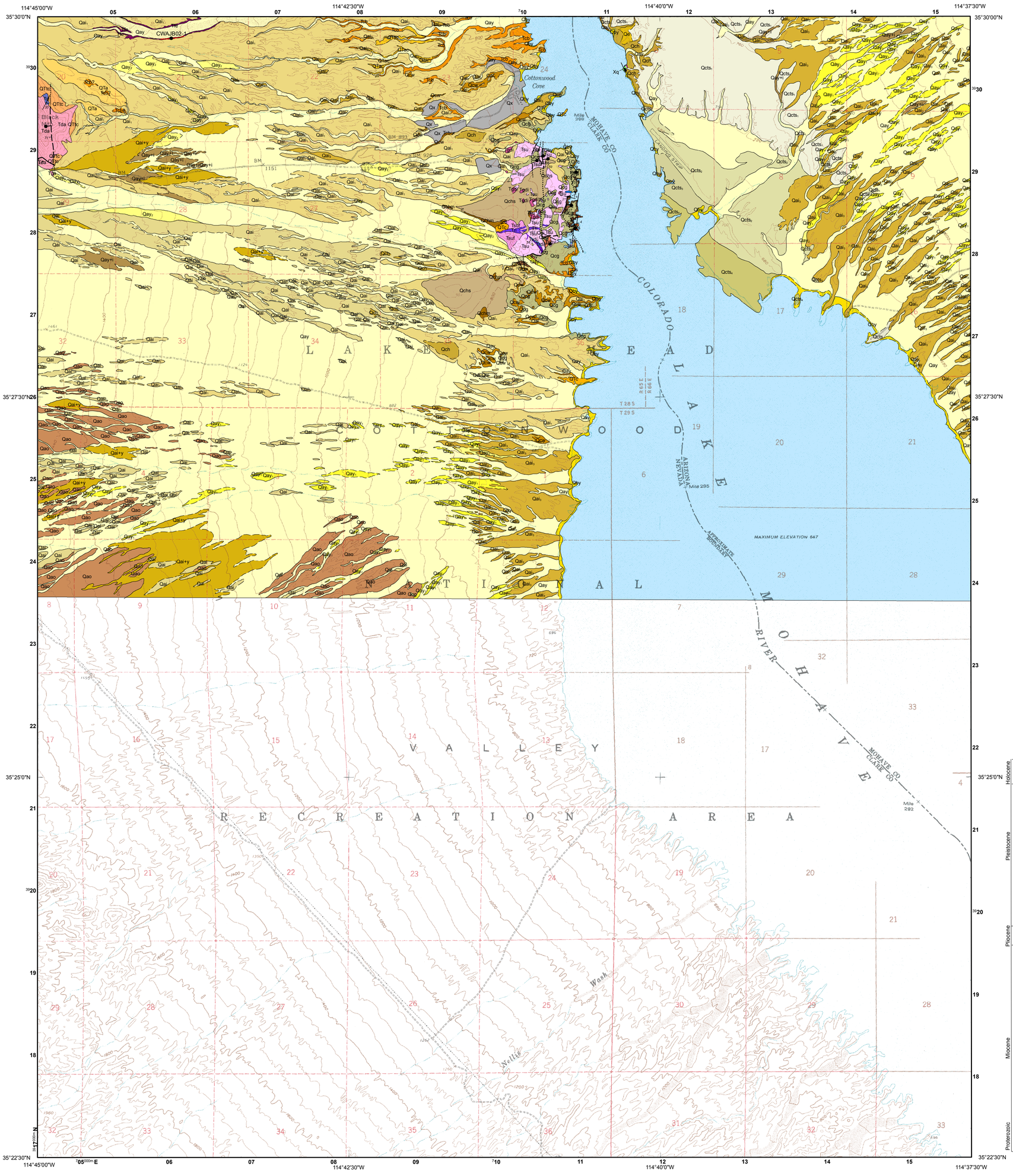


PIEDMONT ALLUVIUM AND HILLSLOPE DEPOSITS

- Qay — Piedmont alluvium, undivided (Holocene)
- Qay$_y$ — Piedmont alluvium (late to middle Holocene)
- Qay$_i$ — Piedmont alluvium (Middle to early(?) Holocene)
- Qai$_y$ — Piedmont alluvium (early Holocene to late Pleistocene)
- Qai$_y$ — Piedmont alluvium (Late Pleistocene)
- Qai$_i$ — Piedmont alluvium (late to middle Pleistocene)
- Qay+i — Piedmont alluvium, undivided. Mixed Qay and Qai (Holocene to Pleistocene)
- Qai+y — Piedmont alluvium, undivided. Mixed Qai and Qay (Holocene to Pleistocene)
- Qao — Piedmont alluvium (middle Pleistocene)
- QTa — Piedmont alluvium (early Pleistocene to Pliocene(?))
- QTac — Piedmont alluvium with reworked Colorado River sediments (early Pleistocene to late Pliocene(?))
- Tfe — Fanglomerate of the Eldorado Mountains (Pliocene to late Miocene)
- QTtc — Talus and colluvium (Pleistocene to Pliocene)

COLORADO RIVER DEPOSITS

- Qcts — Colorado River terrace sediments, undivided (Late Pleistocene)
- Qcts$_1$ — First (oldest and highest) Colorado River terrace (late Pleistocene)
- Qcts$_2$ — Second Colorado River terrace (late Pleistocene)
- Qcts$_3$ — Third Colorado River terrace (late Pleistocene)
- Qcts$_4$ — Fourth (lowest lying) Colorado River terrace (late Pleistocene)
- Qcs — Colorado River sediments, undivided (late to middle (?) Pleistocene)
