

LIST OF MAP UNITS

The complete description of map units and references are in the accompanying Authors' Notes

SURFICIAL DEPOSITS

HUMAN-MADE DEPOSITS

- af Artificial fill (Historic)
- mw Mine waste (Historic)

ALLUVIAL DEPOSITS

- Qa1 Alluvial unit one (Holocene)
- Qa2 Alluvial unit two (late Pleistocene)
- Qa3 Alluvial unit three (late middle Pleistocene)
- Qay Younger alluvium (late and late middle Pleistocene)
- Qa4 Alluvial unit four (middle Pleistocene)
- Qao Older alluvium (middle Pleistocene)

MASS-WASTING DEPOSITS

- Qc Colluvium (Holocene and late Pleistocene)
- Qls Landslide deposits (Quaternary)

ALLUVIAL AND MASS-WASTING DEPOSITS

- Qf Fan deposits (Holocene and late Pleistocene)
- Qac Alluvium and colluvium (Holocene and late Pleistocene)

BEDROCK

TERTIARY ROCKS

- Tw Wagon Tongue Formation (Miocene)
- Ta Antero Formation (Oligocene)
 - Tal Limestone facies
 - Tac Conglomeratic facies
 - Tat Ash-flow tuff facies
- Tim Unnamed limestone (Oligocene or Eocene)
- Tic Tallahassee Creek Conglomerate (Eocene) — boulder conglomerates shown in gray
- Twm Wall Mountain Tuff (Eocene)
- Ti Unnamed tuff (Eocene?)
- Tva Andesitic volcanic rocks (Eocene)
- Ti Porphyritic intrusion (Paleocene)

PALEOZOIC SEDIMENTARY ROCKS

- PPm Maroon Formation (Lower Permian and Upper and Middle Pennsylvanian)
- Minturn Formation (Middle Pennsylvanian)
 - Pmu Upper interval
 - Unamed limestone bed
 - Pme Evaporite facies
 - Unamed limestone bed
 - Gypsum bed
 - Pmc Coffman Member
 - Pml Lower interval
- Pb Belden Shale (Middle and Lower Pennsylvanian)
- Ml Leadville Limestone (Lower Mississippian)
- MDu Mississippian and Devonian rocks, undivided
- Dc Chaffee Group (Upper Devonian)
 - Dd Dyer Dolomite
 - Dp Parting Formation
- DOu Devonian and Ordovician rocks, undivided
- Or Frement Formation and Harding Sandstone, undivided (Upper and Middle Ordovician)
- Om Manitou Formation (Lower Ordovician)
- Cds Dotsero Formation and Sawatch Sandstone, undivided (Upper Cambrian)

PROTEROZOIC CRYSTALLINE ROCKS

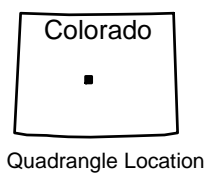
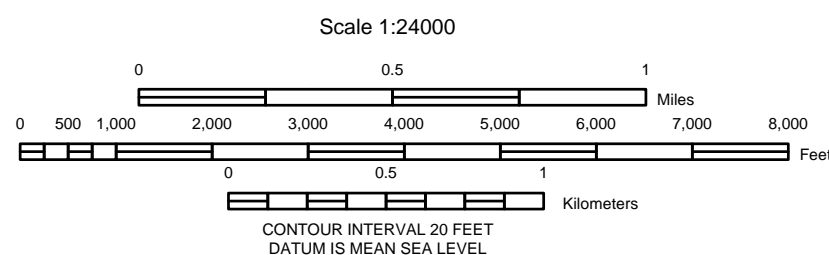
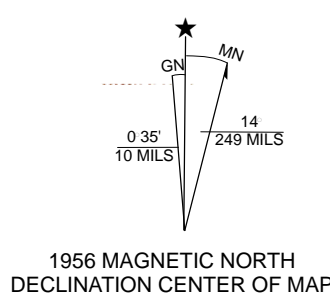
- YXp Granite porphyry (Mesoproterozoic or Paleoproterozoic)
- YXb Biotite gneiss (Paleoproterozoic)

MAP SYMBOLS

- Contact — Approximately located
- U Fault — Dashed where approximately located, dotted where concealed, queried where uncertain. U = upthrown side, D = downthrown side.
- Anticline — Dashed where approximately located, dotted where concealed, arrow on end of trace shows direction of plunge
- Syncline — Dashed where approximately located, dotted where concealed, arrow on end of trace shows direction of plunge
- Strike and dip of sedimentary rocks or volcanic flow layering — Angle of dip shown in degrees
- Strike and dip of overturned sedimentary rocks — Angle of dip shown in degrees
- Strike and dip of volcanic flow foliation — Angle of dip shown in degrees
- Probable sinkhole related to dissolution of soluble bedrock — Sinkholes that plot in the Antero Reservoir were detected on aerial photography flown at a time when the water level was low
- Broad topographic depression
- Topographic riser in outwash terrace
- Vuggy limestone
- Local exposure of basal vitrophyre in Wall Mountain Tuff
- Gypsum
- Dark-gray polygons within areas mapped as Tallahassee Creek Conglomerate denote areas where float includes large boulders of andesite
- Silicified zone
- Surface water
- Salt spring
- Location and identification number of sample with major-element chemical analysis (see Appendix A in booklet for analysis)
- Location and identification number of sample with major-element chemical analysis and ⁴⁰Ar/³⁹Ar age date (see Appendix A in booklet for chemical analysis and Appendix B for age date)
- Line of cross section

Base from U.S. Geological Survey, 1956
Polyconic projection, 1927 North American Datum
10,000-foot grid based on Colorado coordinate system, central zone
1,000-meter Universal Transverse Mercator grid ticks, zone 13

This mapping project was funded jointly by the Colorado Geological Survey and the U.S. Geological Survey through the National Geologic Mapping Program under STATEMAP Agreement No. 07HQAG0083



ADJOINING 7.5' QUADRANGLES

1	2	3
4	5	6
7	8	

- 1 Jones Hill
- 2 Gato
- 3 Marmot Peak
- 4 Antero Reservoir NE
- 5 Buena Vista East
- 6 Castle Rock Gulch
- 7 Agate Mountain

ANTERO RESERVOIR QUADRANGLE GEOLOGIC MAP PARK AND CHAFFEE COUNTIES, COLORADO

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2012



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