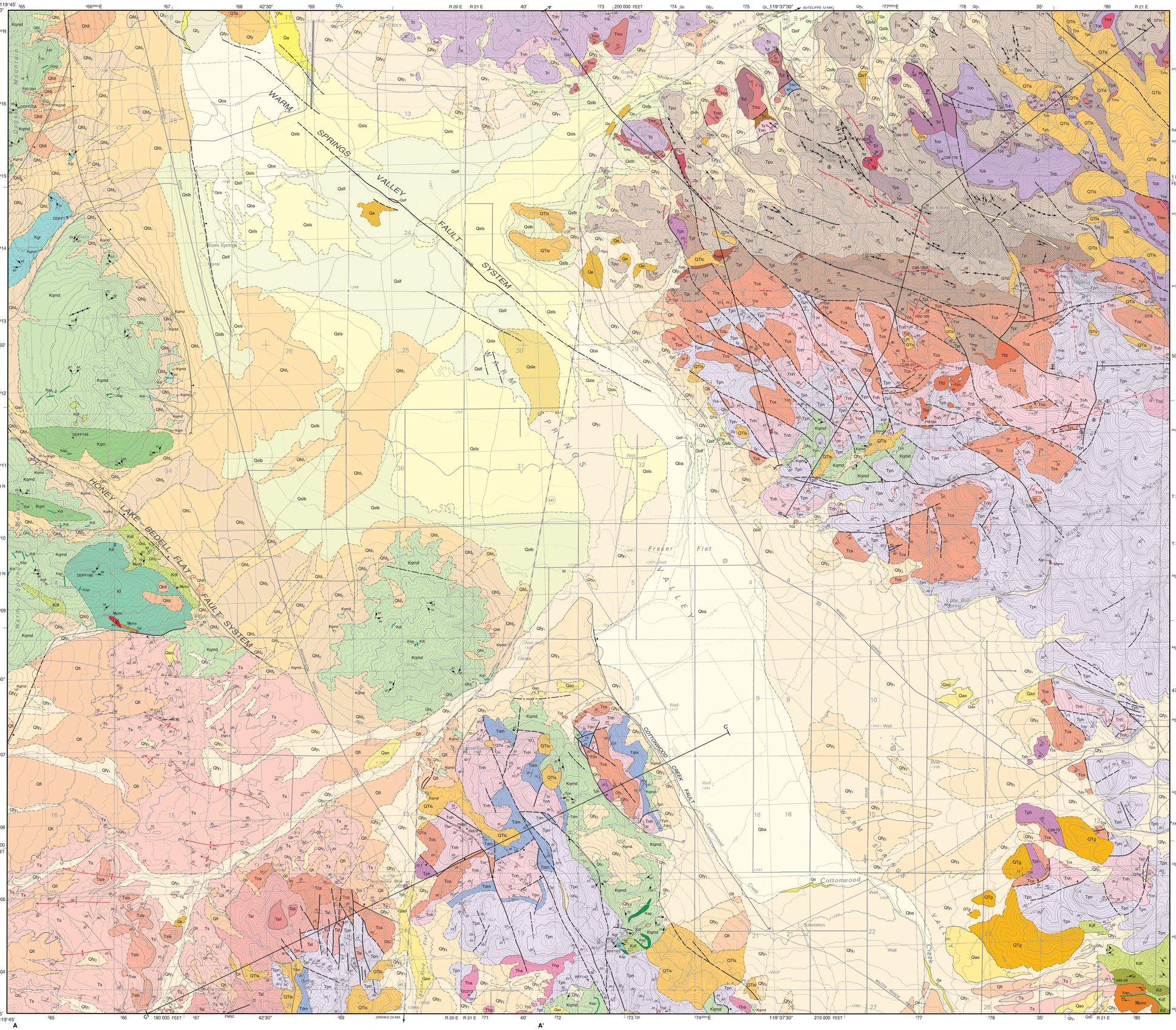
Nevada Bureau of Mines and Geology

Prepared as part of the STATEMAP component of the National Cooperative Geologic Mapping Program in cooperation with the US Geological Survey



