

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 (upper Holocene)

ALLUVIAL DEPOSITS

- Qau<sub>1</sub> Alluvium one of the Uncompahgre River (upper to lower Holocene)
- Qau<sub>2</sub> Alluvium two of the Uncompahgre River (lower Holocene to upper Pleistocene)
- Qau<sub>3</sub> Alluvium three of the Uncompahgre River (upper Pleistocene)
- Qau<sub>4</sub> Alluvium four of the Uncompahgre River (upper middle Pleistocene)
- Qau<sub>5</sub> Alluvium five of the Uncompahgre River (middle Pleistocene)
- Qac<sub>1</sub> Alluvium one of Cedar Creek (upper to lower Holocene)
- Qac<sub>2</sub> Alluvium two of Cedar Creek (lower Holocene to upper Pleistocene)
- Qac<sub>3</sub> Alluvium three of Cedar Creek (upper Pleistocene)
- Qf Alluvial-fan deposits (upper Holocene)
- Qamf Alluvial mudflow-and-fan valley-fill deposits (upper to lower Holocene)
- Og<sub>1</sub> Gravel deposit one (lower Holocene to upper Pleistocene)
- Og<sub>2</sub> Gravel deposit two (upper Pleistocene)
- Og<sub>3</sub> Gravel deposit three (middle Pleistocene)
- Og<sub>4</sub> Gravel deposit four (lower Pleistocene? to Pliocene?)

Surficial lag deposits (lower Holocene to middle Pleistocene)

Qbg Boulder and gravel lag deposits, undivided

• Boulder, isolated clast or pod

• Boulder and gravel, isolated pod

EOLIAN DEPOSITS

Oe Eolian deposits (upper Holocene)

MASS-WASTING DEPOSITS

Oc Colluvial deposits (Holocene to upper Pleistocene)

Ols Landslide deposits (Holocene to middle Pleistocene)

BEDROCK UNITS

Mancos Shale (Upper Cretaceous)

- Kml Lujane Point shale unit
- Kmss Sharon Springs Member
- Kmp Prairie Canyon Member
- Kms Smoky Hill Member
- Kmj Juana Lopez and Montezuma Valley Members, undivided
- Kmb Blue Hill and Fairport Members, undivided
- Kmg Graneros Member and Bridge Creek Limestone Member, undivided
- Kdb Dakota Sandstone and Burro Canyon Formation, undivided (Upper to Lower Cretaceous)
- Jm Morrison Formation (Upper Jurassic)—Shown in cross-section only
- Jw Wanakah Formation (Middle Jurassic)—Shown in cross-section only
- Je Entrada Sandstone (Middle Jurassic)—Shown in cross-section only
- pC Precambrian Rocks—Shown in cross-section only

Contact—Approximately located

Fault—Certain; dashed where approximately located;  
dotted where concealed

Syncline—End arrow indicates direction of plunge

Landslide scarp

Strike and dip of inclined beds—Showing direction and angle of dip

Fossil and location number (see Appendix A for detailed description)

Exploration test hole for this study, drilled by Lambert and Associates

A—A' Alignment of cross section



Base from U.S. Geological Survey  
Polyconic projection, 1983 North American Datum, 10,000-foot grid  
based on Colorado coordinate system, central and south zones.  
1,000-meter Universal Transverse Mercator grid ticks, zone 13

UTM GRID AND 1983 MAGNETIC NORTH  
DECLINATION AT CENTER OF SHEET

SCALE 1:24,000  
1 1/2 1 MILE  
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET  
0.5 1 KILOMETER  
CONTOUR INTERVAL 20 FEET  
DATUM IS MEAN SEA LEVEL

Colorado  
Quadrangle Location

1 2 3  
4 5  
6 7 8  
ADJOINING 7.5' QUADRANGLES

Geology mapped in 2006  
GIS and cartography by Nicholas Watterson



Bill Ritter Jr., Governor  
State of Colorado  
Harris D. Sherman, Executive Director  
Department of Natural Resources  
Vincent Matthews  
State Geologist and Director  
Colorado Geological Survey

GEOLOGIC MAP OF THE MONTROSE EAST QUADRANGLE, MONTROSE COUNTY, COLORADO

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