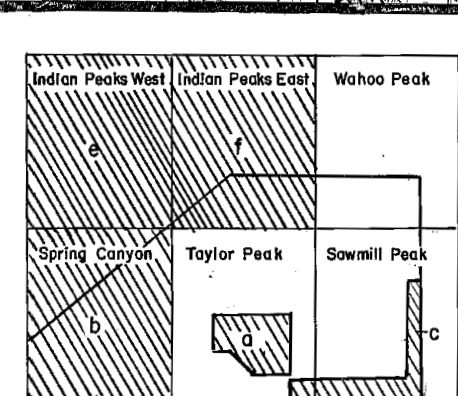


by
Ted Eggleston
1986




 a) Lufkin, 1972
 b) Richter, 1978
 c) Woodard, 1982
 d) Richter et al., in press
 e) Lawrence and Richter, 1986
 f) Richter et al., 1986

Index map to U.S.G.S. 7 1/2" quadrangles and compiled mapping

Qal	Qca
Qpg	

A 3D coordinate system diagram. The vertical axis is labeled with Tg, Tbc, Tgc, Tct, Ttc, Tti, Ttd, Ttk, Tsp, Tsc, Tpc, Tkw, Tkn, and Trp. The horizontal axis is labeled with Tkt, Thr, and Twr. The depth axis is labeled with Tfm and Tim. The origin is labeled T.

- 1-Grogan Canyon placer
- 2-Squaw Creek
- 3-Nugget Gulch
- 4-Adams Canyon placer
- 5-Boiler Peak
- 6-Scales Canyon
- 7-Paramount Canyon
- 8-Dawson Mine
- 9-Kemp Mesa

- Contact
- Strike and dip of bedding
- Horizontal strike and dip
- Strike and dip of flow banding
- Vertical flow banding
- Fault—dashed where inferred, dotted where buried, ball and dip on down side
- Approximate boundary between rhyolite domes in effusive centers
- Carapace breccias
- Vitrophyre
- Center of intense vapor phase recrystallization

Tt unnamed pyroclastic deposits (Oligocene). Generally nonwelded, thin ignimbrites, but surge and fall deposits are common. The number attached to the symbol corresponds to the Taylor Creek Rhyolite dome that the deposits mantle. As much as 100 m of stacked 0.01 to 3 m beds. Includes as much as 50 m of clast-supported breccia consisting of monolithic, mildly vesiculated clasts of Taylor Creek Rhyolite from 10 cm to 4 m in diameter in Scales Canyon. Agglutinates in the Nugget Gulch and Paramount Canyon areas are as much as 50 m thick.

Tot unnamed ignimbrite (Oligocene). Gray to tan, crystal-poor, nonwelded, multiple flow ignimbrite as much as 30 m thick containing up to 5% phenocrysts of sanidine and 10 to 15% black gray to black pumice fragments. Possibly correlative with the La Jencia Tuff.

Tlj	La Jencia Tuff (28.8 Ma). Densely welded, crystal-poor, regional ignimbrite. Contains phenocrysts of sanidine (6%) and a trace of quartz, biotite, and pyroxene in a gray to black groundmass. Foliated and locally linedated. 20 to 30 m thick.
Tkt	ryholite of Keith Tank (Oligocene). Vitric, flow banded, crystal-poor rhyolite lava containing phenocrysts of quartz (1%), plagioclase (1%), and a trace of sanidine and biotite. Abundant lithic fragments, many of which are gabbroic in composition. About 10 m exposed.
Twr	ryholite of Whitetail Canyon (Oligocene). Crystal-poor, finely flow-banded, gray rhyolite lava containing phenocrysts of plagioclase (1%), pyroxene (1%), and a trace of biotite, amphibole, and opaque oxides in a microtrachytic groundmass. Sparse vitrophyre has obvious perlitic cracks. More than 100 m thick.
Thr	ryholite of Hoyt Creek (Oligocene). A flow banded, virtually aphyric rhyolite lava containing phenocrysts of pyroxene (1%), and a trace plagioclase, amphibole, and zircon in a microtrachytic groundmass. More than 200 m thick.
Tdp	ryholite of Dolan Peak (Oligocene). High-silica, flow-banded, moderately crystal-rich rhyolite lavas containing 5 to 10% sanidine and 1 to 3% quartz phenocrysts in a spherulitic to granophyric groundmass. Locally tin-bearing. More than 200 m thick.
Tkm	tuff of Kline Mountain (Oligocene). Thick sequence of very pumiceous, non-welded, thinly bedded, moderately crystal-rich rhyolite ignimbrites with 12 to 15% phenocrysts of sanidine and quartz and traces of plagioclase, biotite, opaque minerals, and zircon. Advanced argillic alteration produced a kaolinite-alunite-chalcedony assemblage. 0 to 200 m thick.
Tsp	ryholite of Sawmill Peak (Oligocene). Red, flow-banded, crystal-poor rhyolite lavas that contain 7 to 10% sanidine (as much as 8 m in length) and a trace of quartz, biotite, and opaque minerals as phenocrysts in a generally vitric groundmass. As much as 40 m thick.
Tlm	tuff of Lookout Mountain (Oligocene). Crystal-rich, moderately welded rhyolite ignimbrite containing quartz and sanidine phenocrysts.
Tsc	tuff of Stiver Canyon (Oligocene). As much as 40 m of crystal-poor to moderately crystal-rich, poorly welded, rhyolite ignimbrite. North of Kline Mountain, the unit contains phenocrysts of sanidine (2%), quartz (1%), and a trace each of biotite and opaque minerals in a vitroclastic groundmass. South of Kline Mountain, the unit contains phenocrysts of sanidine (3%), quartz (5%), and a trace each of biotite and opaque minerals in a vitroclastic groundmass. Plagioclase is notably rare.
Tpc	basaltic andesite of Poverty Creek (Oligocene). As much as 200 m of basaltic andesite flows locally separated by thin volcanoclastic intervals.
Tkw	tuff of Koko Well (Oligocene). As much as 60 m of poorly welded, crystal-poor, rhyolitic ignimbrite that contains about 1 to 5% phenocrysts of feldspar and a trace of quartz and biotite. Locally, the base of the unit consists of as much as 10 m of a moderately crystal-rich, rhyodacitic ignimbrite that contains sanidine (6%), plagioclase (3%), biotite (1%), and a trace of amphibole in a vitroclastic groundmass.
Tkn	Kneeling Nun Tuff (35.23 Ma). As much as 200 m of crystal-rich, densely welded, rhyolitic ignimbrite containing phenocrysts of quartz (15%), sanidine (12%), plagioclase (5%), biotite (2%), and a trace of opaque minerals in a vitroclastic groundmass.
Trp	Rubio Peak Formation (Oligocene). Basaltic andesite and andesite lava flows