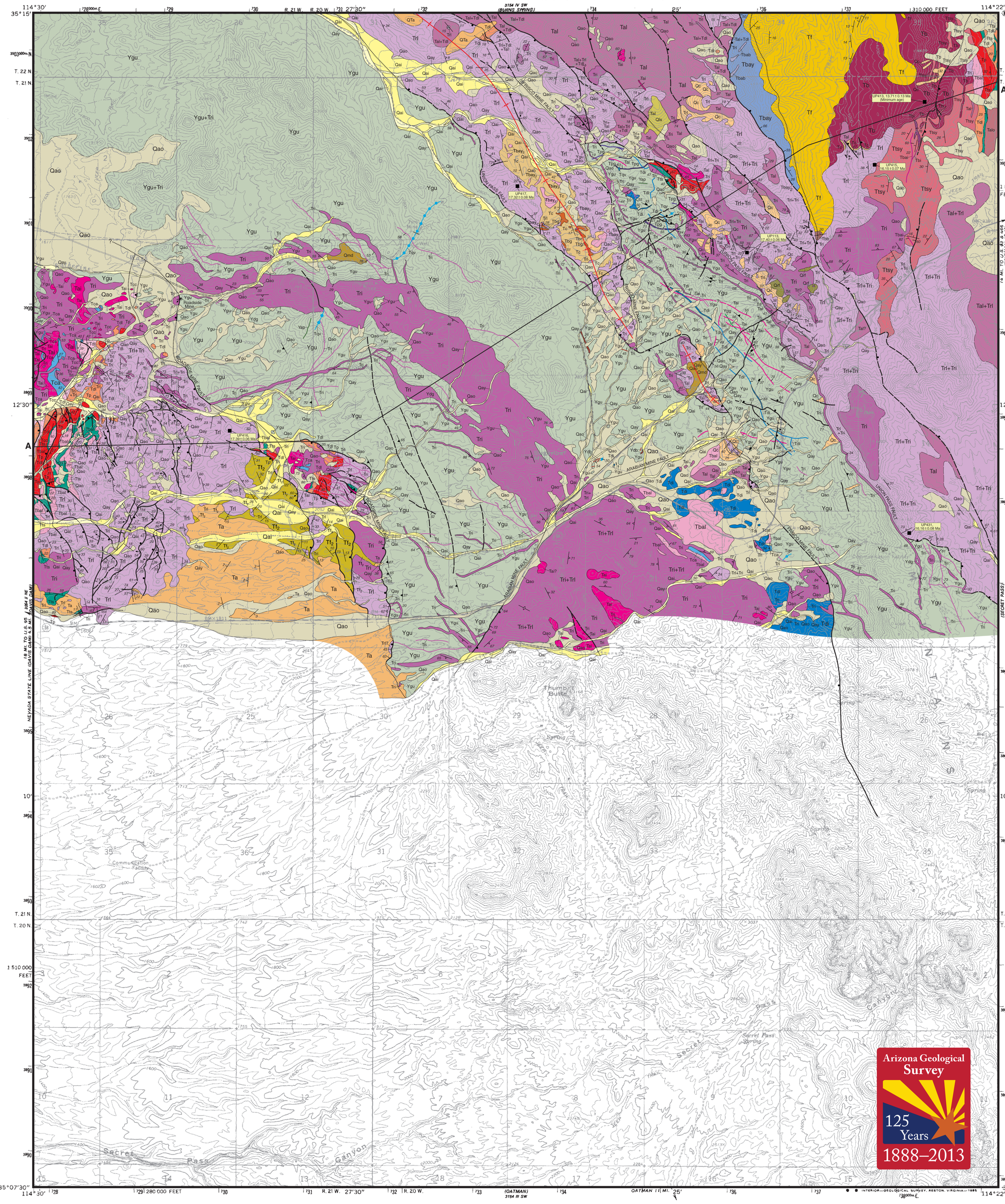
Prepared as part of the EDMAP component of the National Cooperative Geologic Mapping Program in cooperation with the U.S. Geological Survey



PRELIMINARY GEOLOGIC MAP OF THE NORTH HALF OF THE UNION PASS QUADRANGLE, MOHAVE COUNTY, ARIZONA

Ryan T. Murphy and James E. Faulds

2013

QUATERNARY

- Qmd — Mine dump
- Qay — Younger alluvial deposits (Late Holocene)
- Qai — Intermediate alluvial deposits (Late Holocene)
- Qc — Colluvium
- Qls — Landslide deposits
- Qrf — Rockfall deposits
- Qao — Older alluvial deposits (Pleistocene)

