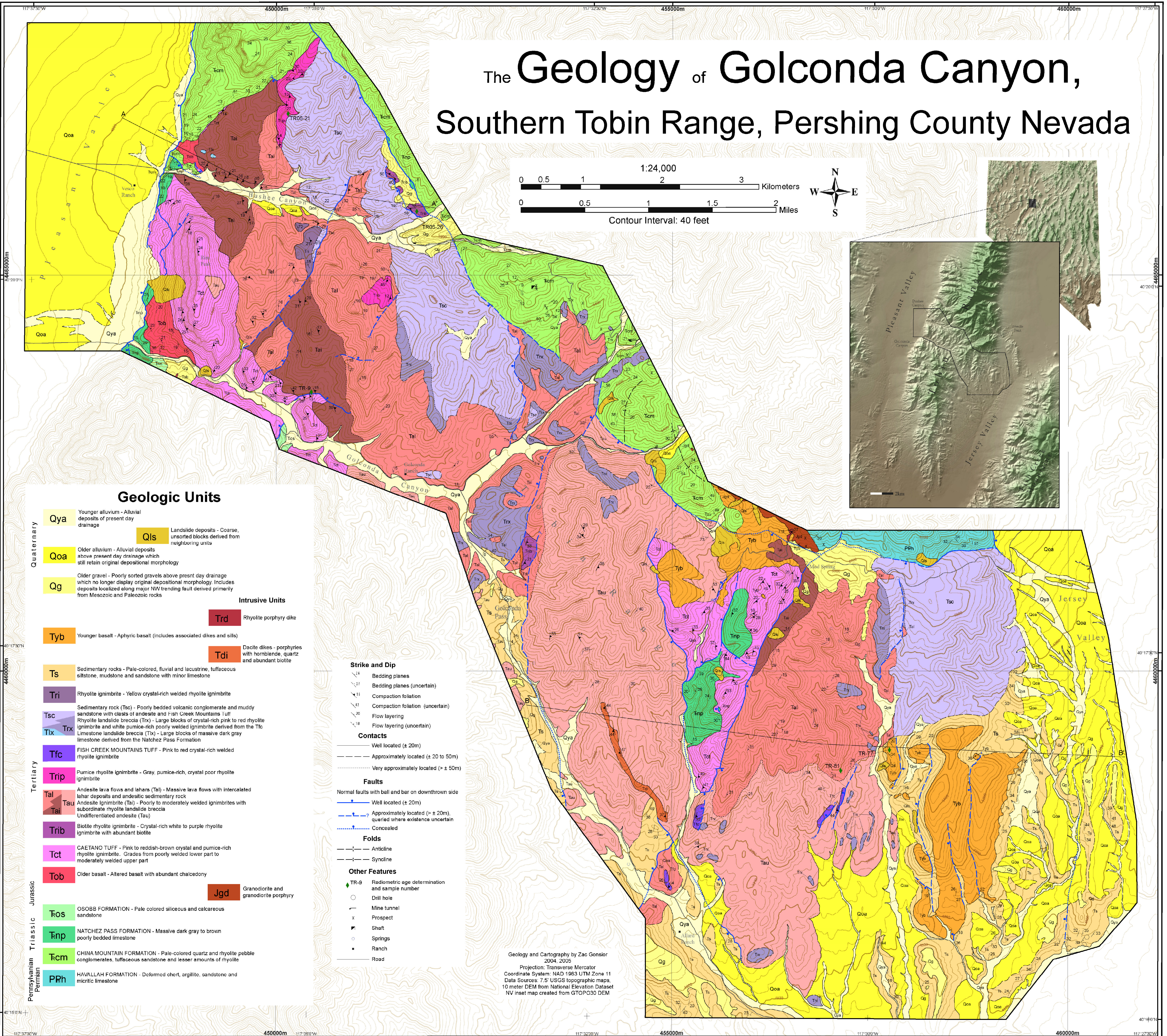


The Geology of Golconda Canyon, Southern Tobin Range, Pershing County Nevada



Geologic Units

Geologic Unit	Description
Qya	Younger alluvium - Alluvial deposits of present day drainage
Qis	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 present 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	
Tyb	Younger basalt - Aphyric basalt (includes associated dikes and sills)
Ttrd	Rhyolite porphyry dike
Tdi	Dacite dikes - porphyries with hornblende, quartz and abundant biotite
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	Sedimentary rock (Tsc) - Poorly bedded volcanic conglomerate and muddy sandstone with clasts of andesite and Fish Creek Mountains Luff Rhyolite landslide breccia (Trx) - Large blocks of crystal-rich pink to red rhyolite ignimbrite and white pumice-rich poorly welded ignimbrite derived from the Tsc
Tlx	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	Andesite lava flows and lahars (Tal) - Massive lava flows with intercalated lahar deposits and andesitic sedimentary rock
Tau	Andesite ignimbrite (Tau) - Poorly to moderately welded ignimbrites with subordinate rhyolite landslide breccia
Trib	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
Jgd	Granodiorite and granodiorite porphyry
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
PRh	HAVALLAH FORMATION - Deformed chert, argillite, sandstone and micritic limestone

Symbol	Description
$\frac{1}{1}$	Bedding planes
$\frac{1}{1}$	Bedding planes (uncertain)
$\frac{1}{1}$	Compaction foliation
$\frac{1}{1}$	Compaction foliation (uncertain)
$\frac{1}{1}$	Flow layering
$\frac{1}{1}$	Flow layering (uncertain)
Contacts	
—	Well located ($\pm 20m$)
- - -	Approximately located (± 20 to $50m$)
...	Very approximately located ($> \pm 50m$)
Faults	
—	Normal faults with ball and bar on downthrown side
—	Well located ($\pm 20m$)
- - -	Approximately located ($> \pm 20m$), queried where existence uncertain
...	Concealed
Folds	
—	Anticline
—	Syncline
Other Features	
TR-9	Radiometric age determination and sample number
○	Drill hole
—	Mine tunnel
x	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: 7.5' USGS topographic maps,
10 meter DEM from National Elevation Dataset
NW inset map created from GTOPO30 DEM

