

Geologic map of the Picketpost Mountain and the southern part of the Iron Mountain 7 1/2' Quadrangles, Pinal County, Arizona

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MAP UNITS

Upper Cenozoic deposits

- Qc Undivided surficial deposits (Quaternary)
- Qcd Disturbed ground (Holocene)
- Qc Talus and colluvium (Quaternary)
- Qal Unconsolidated alluvium (Quaternary)
- Qoa Old alluvium (Quaternary)
- Qla Active landslide deposits (Quaternary)
- QTL Older landslide deposits (Quaternary or Tertiary)
- QTLs Older alluvium, (early Quaternary to late Tertiary)

Middle Tertiary rocks

- Tcg Conglomerate (middle Tertiary)
- Tss Sandstone (middle Tertiary)
- Tb Basalt (middle Tertiary)
- Tvx Volcanogenic breccia (middle Tertiary)
- Tql Quartz latite (middle Tertiary)
- Tp Perlitic aphyric rhyolite (middle Tertiary)
- Tal Apache Leap tuff (middle Tertiary)
- Tr Spherulitic rhyolite (middle Tertiary)
- Tt Tuff (middle Tertiary)
- Tf Felsic volcanic rocks, undivided (middle Tertiary)
- Tfp Crystal poor felsic volcanic rocks (middle Tertiary)
- Tfa Andesitic volcanic rocks (middle Tertiary)
- Tbl Lower basalt (middle Tertiary)
- Tx Rock avalanche or talus breccia (middle Tertiary)
- Tw Whitetail conglomerate (middle Tertiary)
- Tdf Felsic dikes (middle Tertiary)
- Tda Aphanitic felsic to intermediate dikes (middle Tertiary)
- Tdb Basaltic dikes (middle Tertiary)
- Tg Granite (middle Tertiary)
- Tgx Intrusive breccia (middle Tertiary)

Cretaceous rocks

- Kd Quartz diorite (Cretaceous)

Paleozoic rocks

- Me Escabrosa Limestone (Mississippian)
- Dm Martin Limestone (Devonian)
- Cb Bols Quartzite (Cambrian)

Middle Proterozoic rocks of the Apache Group and associated diabase

- Yd Diabase (middle Proterozoic)
- Ym Mesal Limestone (middle Proterozoic) Yb Bosoll
- Yds Dripping Spring Quartzite, undivided (middle Proterozoic)
- Ydsu Dripping Spring Quartzite, upper unit (middle Proterozoic)
- YdsL Dripping Spring Quartzite, lower unit (middle Proterozoic)
- Yp Pioneer Shale (middle Proterozoic)
- Ypt Tuff in Pioneer Formation (middle Proterozoic)

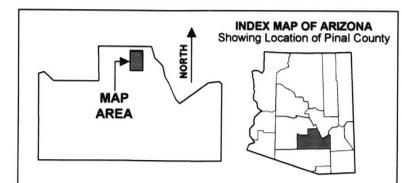
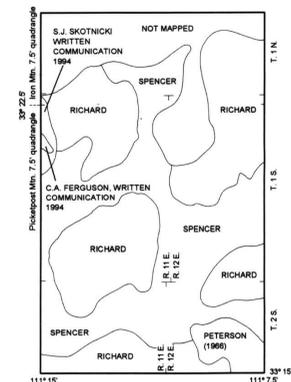
Early to middle Proterozoic plutonic and metamorphic rocks

- Yg Rulu granite (middle Proterozoic)
- YXg Granite (early or middle Proterozoic)
- YXgd Granodiorite (early or middle Proterozoic)
- YXd Diorite (early or middle Proterozoic)
- YXh Hornblende (early or middle Proterozoic)
- YXgm Mixed schist and granite (early or middle Proterozoic)
- Xp Pinal Schist, undivided (early Proterozoic)
- Xps Pelitic schist (early Proterozoic)
- Xpm Psammitic facies (early Proterozoic)
- Xpc Calc-silicate facies (early Proterozoic)
- Xpcs Calc-silicate and schist facies (early Proterozoic)
- Xpq Quartzite layers (early Proterozoic)
- Xpp Pinal Schist, phyllitic facies (early Proterozoic)

SYMBOLS

- FOLIATION; strike and dip**
Broken and wavy line may be used to indicate approximate measurements or curvilinear foliation in conjunction with any symbol
- Primary bedding**
upright vertical overturned irregular approximate
dots on strike line indicate facing direction based on primary features
- FLOW FOLIATION**
flow banding in lavas or hypabyssal intrusions, autoclinal foliation in welded tuffs, igneous flow foliation in plutons
- Tectonic foliations**
Generic foliation
Compositional banding, > 1 m-scale
Banding formed by transposed bedding
Banding of uncertain or metamorphic origin
Compositional banding, < 1 m-scale
Banding of metamorphic origin
Schistosity, continuous cleavage
Disjunct cleavage (fracture cleavage)
Disjunct cleavage parallel to bedding
- Superimposed fabrics** symbols as above, double dip lines indicate that fabric is superimposed
Axial surface to small-scale crenulation
Disjunct cleavage
Compositional layering < 1cm thick, formed by transposition of thin compositional layering
Similar to above, but fabric is very planar; quartz veins mostly transposed to concordant lenses
- LINEAR FEATURES; trend and plunge**
MINOR FOLD HINGE, showing plunge direction
upright, symmetrical fold
cascade fold
asymmetrical fold showing vergence ('S' or 'Z')
- LINEATIONS**
Mineral lineation in L-tectonites
- APPARENT DIP**
Trace of bedding on cliffs or steep slopes
- CONTACTS**
Solid lines indicate precise location, dashed lines approximate location, dashed with queries very approximate, and dotted where inferred beneath younger blanketing or intrusive units.
intrusive or depositional contact; dots indicate basal conglomerate above depositional contact.
- FAULTS**
ball on down-thrown side, arrow indicates dip
- MISCELLANEOUS**
Tie line joining regions underlain by same map unit
Alteration
Zone of limonitic staining
Zone of silicification and limonitic staining
Local marker horizon (lava flow boundary, tuff etc.) in Tt
Contact between Pinal Schist-rich conglomerate below and Dripping Spring clast rich conglomerate above in Tc

SOURCES OF MAP DATA



Arizona Geological Survey Open-File Report 95-15, Sheet 1 of 1, with text

