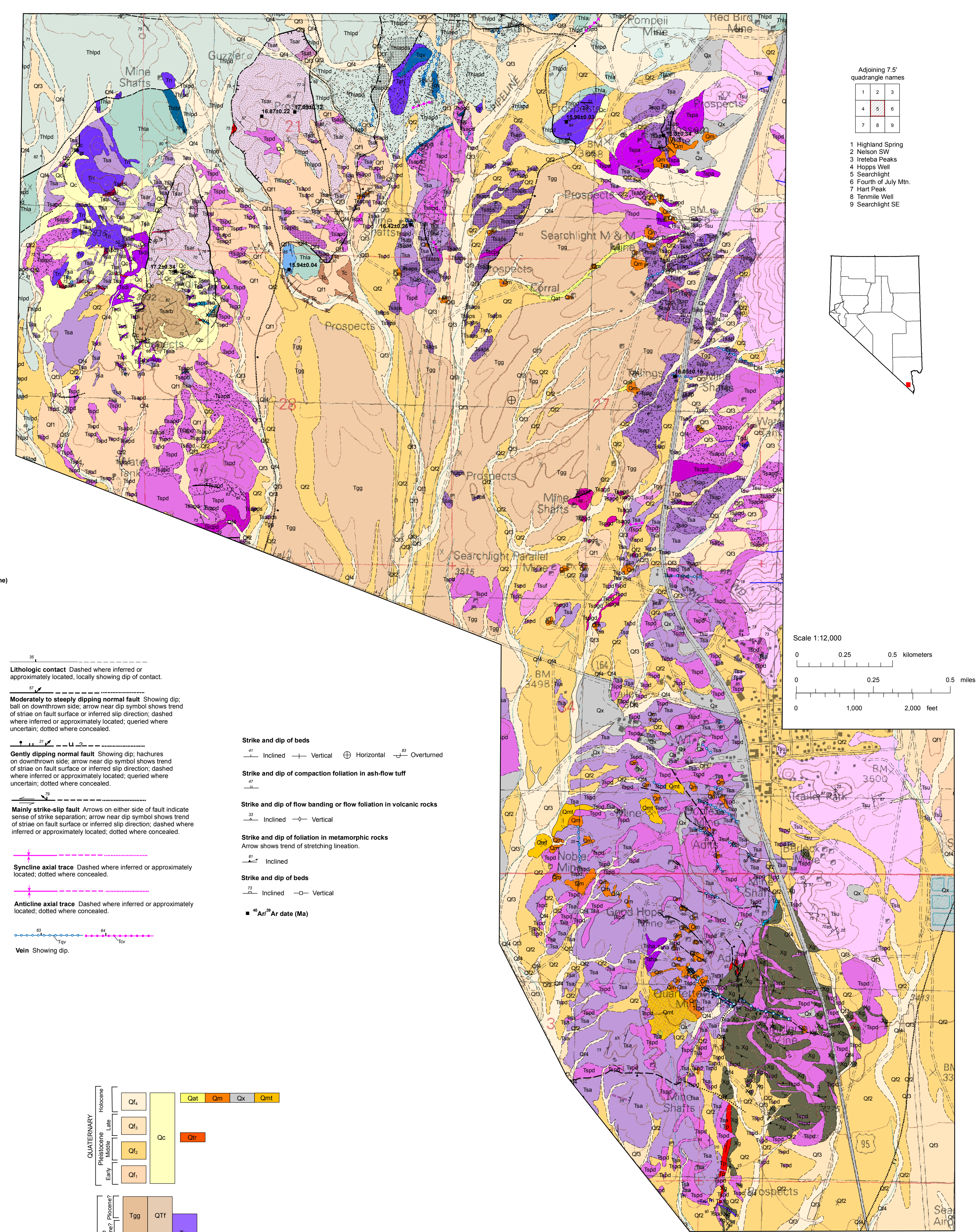
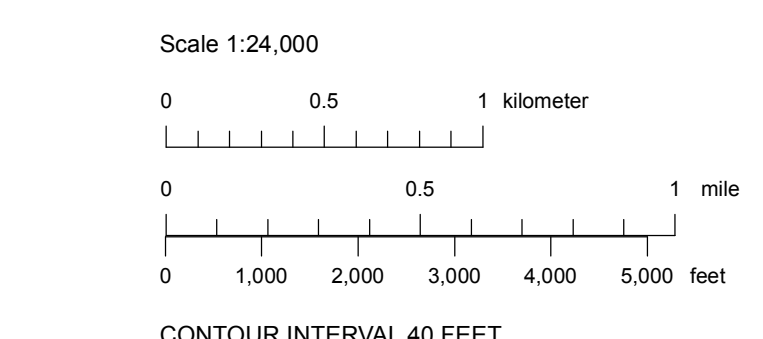


