



- PLEISTOCENE**
  - LATER
    - PI Alluvium (bottom lands)
  - EARLIER
    - Pe Alluvium (gravel, mud, and silt capped by terraces and mesas)
- NEOCENE**
  - Nn Nussbaum formation (sand, gravel, and silt)
- CRETACEOUS**
  - Kp Pierre shale (gray shale with concretions)
  - Kn Niobrara formation (shale and limestone)
  - Kcr Carlisle shale (shale and sandstone)
  - Kgn Greenhorn limestone (limestone and shale in alternate strata)
  - Kgs Graneros shale (gray shale)
  - Kd Dakota sandstone (gray sandstone and shale)
- JURASSIC**
  - Jm Morrison formation (interbedded clay and sandstone; gypsum)
  - Jf Fountain formation (red shale, sandstone, and conglomerate)
- CARBONIFEROUS**
  - Cm Millsap limestone (limestone and shale)
- SILURIAN**
  - Sh Hanging sandstone (white sandstone)
- ARCHEAN ?**
  - Rs Schist and granite (igneous and metamorphic)
- Faults**
- Known productive formations**
  - Kn Niobrara formation (limestone for lime and flux)
  - Kcr Carlisle shale (sandstone used for foundations)
  - Kd Dakota sandstone (largely available for building; upper part contains fire clay)
  - Jm Morrison formation (local deposits of gypsum)
  - Cm Millsap limestone (local developments of marble)

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 Topography by R.O. Gordon and W.J. Lloyd.  
 Surveyed in 1894.

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 Surveyed in 1893.

