

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 and disturbed surfaces (latest Holocene)

ALLUVIAL DEPOSITS

Qa Stream and flood-plain alluvium (Holocene)

Qt Stream terrace alluvium (Holocene to upper Pleistocene)

Qh Stream terrace alluvium (upper Pleistocene)

Qf Alluvial-fan deposits (Holocene to upper Pleistocene)

Qdf Debris-fan deposits (Holocene and upper Pleistocene)

MASS-WASTING DEPOSITS

Qc Colluvium (Holocene and upper Pleistocene)

Qce Eolian colluvium (Holocene)

Qls Mass-movement deposits, undivided (Holocene to upper Pleistocene)

Qlso Mass-movement deposits (Pleistocene?)

Qef Earthflow deposits (Holocene? to Pleistocene?)

ALLUVIAL AND MASS-WASTING DEPOSITS

Qao Alluvium and colluvium (Holocene and upper Pleistocene)

Q Quaternary deposits, undifferentiated—Shown only in cross sections

BEDROCK UNITS

TERTIARY SEDIMENTARY AND VOLCANIC DEPOSITS

Tgb Gravel and breccia deposits (Pliocene? to Oligocene)

Tg Gravel deposits (Pliocene? to Oligocene)

Tc Carpenter Ridge Tuff (Oligocene)

Tf Fish Canyon Tuff (Oligocene)

Ts Sapinero Mesa Tuff (Oligocene)

Tb Blue Mesa Tuff (Oligocene)

Te Bedded tufts of East Elk Creek (Oligocene)

Twg Gravel of the West Elk Breccia (Oligocene)

Tw West Elk Breccia (Oligocene)

MESOZOIC SEDIMENTARY ROCKS

Km Mancos Shale (Upper Cretaceous)

Kd Dakota Sandstone (Upper Cretaceous)

Kbc Burro Canyon Formation (Lower Cretaceous)

Jmb Brushy Basin Member of the Morrison Formation (Upper Jurassic)

Jms Salt Wash Member of the Morrison Formation (Upper Jurassic)

Jj Junction Creek Sandstone (Upper Jurassic)

PROTEROZOIC IGNEOUS AND METAMORPHIC ROCKS

Xg Granite

Xq Biotite quartzite (Early Proterozoic)

Xs Biotite quartz schist (Paleoproterozoic)

Xa Amphibolite (Paleoproterozoic)

MAP SYMBOLS

Contact—Approximately located

Blocks within landslide complexes that are mapped to show coherent internal stratigraphy

Contacts between morphologically distinct flow lobes within landslide complexes

High-angle fault—Dashed where approximate; dotted where concealed.

U on upthrown side; D on downthrown side.

Anticline—Dashed where approximate; dotted where concealed

Syncline—Dashed where approximate; dotted where concealed

Monocline anticlinal fold—Dotted where concealed

Monocline anticlinal fold, overturned—Dotted where concealed

Monocline synclinal fold—Dotted where concealed

Monocline synclinal fold, overturned—Dashed where approximate; dotted where concealed

Landslide scarp

Strike and dip of bedding or contacts

Inclined—Showing direction and angle of dip

Overturned—Showing direction and angle of dip

Horizontal

Strike and dip of foliation

Inclined—Showing direction and angle of dip

Vertical

Strike and dip of layering in volcanic breccia

A—A' Alignment of cross section



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

GEOLOGIC MAP OF THE SIGNAL PEAK QUADRANGLE, GUNNISON COUNTY, COLORADO

By Allen Stork, James C. Coogan, Robert Fillmore, Holly Brunkal, Joe Nicolette, and Andrew Payton

2007