Explanation to accompany geologic map of
Humboldt Mountain 7.5' Quadrangle, Maricopa County, Arizona
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1998

Arizona Geological Survey
Open-File Report 98-11, sheet 2 of 3, with text

MAP UNITS

QUATERNARY
Qay Younger alluvium
Qno Older alluvium
Qc Talus and colluvium

TERTIARY
Teyu Younger conglomerate (upper)
Teyl Younger conglomerate (lower)
Tdt Dacite tuff
Tdi Dacite intrusion
Tb Basalt lava
Tbs Basaltic scoria and sandstone
Tbb Basalt breccia
Tb1 Lower basalt
Tvi Intermediate volcanic intrusion
Tsa Arkosic sandstone
Tvs Volcaniclastic sandstone
Tr Nonwelded tuff
Teh Conglomerate and limestone
Tc Conglomerate
Tl Latite

MIDDLE PROTEROZOIC
Yq Quartz vein
Yg Megacrystic granite
Yd Diorite

EARLY PROTEROZOIC
Xg Equipogranular granite
Xd Dacite
Xs Turbidites
Xu Undivided supracrustal rocks
Xc Chert
Xms Green argillite
Xec Siliceous pelite and chert
Xi Limestone
Xma Mafic and Andesitic rocks
Xf Felsite
Xm Mafic volcanic rocks
Xcm Mudstone
Xcg Conglomerate
Xa Andesite
Xf Lava
Xfs Felsic volcaniclastic and pyroclastic rocks

MAP SYMBOLS

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

\[ \text{depositional and intrusive} \]
\[ \text{normal fault, ball in hanging wall} \]

Strike and dip of planar features

\[ \text{foliation in lavas and primary foliation in plutonic rocks} \]
\[ \text{bedding} \]
\[ \text{bedding, stratigraphic facies known} \]
\[ \text{overturned bedding, stratigraphic facies known} \]
\[ \text{cleavage, ranging from slaty cleavage to schistosity (S)} \]
\[ \text{dip of fault plane, spike identifies dip direction} \]

Trend of linear features

\[ \text{palaeocurrent direction from pebble imbrication in conglomerate} \]
\[ \text{intersection lineation between bedding and cleavage in metamorphic rocks} \]

Cross-section end points

\[ A \]
\[ A' \]

Fold axis

\[ \text{anticline showing plunge} \]
\[ \text{syncline} \]
\[ \text{overturned syncline} \]

2 Geochronology sample location

MAP

GEOCHRONOLOGY

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Technique</th>
<th>Sample</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>210.02 ± 0.01 Ma*</td>
<td>U-Pb</td>
<td>I-16-98-3</td>
<td>This report (in progress) in storage (AZGS)</td>
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<tr>
<td>2</td>
<td></td>
<td>*Ar-39Ar sanidine</td>
<td>F8-226-A,B,C</td>
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