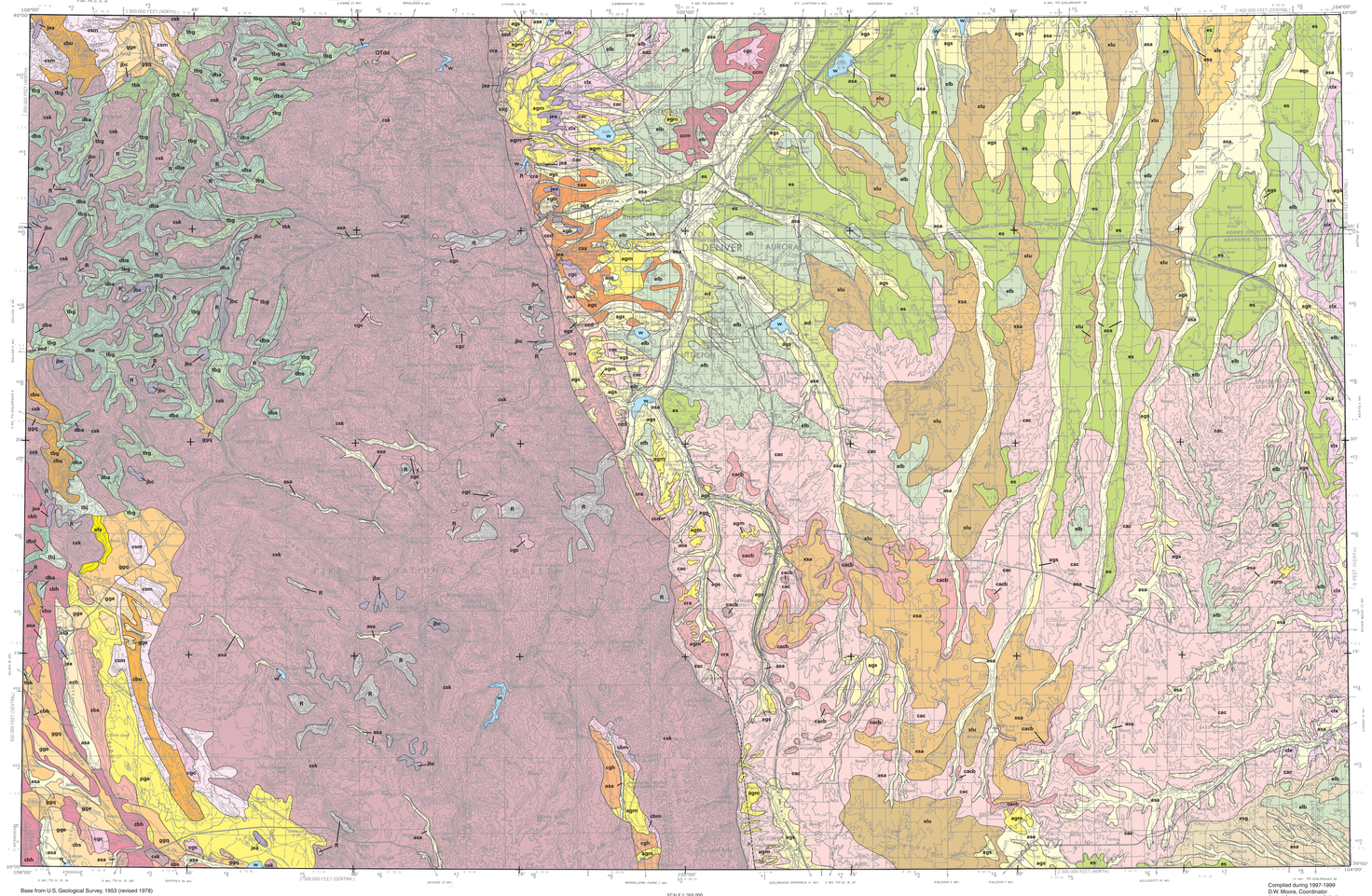
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

MISCELLANEOUS FIELD STUDIES MAP MF-2347
Version 1.0
Pamphlet accompanies map



Base from U.S. Geological Survey, 1953 (revised 1978)

Transverse Mercator Projection

100,000-foot grids based on Colorado Coordinate System, central and north zones

Black numbered lines indicate the 10,000-meter Universal Transverse Mercator grid, zone 13

