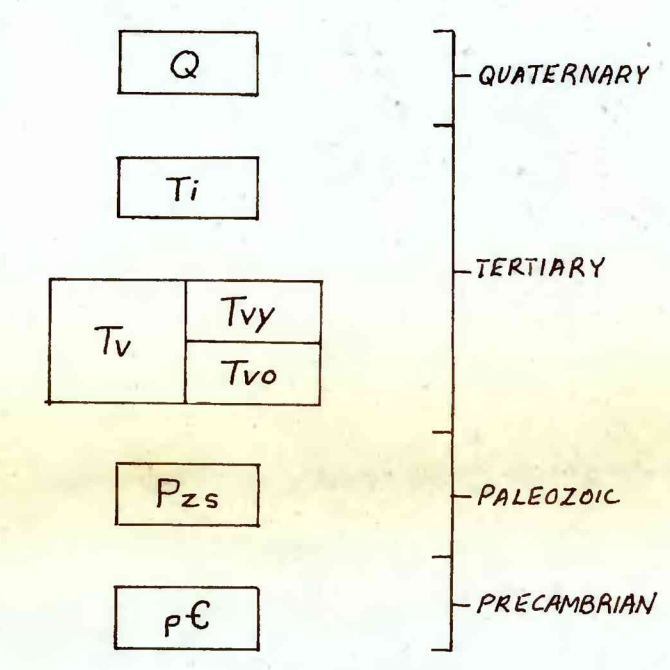


CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

- Q** SURFICIAL DEPOSITS — Includes landslide material, rock glaciers, talus and related materials on slopes, alluvium in stream valleys and mountain basins, and unconsolidated glacial debris, all of probable Quaternary age.
  - Ti** INTRUSIVE IGNEOUS ROCKS — Includes a large stock of intermediate composition and smaller irregular plutons and dikes of mafic to silicic composition, all of late to middle Tertiary age.
  - Tv** VOLCANIC AND SEDIMENTARY ROCKS, UNDIFFERENTIATED — Includes lava flows, flow breccias, ash-flow tuffs, and volcaniclastic rocks representing the Henson, Burns, Picayune, and San Juan Formations and Eureka Member of the Sapinero Mesa Tuff, and conglomeratic beds representing the Telluride Conglomerate, all of middle to early Tertiary age.
  - Tvy** VOLCANIC ROCKS, YOUNGER — Includes those Tertiary rock units deposited during and following formation of the San Juan caldera.
  - Tvo** VOLCANIC AND SEDIMENTARY ROCKS, OLDER — Includes those Tertiary rock units deposited before formation of the San Juan caldera.
  - Pzs** PALEOZOIC SEDIMENTARY ROCKS — Includes beds of conglomerate, sandstone, siltstone, shale, limestone, and dolomite in even to irregular thin to thick beds. Represents the Permian Cutler Formation, Pennsylvanian Rico, Hermosa, and Molas Formations, Mississippian Leadville Limestone, Devonian Ouray Limestone and Elbert Formation, and Cambrian Ignacio Quartzite.
  - pE** PRECAMBRIAN ROCKS — Includes metasedimentary and metaigneous quartzite, schist, gneiss, and amphibolite, and diabase dikes (d).
- CONTACT — Dashed where approximately located.
- +— VEIN OR MINERALIZED FAULT — Bar and ball on downthrown side.
- - - FAULT — Dashed where approximately located; dotted where concealed. Bar and ball on downthrown side.
- 10° STRIKE AND DIP
- 90° PLANAR STRUCTURES — Flow layering in lava flows, and gneissic and schistose foliation in metamorphic rocks.

Mapped, edited, and published by the Geological Survey  
Control by USGS and USCGS  
Topography from aerial photographs by multiple methods  
Aerial photographs taken 1951. Field check 1955

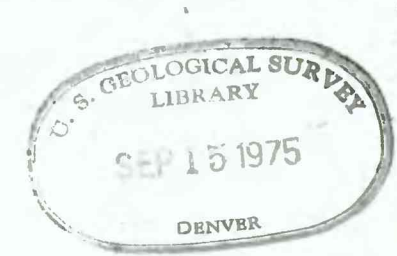
SCALE 1:20000

CONTOUR INTERVAL 40 FEET

PRELIMINARY GEOLOGIC MAP OF THE SILVERTON QUADRANGLE, COLORADO

BY ROBERT G. LUEDKE AND WILBUR S. BUREANK

1975



GEOLOGY IN SOUTHEAST PART MODIFIED  
IN PART FROM U.S.G.S. P.P. 378-A.

U.S. Geological Survey  
OPEN FILE MAP 75-433  
This map is preliminary and has not  
been edited for conformity with  
Geological Survey standards or  
nomenclature.