- Qcg — Colorado River gravels, undivided (late to middle Pleistocene)
- Qch — Colorado River sediments. Chemehuevi beds of House et al. (2005) (late Pleistocene)
- Qchs — Sand dominated facies of the Chemehuevi beds (late Pleistocene)
- Qchm — Mud-dominated facies of the Chemehuevi beds (late Pleistocene)
- Qcw — Colorado River sediments. The 'sediments of Cottonwood Cove' (late (?) Pleistocene)
- QTcl — Colorado River sediments, the 'lakeside beds' (middle to early(?) Pleistocene)
- QTc — Colorado River sediments, undivided (early Pleistocene to late Pliocene(?))
- Tcb — Colorado River sediments. Bullhead alluvium of House and others (2005, 2008) (early Pliocene)
- Tcb? — Eolian deposits of reworked Tcb? (Pliocene)
- Tls — Valley fill sediments. Lost Cabin beds of House et al. (2008)? (late Miocene)

OTHER UNITS

- Qby — Beach sediments (recent)
- Qe — Eolian sand (recent to late Pleistocene)
- Qx — Anthropogenic deposits (recent)

MIOCENE STRATA

- Tc — Conglomerate and Sandstone (middle to late Miocene)
- Tdbv — Breccia of volcanic rock (middle Miocene) Prob. correlates with breccia units in Mount Davis Volcanics (Faulds, 1995).
- Tdm — Basaltic andesite lavas (middle Miocene) Prob. correlates with mafic lavas of Mount Davis Volcanics (Faulds, 1995).
- Trt — Rhyolitic tuffaceous rocks (middle Miocene)
- Tda — Dacite-andesite lavas (middle Miocene) Possibly correlative with Mount Davis Volcanics.

