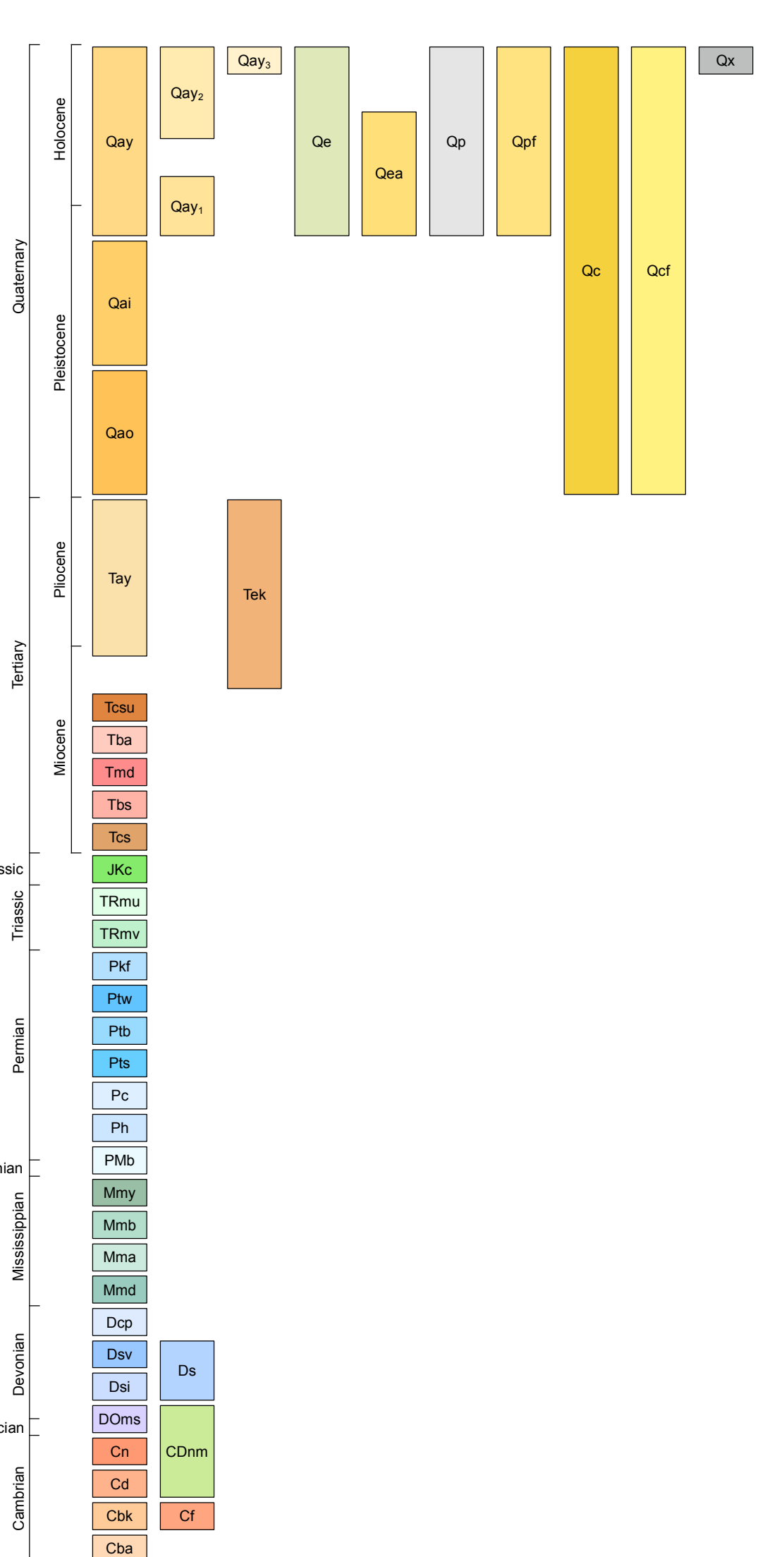
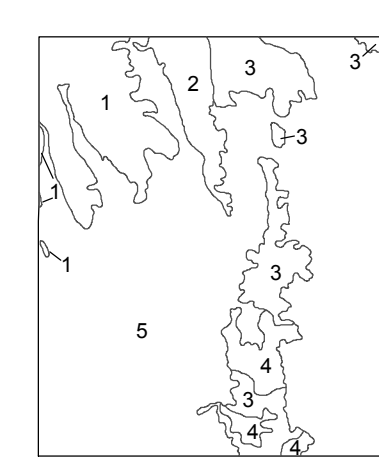


