

**KANSAS GEOLOGICAL SURVEY
OPEN-FILE REPORT 2012-8**

PRELIMINARY GEOLOGY FIELD MAPS AND STRAIGRAPHIC
COLUMN, MCPHERSON COUNTY, KANSAS, HESSTON, GOESSEL,
AND MOUNDRIDGE, 1:24,000 SCALE QUADRANGLES

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Stratigraphic Column McPherson County, Kansas

Rolfe D. Mandel and David Newell

Quaternary System

Alluvial deposits

- Qal** **Undifferentiated alluvium**
Coarse gravel to clay; Holocene age
- Qt** **Alluvial terrace deposits**
Coarse gravel to clay; late Pleistocene and Holocene ages
- Qm** **McPherson Formation**
Coarse gravel and sand sometimes grading upward into silt;
includes lentils of volcanic ash
- Qp** **Upland intermittent lake deposits**
Silt to clay; late Pleistocene and Holocene ages

Slope deposits

- Qsl** **Colluvial apron and alluvial fan deposits**
Coarse gravel to clay; Late Pleistocene and Holocene ages

Eolian deposits

- Qd** **Dune sand**
Sand occurring in dunes; Late Pleistocene and Holocene ages
- Ql** **Loess**
Fine-grained sediments, dominantly silt-sized; includes lentils of
volcanic ash; Pleistocene to Holocene ages

Cretaceous System

- Kd** **Cretaceous Dakota Formation**
Sandstone interbedded with mudstone
- Kk** **Cretaceous Kiowa Formation**
Shale interbedded with sandstone

Permian System

- Pn** **Permian Sumner Group, Ninescah Shale**
Red shale interbedded with siltstone
- Pw** **Permian Sumner Group, Wellington Formation**
Mostly gray shale interbedded with limestone and gypsum

Place Holder Only

Large Maps in Folder