

EXPLANATION

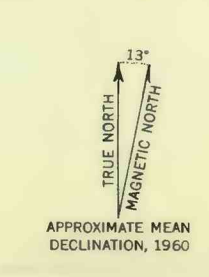
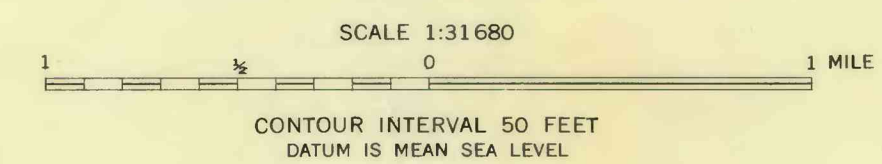
- Alluvium
Fan, terrace, pediment, and stream-channel deposits
- UNCONFORMITY
- Andesite dikes, showing dip
- Helmet fanglomerate
Andesite lava flows, Ths; monolithic breccias, Thb. Parent formation of monolithic breccias indicated by symbols in parenthesis, as (TKg), (Kar), (Ka), (Ks)
- UNCONFORMITY
- Quartz monzonite porphyry
- Granodiorite
Includes granodiorite porphyry, aplite, and pegmatite
- Rhyolitic tuff
- Andesite dikes and plugs
- Diorite
- INTRUSIVE CONTACT UNCONFORMITY
- Sedimentary-volcanic complex
Kar, arkose, quartzite, conglomerate, shale, and scarce thin beds of limestone; Ka, andesite tuffs, breccias, flows, and some conglomerates; Kas, interbedded andesite and sedimentary rocks; Krs, rhyolite, quartzite, gneiss, and conglomerate
- UNCONFORMITY
- Paleozoic sedimentary rocks
Permian to Cambrian units undifferentiated. Basal unit, Bala quartzite of Middle Cambrian age, stippled
- UNCONFORMITY
- Granite, locally containing abundant large inclusions of schist and hornfels
- Contact, showing dip
Dashed where approximately located; dotted where concealed
- Fault, showing dip and plunge of strike
Dashed where approximately located; dotted where concealed. U, upthrown side; D, downthrown side
- Thrust fault, showing dip
Saw-tooth on side of upper plate
Dashed where approximately located; dotted where concealed
- Anticline
Showing trace of axial plane and direction of plunge; dashed where approximately located
- Strike and dip of beds
- Strike and dip of overturned beds
- Strike and dip of foliation
- Strike of vertical foliation
- Open-pit mine
Dashed where approximately located
- Shaft
- Portal of adit
- Prospect pit or shaft

QUATERNARY
TERTIARY
CRETACEOUS(?)
CAMBRIAN TO PERMIAN
PRECAMBRIAN

Base from U. S. Geological Survey 1:62500
Twin Buttes quadrangle, 1957

PRELIMINARY GEOLOGIC MAP OF THE EASTERN PART OF THE PIMA MINING DISTRICT,
PIMA COUNTY, ARIZONA

Geology by J. R. Cooper, A. R. Conroy,
J. H. Stewart, and J. C. Wright, 1957-59



111°10' 32°00' T. 16 S. R. 12 E. 5' R. 13 E. 111°00' 32°00' T. 17 S. 111°10' 32°00' T. 18 S. R. 12 E. R. 13 E. 111°00' 32°00' T. 18 S.