- Anthropogenic Features and Deposits**
 - Ox Disturbed and modified areas
- Playa and related deposits**
 - Qp Playa deposits (latest Holocene to late Pleistocene)
 - Qpf Playa fringe deposits (Holocene to late Pleistocene)
- Eolian Deposits**
 - Qe Eolian sand (Holocene to late Pleistocene)
 - Qea Mixed eolian sand and alluvium (early Holocene to late Pleistocene)
- Hillslope Deposits**
 - Qc Colluvium (Holocene to Pleistocene)
 - Qcd Colluvium and debris fans (Holocene to Pleistocene)
- Alluvial deposits**
 - Qay Young alluvium, undivided (Holocene to late Pleistocene)
 - Qay1 Young active alluvium (late Holocene)
 - Qay2 Young active alluvium and recently abandoned active alluvial surfaces (Holocene)
 - Qay3 Young inactive alluvium (early Holocene to late Pleistocene)
 - Qai Intermediate alluvium, undivided (late to middle Pleistocene)
 - Qao Old alluvium, (middle to early Pleistocene)
- Ancient Surficial Deposits, Pliocene to late Miocene**
 - Tay Ancient alluvium (Pliocene to late Miocene)
 - Tek Ancient petrocalcic soil remnants (Pliocene to late Miocene)
 - Tcsu Younger sedimentary rocks (Miocene or Pliocene)
 - Tba Basalt
 - Tmd Tuff of Mount Davis (middle Miocene, 15.0 Ma)
 - Tbs Tuff of Bridge Spring (middle Miocene, 15.2 Ma)
 - Tcs Young sedimentary rocks (Miocene or Late Oligocene)
 - Jkc Conglomerate
- Moenkopi Formation (Triassic)**
 - TRnu Upper Red Member?
 - TRmv Virgin Limestone Member
- Kalibar Formation (Permian)**
 - PKJ Fossil Mountain Member
- Toroweap Formation (Permian)**
 - PTw Woods Ranch Member
 - PTb Brady Canyon Member
 - PTs Seligman Member
 - Pc Cocolino Sandstone (Permian)
 - Ph Hermit Formation (Permian)
 - PMb Bird Spring Formation (Lower Permian to Upper Mississippian)
- Monte Cristo Group (Middle and Lower Mississippian)**
 - Mmy Yellowpine Limestone
 - Mmb Bullion Limestone
 - Mma Anchor Limestone
 - Mmd Dawn Limestone
 - Dcp Crystal Pass Limestone (Lower Mississippian to Upper Devonian)
- Sultan Limestone (Lower Mississippian to Middle Devonian)**
 - Ds Sultan Limestone. Undivided on Sheep Mountain.
 - Dsv Valentine Member
 - Dai Ironside Member
- Cambrian**
 - CDnm Dunderberg, Nopah and Mountain Springs Formations undivided (Middle Devonian, Ordovician, and Upper Cambrian). Sheep Mountain.
 - DOMs Mountain Springs Formation (Middle Devonian, Upper Ordovician and Lower Ordovician)
 - Cn Nopah Formation (Furongian, formerly Upper Cambrian)
 - Cd Dunderberg Shale (Furongian, formerly Upper Cambrian)
 - Cf Frenchman Mountain Dolomite (Cambrian Series 3, formerly Middle Cambrian). Sheep Mountain
 - Cbk Bonanza King Formation (Upper and Middle Cambrian)
 - Cba Bright Angel Shale (Cambrian Series 2 and 3, formerly Lower (in part) and Middle Cambrian)

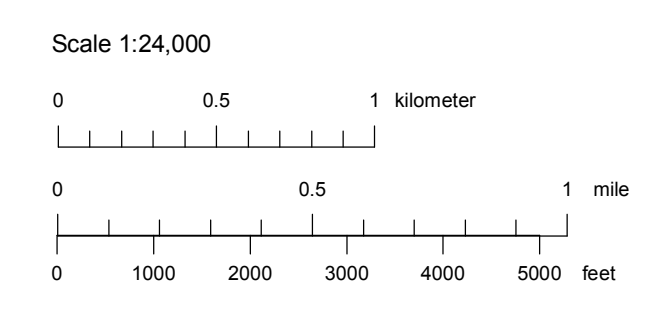


Symbology (per FGDC-STD-013-2006)

- Contact** Solid where certain and location accurate, long-dashed where approximate; queried if identity or existence uncertain.
- Internal contact** Solid where certain and location accurate.
- Fault** Solid where certain and location accurate, long-dashed where approximate, short dash where inferred, dotted where concealed; queried if identity or existence uncertain. Ball on downthrow side, locally showing dip and lineation bearing.
- Thrust fault** Solid where certain and location accurate, long-dashed where approximate, queried if identity or existence uncertain. Sawtooth on upper plate.
- Anticline** Solid where certain and location accurate, long-dashed where approximate, dotted where concealed.
- Syncline** Solid where certain and location accurate.
- Overturned Anticline** Solid where certain and location accurate.
- Strike and dip of bedding**
 - Inclined Approximate Vertical Overturned Horizontal
- Strike and dip of compaction foliation in ash-flow tuff**
 - Inclined Horizontal
- Strike and dip of flow banding or flow foliation in volcanic rocks**
 - Inclined
- Strike and dip of joints**
 - Inclined
- Strike and dip of metamorphic foliation**
 - Inclined

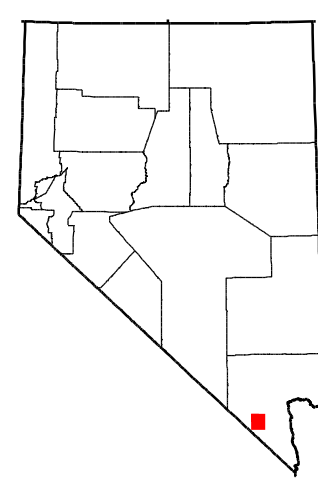


- SOURCES OF GEOLOGIC DATA**
- Bedrock geology by B.C. Burchfiel, 1970s. Digitized and simplified by L.J. Garside, 2008-2009.
 - Bedrock geology by B.C. Burchfiel, 1970s, and L.J. Garside, 2008. Digitized and simplified by L.J. Garside, 2008.
 - Bedrock geology by L.J. Garside, 2008-2009.
 - Bedrock geology by S.M. Rowland, 1981. Digitized and simplified by L.J. Garside, 2008.
 - Surficial geology by P.K. House, 2002-2006. Also includes surficial outcrops in areas of bedrock (1-4 above).



Adjoining 7.5' quadrangle names

1	2	3
4	5	6
7	8	9



**PRELIMINARY GEOLOGIC MAP OF THE JEAN QUADRANGLE,
CLARK COUNTY, NEVADA**
Larry J. Garside, P. Kyle House, B. Clark Burchfiel, and Stephen M. Rowland
2009

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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