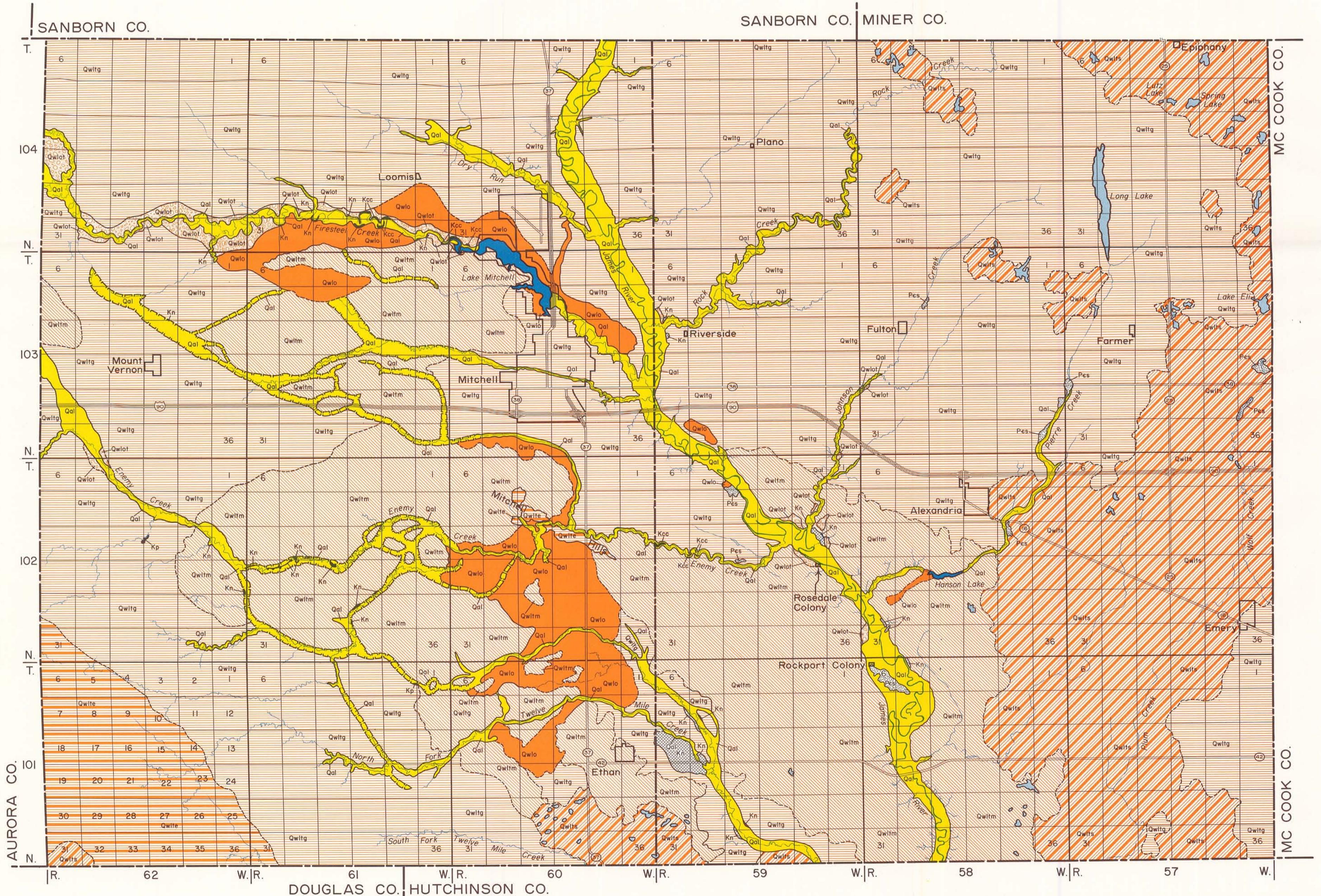
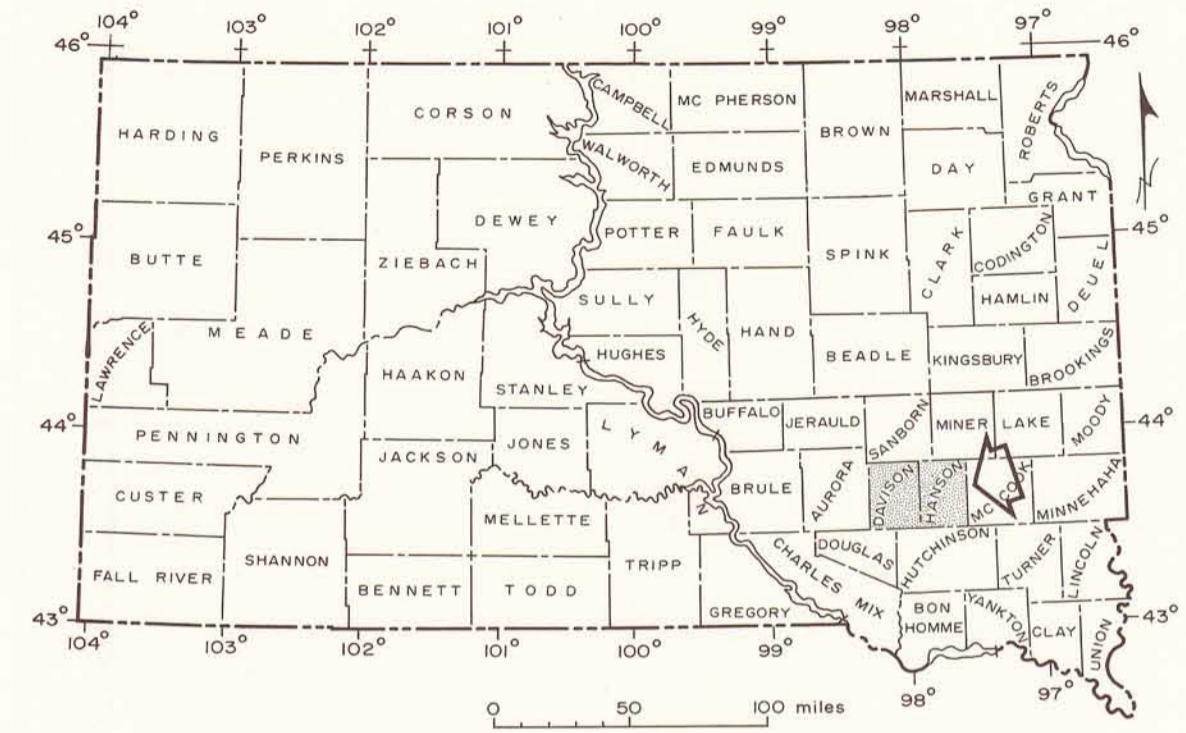


