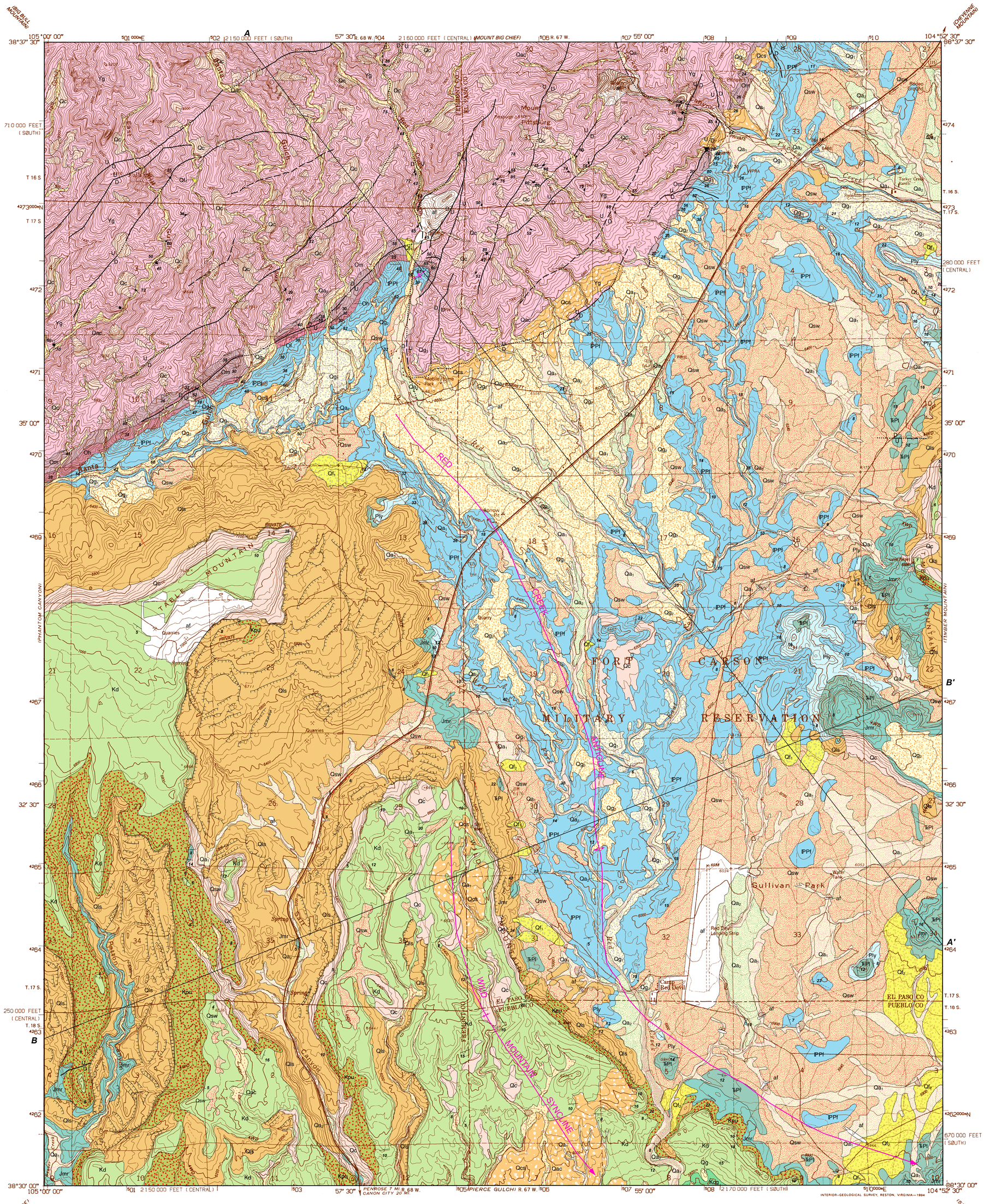
COLORADO GEOLOGICAL SURVEY
DEPARTMENT OF NATURAL RESOURCES
DENVER, COLORADO

OPEN-FILE REPORT 06-5
GEOLOGIC MAP OF THE MOUNT PITTSBURG QUADRANGLE,
EL PASO, FREMONT, AND PUEBLO COUNTIES, COLORADO
Plate 1 of 2
Booklet accompanies map



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_1 — Alluvium one (latest Holocene)
- Qa_2 — Alluvium two (late Holocene to late Pleistocene)
- Qg_1 — Gravel deposit one (middle Pleistocene)
- Qg_2 — Gravel deposit two (middle Pleistocene)
- Qg_3 — Gravel deposit three (early Pleistocene)
- Qg — Gravel deposits, undivided (middle to early Pleistocene)

ALLUVIAL AND COLLUVIAL DEPOSITS

- Qac — Alluvium and colluvium, undivided (Holocene and late Pleistocene)
- Qsw — Sheetwash alluvium (Holocene and late Pleistocene)
- Qcs — Colluvium and sheetwash deposits, undivided (Holocene and late Pleistocene)
- Qc — Colluvium deposits (Holocene and late Pleistocene)
- Qf_1 — Alluvial-fan deposit one (late Holocene)
- Qf_2 — Alluvial-fan deposit two (early Holocene)

MASS-WASTING DEPOSITS

- Qls — Landslide deposits (Holocene to middle Pleistocene)

BEDROCK UNITS

- Kcg — Graneros Shale (Upper Cretaceous)
- Kd — Dakota Sandstone (Lower Cretaceous)
- Kpu — Purgatoire Formation (Lower Cretaceous)
- Jmr — Morrison Formation and Ralston Creek Formation, undifferentiated (Upper Jurassic)
- TrPl — Lykins Formation (Lower Triassic? and Upper Permian)
- Ply — Lyons Sandstone (Upper and Middle? Permian)
- IPPf — Fountain Formation (Lower Permian and Pennsylvanian)
- Of — Fremont Formation (Middle Ordovician)
- Oh — Harding Formation (Lower Ordovician)
- Om — Manitou Formation (Lower Ordovician)
- Yg — Granite, undivided (Middle Proterozoic)

MAP SYMBOLS

- Contact—Approximately located
- Fault—Certain; dashed where approximately located; dotted where concealed
- Anticline—End arrow indicates direction of plunge
- Syncline—End arrow indicates direction of plunge
- Landslide scarp—Hatchures on downside of scarp
- Strike and dip of bedding
  - Inclined—Showing direction and angle of dip
  - Vertical
- Strike and dip of fractures
  - Inclined—Showing direction and angle of dip
  - Vertical
- Landslide block—Showing direction and angle of dip
- A——A' Alignment of cross sections

Base from U.S. Geological Survey, 1992
Polyconic projection, 1927 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 1994 MAGNETIC NORTH DECLINATION CENTER OF MAP DIAGRAM IS APPROXIMATE

SCALE 1:24,000

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

Colorado
Quadrangle Location

1	2	3
4		5
6	7	8

1 Big Bull Mountain
2 Mount Big Chief
3 Cheyenne Mountain
4 Phantom Canyon
5 Timber Mountain
6 Florence
7 Pierce Gulch
8 Stone City

ADJOINING 7.5' QUADRANGLES

Geology mapped in 2005
GIS and cartography by Karen Morgan

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1994

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