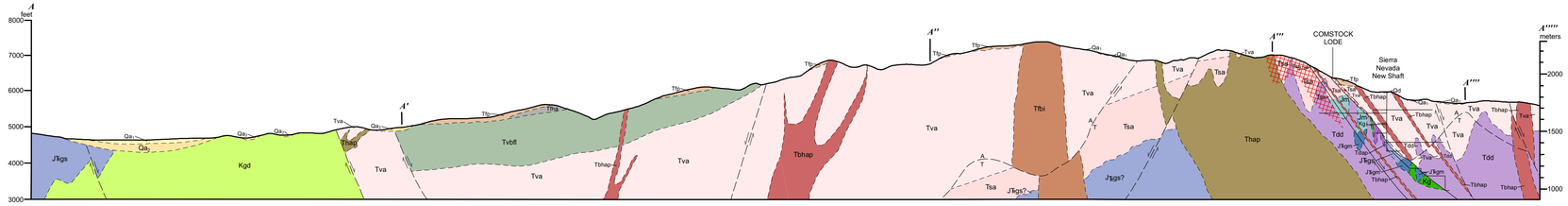
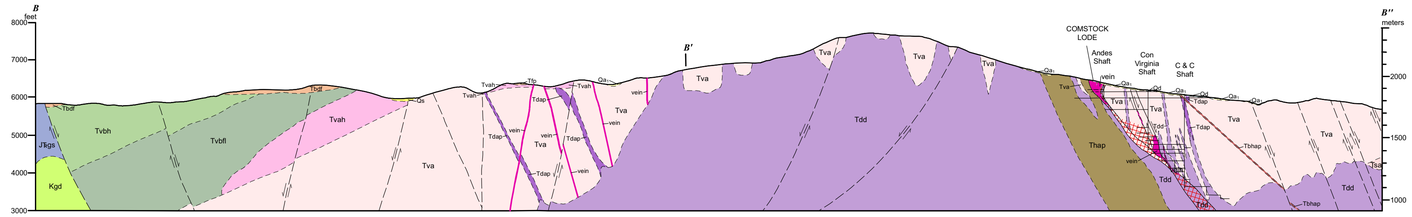
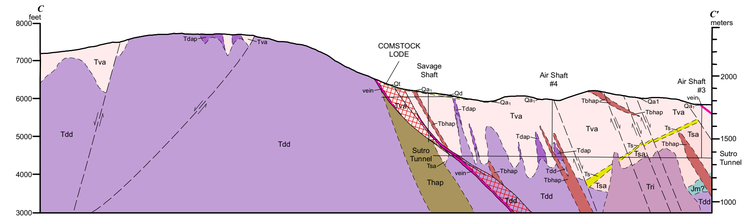
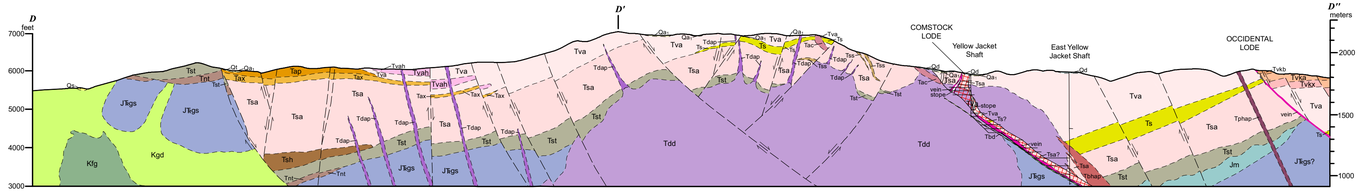
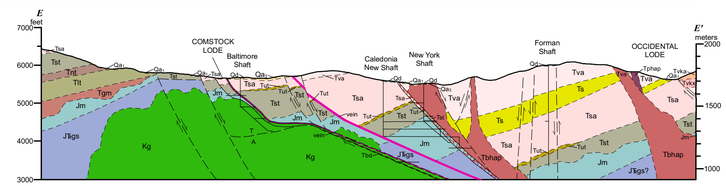
PREPARED AS PART OF THE STATEMAP COMPONENT OF THE NATIONAL COOPERATIVE GEOLOGIC MAPPING PROGRAM IN COOPERATION WITH THE U.S. GEOLOGICAL SURVEY

