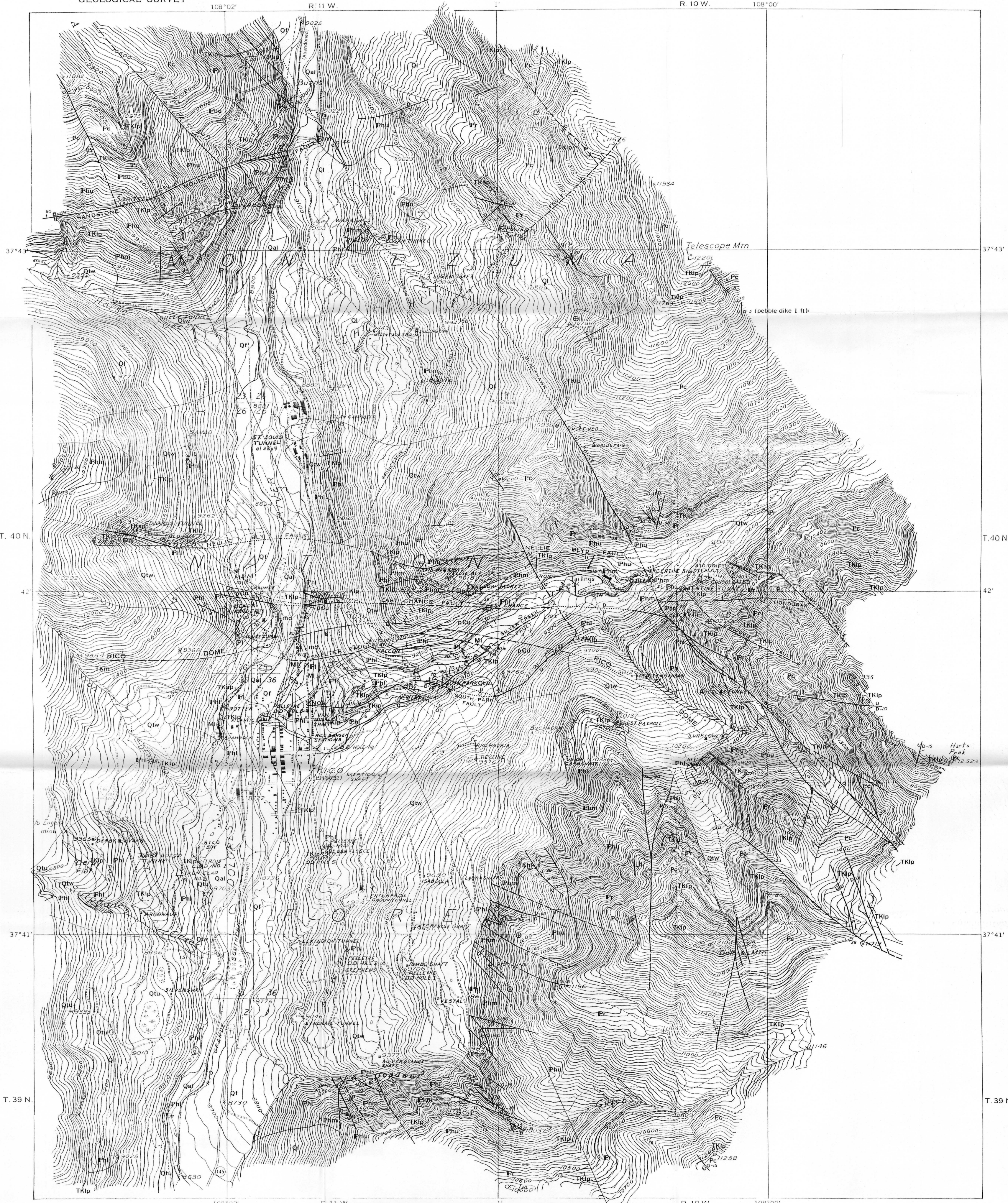
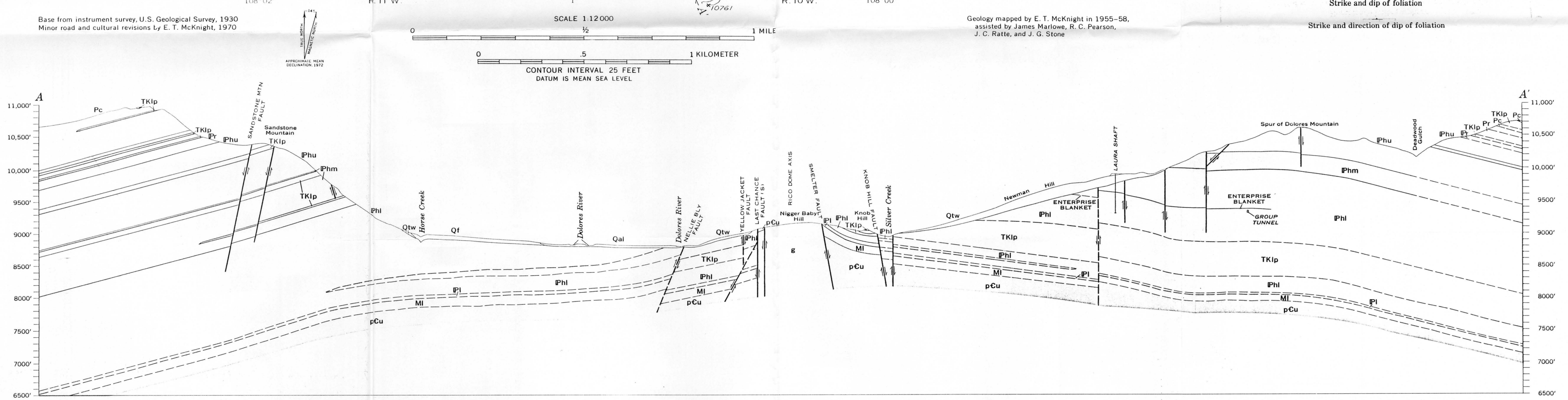




EXPLANATION	
SURFICIAL DEPOSITS	
Qal	Alluvium and stream gravel
Qf	Torrential fans
Qtw	Talus and slope wash
Ql	Landslide deposits
Qtu	Calcareous tufa
QUATERNARY	
TKap	Alaskite porphyry Rounded quartz phenocrysts in pale-gray or pale-drab aphanitic groundmass; forms dikes and sill-like bodies; age relative to other igneous bodies unknown
TKhl	Hornblende lamprophyre Sparse phenocrysts of hornblende, and quartz grains of uncertain origin, in dark-gray aphanitic groundmass; forms dikes at top of middle member of Hermosa Formation, 1 mile southeast of Rico; age relative to other igneous bodies unknown
TKm	Monzonite Medium-grained light gray phaneritic rock speckled by dark grains of hornblende, or augite and biotite, or all three; forms stock west of Rico
TKlp	Hornblende latite porphyry Speckled rock containing white and black phenocrysts of plagioclase and hornblende, respectively, in a gray, lavender-gray, or pinkish-brown groundmass; forms sills and dikes throughout district
CRETACEOUS(?) OR TERTIARY(?)	
Pc	Cutler Formation Interbedded shale, arkose, conglomerate, sandstone, and subordinate impure limestone—all deposited in fresh water; arkoses and conglomerates greenish to purplish gray; sandstones generally purple to red; shaly facies generally red or maroon; limestones thin and red, purple, green, or gray
Pr	Rico Formation Arkose, sandstone, conglomerate, subordinate shale, minor shaly and sandy limestone—partly deposited in marine waters; arkoses and sandstones greenish to purplish gray, less commonly reddish gray; shaly facies generally red or maroon, less commonly greenish gray; limestones thin and of marine (gray) and fresh-water (red, purple, maroon, green, or gray) types
PERMIAN	
Phu	Hermosa Formation Phu, upper member, arkose, sandstone, shale, conglomerate, marlstone, minor limestone in thin beds, predominantly deposited in marine waters; arkose and sandstones greenish to purplish gray; shaly facies gray, black, and brownish red; limestones gray