MIOCENE

- Ta — Alluvium
- Tf_2 — Fanglomerate (SW area)
- Tc, $Tbay_2$ — Conglomerate (Tc) and basaltic andesite lavas ($Tbay_2$)
- Tbr — Rhyolite breccia
- Tbg — Granitic megabreccia
- Tf — Fanglomerate (NE area)
- Tbb — Basalt breccia
- Tb, Tbay, Tbab — Basalt (Tb) and basaltic andesite (Tbay) lavas and basaltic andesite breccia (Tbab)
- Ttsy — Younger tuffaceous rocks
- Trl, Trl+Tri — Rhyolite lavas (Tri) and rhyolite lavas with lesser intrusive rhyolite (Trl+Tri)
- Tbal, Tal — Basaltic andesite lavas (Tbal) and dominantly andesitic intermediate lavas (Tal)
- Tts — Older tuffaceous rocks
- Tbal — Basaltic andesite lavas
- Tts — Older tuffaceous rocks
- Tp — Peach Springs Tuff
- Tdl, Tts — Dacite lavas (Tdl) and older tuffaceous rocks (Tts)
- Tcc, Talo — Tuff of Cook Canyon (Tcc) (SW area) and older dominantly andesitic lavas (Talo) (NE area)
- Tcat, Tca — Arkosic conglomerate (Tca) and tuffaceous rocks (Tcat)

INTRUSIONS

- Tbai, Tbi — Basaltic andesite (Tbai) and basalt (Tbi) dikes
- Tri — Rhyolite dikes, domes and plugs
- Tai — Andesite dikes and plugs
- Tdi — Dacite dikes and plugs
- Tqv — Quartz veins and pods
- Tpg — Pegmatite dikes

PROTEROZOIC

- Ydb — Diabase dikes and pods
- Ypg — Pegmatite dikes
- Yap — Aplite dikes
- Ygu — Megacrystic Davis Dam granite and orthogneiss

NOTE: For units with multiple symbols (e.g., Trl+Tri) the dominant lithology is listed first with other lithologies listed in decreasing order of abundance.

SYMBOL EXPLANATION

Lithologic contact showing dip Dashed where inferred or approximately located due to poor exposures. Tic orientation reflects true dip direction of contact plane.

Moderately to steeply dipping normal fault showing dip Ball on downthrown side; arrow shows trend of striae on fault surface; dashed where inferred or approximately located due to poor exposures; dotted where concealed. Tic orientation reflects true dip direction of fault plane.

Gently dipping normal fault showing dip Hachures on downthrown side; dashed where inferred or approximately located due to poor exposures; dotted where concealed. Tic orientation reflects true dip direction of fault plane.

Strike and dip of bedding

Inclined

Strike and dip of compaction foliation in ash-flow tuff

Inclined

Strike and dip of flow bands in lava or intrusion

Inclined — Vertical

Strike and dip of metamorphic foliation

Inclined — Vertical

Strike and dip of joints

Inclined — Vertical

Folds

Syncline axial trace defined by rhyolite lava flow bands and bedding attitudes.

Vein showing dip Tic orientation reflects true dip direction of contact plane.

Vein, dike emplaced along fault showing dip Tic orientation reflects true dip direction of contact plane.

Scale 1:24,000

0 — 0.5 — 1 kilometer

0 — 0.5 — 1 mile

0 — 1000 — 2000 — 3000 — 4000 — 5000 feet

CONTOUR INTERVAL 40 FEET

Base map: U.S. Geological Survey Union Pass 7.5' Quadrangle, AZ, Digital Raster Graphic (DRG) 1967

Field work performed in 2001-2003.

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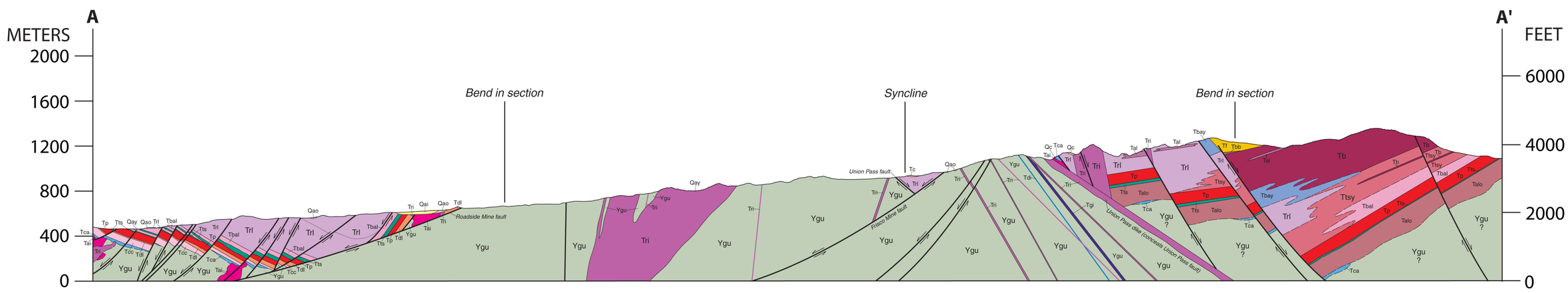
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