

LEGEND

(continued)

IGNEOUS ROCKS

SHEET SYMBOL SECTION SYMBOL

Syenitic dikes
(dense, black, aphanitic rock)

Pegmatite dikes
(coarse, colorless quartz, and numerous accessory minerals)

Mount Rosa granite
(fine-grained gray amphibolite granite in masses, dikes, and sheets)

Cripple Creek granite
(pink biotite granite and fine-grained micaceous dikes)

Pikes Peak granite
(coarse pink biotite granite)

Faults

Concealed faults
(covered by younger deposits)

Strike and dip of stratified rocks

Note: Sections D-D' and E-E' are given in the text.

STRUCTURE SECTIONS

U.S. GEOLOGICAL SURVEY
GEORGE OTIS SMITH, DIRECTOR

COLORADO
COLORADO SPRINGS QUADRANGLE



LEGEND

SEDIMENTARY ROCKS

SHEET SYMBOL SECTION SYMBOL

Aluminum and talus
(only larger areas shown)

Terraced stream gravels

Mesa gravels
(wash from the mountain slopes in part equivalent to Quaternary formation)

Glacial drift
(chiefly terminal moraine of local valley glaciers)

Sandstone dikes in Pikes Peak granite
(along or closely associated with fault planes)

Dawson arkose
(conglomerate, sandstone, and shale, with calcareous sandstone member Tda at the base)

Laramie formation
(white quartz sandstone, black clay shale, and coal beds)

Fox Hills sandstone
(white granitic and brownish quartz sandstone)

Pierre shale
(dark clay shale containing limestone concretions, some of which form hills called 'Pike Buttes')

Niobrara formation
(lower part bluish gray limestone, upper part bluish gray shale, and upper part bluish black calcareous shale, much of which is equivalent to Apache shale)

Carile shale
(black clay shale with thin yellow sandstone at top)

Greenhorn limestone
(light bluish gray limestone with thin calcareous shale partings)

Graneros shale
(dark gray clay shale)

Dakota sandstone
(light colored, somewhat dol quartz sandstone)

Purgatoire formation
(light sandstone member Kys sandstone with intercalated grit and shale; lower part Kgs dark shale with a little sandstone)

Morrison formation
(green to brown shale with some sandstone and thin limestone)

Lykins formation
(thin bedded red sandstone and shale, with gypsum at top)

Lyons sandstone
(brick-red and white sandstone)

Fountain formation with Glen Eyrie shale member
(arkose, conglomerate, sandstone, shale, and Glen Eyrie shale member, Cf, composed of sandy shale and sandstone)

Manitou limestone
(red to gray limestone, a few feet of overlying bluish sandstone included in the southwest corner part of quadrangle, as Omh)

Sawatch sandstone
(white quartzose to redish calcareous sandstone)

Legend is continued on the left margin.

QUATERNARY

TERTIARY

CRETACEOUS

JURASSIC OR CRETACEOUS

CARBONIFEROUS

ORDOVICIAN

CAMBRIAN

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