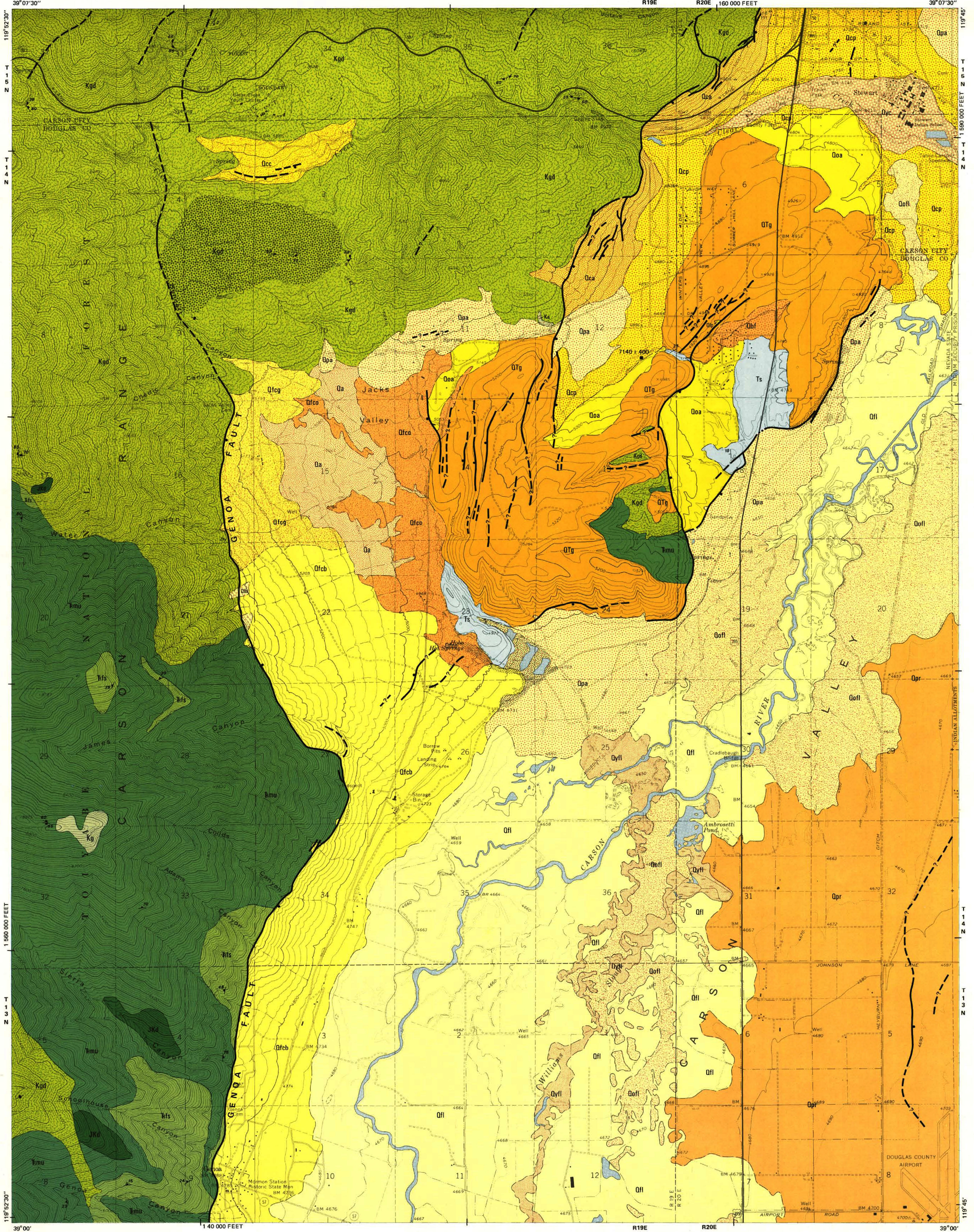
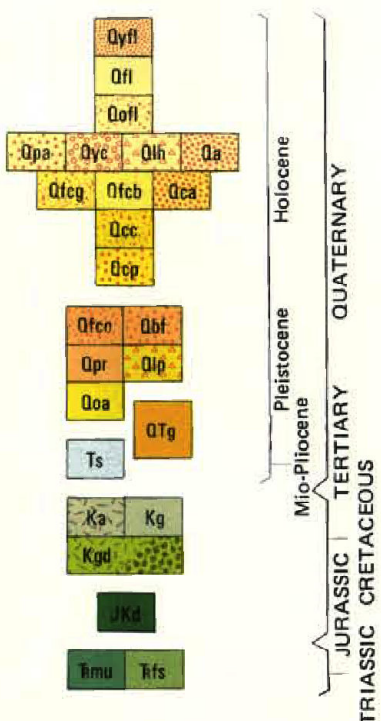


