

LEGEND

SEDIMENTARY ROCKS  
*(Areas of subaqueous deposits are shown by patterns of parallel lines, subaerial deposits by patterns of dots and circles)*

Qd  
Dune sand  
*(largely derived from Tertiary deposits to the North)*

Qal  
Recent alluvium  
*(bottom land)*

Qlt  
Lower terrace gravels  
*(gravel, sand, and silt)*

Qht  
Higher terrace gravels  
*(gravel, sand, and silt)*

Tn  
Nussbaum formation  
*(sand, gravel, and silt of fluvial origin, part cemented into conglomerate)*

Kp  
Pierre shale  
*(dark to light gray sandy shale with numerous concretions, gray limestone cores in upper portion)*

Limestone cores in Pierre shale  
*(vertical cylindrical masses forming loops but only the larger ones shown)*

Ka  
Apishapa formation  
*(light gray sandy and calcareous shale with thin-bedded limestone at top)*

Kt  
Timpas formation  
*(thin-bedded limestone and calcareous shale with massive limestone at base)*

Kcr  
Carlile shale  
*(dark shale containing iron concretions with brown sandstone at the top)*

Kg  
Greenhorn limestone  
*(jointed, dove-colored limestone with partings of shale)*

Kgs  
Graneros shale  
*(dark gray to black shale containing iron concretions near base and thin fossiliferous limestone bed near top)*

Kd  
Dakota sandstone  
*(light gray to buff coarse, cross-bedded sandstone)*

QUATERNARY

TERTIARY

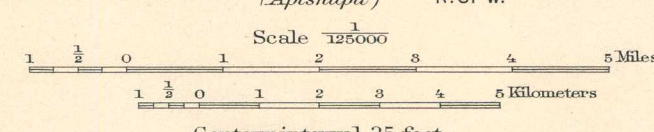
Noblar group

CRETACEOUS (Upper)

Benton group

A. H. Thompson, Geographer.  
Willard D. Johnson, Topographer in charge.  
Topography and triangulation by J. W. Hays.  
Surveyed in 1893.  
Partially revised by Frank Tweedy in 1894  
and Fred McLaughlin in 1903.

APPROXIMATE MEAN DECLINATION 1893



Datum is mean sea level.  
Projection based on T. S. C. and G. Survey data of 1900.  
Projection of Pueblo and Apishapa sheets based on earlier data.  
Edition of Jan. 1906.

Geology by Cassius A. Fisher,  
under the direction of N. H. Darton.  
Surveyed in 1903.