

Upper Cretaceous or lower Tertiary Pliocene(?) Pleistocene Recent

QUATERNARY

TERTIARY

CRETACEOUS OR TERTIARY

PRECAMBRIAN

Yavapai Series

Alder Group

Spud Mountain Volcanics

Upper unit

Lower unit

Iron King Volcanics

Quartz lenses, pods, and veins

Silicified and sericitized rocks

Contact

Fault

Plunge of minor fold axes

Plunge of cleavage-bedding intersection

Inclined

Vertical

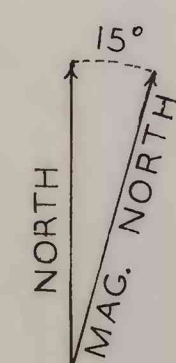
Inclined

Vertical

Approximate strike and top of pillow structure

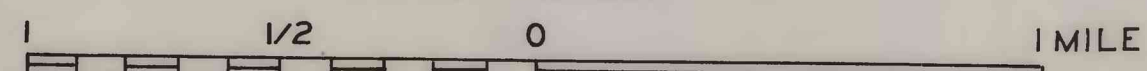
Qr
River wash
qt
Terrace deposits
Qg
Reddish gravels
Thb Thc Ths Thl
Hickey Formation
 Thb, basaltic flows
 Thc, basaltic cinders
 Ths, conglomerate and sandstone
 Thl, latite tuff
TXr
Rhyolite porphyry dikes
apλ
Aplitic and pegmatitic dikes
qm
Quartz monzonite
fg
Fine-grained granite
cqd
Coarse-grained quartz diorite
qd
Medium-grained quartz diorite
di
Diorite, marginal facies of medium-grained quartz diorite
gb
Gabbro
db
Diabase
qp qqp qps
Quartz porphyry
 qp, quartz phenocrysts 1 to 3 mm
 qqp, quartz phenocrysts 5 mm and larger
 qps, silicified quartz porphyry
gr
Granophyre
ika ikr ikc ikab
Iron King Volcanics
 ika, andesitic-basaltic flows
 ikr, rhyolitic tuffs and flows
 ikc, interbedded ferruginous chert and slate
 ikab, andesitic-basaltic flows containing abundant brecciated chert
smr smt smc sma
Upper unit
 smr, bedded rhyolitic tuff
 smt, fine-grained bedded andesitic tuffaceous rock
 smc, interbedded chert and slate
 sma, basaltic and andesitic flows (also in lower unit)
smb smbt sma smrh
Lower unit
 smb, andesitic breccia and interbedded tuffaceous sedimentary rock
 smbt, fine-grained tuffaceous sedimentary rock, dominantly light colored
 sma, basaltic and andesitic flows
 smrh, coarse rhyolitic breccia, flows, and intrusive masses
psl
Quartz lenses, pods, and veins
 Includes some recrystallized chert beds
ss
Silicified and sericitized rocks
 Contact
 Dashed where approximately located
 Fault
 Plunge of minor fold axes
 Plunge of cleavage-bedding intersection
 Inclined
 Vertical
 Inclined
 Vertical
 Approximate strike and top of pillow structure

PRELIMINARY GEOLOGIC MAP OF THE SW 1/4 MAYER QUADRANGLE, YAVAPAI COUNTY, ARIZONA



BY C. A. ANDERSON

SCALE 1:24000



CONTOUR INTERVAL 50 FEET

GEOLOGY BY C. A. ANDERSON 1964-67

THIS MAP IS PRELIMINARY AND HAS NOT BEEN EDITED OR REVIEWED FOR CONFORMITY WITH US GEOLOGICAL SURVEY STANDARDS AND NOMENCLATURE