grains angular Sandstone, more or less dolomitic, medium- to
		St. Peter		55	156	fine-grained; light gray, pink, or yellow; grains well-rounded with frosted and pitted surfaces. Greenish shale or red marl may
						occur at base
		Shakopee		130	Dolomite, or dolomitic limestone, gray or buff with some sand and considerable shale	
					with some said and considerable shale	
	Chien	"New Rich-		105	Sandstone, dolomitic, white or reddish	
	Prairie du	mond*		-	103	Salustone, dolonitie, write or readish
		Oneota		205	Dolomite, sandy, gray, or buff	
		Jordan		9	ю	Sandstone, gray, with dolomitic cement
		Trempealeau		195	Shale, calcareous, and dolomite; all chocolate- colored; typically includes the St. Lawrence dolomite and Lodi, Norwalk, et cetera, shale and sandstone members	
			',',',',',',',',',',',',',',',',			
		Mazomanie- Franconia		123	Shale, sandy, dolomitic; sandstone, dolomitic, fine-grained, pink; and dolomite, sandy; all	
					glauconitic	
		Dresbach		18	150	Sandstone, slightly dolomitic, brownish-gray, yellow, or white
		Eau Claire				
RIAN	χan			14	142	Shale, with beds of sandstone, limestone, and dolomite
CAMB	Croi					
ı				657		Ц
		Mt. Simon			57	Sandstone, fine-grained, white, tinted red or brown
					1	
NTION CONTRACTOR OF THE PROPERTY OF THE PROPER	OKDOVICIAN	Prairie du Chien Mohawkian Cincinnatian	Galena Platteville Glenwood St. Peter Shakopee "New Richmond" Oneota Jordan Trempealeau Mazomanie-Franconia Dresbach Eau Claire	Galena Galena Galena Platteville Glenwood St. Peter Shakopee "New Richmond" Oneota Jordan Trempealeau Mazomanie- Franconia Dresbach Eau Claire	Maquoketa Galena Galena Galena Platteville Glenwood St. Peter Shakopee "New Richmond" Oneota Jordan Trempealeau In Mazomanie- Franconia Dresbach Eau Claire 12 132 144 155 167 167 167 167 167 167 167	Maquoketa 192 215

LEGEND

Qal
Alluvium

Qst
Terrace remnants
(covered with loess)

Qi
Glacial drift
(covered with loess)

Qy
Sand and silt

Qk
Glacial drift

Qk
Glacial drift

Qk
Glacial drift

Qk
Pc

UNCONFORMITY

WE Burlington formation

Carbondale formation

Pottsville formation

Hannibal formation

ECONOMIC DATA

Approximate boundary of the Rock Island (No. 1) coal

Approximate boundary of the Colchester (No. 2 coal)

☆ Coal mine
 ☆ Abandoned coal mine
 ★ Abandoned rock quarry

A Shale pit

A Abandoned shale pit

→ Dry hole (oil test)

Note: The Rock Island (No. 1) coal is the only coal mined commercially, although the Colchester (No. 2) coal and a coal 10-20 feet below the Rock Island (No. 1) coal have been locally exploited. The Gilchrist shale is used in the manufacture of brick and tile. Building stone was formerly quarried from sandstone and shaly limestone in the Pottsville formation. The Yarmouth sands may be suitable for special uses, such as molding sands and filter sands. Water is obtained from the glacial drift, especially the Yarmouth sands, from sandstones of the Pottsville formation, from a porous horizon at the base of the Devonian system, from the St. Peter sandstone, and from the Dresbach sandstone.