Phm	Phm, middle member, massive fossiliferous marine limestone in thick beds; generally prominent also, except in southeast part of district, are arkose, sandstone, and shale; limestones gray; clastic strata dominantly greenish gray, locally brownish red, or shales in part black
Phl	Phl, lower member, sandstone, siltstone, arkose, shale, minor limestone or dolomite, locally a bed of gypsum; limestones and dolomites gray; clastic strata greenish gray, or shales in part black
PENNSYLVANIAN	
Pl	Larsen Quartzite Light-gray to brown, locally red tinted or nearly black, may have silty matrix in part; locally contains fragments of fossiliferous (Mississippian) chert; may grade laterally to facies of Moles Formation in subsurface of Neuman Hill and Deadwood Gulch areas (see text description of Larsen Quartzite)
MISSISSIPPIAN	
Ml	Leadville Limestone White to gray marbled limestone and dolomite containing contact metamorphic silicates and minor light-gray chert; locally contains minor interbedded siltstone or green shale; underlain in subsurface by Huray Limestone of Devonian age
pCu	Uncompahgre Quartzite Pale-gray well-indurated quartzite; commonly stained red; bedding generally obscure; pyritized chlorite schist layers are interbedded locally, and contain a bed of fine-grained dolomite at one locality
PRECAMBRIAN	
md	Metadiorite Coarse- to fine-grained, nearly black, conspicuously hornblende, unfoliated metadiorite; occurs as thick lenses and pods in greenstone (g)
g	Greenstone Dark-greenish-gray fine-grained, generally unfoliated or poorly foliated, but locally phyllitic greenstone
Contact, showing dip Dashed where approximately located	
Fault, showing dip In part projected from mine workings. Dashed where approximately located; dotted where concealed by mapped surficial deposits. U, upthrown side; D, downthrown side. Vertical displacement, in feet, shown where measured or calculated	
Inclined Vertical Horizontal Strike and dip of beds In part projected from mine workings	
Inclined Vertical Horizontal Strike and dip of foliation	
Strike and direction of dip of foliation	



GEOLOGIC MAP AND SECTION OF RICO DISTRICT, COLORADO