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EXPLANATION

QT

Post-volcanic rocks  
Principally gila conglomerate  
and alluvium

Tdb  
Tdw  
Tdg  
Tdb

Dacitic ash flows  
Tdb - basal tuff, vitrophyre and  
brown zone; Tdg - gray zone; Tdw -  
white zone; Tda - air-fall tuff;  
Td - undivided

Tav

Earlier volcanic rocks  
Mostly rhyolite and obsidian  
flows, tuffs, and tuff breccias

pv

Pre-volcanic rocks  
Metamorphic, sedimentary,  
and igneous rocks

Contact

Dashed where approximately  
located

165

Fault, showing dip  
Dashed where approximately  
located

235

Number of feet of vertical  
separation on fault. Symbol on  
downthrown side

15

Strike and dip of planar  
structure in volcanic  
rocks

⊕

Horizontal planar structure

0.50 0.37

Average flattening ratio of  
pumice fragments on opposite  
sides of fault

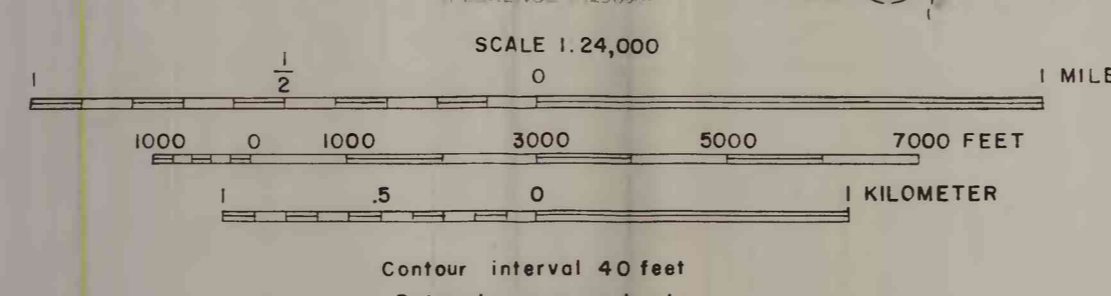
PLEASE REPLACE IN POCKET  
IN BACK OF BOUND VOLUME

TERTIARY AND  
QUATERNARY

TERTIARY (?)

PRECAMBRIAN  
TO TERTIARY (?)

Mapped, edited, and published by the Geological Survey  
Control by USGS and USC&GS  
Topography from series photographs by helicopter and  
Aerial photographs taken 1945. Field check 1948  
Political boundaries 1927 North American datum  
10,000 foot grid based on Arizona coordinate system



Geology by D.W. Peterson, 1958-60.

U. S. Geological Survey  
OPEN FILE REPORT  
This report is preliminary and has  
not been edited or reviewed for  
conformity with Geological Survey  
standards or nomenclature.

Plate 4.--Partial geologic map of the Superior quadrangle, Arizona. Pre-volcanic and post-volcanic rocks generalized; dacitic ash flows partly divided into zones.