GENOA QUAD



GEOLOGY



Qyfl Young flood-plain and channel deposits of the Carson River. Very dark grayish-brown, sandy mud. Non-indurated, well sorted. Mollisols, A-C profiles. <2000 yrs old.

Qfl Flood-plain deposits of the Carson River. Brown to olive-gray, muddy medium to coarse sand, sandy mud. Non-indurated, moderately well sorted. Mollisols, A-C profiles. <2000 yrs old.

Qofl Older flood-plain deposits of the Carson River. Light brownish-gray, slightly gravelly medium sand. Non-indurated, moderately sorted. Reworked alluvial deposits with geomorphic features similar to Qfl. Mollisols and Inceptisols, A-C profiles. <2000 yrs old.

Qpa Pediment and alluvial-fan deposits. Moderate to yellowish-brown, gravelly fine to coarse sand, gravelly fine sandy mud in small fans, bajadas, and minor pediment veneers. Non-indurated, moderately sorted. Entisols lacking distinct pedogenic horizons. <2000 yrs old.

Qvc Flood-plain deposits of Clear Creek. Dark brown, muddy very fine sand. Non-indurated, moderately well sorted. Mollisols, A-C profiles. <2000 yrs old.

Qlh Landslide deposits. Unsorted debris from shallow slope failure in Qlcb. Probable late Holocene age.

Qs Alluvium of Jacks Valley. Dark reddish-brown to olive-black medium sand. Non-indurated, well sorted. Mollisols, A-C profiles. Middle to late Holocene; soils <4000 yrs old.

Qfcg Alluvial-fan deposits of the Carson Range. Qfcg: Very dark brown, muddy sandy granule gravel, gravelly medium to coarse sand. Non-indurated, moderately sorted. Low gradient fans derived from Kgd. Qfcb: Yellowish to dark grayish-brown, muddy sandy pebble to cobble gravel. Non-indurated, unsorted. Steep gradient fans derived from Kgd, Tmu, and Jfs. Mollisols, A-C profiles. Early to middle Holocene; soils about 5000 yrs old.

Oca Colluvial and alluvial deposits. Dark reddish-brown, sandy granule to pebble gravel. Non-indurated, poorly sorted, crossbedded. Slopewash deposited at base of faults in weathered Kgd. Mollisols, A-C profiles. Early to middle Holocene; soils about 5000 yrs old.

Qcc Colluvial and stream deposits of Clear Creek. Yellowish-red to pale-brown, muddy coarse sand, gravelly medium sand. Non-indurated, poorly to well sorted, discontinuous cambic B profiles. Early to middle Holocene; soils about 5000 yrs old.

Qcp Alluvial-plain deposits of Clear Creek. Yellowish-brown, sandy pebble gravel. Weakly indurated, poorly sorted. Forms low-gradient plain continuous into Eagle Valley. Mollisols, cambic B profiles. Early Holocene; soils about 7000 yrs old.

Qfco Older alluvial deposits of the Carson Range. Reddish-gray to yellowish-brown, muddy sandy cobble gravel, gravelly muddy very fine to medium sand. Weakly indurated, poorly sorted. Includes fans and undifferentiated alluvium. Mollisols, cambic B profiles. Wisconsinian to early Holocene; soils about 10,000 yrs old.

