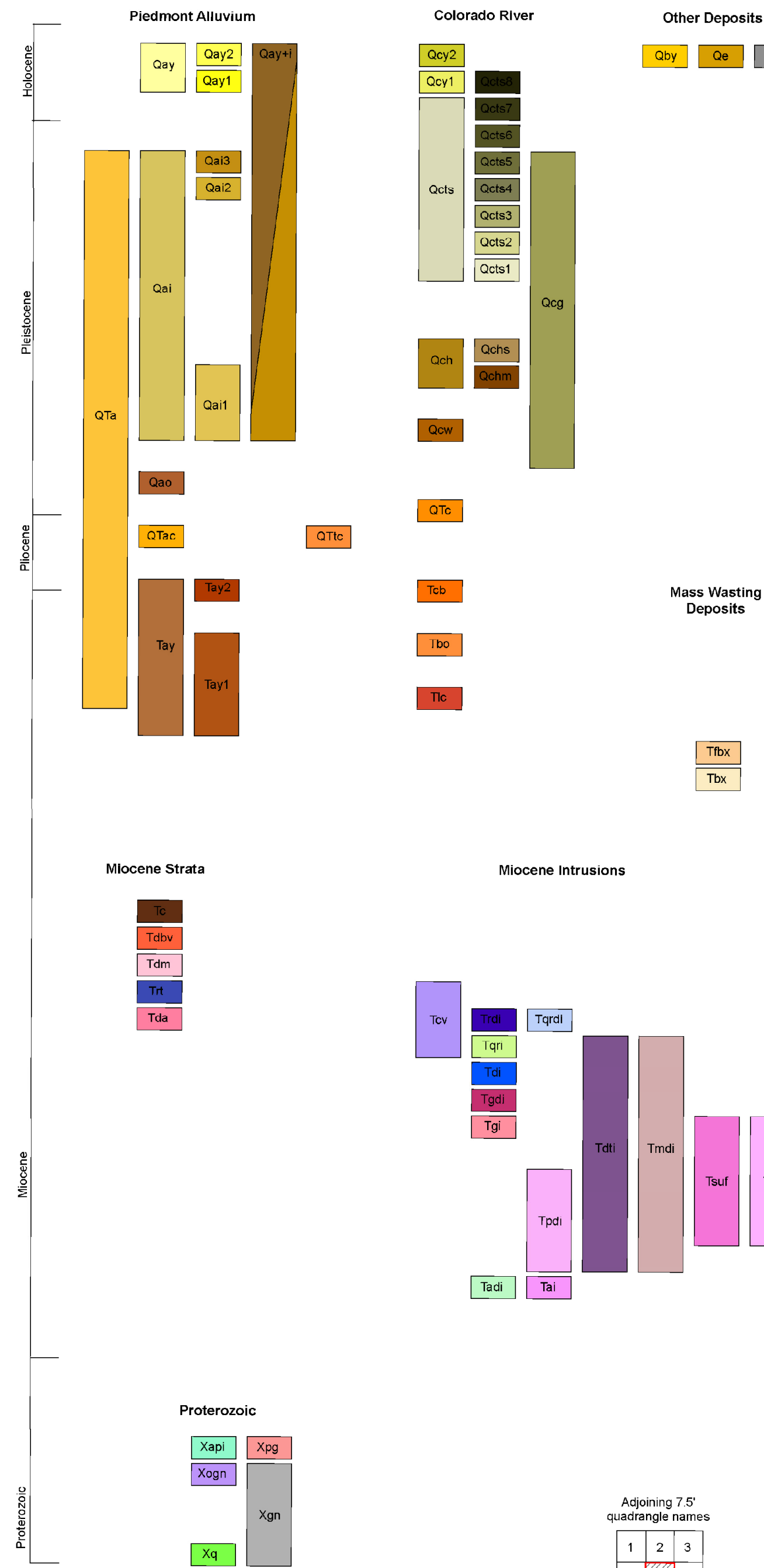


- Surficial Geologic Deposits**
- Piedmont Alluvium and Hillslope Deposits**
- Qay Young piedmont alluvium, undivided (Holocene)
 - Qay2 Piedmont alluvium (late to middle Holocene)
 - Qay1 Piedmont alluvium (Middle to early(?) Holocene)
 - Qai Intermediate age piedmont alluvium, undivided (early Holocene to late Pleistocene)
 - Qai3 Piedmont alluvium (early Holocene to late Pleistocene)
 - Qai2 Piedmont alluvium (Late Pleistocene)
 - Qai1 Piedmont alluvium (late to middle Pleistocene)
 - Qaym Piedmont alluvium, undivided, Mixed Qay and Qai (Holocene to Pleistocene)
 - Qayr Piedmont alluvium, undivided, Mixed Qai and Qay (Holocene to Pleistocene)
 - Qay3 Piedmont alluvium (middle to early Pleistocene)
 - Qta Piedmont alluvium, undivided (early Pleistocene to late Miocene)
 - Qtae Piedmont alluvium with reworked Colorado River sediments (early Pleistocene to late Pliocene?)
 - Qtic Talus and colluvium (Pleistocene to Pliocene)
 - Tay Ancient piedmont alluvium / fanlomerate (Pliocene to late Miocene)
 - Tay2 Ancient piedmont alluvium / fanlomerate that likely postdates river integration (early Pliocene to late Miocene)
 - Tay1 Ancient piedmont alluvium / fanlomerate that likely predates river integration (late Miocene)
- Colorado River Deposits**
- Qcy2 Colorado River channel and proximal floodplain sediments, below lake level (Recent)
 - Qcy1 Young Colorado River terrace, below lake level (Recent)
 - Qcde Colorado River terrace sediments, undivided (Late Pleistocene)
- Other Units**
- Qby Lake Mohave Beach sediments (recent)
 - Qe Eolian sand (recent to late Pleistocene)
 - Qz Anthropogenic deposits (recent)
 - Lake Lake Mohave and back-barrier lagoons and ponds
 - Uhm Unmapped materials below lake level (recent to Miocene)

- Pliocene and late Miocene Strata**
- Tbs Bousse formation, Lacustrine sediments, tufa, and limestone, Early Pliocene to late Miocene
 - Tis Valley fill sediments, Lost Cabin beds of House et al. (2008) (late Miocene)
