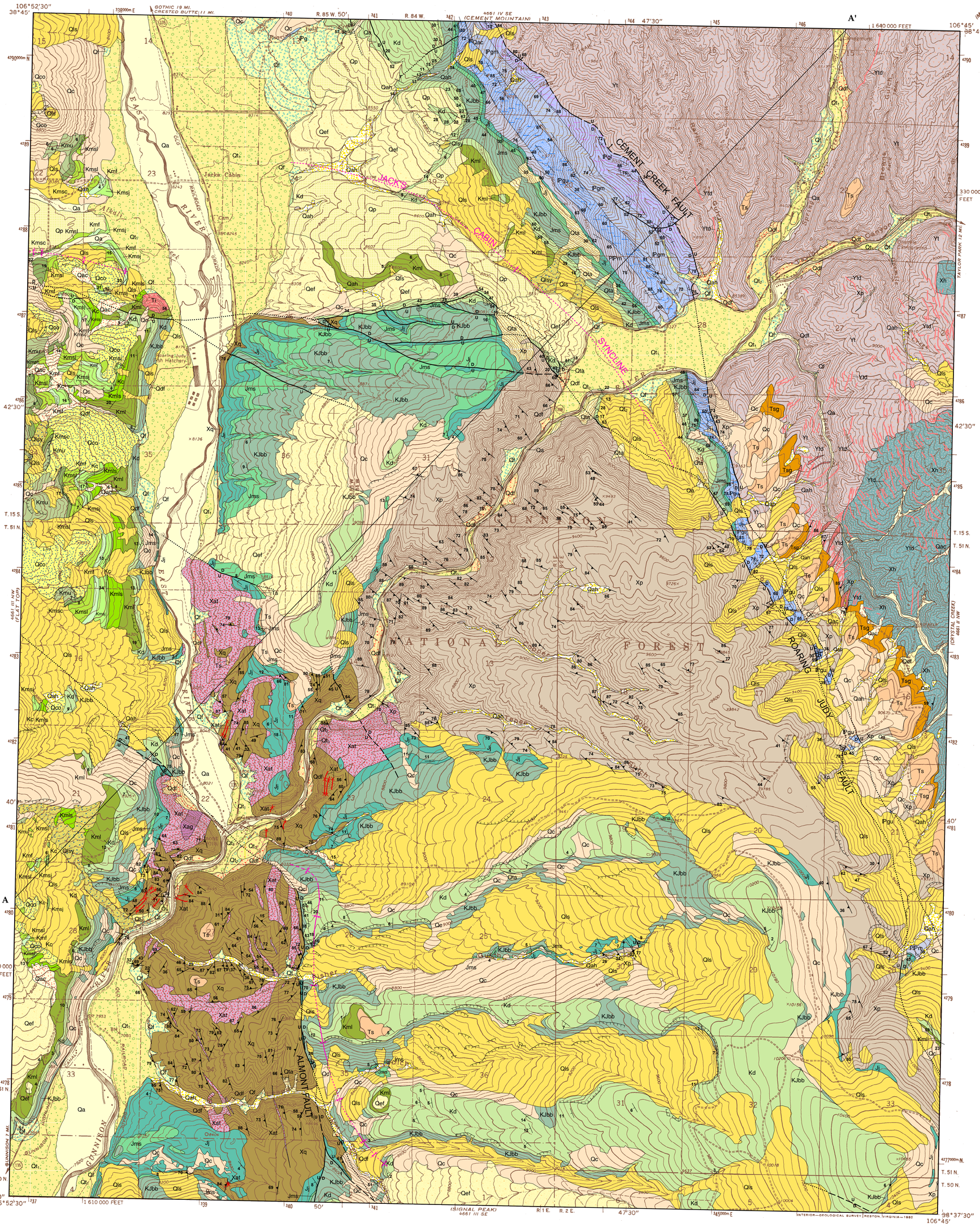
COLORADO GEOLOGICAL SURVEY
DEPARTMENT OF NATURAL RESOURCES
DENVER, COLORADO

OPEN-FILE REPORT 05-5
GEOLOGIC MAP OF THE ALMONT QUADRANGLE
GUNNISON COUNTY, COLORADO
PLATE 1 OF 2
Author's Notes accompanies map



Base from U.S. Geological Survey, 1964
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

UTM GRID AND 1964 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 Crested Butte
2 Cement Mtn
3 Matchless Mtn
4 Flat Top
5 Crystal Peak
6 Gunnison
7 Signal Peak
8 Parlin