Qa Active alluvium
Qe Eolian deposits
Qc Colluvial deposits
Qba Basin alluvial deposits
Qt1 Alluvial terrace and floodplain deposits (mid to late Holocene)
Qt2 Latest Pleistocene to middle Holocene terrace deposits
Qfy Quaternary fan alluvium
Qfy1 Qfd1 Young alluvium
Qfy2 Qfd2 Late Quaternary alluvium

SEHOO FORMATION

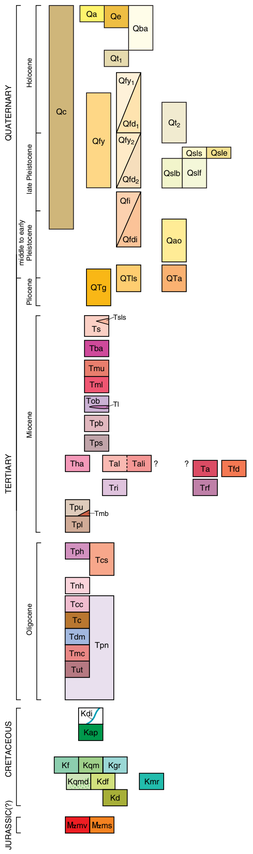
Qsls Alluvium covering lacustrine deposits
Qsle Eolian deposits covering lacustrine deposits
Qslf Lacustrine deposits
Qslb Nearshore lacustrine deposits with strandlines
Qfi Qfdi Middle to late Pleistocene alluvium
Qao Older Quaternary alluvium
QTls Landslide, debris flow, and fanglomerate deposits
QTa Quaternary-Tertiary alluvium
QTg Gravel
Ts Tsls Sedimentary rocks, including landslide deposits (Tsls)

PYRAMID SEQUENCE

Tba Basaltic andesite
Tmu1 Tuff of Mullen Pass, upper unit
Tml Tuff of Mullen Pass, lower unit
Tob Tl Olivine basalt (Tob) and interbedded lahars (Tl)
Tpb Volcanic breccia
Tps Basal sedimentary rocks of the Pyramid sequence
Tal Tali Andesite lahars (Tal) and intrusive rocks (Tali)
Ta Andesitic intrusive rock
Tfd Fine-grained diorite
Tha Hornblende andesite intrusive rocks
Trf Rhyolite and dacite flow rock
Tri Intrusive rhyolite of Mullen Pass

TUFF OF PERRY CANYON

Tpu Tuff of Perry Canyon, upper part
Tmb Megabreccia
Tpl Tuff of Perry Canyon, lower part
Tph Tuff of Painted Hills
Tcs Tuff of Chimney Spring
Tnh Nine Hill Tuff
Tcc Tuff of Campbell Creek
Tc Unnamed conglomerate
Tdm Tuff of Dogskin Mountain
Tmc Tuff of "Mine Canyon"
Tut Unnamed reworked lithic tuff
Tpn Pre-Nine Hill tuffs, undivided
Kdi Mafic dikes
Kap Aplite-pegmatite dikes
Kgr Granite of "Moon Rocks"
Kf Felsite
Kqm Quartz monzonite
Kqmd Quartz monzodiorite and granodiorite, foliated phase stippled
Kdf Fine-grained monzodiorite, quartz monzodiorite, and monzonite
Kmr Monzodiorite and diorite of Rocky Ridge (cross section only)
Kd Diorite
Mzmv Metavolcanic rocks
Mzms Metasedimentary rocks



Contact Dashed where approximately located, queried where uncertain, short dashes for contacts within map units.

Fault Dashed where approximately located, dotted where concealed, queried where uncertain; ball on downthrown side. Arrows show relative direction of movement.