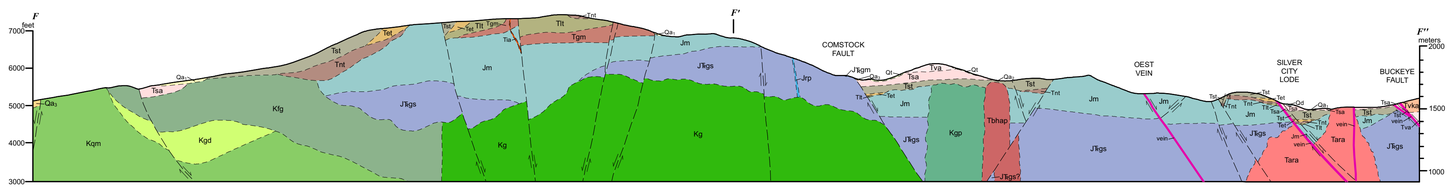


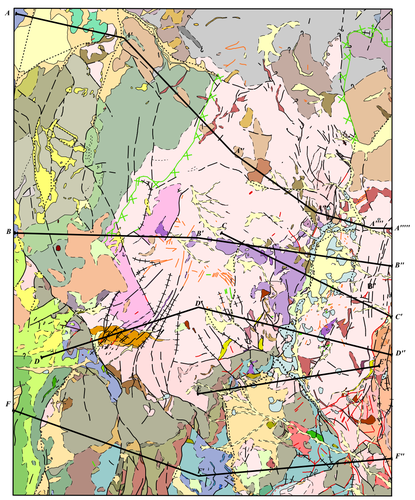












GEOLOGIC MAP (SIMPLIFIED FROM PLATE 1), SHOWING LOCATIONS OF CROSS SECTIONS

Map location

Adjoining 7.5' quadrangle names

1	2	3
4	5	6
7	8	9

1 Mount Rose NE
2 Steamboat
3 Chalk Hills
4 Washoe City
5 Virginia City
6 Flowery Peak
7 Carson City
8 New Empire
9 Dayton

QUATERNARY DEPOSITS

- Qd Mine waste
- Qs Sand
- Qt Talus
- Qa_1 Young alluvium
- Qa_2 Intermediate-age alluvium
- Qa_3 Old alluvium

LATE MIOCENE AND/OR PLIOCENE DEPOSITS

- Tbdf Big boulder debris flow
- Tbd Black dike

MIDDLE MIOCENE ANDESITIC TO RHYOLITIC ROCKS

- Tia Andesite porphyry dikes

FLOWERY PEAK MAGMATIC SUITE

- Tfha Hornblende andesite
- Tfbi Biotite hornblende andesite intrusion
- Tfp Andesite of Flowery Peak

INTRUSIONS OF THE FLOWERY PEAK OR VIRGINIA CITY MAGMATIC SUITE

- Tbhap Biotite hornblende andesite dikes and intrusions
- Thap Hornblende andesite porphyry intrusions
- Tri Rhyolite intrusions
- Tac Andesite of Crown Point Ravine

VIRGINIA CITY MAGMATIC SUITE

Virginia City intrusions and rhyolites

- Tdd Davidson Diorite
- Tdap Andesite porphyry phase of the Davidson Diorite
- Tphap Pyroxene hornblende andesite porphyry

Kate Peak Formation

- Tvka Hornblende and pyroxene andesite flows
- Tvkb Biotite-hornblende andesite flows
- Tvkx Autobreccia

Bailey Canyon sequence

- Tvbh Hornblende andesite flows
- Tvbfl Andesite flows and lahars

Alta Formation

- Tva Alta Formation undivided
- Tvah Hornblende andesite porphyry flow rock

VIRGINIA CITY OR SILVER CITY SUITES

- Ts Sutro Tuff
- Tap Phenocryst-poor andesite
- Tax Lahar unit

INTRUSIVE ROCK IN THE VIRGINIA CITY OR SILVER CITY MAGMATIC SUITES

- Tara American Ravine Andesite

SILVER CITY MAGMATIC SUITE

- Tsa Silver City andesites
- Tss Sedimentary rocks
- Tsh Hornblende andesite

MIOCENE-OLIGOCENE TUFFS AND SEDIMENTS

- Tut Unnamed lithic tuff
- Tst Santiago Canyon Tuff
- Tet Eureka Canyon Tuff
- Tnt Nine Hill Tuff
- Tlt Lenihan Canyon Tuff
- Tgm Guild Mine Member, Mickey Pass Tuff

MESOZOIC ROCKS

CRETACEOUS PLUTONIC ROCKS

- Kgd Granodiorite
- Kqm Leuco quartz monzonite
- Kfg Foliated granite
- Kgp Granodiorite porphyry
- Kg Undivided granitic rocks

METAIGNEOUS AND METASEDIMENTARY ROCKS

- Jm Mafic metaigneous rock
- Jrp Foliated lithic rhyolite porphyry
- J'Jgs Gardnerville Formation siltstone and sandstone
- J'Jgm Gardnerville Formation marble

Contact

Fault Solid where certain and location accurate; long-dashed where location uncertain. Double arrows indicate offset; A indicates movement away from profile, T indicates movement toward profile.

Massive quartz

Stockwork veining

Underground workings

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

Field work done in 1999-2008
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PEER-REVIEWED MAP
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Field review by David Boden, David John, John Munteanu, and Daphne LaPointe

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1998

Scale 1:24,000

0 0.5 1 kilometer

0 0.5 1 mile

0 1000 2000 3000 4000 5000 feet

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

GEOLOGIC CROSS SECTIONS, VIRGINIA CITY QUADRANGLE, NEVADA

Donald M. Hudson, Stephen B. Castor, Larry J. Garside, and Christopher D. Henry

2009