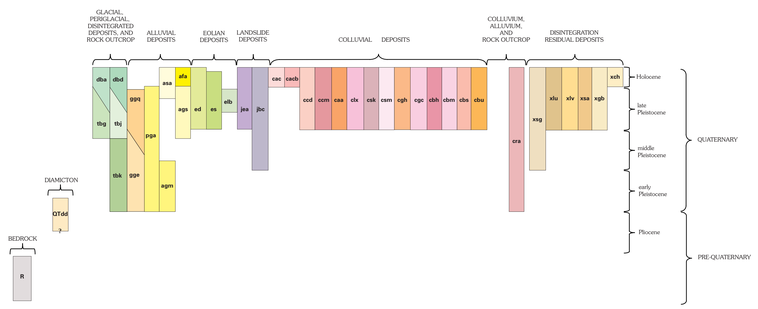
SCALE 1: 250 000

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

10'E MAGNETIC DECLINATION FROM TRUE NORTH VARIES FROM 16 .2/30 MILS) EASTERLY FOR THE CENTER OF THE WEST EDGE TO 13 .2/15 MILS) EASTERLY FOR THE CENTER OF THE EAST EDGE

Compiled during 1997–1999
D.W. Moore, Coordinator
Digital Cartography by T.R. Brandt and M.L. Baker

CORRELATION OF MAP UNITS



LIST OF MAP UNITS

[For detailed descriptions, thickness, and references, see full-length "Description of Map Units" in accompanying pamphlet]

HOLOCENE

- afa — Alluvial-fan deposit
- cac — Arkosic loamy colluvium and sheetwash alluvium
- cacb — Bouldery phase of arkosic loamy colluvium
- xch — Clayey, calcareous disintegration residuum

HOLOCENE AND LATE PLEISTOCENE

Disintegrated deposits and periglacial deposits, bouldery till, and rock outcrop

- dba — Crystalline-clast deposits
- dbd — Mixed-lithology-clast deposits
- asa — Alluvial sand, silt, clay, and gravel (post-Piney Creek alluvium, Piney Creek Alluvium, and pre-Piney Creek alluvium of Hunt, 1954, and Scott, 1960; Broadway Alluvium)
- ed — Stabilized dune sand
- es — Eolian sand
- jea — Slump-block, earthflow, and mudflow landslide deposits
- ccd — Calcareous clayey colluvium
- ccm — Andesitic clayey colluvium
- caa — Andesitic loamy colluvium and sheetwash alluvium
- clx — Clay loam colluvium
- csk — Grus, crystalline-clast colluvium, rock outcrop, and alluvium
- csm — Tuffaceous colluvium
- cgh — Arkose-clast loamy colluvium
- cgc — Gneiss- and granite-clast gravelly colluvium
- cbh — Blocky sedimentary-rock colluvium
- cbm — Carbonate-clast loamy colluvium
- cbs — Rhyolite- and andesite-clast colluvium
- cbu — Mixed-lithology blocky colluvium
- xlu — Feldspathic loamy disintegration residuum
- xlv — Loamy disintegration residuum, eolian sand, and sheetwash alluvium
- xsa — Feldspathic quartz-sand disintegration residuum
- xgb — Latite-clast disintegration residuum

HOLOCENE TO MIDDLE PLEISTOCENE

- jbc — Bouldery crystalline-rock landslide deposit
- xsg — Feldspathic quartz-sand disintegration residuum

LATE PLEISTOCENE

- elb — Loess (Peoria Formation)

LATE AND MIDDLE PLEISTOCENE

Bouldery till (till of Pinedale and Bull Lake glaciations)

- tbg — Crystalline-clast bouldery till
- tbj — Mixed-lithology-clast bouldery till
- gqq — Outwash sand and gravel (outwash of Bull Lake, Pinedale, and post-Pinedale ages)
- ags — Alluvial sand, silt, clay and gravel (Louviers and Slocum Alluviums, undivided; late middle Pleistocene)

MIDDLE AND EARLY PLEISTOCENE

- tbk — Bouldery till (till of pre-Bull Lake glaciations)
- gge — Outwash sand and gravel (outwash of pre-Bull Lake glaciations)
- agm — Alluvial gravel and sand (Verdos and Rocky Flats Alluviums, undivided; early middle Pleistocene and early Pleistocene)

PLEISTOCENE

- pga — Pediment gravel

QUATERNARY

- cra — Hogback and rangefront colluvium, alluvium, and rock outcrop complex

EARLY PLEISTOCENE AND PLIOCENE?

- QTdd — Diamicton

PRE-QUATERNARY

- R — Bedrock

Contact

Open water

High-angle reverse fault, Quaternary age—Inferred, R on upthrown block

INDEX MAP SHOWING AREA OF DENVER QUADRANGLE AND OTHER PUBLISHED GEOLOGIC MAPS

GENERALIZED SURFICIAL GEOLOGIC MAP OF THE DENVER 1° x 2° QUADRANGLE, COLORADO

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