Anticline axial trace Showing plunge, dashed where approximately located.

Syncline axial trace Showing plunge, dashed where approximately located, queried where uncertain.

Lineament Determined from aerial photography.

Quartz vein or silicified ledge Showing dip.

Fluvial gravels or sands at contact

Strike and dip of beds
Inclined

Approximate strike and dip of beds or flows
Inclined Horizontal

Strike and dip of compaction foliation in ash-flow tuff
Inclined Horizontal

Approximate strike and dip of compaction foliation in ash-flow tuff
Inclined

Strike and dip of foliation in igneous rocks
Inclined Vertical

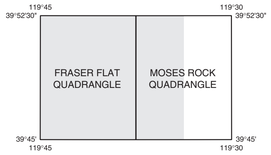
Strike and dip of metamorphic foliation
Inclined

Strike and dip of joints
Inclined Vertical

Sample locations
FM136

Tephra site
F02-044

Area containing sericite, illite, quartz, kaolinite±pyrophyllite± diaspore alteration



Scale 1:24,000

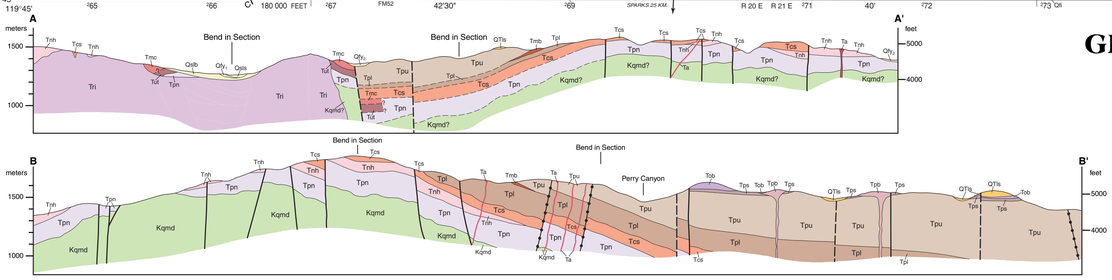
0 0.5 1 kilometer

0 0.5 1 mile

0 1000 2000 3000 4000 5000 feet

CONTOUR INTERVAL 10 METERS
WITH SUPPLEMENTARY CONTOURS AT 5 METERS

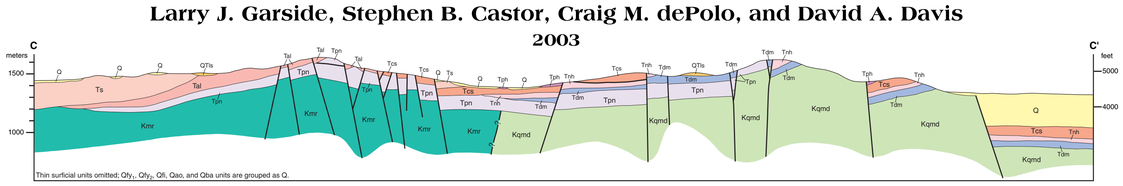
Base map: U.S. Geological Survey Fraser Flat 7.5' Quadrangle, 1980, and the Moses Rock 7.5' Quadrangle, 1980, Digital Raster Graphic (DRG)
Projection: Nevada coordinate system, west zone (transverse Mercator)



GEOLOGIC MAP OF THE FRASER FLAT QUADRANGLE AND THE WEST HALF OF THE MOSES ROCK QUADRANGLE, WASHOE COUNTY, NEVADA

Larry J. Garside, Stephen B. Castor, Craig M. dePolo, and David A. Davis

2003



Thin surficial units omitted; Qfy1, Qfy2, Qfi, Qao, and Qba units are grouped as Q.

Field work 1998–2003

Geologic mapping was supported by the U.S. Geological Survey STATEMAP Program (Agreement No. 98-HQ-AG-2036).

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First Edition, first printing, 2003
Printed by Nevada Bureau of Mines and Geology
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