- QUATERNARY DEPOSITS**
 - Qk: Manmade deposits
 - Qm1: Mine tailings
 - Qm2: Mine waste
- Alluvial-fan deposits of northern Plute and western Cottonwood Valleys**
 - Qat: Alluvial tailings (Holocene)
 - Qat1: Travertine spring deposits
 - Qa1: Young alluvial-fan deposits (Holocene)
 - Qa2: Alluvial-fan deposits (late Pleistocene)
 - Qa3: Alluvial-fan deposits (middle Pleistocene)
 - Qa4: Alluvial-fan deposits (early Pleistocene)
 - Qc: Colluvial deposits (Holocene to Pleistocene)
 - Qc1: Gravels, volcanic clasts (Pliocene to late Miocene)
- LATE TERTIARY SEDIMENTARY DEPOSITS**
 - T99: Gravels, granitic clasts (Pliocene to late Miocene)
 - T9c: Conglomerate (Pliocene to late Miocene)
 - T9s: Conglomerate and sandstone (late to middle Miocene)
- BRECCIA DEPOSITS (MIDDLE MIocene)**
 - Tb1: Fault breccia
 - Tb2: Tuff of Bridge Spring megabreccia
 - Tb3: Granitic megabreccia (derived from Searchlight pluton)
 - Tb4: Basaltic andesite and andesite megabreccia
 - Tb5: Andesite megabreccia
 - Tb6: Altered andesite-dacite megabreccia
 - Tb7: Andesite-dacite megabreccia
 - Tb8: Conglomerate and andesite breccia
- VOLCANICS OF THE HIGHLAND RANGE (MIDDLE TO EARLY MIocene)**
 - Upper mafic sequence, volcanics of the Highland Range (middle Miocene)**
 - Th8: Basaltic andesite lavas
 - Th7: Middle felsic sequence, volcanics of the Highland Range (middle to early Miocene)
 - Th6: Tuffaceous sedimentary rocks and nonwelded tuffs
 - Th5: Matrix-supported conglomerate
 - Th4: Altered rhyolite lavas
 - Th3: Rhyolite lavas
 - Th2: Rhyolite breccia
 - Th1: Rhyodacite or dacite lavas
 - Lower intermediate sequence, volcanics of the Highland Range (middle to early Miocene)**
 - Th10: Rhyodacite lavas
 - Th9: Altered trachyandesite-trachydacite lavas
 - Th8: Transitional porphyritic trachyandesite-trachydacite lavas
 - Th7: Strongly altered porphyritic trachyandesite-trachydacite lavas
 - Th6: Altered porphyritic trachyandesite lavas
 - Th5: Dacite megabreccia
 - Th4: Porphyritic trachyandesite lavas
 - Th3: Volcanic breccia of porphyritic dacite
 - Th2: Trachydacite lavas
 - Th1: Volcanic breccia
 - Th10: Altered trachyandesite lavas
 - Th9: Trachyandesite lavas
 - Th8: Altered porphyritic trachyandesite lavas
 - Th7: Porphyritic trachyandesite lavas
 - Th6: Trachydacite and trachyandesite flows - undivided
- SEARCHLIGHT VOLCANIC COMPLEX (MIDDLE TO EARLY MIocene)**
 - Th11: Strongly altered porphyritic trachyandesite - trachyandesite
 - Th10: Altered porphyritic trachyandesite - trachyandesite
 - Th9: Strongly altered porphyritic trachyandesite
 - Th8: Altered porphyritic trachyandesite
 - Th7: Porphyritic trachyandesite - mainly intrusions
 - Th6: Trachydacite porphyry
