

LIST OF MAP UNITS

The complete description of map units and references are in the accompanying booklet

SURFICIAL DEPOSITS

HUMAN-MADE DEPOSITS

af Artificial fill (latest Holocene)

ALLUVIAL DEPOSITS

Qa Stream-channel, flood-plain, and low-terrace deposits (Holocene and late Pleistocene)
Qaw Sheetwash deposits (Holocene and late Pleistocene)
Qty Younger terrace alluvium (late Pleistocene)
Qtm Intermediate terrace alluvium (late Pleistocene)
Qto Older terrace alluvium (middle Pleistocene)
Qot Oldest terrace alluvium (middle Pleistocene)
QTg High-level gravel (early Pleistocene or late Tertiary)

COLLUVIAL DEPOSITS

Qc Colluvium (Holocene and late Pleistocene)
Qls Landslide deposits (Holocene and Pleistocene)
Qco Older colluvium (Pleistocene)

ALLUVIAL AND COLLUVIAL DEPOSITS

Qdly Younger debris-flow deposits (Holocene)
Qdac Alluvium and colluvium, undivided (Holocene)
Qdfm Intermediate debris-flow deposits (Holocene and late Pleistocene)
Qlaco Older alluvium and colluvium, undivided (Holocene? and Pleistocene)
Qldfo Old debris-flow deposits (Holocene? and Pleistocene)

EOLIAN DEPOSITS

Qva Volcanic ash (middle Pleistocene)

UNDIFFERENTIATED DEPOSITS

Q Surficial deposits, undifferentiated (Quaternary)—Shown on cross section only

BEDROCK UNITS

VOLCANICLASTIC AND VOLCANIC ROCKS OF DOTSERO AND WILLOW PEAK VOLCANOES

Qltu Unconsolidated lapilli tuff (Quaternary)
Qltc Consolidated lapilli tuff (Quaternary)
Qca Agglutinated cinders (Quaternary)
Qtb Trachybasalt (Quaternary)

OTHER BEDROCK

Tb Basalt (Miocene)
PPm Maroon Formation (Permian and Pennsylvanian)
Pe Eagle Valley Formation (Middle Pennsylvanian)
Pee Eagle Valley Evaporite (Middle Pennsylvanian)
Pm Minturn Formation (Middle Pennsylvanian)
Pb Belden Formation (Lower Pennsylvanian)
Pmb Minturn and Belden Formations, undivided (Lower and Middle Pennsylvanian)
Ml Leadville Limestone (Mississippian)
Dc Chaffee Group (Upper Devonian)
MDr Mississippian and Devonian rocks, undivided (Mississippian and Upper Devonian)
Om Manitou Formation (Lower Ordovician)
Cd Dotsero Formation (Upper Cambrian)
Cs Sawatch Quartzite and unnamed overlying rocks, undivided (Upper Cambrian)—Shown on cross section only
pC Precambrian rocks, undivided (Proterozoic)—Shown on cross section only

Contact—Dashed where approximately located
Fault—Dashed where approximately located; dotted where concealed; ball on downthrown side; includes faults related to flowage of evaporite
Anticline—Showing axial trace; dashed where approximately located; dotted where concealed; arrow on end of axial trace indicates direction of plunge; number at end of axial trace indicates amount of plunge in degrees
Overturned anticline—Showing axial trace; dashed where approximately located; dotted where concealed
Syncline—Showing axial trace; dashed where approximately located; dotted where concealed
Monocline—Anticlinal bend; showing shorter arrow on steeper beds; dashed where approximately located; dotted where concealed
Monocline—Synclinal bend; showing shorter arrow on steeper beds; dashed where approximately located; dotted where concealed
Strike and dip of inclined bedding—Showing direction and angle of dip
Strike and dip of overturned bedding—Showing direction and angle of dip
Perimeter of Dotsero Crater
Gravel pit or cinder pit
Locality of rock sample—Radiometrically dated using the ⁴⁰Ar/³⁹Ar method
Thermal spring
Alignment of cross section

GEOLOGIC MAP OF THE DOTSERO QUADRANGLE, EAGLE AND GARFIELD COUNTIES, COLORADO

By Randall K. Streufert, Robert M. Kirkham, Timothy J. Schroeder II and Beth L. Widmann
2008