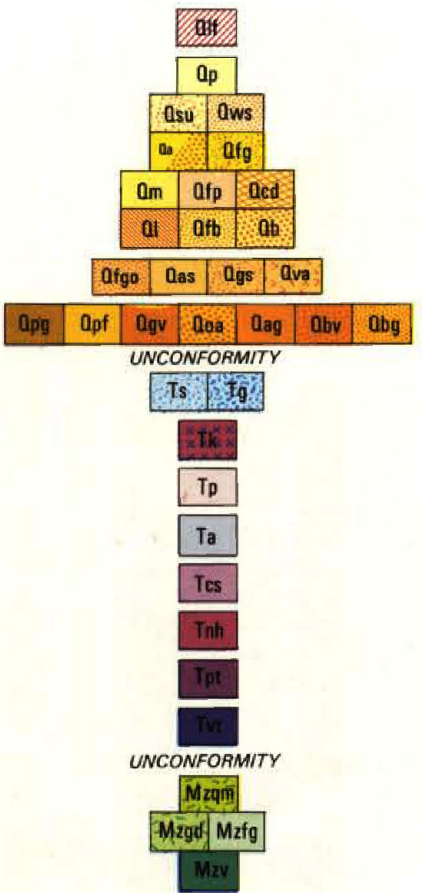
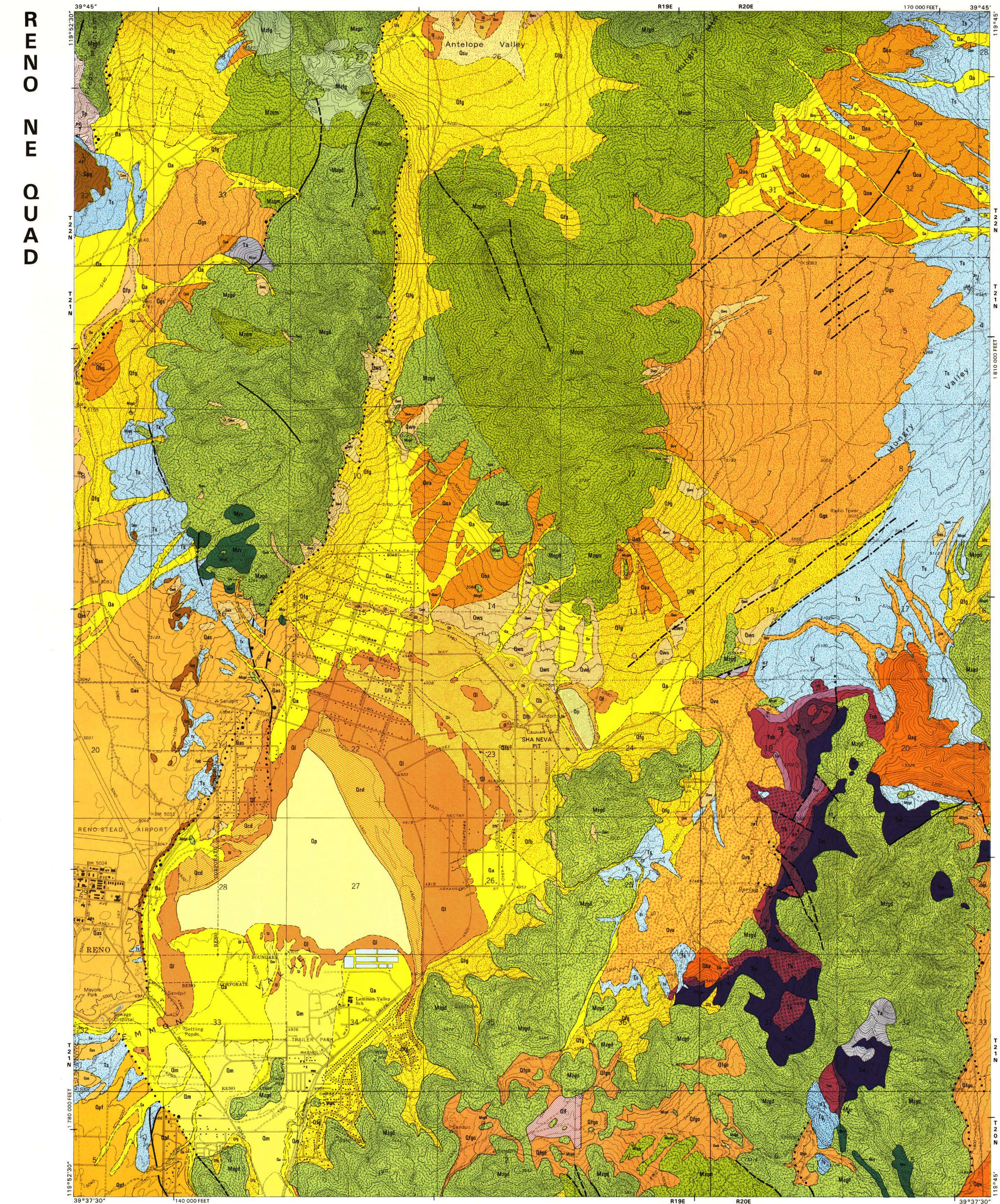


