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NEVADA BUREAU OF MINES AND GEOLOGY

- Qaf Qsu Qtm Qs
- QfI Floodplain and lake deposits. Interbedded gray to pale grayish-yellow silt and fine sand; contains thin lenses of peat; fluvial and lacustrine deposits up to 7 m (23 ft) thick. Little or no soil development (enti-Qa
 - Alluvial bajada deposits. Thin sheet-like aprons of fine- to medium-grained clayey sand and intercalated muddy, medium pebble gravel; deposits of low gra-
- associated with Tahoe Outwash deposits along the Truckee River; soil profile similar to Qtm Mud-volcanic preccia. Heterogeneous mixture of bleached and ion-stained boulders and fragments of Qmb volcanic rocks opaline and chalcedonic sinter, and

Sidestream deposits. Fluvial silt and medium sand

- disintegrated tranitic debris Donner Lake Outwash. Bouldery outwash
- beds of sandstone of Hunter Creek (Th). Strongly developed soil profile; argillic B-horizon ½ m (2 ft) or more thick; typically overlies thick calcic and siliceous duripan Hot-spring sinter. Siliceous sinter ranging in age sr

Tsb

Toa

Tb

Th

Th,

Th₂

Th₃

Tkf

andesite and white bleached andesite in matrix of

muddy sand; unconformably overlies steeply dipping

- bleached Tkf. Tkb: Hornblende-pyroxene dacite and andesite lahars, pyroclastic bre:cia, volcanic con-Tki Tkd glomerate, and sandstone with ninor flows. Tki: Intrusive hornblende-pyroxene-bitite dacite. Tkd: Flow-dome complexes of tornblende-biotite rhyodacite porphyry Alta Formation. Flows of dark fine-grained soda

H. F. Bonham, Jr. and David K. Rogers, 1983

Supplementary mapping was provided by John W. Bell, E. C. Bingler, and Dennis T. Trexler. Geology of Steamboat Hills area modified from White and others (1964).



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dient streams that reworked older gravelly outwash and alluvial fan deposits; weakly weathered and largely undissected. Little or no soil development (entisols) Qaf Alluvial fan of Windy Hill. Locally derived silty to muddy, medium pebble gravel transported from the large Evans Creek drainage area; engulfs high-standing remnants of Donner Lake Outwash. These fan deposits intertongue with and become part of the alluvial baiada. Qa. Generally undissected, but contains scattered remnants of older alluvium Ωsu Sand, undifferentiated. Local deposits of fine to medium sand; eolian, alluvial outwash, and colluvial slope wash deposits Qtm Tahoe Outwash-Mount Rose Fan Complex. Glacial outwash stream deposits of volcanic and granitic composition; light yellowish- to orange-brown; san-

some undifferentiated areas

Qdo strath terraces on bedrock; extensive mantle thickening eastward; unconsolidated small cobble gravel and interbedded coarse sand. Highly rounded clasts; unit locally contains very large, deeply weathered boulders of baalt and quartz monzonite more than 2 m (6 ft) in dianeter. Strongly developed soil profile 2-3 m (6-10 ft) thick; prismatic argillic B-horizon; weakly to stringly developed siliceous and calcic duripan 1-2 m (3-6 ft) thick; granitic clasts thoroughly disntegrated in weathered profile Qdm Donner Lake Outwash-Mount Rose Fan Complex. Pediment and thin fan deposits from major streams draining alpine glaciers on Mount Rose; brown to briwnish-gray, sandy, muddy, poorly sorted large pebble gravel; cobbles and small boulders comnon. Clasts dominantly volcanic (porphyritic andeste and latite); surface granitic clasts rare. Deeply weathered, strongly developed soil pro-file similar to Qdo; locally overlain by undifferendy large cobble to boulder gravel containing characteristically fresh granitic lag gravel. Strongly developed 1-m (3 ft) thick soil profile; dark yellowishtiated veneer of Qtm; well cemented and/or brown, prismatic argillic B-horizon; typically no silihydrothermally altered in Steamboat Hills area ceous or calcic duripan development; granitic Pediment gravel. Veneers of moderately to poorly Qp boulders partly to thoroughly decomposed where sorted medium pebble to cobble gravel < 3 m (10 ft) buried in soil. Deposits locally only thin veneers; thick; commonly occurs as gravel sheet <1 m (3 ft) thick over bedrock and older pediment and alluvial fan gravels; clast content dominantly volcanic. Qos Older alluvium. Highly dissected remnants of muddy, sandy small pebble gravel in alluvial deposits Strongly developed soil profile; thick argillic B-horitransported from Thomas Creek; soil profile 1-2 m zon locally overlying siliceous and calcic duripan (3-6 ft) thick with strongly developed argillic B-hori-zon; local duripan development. Also includes areas of older alluvium in Steamboat Hills Alluvial fan deposits of Peavine Mountain. Yellow-Qpf ish-brown gravel and gravelly muddy sand consisting of angular pebbles to small cobble-sized clasts of

Qs

from late Pliocene to present. Older sinter is white to gray chalcedony; locally contains mercury sulfides; younger sinter is light gray to tan porous opal Basaltic andesite of Steamboat Hills. Dark gray flows with phenocrysts of plagioclase and olivine in intergranular matrix of pyroxene, plagioclase, Fe-Ti oxides. Source of flows is cinder cone in SW/4 S32,T18N,R20E. K-Ar age: 2.53±0.1 m.y. Old alluvium of Steamboat Hills. Pediment deposits underlying Tsb. Pebble to cobble gravel consisting of angular to subangular granitic, volcanic, and metamorphic clasts and arkosic sands. Locally well cemented and/or strongly hydrothermally altered Basalt and basaltic andesite of Carson Range. Dark gray basaltic-appearing flows with prominent platy flow jointing; mineralogically similar to Tsb Sandstone of Hunter Creek. Th: Undifferentiated. Th: Brown to gray, medium- to thick-bedded, subangular coarse sand; intercalated tuff and sub-rounded andesite pebble to cobble conglomerate; grades upward into thin-bedded silt and diatomaceous silt. Tha: White to light gray, massive to thin-bedded diatomaceous siltstone with minor beds of yellowish-tan medium sand; iron oxide staining of fractures in siltstone common. Tha: Tan, gray to reddish-brown, thin- to thick-bedded, alternating layers of fine to coarse sand; intercalated layers of well rounded pebbles; cross-bedding common in sand fractions; basal contact conformable with Th₂ Kate Peak Formation. Tkf: Hornblende-pyroxene Tkfb andesite and dacite flows with minor breccia Tkb and volcanic conglomerate. Tkfb: Hydrothermally

