

AREAL GEOLOGY

LEGEND

CHIEFLY SEDIMENTARY ROCKS

Areas of indistinguishable deposits are shown by patterns of parallel lines, without deposits by patterns of dots and circles.

Qal
Stream alluvium
(gravel, sand, and silt in valley bottoms, only the larger deposits shown)

Qw
Wash
(sand and gravel washed from the uplands)

UNCONFORMITY

Tcr
Castle Rock conglomerate
(indurated conglomerate and sandstone)

UNCONFORMITY

Tth
Rhyolite lava and tuff
(interbedded in upper part of Dawson arkose)

Td
Dawson arkose
(varicolored, carbonaceous, calcareous sandstone and shale, interbedded in places)

UNCONFORMITY

M
Laramie formation
(sandstone and shale, possibly coal bearing)

Kpf
Pierre shale and Fox Hills sandstone
(dark gray shale and sandstone)

Kbn
Benton and Niobrara formations
(shale, limestone, and some sandstone)

Kd
Dakota sandstone
(fine-grained quartzose sandstone)

Kp
Purgatoire formation
(light buff sandstone and dark gray shale)

UNCONFORMITY?

Km
Morrison formation
(varicolored sandstone, shale, and limestone)

Clk
Lykins formation
(varicolored sandstone and shale, with some limestone and gypsum)

Cle
Lyons sandstone
(fine-grained red and white quartzose sandstone)

Cf
Fountain formation
(red and white sandstone and conglomerate, in places white)

UNCONFORMITY

Cm
Millsap limestone
(thin-bedded gray to purple limestone with chert nodules)

UNCONFORMITY

Om
Manitou limestone
(reddish and gray magnesian limestone)

Cs
Sawatch sandstone
(white and red quartzose sandstone, in part calcareous and micaceous)

IGNEOUS ROCKS
(Areas of igneous rocks are shown by patterns of triangles and rhombs)

pg
Pikes Peak granite
(batholith of coarsely granular biotite granite)

Faults

Concealed faults
(covered by younger deposits)

20° Strike and dip of stratified rocks

σ Strike of vertical strata

% Quarries, building stone

Economic data: Building stone can be obtained from rhyolite in Dawson arkose, from Pikes Peak granite, Lyons and Dakota sandstones, and Purgatoire formation, limestone, lime and cement from Manitou and Niobrara formations, limestone, gypsum, from the upper part of the Lykins formation, sand and gravel from Dawson arkose, Colorado and Montana groups, and Purgatoire formation. Coal may be present in the Laramie formation. Gold in small quantity has been found in tributaries of Cherry and Hanging Creeks. Underground water may be obtained at moderate depth in the flood plains of the larger streams.

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Topography by C. G. Anderson and Geo. W. Lucas,
Control by Coast and Geodetic Survey, H. L. Baldwin,
and C. J. Anderson.
Surveyed in 1911.

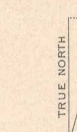


DIAGRAM OF TOWNSHIP:

65	4	2	1
7	8	10	11
16	17	18	19
28	29	30	31
32	33	34	35

Geology by G. B. Richardson,
assisted by C. W. Cooke.
Surveyed in 1910 and 1911.

Contour interval 100 feet.
Datum is mean sea level.
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