 - Tbx Massive debris flow deposits composed primarily of Xogn (late Miocene)
 - Tbx Landslide megabreccia composed of Xogn and lesser Xapi (late Miocene)
- Miocene Strata**
- Ts Conglomerate and Sandstone (middle to late Miocene)
 - Tds 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).
 - Tm Rhyolitic tuffaceous rocks (middle Miocene)
 - Tda Dacite-andesite lavas (middle Miocene) Possibly correlative with Mount Davis Volcanics.
- Miocene Intrusions**
- Tcv Calcite veins (middle Miocene)
 - Tqrd Rhyodacite dikes - quartz bearing (middle Miocene)
 - Tqd Rhyodacite dikes (middle Miocene)
 - Tqd1 Rhyolite dikes - quartz bearing (middle Miocene)
 - Tpd Porphyritic granodiorite dikes (middle Miocene)
 - Td Dacite dikes (middle Miocene)
 - Tg Granitic dikes (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)
 - Tpd1 Porphyritic dacite or diorite dikes (early to middle Miocene)
 - Tds Fine to medium-grained, locally porphyritic diorite dikes (early to middle Miocene)
 - Tad Altered andesite, dacite, and diorite dikes (early to middle Miocene)
 - Ta Andesite to dacite dikes (early to middle Miocene)
 - Tmd1 Microdiorite dikes (early to middle Miocene)
- Proterozoic (?)**
- Xap Aplite dikes (Paleoproterozoic?)
 - Xpg Pegmatite dikes (Paleoproterozoic?)
 - Xogn Granitic to dioritic orthogneiss (Paleoproterozoic?)
 - Xgn Gneiss - Undivided, primarily paragneiss (Paleoproterozoic)
 - Xq Quartzite (Paleoproterozoic?)



Symbolism (per GDC-STD-013-2008)

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

Tephra exposure

Strike and dip of bedding

Strike and dip of metamorphic foliation

Strike and dip of joints

Inclined

Vertical Foliation

Inclined

Inclined

Inclined

Inclined

Inclined

Inclined

Inclined

Inclined

Inclined

Inclined

Inclined

Inclined

Inclined

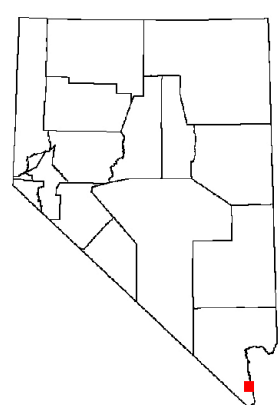
Inclined

Inclined

Inclined

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

P. Kyle House and James E. Faulds
2009



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.