RENO
NE
QUAD

GEOLOGY



QUATERNARY

Qp Landfill
Qs Playa deposits Light-brown to brown, mod. well sorted slightly sandy to granular mud with interbedded fine sand and silt.
Qsu Undifferentiated sand Yellowish-brown to tan, mod. sorted, arkosic mud, to fine sand. Composed of beach and wind-blown sand deposits.
Qws Windblown sand Yellowish to orange-brown, poorly to mod. well sorted, arkosic mud and sand. Forms stabilized dunes and actively accumulating deposits.
Qa Sheetwash, stream channel, and other Holocene alluvium Gray to yellowish-brown, poorly sorted cobbly to pebbly sand and muddy sand to mod. well sorted fine to coarse sand; predominantly arkosic. Stippled pattern indicates gravelly alluvium derived from Tertiary volcanic rocks.
Qtf Alluvial fan deposits Gray-brown to yellowish-brown, mod. well sorted to very poorly sorted granular coarse sand to sandy boulder gravel; predominantly arkosic. Forms broad, gently sloping, relatively undisturbed fan surfaces and steeper colluvial slopes with cambic soil development.
Qm Alluvium of Military Road Yellowish to reddish-brown, poorly sorted granular sand to pebbly mud derived from Qp. Grades from pebbly deposits in southwest to sands at distal edge near Lemmon Valley play.
Qrp Axial-stream floodplain deposits Brown to yellowish-brown, well-sorted slightly sandy mud to fine sand.
Qcd Clay dunes Brown to gray-brown, loose, mod. well sorted muddy fine sand and fine to med. sand-size aggregates of clay derived from playa and lake deposits. Stabilized and breached by recent stream channels.
Ql Deposits of late Pleistocene Lake Lemmon Ql: Lake deposits Pale yellow to gray, well-sorted slightly sandy silt to clay. Flat-lying; cut by recent stream channels. Qlb: Fore-beach deposits Brown to yellowish-brown, poorly sorted, arkosic granular muddy sand to mod. well sorted very fine sand. Qb: Beach bar deposits Yellowish-tan to brown, mod. to poorly sorted granular sand to muddy sand; arkosic, generally unconsolidated. Mammoth bone dated (1°C) at 10,440 ± 450 yrs (TX-4350); camel bones also found.
Qld Older alluvium, colluvium, and decomposed granite Grayish-tan to reddish-brown, very poorly sorted muddy coarse sand and sandy pebble gravel to gravelly sand; arkosic, unconsolidated. Strongly argillic (Bt) soil overlying weak duripan developed locally.

MESZOZOIC

Qas Alluvium of Stead Airport Reddish-brown, very poorly sorted, arkosic pebbly muddy sand derived from Qp and Qp. Mod. developed argillic (Bt) soil. Forms thin (≤ 2 m) veneer overlying Ts.
Qgs Granitic alluvial fan deposits Pinkish to yellowish-brown, poorly to very poorly sorted granular sand. Well-developed argillic (Bt) soil. Pebble and cobble ventifacts common at surface.
Qva Volcanic alluvium Brownish-red to dark-yellowish-brown, very poorly sorted pebbly muddy sand to muddy gravel and bouldery gravel. Mod. dissected. Well-developed argillic (Bt) soil. Forms thin (≤ 2 m) veneer overlying Ts.
Qpg Pediment gravels Tan to dark reddish-brown, very poorly sorted cobbly sand to sandy gravel. Clasts predominantly granitic; some Tertiary volcanic and Mesozoic metavolcanic rock fragments. Strongly argillic (Bt) soil with well-developed duripan (Cca).
Qpf Alluvial fan deposits of Peavine Mountain Reddish-brown to dark-yellowish-brown, poorly to very poorly sorted, poorly bedded muddy sandy pebble gravel. Commonly forms multicolored desert pavement composed primarily of altered andesite pebbles, arkosic sand, and lesser amounts of jasper, quartz, and metavolcanic clasts. Well-developed argillic (Bt) soil. Forms thin (≤ 2 m) veneer overlying Ts.
Qgv Old gravelly alluvium Tan to reddish-brown, very poorly sorted cobbly muddy fine sand to gravelly sand. Predominantly arkosic with some rounded, carbonate-coated volcanic pebbles and cobbles (probably derived from Tq). Poorly indurated with strongly developed soil profile.
Qoa Old alluvium Tan to brown, very poorly sorted, mod. consolidated pebbly silt to unconsolidated gravelly sand and muddy sandy pebble gravel. Occurs as deeply dissected fan remnants. Strongly developed argillic (Bt) soil with weak duripan (Cca).
Qag Old alluvial gravels Dark-reddish-gray, very poorly sorted sandy cobble to boulder gravel. Predominantly Tertiary volcanic clasts; minor granitic clasts. Strongly developed soil with duripan.
Qbv Boulder alluvium Tan to dark-gray, very poorly sorted sandy boulder gravel. Clasts predominantly granitic with lesser amounts of Tertiary tuffs. Kate Peak Formation, Peavine sequence, and Mesozoic basalt.
Qbg Granitic boulder alluvium Gray to brown, very poorly sorted sandy boulder gravel. Well-developed argillic (Bt) soil.