 - Th5: Strongly altered trachyandesite
 - Th4: Altered trachyandesite
 - Th3: Hornblende Trachyandesite
 - Th2: Trachyandesite
 - Th1: Altered tuffaceous rocks
 - Th0: Altered rhyolite lavas
 - Th-1: Altered rhyolite breccia
 - Th-2: Porphyritic trachyandesite
 - Th-3: Diorite intrusions
 - Th-4: Altered granodiorite
 - Th-5: Porphyritic granodiorite
 - Th-6: Searchlight volcanic complex - undivided
- OTHER MIOCENE TUFFS (EARLY MIOCENE)**
 - Tu1: Peach Springs Tuff
 - Tu2: Basaltic andesite and sandstone
- MIOCENE INTRUSIONS**
 - Th12: Searchlight pluton (middle to early Miocene)
 - Th12a: Upper Searchlight pluton, diorite to monzodiorite phase
 - Th12b: Upper Searchlight pluton, equigranular quartz monzonite
 - Th12c: Upper Searchlight pluton, equigranular quartz monzonite
- DIKES AND VEINS**
 - Td1: Basaltic andesite dikes (middle Miocene)
 - Td2: Calcite veins (middle to early Miocene)
 - Td3: Quartz veins, ledges and bodies (middle to early Miocene)
 - Td4: Altered rhyolite intrusions (middle to early Miocene)
 - Td5: Rhyolite breccia proximal to rhyolite intrusions (middle to early Miocene)
 - Td6: Rhyolite intrusions (middle to early Miocene)
 - Td7: Rhyodacite intrusions (middle to early Miocene)
 - Td8: Quartz monzonite porphyry dikes (middle to early Miocene)
 - Td9: Granodiorite dikes (middle to early Miocene)
 - Td10: Porphyritic granodiorite dikes (middle to early Miocene)
 - Td11: Andesite and diorite dikes (middle to early Miocene)
 - Td12: Diorite intrusions (middle to early Miocene)
 - Td13: Altered porphyritic dacite intrusions (middle to early Miocene)
 - Td14: Porphyritic dacite intrusions (middle to early Miocene)
- PROTEROZOIC BASEMENT**
 - Xg1: Quartzite (?) (Paleoproterozoic?)
 - Xm1: Mica schist (Paleoproterozoic?)
 - Xg11: Paleoproterozoic orthogneiss and Miocene dikes (undivided)
 - Xg: Paleoproterozoic gneiss



- Strike and dip of beds**
 - Inclined: /
 - Vertical: |
 - Horizontal: —
 - Overturned: /
- Strike and dip of compaction foliation in ash-flow tuff**
 - Inclined: /
 - Vertical: |
- Strike and dip of flow banding or flow foliation in volcanic rocks**
 - Inclined: /
 - Vertical: |
- Strike and dip of foliation in metamorphic rocks**
 - Inclined: /
 - Vertical: |
- Strike and dip of beds**
 - Inclined: /
 - Vertical: |
- Ar date (Ma)**
 - Ar: Ar date (Ma)



PRELIMINARY GEOLOGIC MAP OF THE SEARCHLIGHT QUADRANGLE, CLARK COUNTY, NEVADA

James E. Faulds, Alan R. Ramelli and Stephen B. Castor
Nevada Bureau of Mines and Geology
2010

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

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

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