The Geology of Golconda Canyon,

Southern Tobin Range, Pershing County Nevada

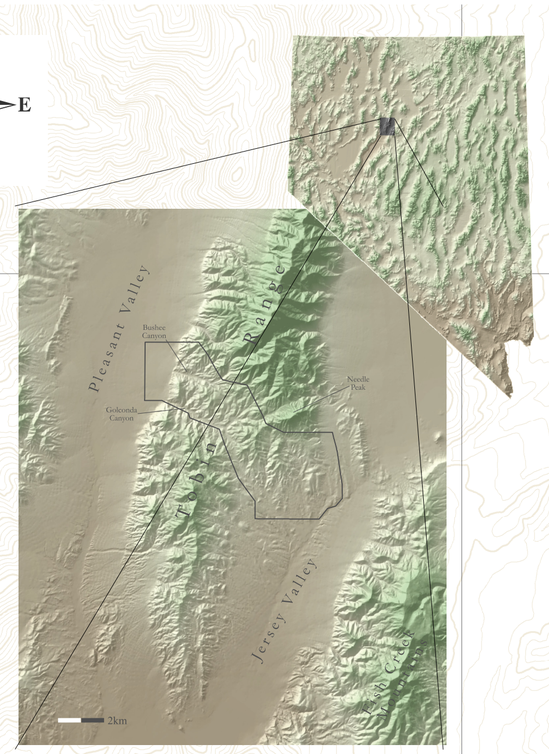
1:24,000

0 0.5 1 2 3 Kilometers

0 0.5 1 1.5 2 Miles

Contour Interval: 40 feet

N W E S



Geologic Units

Quaternary

- **Qya** — Younger alluvium - Alluvial deposits of present day drainage
- **Qls** — Landslide deposits - Coarse, unsorted blocks derived from neighboring units
- **Qoa** — Older alluvium - Alluvial deposits above present day drainage which still retain original depositional morphology
- **Qg** — Older gravel - Poorly sorted gravels above presnt day drainage which no longer display original depositional morphology. Includes deposits localized along major NW trending fault derived primarily from Mesozoic and Paleozoic rocks

Intrusive Units

- **Trd** — Rhyolite porphyry dike
- **Tyb** — Younger basalt - Aphyric basalt (includes associated dikes and sills)
- **Tdi** — Dacite dikes - porphyries with hornblende, quartz and abundant biotite

Tertiary

- **Ts** — Sedimentary rocks - Pale-colored, fluvial and lacustrine, tuffaceous siltstone, mudstone and sandstone with minor limestone
- **Tri** — Rhyolite ignimbrite - Yellow crystal-rich welded rhyolite ignimbrite
- **Tsc / Trx / Tlx** — Sedimentary rock (Tsc) - Poorly bedded volcanic conglomerate and muddy sandstone with clasts of andesite and Fish Creek Mountains Tuff. Rhyolite landslide breccia (Trx) - Large blocks of crystal-rich pink to red rhyolite ignimbrite and white pumice-rich poorly welded ignimbrite derived from the Tfc. Limestone landslide breccia (Tlx) - Large blocks of massive dark gray limestone derived from the Natchez Pass Formation
- **Tfc** — FISH CREEK MOUNTAINS TUFF - Pink to red crystal-rich welded rhyolite ignimbrite
- **Trip** — Pumice rhyolite ignimbrite - Gray, pumice-rich, crystal poor rhyolite ignimbrite
- **Tal / Tau / Tai** — Andesite lava flows and lahars (Tal) - Massive lava flows with intercalated lahar deposits and andesitic sedimentary rock. Andesite Ignimbrite (Tai) - Poorly to moderately welded ignimbrites with subordinate rhyolite landslide breccia. Undifferentiated andesite (Tau)
- **Trib** — Biotite rhyolite ignimbrite - Crystal-rich white to purple rhyolite ignimbrite with abundant biotite
- **Tct** — CAETANO TUFF - Pink to reddish-brown crystal and pumice-rich rhyolite ignimbrite. Grades from poorly welded lower part to moderately welded upper part
- **Tob** — Older basalt - Altered basalt with abundant chalcedony

Jurassic

- **Jgd** — Granodiorite and granodiorite porphyry

Triassic

- **Tos** — OSOBB FORMATION - Pale colored siliceous and calcareous sandstone
- **Tnp** — NATCHEZ PASS FORMATION - Massive dark gray to brown poorly bedded limestone
- **Tcm** — CHINA MOUNTAIN FORMATION - Pale-colored quartz and rhyolite pebble conglomerates, tuffaceous sandstone and lesser amounts of rhyolite

Pennsylvanian Permian

- **PPh** — HAVALLAH FORMATION - Deformed chert, argillite, sandstone and micritic limestone

Strike and Dip

- Bedding planes
- Bedding planes (uncertain)
- Compaction foliation
- Compaction foliation (uncertain)
- Flow layering
- Flow layering (uncertain)

Contacts

- Well located (± 20m)
- Approximately located (± 20 to 50m)
- Very approximately located (> ± 50m)

Faults

Normal faults with ball and bar on downthrown side

- Well located (± 20m)
- Approximately located (> ± 20m), queried where existence uncertain
- Concealed

Folds

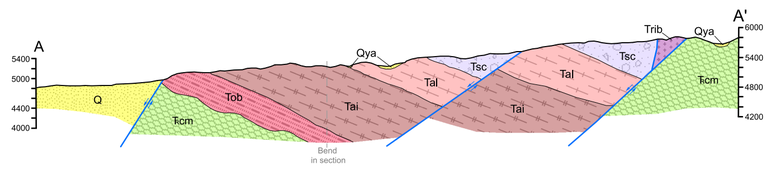
- Anticline
- Syncline

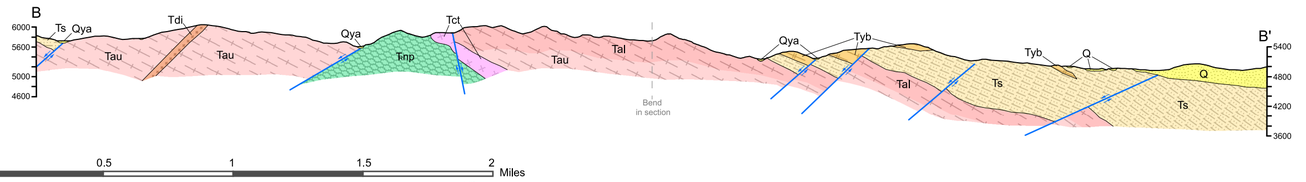
Other Features

- TR-9 — Radiometric age determination and sample number
- Drill hole
- Mine tunnel
- Prospect
- Shaft
- Springs
- Ranch
- Road

Geology and Cartography by Zac Gonsior
2004, 2005

Projection: Transverse Mercator
Coordinate System: NAD 1983 UTM Zone 11
Data Sources: 7.5i USGS topographic maps,
10 meter DEM from National Elevation Dataset
NV inset map created from GTOPO30 DEM





0 0.5 1 1.5 2 Miles

0 0.5 1 2 3 Kilometers

1:24,000
Elevation in Feet
No Vertical Exaggeration