

AREAL GEOLOGY

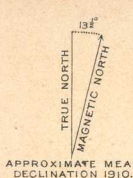


LEGEND

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

- Quaternary**
 - Qd** Dune sand (derived from high terrace deposits by wind action)
 - Qhr** High terrace gravel (gravel and sand on terraces and valley slopes of present streams)
- Tertiary**
 - Tn** Nussbaum formation (gravel and sand of fluvial origin on high divides)
- UNCONFORMITY**
- Neogene group**
 - Ka** Apishapa shale (light gray to yellowish shale)
 - Kt** Timpas limestone (thin bedded creamy white limestone and calcareous shale)
- Upper Cretaceous**
 - Kcr** Carlile shale (dark gray crystalline shale containing large concretionary and friable brown sandstone nodules)
 - Kgs** Greenhorn limestone (alternation of thin bedded gray to light blue limestone and calcareous blue shale)
 - Kgs** Graneros shale (dark gray to black shale with thin irregular laminae near middle and at top)
- Lower Cretaceous**
 - Kd** Dakota sandstone (light gray to buff to pink cross-bedded sandstone weathering rusty brown)
 - Kp** Purgatoire formation (light buff open bedded coarse sandstone with few thin conglomeratic layers and dark gray sandy shale with thin sandstone beds)
- JURASSIC OR CRETACEOUS**
 - Km** Morrison formation (maroon, green, and dark argillite and shale, red, chocolate, and speckled gray sandstone, and few thin brown water-limestones)
- IGNEOUS ROCKS**
 - Basalt dikes** (Later than middle Eocene)
 - Lamprophyre dikes** (niveite, or vesuvite, or diabase, or other varieties)
- Faults**
- x** Fire clay prospect
- o** Artesian well

E. M. Douglas, Topographer in charge.
 Triangulation by A. H. Thompson.
 Topography by W. H. Herron
 and Arthur Stiles.
 Surveyed in 1896.



Scale 1:25,000
 0 1 2 3 4 5 Miles
 0 1 2 3 4 5 Kilometers

Contour interval 25 feet.

Note: Dotted lines near northern edge of sheet show position of parallel and meridians corrected to first Neposta sheet, which is projected from later data.

Edition of April 1912.

Geology by G. K. Gilbert,
 G. W. Stose, and F. P. Gulliver.
 Surveyed in 1894 and 1910.

37°30'

104°00'

Elmoro

37°30'

104°00'

Alamo de Montezuma