Ts Tertiary sediments Cream to gray to pale-green, thick, interbedded alluvial and fluvio-lacustrine basin-fill sediments. Includes interbedded, unconsolidated to mod. well consolidated arkosic sandy gravel, gravelly sand, granular to very fine grained sand, tuffaceous sandstone, volcanic ash-bearing sandstone, slightly diatomaceous siltstone, and thin lenses of air-fall tuff. Commonly highly dissected and overlain by veneer of pebbly sand or lag gravel. Probably equivalent in age to sandstone of Hunter Creek (Bonham and Binger, 1973).
Tg Tertiary gravels Gray to brown, very poorly sorted, mod. indurated, stratified bouldery cobble gravel to sandy gravel with thin, interbedded lenses of volcanic sandstone. 60% clasts of Tertiary volcanic rocks and basalt; 40% highly weathered to disintegrated granitic clasts. Well-developed duripan (Cca) > 3 m thick.
Tk Kate Peak Formation Gray to reddish-gray, porphyritic to glomeroporphyritic hornblende-biotite andesite flows. Vuggy, highly resistant to weathering. Forms rugged, bouldery outcrops.
Tp Pyramid sequence Dark-gray to reddish-brown, thin, porphyritic to glomeroporphyritic hornblende-biotite andesite flows. Vuggy, highly resistant to weathering. Forms rugged, bouldery outcrops.
Ta Alta Formation Dark-gray to reddish-brown, thin, porphyritic to glomeroporphyritic hornblende-biotite andesite flows. Vuggy, highly resistant to weathering. Forms rugged, bouldery outcrops.
Tcs Tuff of Chimney Springs Orange-yellow to yellowish-brown crystalline tuff. 50-60% smoky quartz, sandine, and minor biotite phenocrysts in a partially welded, devitrified, rhyolitic matrix.
Tnh Nine Hill Tuff Reddish-purple to pale-orange-red, pumiceous, rhyolitic tuff. Densely welded, devitrified, stretched and flattened pumice lapilli. Vugs with vapor-phase crystallization products common. Forms distinct ridges.
Tpt Pumice tuff Pale to dark-gray, very pumiceous vitric-crystal tuff. Usually poorly welded, fine- to med.-grained, glassy, shard-rich ash with abundant pumice lapilli; phenocrysts of sandine, quartz, few lithic fragments. Includes densely welded perlitic vitrophyre. Easily weathered, rarely crops out.

Tvt Vitric tuff Cream to yellowish-tan to pale-purple rhyolitic to rhyodacitic vitric to vitric-crystal tuff. Includes a variety of poorly to densely welded tuffs with sandine, sandine-smoky quartz, plagioclase-biotite, or biotite phenocrysts in a devitrified, locally pumiceous, fine-grained matrix. Forms resistant, knobby outcrops where densely welded.
Mzgm Quartz monzonite Pink to pale-gray, massive, med.- to coarse-grained, equigranular to porphyritic quartz monzonite to granite. Includes extensive aplite, graphic granite, quartz veins, and pegmatite dikes and quartz and epidote veins. Highly resistant to weathering; forms blocky, jagged outcrops.
Mzgd Granodiorite Light to dark-gray, fine- to coarse-grained, equigranular to porphyritic hornblende-biotite granodiorite. Mod. to highly fractured and faulted. Cut by basalt and aplite pegmatite dikes and quartz and epidote veins. Highly resistant to weathering; forms blocky, jagged outcrops.
Mzlg Foliated granitic rocks Pinkish to dark-gray, fine- to coarse-grained, equigranular, weakly foliated to gneissic diorite to granodiorite.
Mev Peavine sequence White to dark-gray rhyolitic to andesitic metavolcanic rocks. Commonly porphyritic; copper mineralization locally. Forms resistant, knobby outcrops that are highly fractured to sheared in mineralized areas.

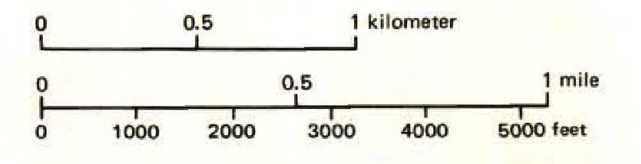
UNCONFORMITY

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Tpt Pumice tuff

Gail E. Cordy, 1985
Assisted by André Mansour

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Scale 1:24,000
CONTOUR INTERVAL 20 FEET
DOTTED LINES ARE 10-FOOT CONTOURS



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