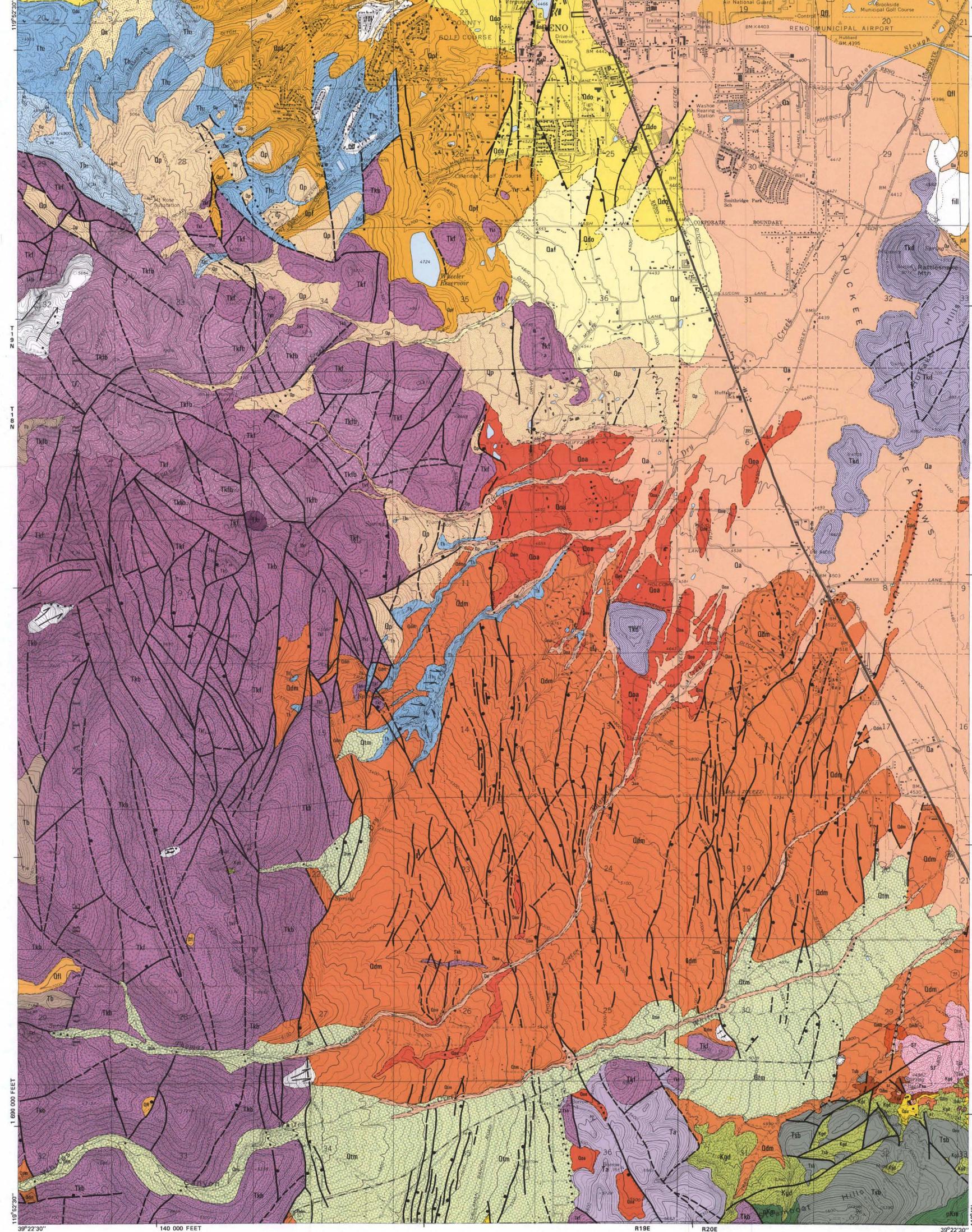
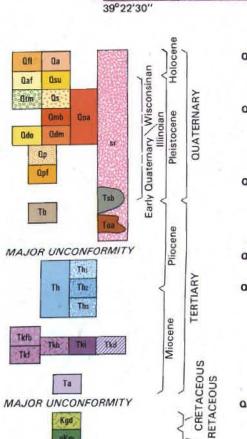
NEVADA BUREAU OF MINES AND GEOLOGY

