

QUATERNARY DEPOSITS

Piedmont and Hillslope Deposits

- Qa Alluvium in recently active washes (late Holocene to historic)
- Qay Young alluvial flat deposits (late Holocene)
- Qfy Young alluvial fan deposits (undivided)
- Qfy1 Young alluvial fan deposits (late to middle Holocene)
- Qfy2 Young alluvial fan deposits (middle to early Holocene)
- Qfw Alluvial fan deposits of the Wyemaha alloformation (late Pleistocene)
- Qfp Alluvial fan deposits of the Paiute alloformation (middle to early Pleistocene)
- Qf Alluvial fan deposits (undivided)
- Qfb Basalt-dominated alluvial fan deposits (undivided)
- Qc Colluvial deposits

Quaternary Lacustrine Deposits

- Qfe Eolian deposits of the Fallon alloformation (late to middle Holocene)
- Qsu Upper Sehoor member (early Holocene? to late Pleistocene)
- Qsub Upper Sehoor member, beach deposits (late Pleistocene)
- Qsm Middle Sehoor member (late Pleistocene)
- Qsms Middle Sehoor member, silt deposits (late Pleistocene)
- Qsmg Middle Sehoor member, gravel deposits (late Pleistocene)
- Qsmb Middle Sehoor member, beach deposits (late Pleistocene)
- Qsmd Middle Sehoor member, tufa capped dendritic terrace (late Pleistocene)
- Qsmt Middle Sehoor member, tufa deposits (late Pleistocene)
- Qsmss Middle Sehoor member, silicified sands (late Pleistocene)
- Qe Eetza member (late? to middle Pleistocene)
- Qess Eetza member, silicified sands (late? to middle Pleistocene)
- Qsl Silicified muds and silts

Other Units

- Qx Anthropogenic deposits (recent)
- Qemd Eolian reworked diatomite mine waste (recent)
- Qm Mine waste (recent)
- Qsp Spring deposits (recent)
- Qp Playa deposits (recent to late Holocene)

MIOCENE - EARLY PIOCENE STRATA

- Tg Roundstone fluvial gravels (late Miocene to early Pliocene)
- Tgdb Roundstone gravels with abundant large dacite boulders (late Miocene to early Pliocene)
- Tsc Sandstone and lesser fluvial gravels (late Miocene to early Pliocene)
- Tby Younger aphanitic basalt lavas (late Miocene)
- Tds Silicified diatomaceous shale (late Miocene)
- Tt Tephra (late Miocene)
- Tds Diatomaceous shale (late Miocene)
- Tss Massive, commonly tuffaceous sandstone (late Miocene)
- Tdss Diatomaceous shale and lesser sandstone, siltstone (late Miocene)
- Tdl Diatomaceous shale, limestone, and siltstone (late Miocene)
- TI Limestone (late Miocene)
- Tst Siltstone (late Miocene)
- Tbcg Basaltic conglomerate (late Miocene)
- Tsr Siltstone and tuffs (late Miocene)
- Tb Aphanitic basalt lavas and breccia (late Miocene)
- Tbb Basaltic breccia (late Miocene)
- Tba Basaltic andesite (late Miocene)
- Tpba Porphyritic basaltic andesite (late Miocene)
- Tyb Altered yellowish basalt (late Miocene)
- Tbu Basalt lavas and lesser sedimentary rocks, undivided (late Miocene)

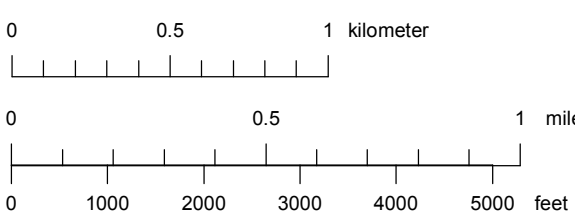
MIOCENE INTRUSIONS

- Tcv Calcite veins (late Miocene)
- Tql Silicified ledges, commonly jasperoidal (late Miocene)
- Tbi Basalt intrusions (late Miocene)

Symbology (per FGDC-STD-013-2006)

- Contact Long-dashed where approximate, short-dashed where inferred, queried if identity or existence uncertain.
- Normal fault Long-dashed where approximate, dotted where concealed; queried if identity or existence uncertain. Showing dip; Ball on downthrown side.
- Strike-slip fault Dotted where concealed. Arrows show relative motion.
- Former shoreline Long-dashed where approximate.
- Strike and dip of bedding 41° Inclined
- Strike and dip of foliation in igneous rocks 33° Inclined
- Strike and dip of joints Vertical
- Well Geothermal well
- Spring
- Tufa mound

Scale 1:24,000



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

Base map: U.S. Geological Survey Hazen 7.5' Quadrangle (1985)

Adjoining 7.5' quadrangle names		
1	2	3
4	5	6
7	8	9

- 1 Two Tips
- 2 Eagle Rock
- 3 Soda Lake NW
- 4 Fernley East
- 5 Hazen
- 6 Soda Lake West
- 7 Silver Springs North
- 8 Lahontan Dam
- 9 Sheklier Reservoir

Map location

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  
Supported by the U.S. Geological Survey STATEMAP Program  
(Agreement No. 08-HQ-AG-0053)

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

Compilation by James E. Faulds and Alan R. Ramelli  
Cartography and map production in ESRI ArcGIS v9.3 (ArcGeology v1.3)  
by Matthew Richardson and Irene Seeley  
First Edition, October 2009  
Printed by Nevada Bureau of Mines and Geology

This map was printed on an electronic plotter directly from digital files. Dimensional calibration may vary between electronic plotters and 8 1/2 x 11 inch directions on the same plotter, and paper may change size; therefore, scale and proportions may not be exact on copies of this map.

For sale by:  
Nevada Bureau of Mines and Geology  
2178 Raggio Parkway  
Reno, Nevada 89512  
ph. (775) 784-6561, ext. 2  
www.nbrmg.unr.edu; nbrmg@unr.edu