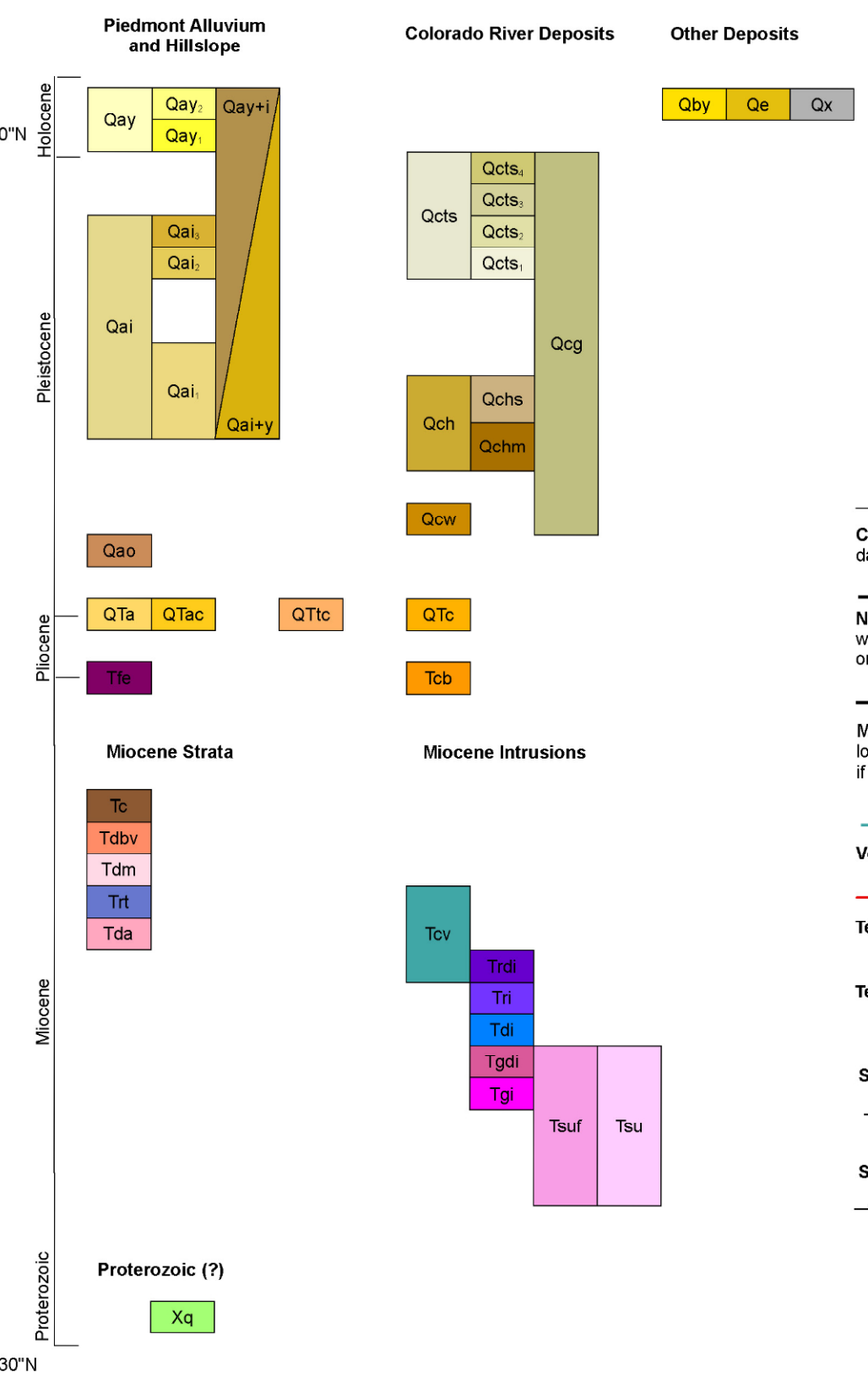




- PIEDMONT ALLUVIUM AND HILLSLOPE DEPOSITS**
- Qay Piedmont alluvium, undivided (Holocene)
 - Qay Piedmont alluvium (late to middle Holocene)
 - Qay Piedmont alluvium (Middle to early(?) Holocene)
 - Qai Piedmont alluvium (early Holocene to late Pleistocene)
 - Qai Piedmont alluvium (Late Pleistocene)
 - Qai Piedmont alluvium (late to middle Pleistocene)
 - Qay+H Piedmont alluvium, undivided, Mixed Qay and Qai (Holocene to Pleistocene)
 - Qay+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(?))
 - Tm Fanglomerate of the Eldorado Mountains (Pliocene to late Miocene)
 - Qtic Talus and colluvium (Pleistocene to Pliocene)
- COLORADO RIVER DEPOSITS**
- Ocls Colorado River terrace sediments, undivided (Late Pleistocene)
 - Ocls First (oldest and highest) Colorado River terrace (late Pleistocene)
 - Ocls Second Colorado River terrace (late Pleistocene)
 - Ocls Third Colorado River terrace (late Pleistocene)
 - Ocls Fourth (lowest lying) Colorado River terrace (late Pleistocene)
 - Ocs Colorado River sediments, undivided (late to middle (?) Pleistocene)
 - Ocg Colorado River gravels, undivided (late to middle Pleistocene)
 - Och Colorado River sediments, Chemehuevi beds of House et al. (2005) (late Pleistocene)
 - Ochs Sand dominated facies of the Chemehuevi beds (late Pleistocene)
 - Ochm Mud-dominated facies of the Chemehuevi beds (late Pleistocene)
 - Ocw Colorado River sediments, The 'sediments of Cottonwood Cove' (late (?) Pleistocene)
 - Qtd 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)
 - Ta 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)
 - Tcbv 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).
 - Tft Rhyolitic tuffaceous rocks (middle Miocene)
 - Tda Dacite-andesite lavas (middle Miocene) Possibly correlative with Mount Davis Volcanics.
- MIOCENE INTRUSIONS**
- Tcv Calcite veins (middle Miocene)
 - Ttd Rhyodacite dikes (middle Miocene)
 - Tti Rhyolite dikes (middle Miocene)
 - Tgd Porphyritic granodiorite dikes (middle Miocene)
 - Td Dacite dikes (middle Miocene)
 - Tg 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, dotted where concealed, queried if identity or existence uncertain. Ball on downthrown side.

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

Strike and dip of bedding

Strike and dip of joints

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 2008-2009
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DRAFT
Preliminary geologic map
Has not undergone office or field review
Will be revised before publication

Edited by Jordan Hastings
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