



EXPLANATION

Alhuvium	Sabers formation
Terrace alluvium	Dune sand
Till	Glacial outwash
Clastic deposits	Old gravel

MEMBER	FORMATION
Towanda limestone member	Doyle shale
Holtsville shale member	Fulton limestone
Per River limestone member	Harmon limestone
Oketo shale member	Matfield shale
Pleuro limestone member	
Blue Springs shale member	
Kinney limestone member	
Wynona shale member	
Schroyer limestone member	
Havensville shale member	Wreford limestone
Thermals limestone member	
	Spicer shale
	Fulton limestone
	Blue Rapids shale
	Crouse limestone
	Becky Creek shale
	Rader limestone
	Stearns shale
	Beattie limestone
	Kokridge shale
	Creola limestone
	Roca shale
	Red Eagle limestone
	Johnson shale
	Foreaker limestone
	Janesville shale
	Falls City limestone
	Onaga shale
	Wood Stiling formation
	Root shale
	Stotler limestone
	Pillsbury shale
	Zealand limestone
	Willard shale
	Emporia limestone
	Auburn shale
	Bern limestone
	Scranton shale

*Hamlin shale member further subdivided into: Oks shale bed (top), Hooper Creek limestone bed, Sine shale bed (bottom). This subdivision appears only in text.

**Where intervening units are missing the Dry shale member and Pony Creek shale member are mapped as undifferentiated.

• Boulder dump

— Contact, locally concealed but essentially accurate

— Fault, dotted where concealed, u, upthrown side; d, downthrown side

— Anticline, approximately located, dotted where concealed, queried where doubtful

— Strike and dip of beds

• Opened pit or quarry

⊙ Prospect pit or quarry

sa Fine aggregate

ma Mixed aggregate

mf Mineral filler

Sand

Chert gravel

lg Limestone gravel

ls Limestone

li Inclined letters indicate material not tested

1-21 Vertical letters indicate materials listed in table 1, and their sample number

0.9 Quantity of material available, in units of 10,000 cubic yards; unlimited, ∞

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30
31	32	33	34	35



Base map compiled from U. S. Soil Conservation Service aerial photographs

MAP SHOWING CONSTRUCTION MATERIALS AND GEOLOGY OF POTTAWATOMIE COUNTY, KANSAS