SOUTH DAKOTA GEOLOGICAL SURVEY - BULLETIN 33 - PLATE 1
 GEOLOGY OF DAVISON AND HANSON COUNTIES, SOUTH DAKOTA
 BY C. M. CHRISTENSEN - 1989

0 1 2 3 4 5 6 12 18 24 30 36 MILES



RECENT	Qal	ALLUVIUM - Floodplain deposits of silt and clay; may contain sand and gravel; relatively flat surface above normal river level.
	Qw1t	TERRACE-OUTWASH DEPOSITS - Sand and coarse gravel of glaciofluvial origin; poorly sorted; flat to smoothly sloping surface above present floodplain.
	Qw1o	OUTWASH, UNDIFFERENTIATED - Sand and gravel of glaciofluvial origin; includes proglacial outwash and outwash lenses; flat to gently rolling surface.
	Qw1e	TILL, END MORAINE - Heterogeneous mixture of boulders, sand, silt and clay; contains high ridges or is linear in mass.
	Qw1g	TILL, GROUND MORAINE - Heterogeneous mixture of boulders, sand, silt and clay; smooth and level to gently rolling topography; contains many sloughs.
	Qw1s	TILL, STAGNATION MORAINE - Heterogeneous mixture of boulders, sand, silt and clay; rugged hummocky topography; contains many sloughs.
	Qw1m	TILL, MINOR MORAINE - Heterogeneous mixture of boulders, sand, silt and clay; abundant ridges.
QUATERNARY		
PLEISTOCENE		
LATE WISCONSIN		
	Kp	PIERRE SHALE - Light gray to black marine claystone and shale; marl and chalky zones occur throughout; bentonitic.
	Kn	NIOBRARA MARL - Light to medium blue gray marl and white to cream colored limestone; calcareous; fossiliferous; weathers white to dark yellowish-orange.
	Kc	CARLILE SHALE - Medium to dark gray bentonitic shale; fossiliferous; weathers light gray to orange.
	Kcc	CODELL SANDSTONE MEMBER-CARLILE SHALE - White, green, light gray to dark gray, fine-grained sandstone; interbedded with dark gray shale; some thin limestone beds; uncemented to cemented; often fossiliferous; weathers light yellow to orange.
CRETACEOUS		
	Pes	SIOUX QUARTZITE - Pink to red; extremely hard, fine to medium grained, well rounded quartz sand, silica cemented orthoquartzite; sometimes conglomeritic and jointed.
Precambrian		
		Geologic contact; dashed where approximately located.
		Meltwater channel; color and pattern denote the major sediment presently occupying the channel.
	Lake or pond	Intermittent lake or slough
	Intermittent stream	Intermittent stream