

**Explanation to accompany geologic map of the  
Humboldt Mountain 7.5' Quadrangle, Maricopa County, Arizona  
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Arizona Geological Survey  
Open-File Report 98-11, sheet 2 of 3, with text

**MAP UNITS**

**QUATERNARY**

- Qay** Younger alluvium
- Qao** Older alluvium
- Qc** Talus and colluvium

**TERTIARY**

- Tcyu** Younger conglomerate (upper)
- Tcyl** Younger conglomerate (lower)
- Tdt** Dacite tuff
- Tdi** Dacite intrusion
- Tb** Basalt lava
- Tbs** Basaltic scoria and sandstone
- Tbb** Basalt breccia
- Tbl** Lower basalt
- Tvi** Intermediate volcanic intrusion
- Tsa** Arkosic sandstone
- Tvs** Volcaniclastic sandstone
- Tt** Nonwelded tuff
- Tcl** Conglomerate and limestone
- Tc** Conglomerate
- Tl** Latite

**MIDDLE PROTEROZOIC**

- Yq** Quartz vein
- Yg** Megacrystic granite
- Yd** Diorite

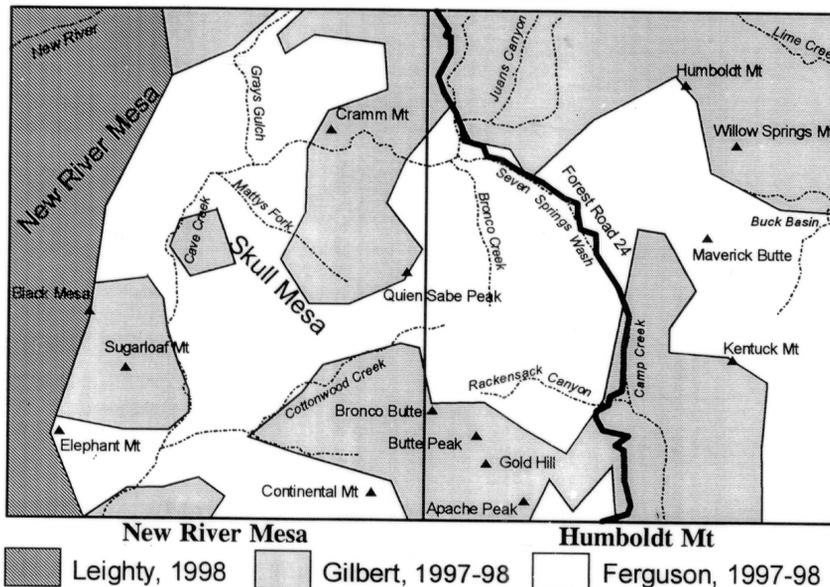
**EARLY PROTEROZOIC**

- Xg** Equigranular granite
- Xd** Dacite
- Xs** Turbidites
- Xu** Undivided supracrustal rocks
- Xc** Chert
- Xms** Green argillite
- Xsc** Siliceous pelite and chert
- Xl** Limestone
- Xma** Mafic and Andesitic rocks
- Xf** Felsite
- Xm** Mafic volcanic rocks
- Xcm** Mudstone
- Xcg** Conglomerate
- Xa** Andesite
- Xfv** Felsic lava
- Xfs** Felsic volcaniclastic and pyroclastic rocks

**MAP SYMBOLS**

Contacts, dashed where approximate, dotted where concealed by younger deposits

- depositional and intrusive
- normal fault, ball in hanging wall
- Strike and dip of planar features**
- foliation in lavas and primary foliation in plutonic rocks
- bedding
- bedding, stratigraphic facing known
- overturned bedding, stratigraphic facing known
- cleavage, ranging from slaty cleavage to schistosity (S<sub>1</sub>)
- dip of fault plane, spike indicates dip direction
- Trend of linear features**
- paleocurrent direction from pebble imbrication in conglomerate
- intersection lineation between bedding and cleavage in metamorphic rocks
- Cross-section end points**
- A A'
- Fold axis**
- anticline showing plunge
- syncline
- overturned syncline
- Geochronology sample location



Mapping responsibility

**GEOCHRONOLOGY**

Location	Date	Technique	Sample	Source
1	21.02 ± 0.12 Ma*	<sup>40</sup> Ar/ <sup>39</sup> Ar sanidine	1-16-98-3	This report (in progress)
2		U-Pb	F8-226-A,B,C	in storage (AZGS)

\* Date added 3/15/99

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