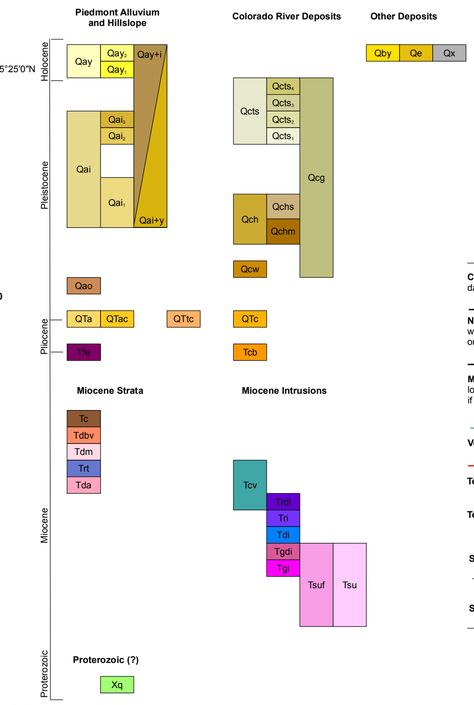
MIOCENE INTRUSIONS

- Tcv — Calcite veins (middle Miocene)
- Trdi — Rhyodacite dikes (middle Miocene)
- Tri — Rhyolite dikes (middle Miocene)
- Tgdi — Porphyritic granodiorite dikes (middle Miocene)
- Tdi — Dacite dikes (middle Miocene)
- Tgi — Granitic dike (early to middle Miocene)
- Tsuf — Upper Searchlight pluton, porphyritic-phaneritic phase, quartz monzonite to granodiorite (early to middle Miocene)
- Tsu — Upper Searchlight pluton, quartz monzonite to granodiorite (early to middle Miocene)

PROTEROZOIC (?)

- Xq — Quartzite (Paleoproterozoic?)

See accompanying text for full unit descriptions and references.



Symbology (per FGDC-STD-013-2006)

Contact Solid where certain and location accurate, long-dashed where approximate, short-dashed where inferred.

Normal fault Solid where certain and location accurate, long-dashed where approximate, dotted where concealed; queried if identity or existence uncertain. Ball on downthrown side.

Mainly strike-slip fault Solid where certain and location accurate, long-dashed where approximate, dotted where concealed; queried if identity or existence uncertain. Arrows show relative motion.

Vein Showing dip.

Tephra Bed

Tephra Sample Locality
CWAJB02-1

Strike and dip of bedding
15 Inclined

Strike and dip of joints
15 Inclined

PRELIMINARY GEOLOGIC MAP OF THE NORTH HALF OF THE SPIRIT MTN. NW QUADRANGLE, CLARK COUNTY, NEVADA AND MOHAVE COUNTY, ARIZONA

P. Kyle House and James E. Faulds

2008

Adjoining 7.5' quadrangle names

1	2	3
4	5	6
7	8	9

1 Ireteba Peaks
2 Mount Davis
3 Mount Perkins
4 Fourth of July Mountain
5 Spirit Mtn. NW
6 Spirit Mtn. NE
7 Searchlight SE
8 Spirit Mtn.
9 Spirit Mtn. SE

Scale 1:24,000

0 0.5 1 kilometer

0 0.5 1 mile

0 1000 2000 3000 4000 5000 feet

CONTOUR INTERVAL 40 FEET

Projection: Universal Transverse Mercator, Zone 11, North American Datum 1927 (m)

Base map: U.S. Geological Survey Spirit Mtn. NW 7.5' quadrangle (1959), *Polyconic projection*

Geologic mapping in UTM is no longer coincident with this base.

Nevada Bureau of Mines and Geology
Mackay School of Earth Sciences and Engineering
College of Science
University of Nevada, Reno

Field work done in 2006-2008
Supported by the U.S. Geological Survey STATEMAP Program
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DRAFT
Preliminary geologic map
Has not undergone office or field review
Will be revised before publication

Edited by Jordan Hastings
Compilation in ESRI ArcGIS v9.2 (ArcGeology v1.2) by P. Kyle House, and in Cardinal Systems Vr Mapping Software by Nick Hinz, and James E. Faulds
Cartography and layout in ESRI ArcGIS v9.2 by Matthew Richardson and Jennifer Mauldin
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