RENO AREA MAP 4Bg

170 000 FEET | 39°30'





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 m (23 ft) thick. Little or no soil development (enti-

Alluvial bajada deposits. Thin sheet-like aprons of fine- to medium-grained clayey sand and intercalated muddy, medium pebble gravel; deposits of low gradient streams that reworked older gravelly outwash and alluvial fan deposits; weakly weathered and largely undissected. Little or no soil development

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 bajada, Qa. Generally undissected, but contains scattered remnants of older alluvium

Sand, undifferentiated. Local deposits of fine to medium sand; eolian, alluvial outwash, and colluvial

slope wash deposits

Otm Tahoe Outwash - Mount Rose Fan Complex. Glacial outwash stream deposits of volcanic and granitic composition; light yellowish to orange-brown; san-dy large cobble to boulder gravel containing characteristically fresh granitic lag gravel. Strongly developed 1-m (3 ft) thick soil profile; dark yellowishbrown, prismatic argillic B-horizon; typically no siliceous or calcic duripan development; granitic boulders partly to thoroughly decomposed where buried in soil. Deposits locally only thin veneers; some undifferentiated areas

Older alluvium. Highly dissected remnants of muddy, sandy small pebble gravel in alluvial deposits transported from Thomas Creek; soil profile 1-2 m (3-6 ft) thick with strongly developed argillic B-horizon; local duripan development. Also includes areas of older alluvium in Steamboat Hills

Sidestream deposits. Fluvial silt and medium sand associated with Tahoe Outwash deposits along the Truckee River; soil profile similar to Qtm

Qmb Mud-volcanic breccia. Heterogeneous mixture of

bleached and ion-stained boulders and fragments of volcanic rocks opaline and chalcedonic sinter, and disintegrated franitic debris Donner Lake Outwash. Bouldery outwash forming 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 baialt and quartz monzonite more than 2 m (6 ft) in dianeter. Strongly developed soil profile 2-3 m (6-10 t) 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 profile similar to Qdo; locally overlain by undifferentiated veneer of Qtm; well cemented and/or hydrothermally altered in Steamboat Hills area Pediment gravel. Veneers of moderately to poorly

sorted medium pebble to cobble gravel < 3 m (10 ft) thick; commonly occurs as gravel sheet < 1 m (3 ft) thick over bedrock and older pediment and alluvial fan gravels; clast content dominantly volcanic. Strongly developed soil profile; thick argillic B-horizon locally overlying siliceous and calcic duripan Alluvial fan deposits of Peavine Mountain. Yellowish-brown gravel and gravelly muddy sand consisting of angular pebbles to small cobble-sized clasts of

andesite and white bleached andesite in matrix of muddy sand; unconformably overlies steeply dipping beds of sandstone of Hunter Creek (Th). 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 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

Tsb 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 \$32,T18N,R20E. K-Ar age: 2.53 ± 0.1 m.y.

Toa 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. Th₁: Brown to gray, medium- to thick-bedded, sub-angular coarse sand; intercalated tuff and subrounded andesite pebble to cobble conglomerate; grades upward into thin-bedded silt and diatomaceous silt. Th2: 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 Tkf Kate Peak Formation. Tkf: Hornblende-pyroxene Tkfb andesite and dacite flows with minor breccia Tkb and volcanic conglomerate. Tkfb: Hydrothermally

Tki bleached Tkf. Tkb: Hornblende-pyroxene dacite and Tkd andesite lahars, pyroclastic breicia, volcanic con glomerate, and sandstone with ninor flows. Tkl: Intrusive hornblende-pyroxene-bitite decite. Tkd:

Flow-dome complexes of tornblende-biotite

R19E

Alta Formation. Flows of dark fine-grained soda trachyte; occurs in Steamboat Hils area Biotite-hornblende granodiorite

Metasedimentary and metavolcanic rocks. Graywacke, argillite, slate, phyllite, hornfels, metatuff and breccia, volcanic conglomerate, and marble

rhyodacite porphyry

Contact. Dashed where approximately located; dotted Fault. Dashed where approximately located; dotted where concealed; queried where presence uncertain



Undifferentiated landslide deposits Artificial fill. Not all fill areas shown Strike and dip of beds

Strike and dip of flow layering Phreatic explosion crater. (Steamboat Hills)

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).

REFERENCES

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