ADJOINING 7.5' QUADRANGLES

Geology mapped in 2004;
Field assistants Cody Allen and Dylan Tullius
GIS and cartography by Karen Morgan

GEOLOGIC MAP OF THE ALMONT QUADRANGLE, GUNNISON COUNTY, COLORADO

By James C. Coogan, Allen L. Stork, and Robert P. Fillmore

2005

LIST OF MAP UNITS

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

SURFICIAL DEPOSITS

ALLUVIAL DEPOSITS

- Qa — Stream and flood-plain alluvium (Holocene)
- Qt_1 — Stream terrace alluvium one (upper Pleistocene)
- Qt_2 — Stream terrace alluvium two (upper Pleistocene)
- Qt_3 — Stream terrace alluvium three (upper Pleistocene)
- Qaf — Alluvial-fan deposits (Holocene and upper Pleistocene)
- Qdf — Debris-fan deposits (Holocene and upper Pleistocene)
- Qha — High-level alluvium (Quaternary)

MASS-WASTING DEPOSITS

- Qta — Talus deposits (Holocene)
- Qc — Colluvium (Quaternary)
- Qco — Older colluvium (Pleistocene(?))
- Qlsy — Younger mass-movement deposits, undivided (Holocene)
- Qls — Mass-movement deposits, undivided (Quaternary)
- Qef — Earthflow deposits (Holocene(?) - Pleistocene(?))

ALLUVIAL AND MASS-WASTING DEPOSITS

- Qac — Alluvium and colluvium (Quaternary)
- Qp — Pediment deposits (Pleistocene)

TERTIARY SEDIMENTARY DEPOSITS

- Ts — Gravel and alluvial deposits (Pliocene(?))
- Tsg — Grus deposits (Pliocene(?))

BEDROCK UNITS

- Ti — Trachyte of Roaring Judy (Miocene)
- Kmu — Mancos Shale (Upper Cretaceous) Upper shale
- Kmsc — Calcareous shale of the Smoky Hill Member
- Kmsl — Lower shale of the Smoky Hill Member
- Kmf — Fort Hays Limestone Member
- Kmsj — Unnamed shale member and Juana Lopez Member
- Kc — Codell Sandstone Member
- Kmls — Lower shale
- Kml — Lower member
- Kd — Dakota Sandstone (Upper Cretaceous)
- KJbb — Burro Canyon Formation (Lower Cretaceous) and 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)
- PIPm — Maroon Formation (Pennsylvanian-Permian)
- IPg — Gothic Formation, undivided (Pennsylvanian)
- IPgu — Upper member
- IPgm — Middle member
- IPgl — Lower member
- IPb — Belden Formation, (Middle Pennsylvannian) (Shown only on cross section)
- Ml — Leadville Limestone (Lower Mississippian) (Shown only on cross section)
- MDc — Chaffee Group (Lower Mississippian? and Upper Devonian) (Shown only on cross section)
- Ou — Ordovician undivided -- includes from top to base: Fremont Limestone (Upper Ordovician), Harding Sandstone (Middle Ordovician), and Manitou Dolomite (Lower Ordovician) (Shown only on cross section)
- Cs — Sawatch Quartzite (Upper Cambrian) (Shown only on cross section)
- Ytd — Taylor River dikes (Middle Proterozoic)
- Yt — Granite of Taylor River (Middle Proterozoic)
- Xat — Tonalite of Almont (Early Proterozoic)
- Xag — Quartz gabbro of Almont (Early Proterozoic)
- Xh — Henry Mountain Granite (Early Proterozoic)
- Xq — Biotite quartzite (Early Proterozoic)
- Xp — Chlorite phyllite (Early Proterozoic)

MAP SYMBOLS

- Contact—Approximately located
- High-angle fault—Dashed where approximate; dotted where inferred. U on upthrown side; D on downthrown side. Arrow indicates direction of dip; arrow number indicates field measurement of dip magnitude.
- Syncline—Dashed where approximate; dotted where inferred.
- Landslide scrab
- Strike and dip of bedding or contacts
  - Inclined—Showing direction and angle of dip
  - Overturned—Showing direction and angle of dip
  - Horizontal
  - Vertical
- Strike and dip of foliation
  - Inclined—Showing direction and angle of dip
  - Vertical
- A——A' Alignment of cross section
- Apparent dip of field-measured bedding and foliation (Shown only on cross section)

COLORADO DEPARTMENT OF NATURAL RESOURCES
COLORADO GEOLOGICAL SURVEY

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