Qbf Basin-fill deposits. Dark yellowish-brown to yellow, slightly gravelly coarse sand. Non-indurated, moderately well sorted. Aridisols, cambic B profiles. Wisconsinian to early Holocene; soils about 10,000 yrs old.

Qpr Old alluvium of the Pine Nut Range. Olive-brown, sandy granule gravel, gravelly fine to coarse sand. Non-indurated, poorly to well sorted. Aridisols, B₁ and C₁ profiles. Early to middle Pleistocene.

Qlp Landslide deposits. Unsorted debris from shallow block rotation in QTg. Probable early to middle Pleistocene.

Oca Old alluvium. Strong brown to dark yellowish-brown, muddy sandy pebble and cobble gravel, gravelly medium sand. Weakly to non-indurated, unsorted to poorly sorted. Contains Tmu and Jfs clasts, and diatomaceous ash near surface. Aridisols, B₁ and C₁ profiles. Early to middle Pleistocene.

QTg Pediment deposits of Indian Hills. Dark reddish-brown to very pale-brown, sandy pebble to cobble gravel. Non-indurated, unsorted. Contains mostly Tmu and Jfs clasts, and local lenses of fine sand. Forms deeply eroded, broad terraces of low gradient. Includes thin colluvial mantle on hillslopes. Aridisols, B₁ and C₁ profiles. Late Tertiary to early Pleistocene.

Ts Fluviolacustrine and alluvial sediments. Yellow to dark yellowish-brown, sandy granule to boulder gravel, tuffaceous fine siltstone. Weakly to well indurated, unsorted to well sorted.

Ka Granite aplite. Pinkish gray, fine grained, occurs as thin dikes in Kgd.

Kg Granite. Light gray, fine grained, equigranular.

Kgd Hornblende-biotite granodiorite. Light gray to gray, fine to coarse grained, equigranular to porphyritic. Stippled where decomposed to depths >7 m (23 ft). Overlain by mantle of regolith and colluvium up to 5 m (16 ft) thick. Locally transitional to quartz monzonite porphyry.

Jkd Diorite. Greenish gray, fine to coarse grained. Includes diorite porphyry.

Tmu Metavolcanic rocks, undifferentiated. Greenish gray to bluish gray, fine grained, siliceous. Hard. Mostly metamorphosed volcanic flows and breccia of intermediate to mafic composition. Includes small masses of fine-grained diorite. Lineated, foliated.

Jfs Felsic schist, undifferentiated. Light greenish gray to bluish gray, fine grained, siliceous. Includes slate and flaser gneiss. Interbedded with Tmu.

Thin hot springs deposits. Composed of CaCO₃ precipitate on alluvial surfaces. Generally confined to fault areas.

Lithologic contact. Long dashes where approximately located; short dashes where gradational; dotted where concealed.

Fault. Dashed where approximately located. Ball on downthrown side. Queried where possible fault.

Strike and plunge of slickensides.

Bedding attitude.

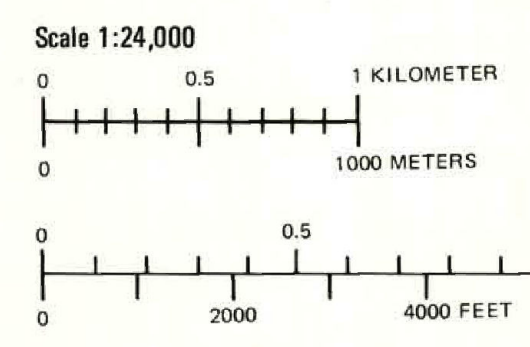
Joint attitude.

Bedding schistosity attitude in metamorphic rocks.

Radioisotope sample location. Showing age in years.

Robert C. Pease, 1980

Mapping in part based on McKinney, R. F. (1975) Environmental geology of eastern Carson City, Nevada: Univ. of Nevada, Reno, unpub. M.S. thesis.



CONTOUR INTERVAL 40 FEET
DOTTED LINES ARE 10-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

Topographic base from U.S. Geological Survey Genoa 7 1/2' quadrangle, 1974
Cartography by Susan L. Nichols

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