

- Mine and tailings
 - Lake deposits
 - Sand
 - Talus
 - Young alluvium
 - Intermediate-age alluvium
 - Landslide deposits
 - Ferricrete
 - Basalt of American Flat
 - Old alluvium
 - Volcaniclastic sedimentary rocks of Steamboat Valley
 - Andesitic flows and flow breccias of Steamboat Valley
 - Highly vesicular andesite
 - Big boulder lahar
 - Biotite Hornblende dacite
 - Hornblende andesite lahars
 - Undivided lahars and flows
 - Hornblende andesite flow rock
 - Andesite dike rock
 - Andesite of Basalt Hill
 - Knickerbocker Andesite
 - Knickerbocker Andesite intrusion
 - Andesite flows and lahars
 - Biotite hornblende andesite
 - Hornblende andesite
 - Bedded pyroclastic(?) rocks
 - Locally distinguished breccia
 - Andesite porphyry dikes
- Kate Peak Formation**
- Upper member flows and lahars
 - Flow breccia mapped separately
 - Lahars mapped separately
 - Upper member intrusion or dome
 - Lower member flows
 - Lower member intrusion
 - Hornblende biotite andesite porphyry
 - Rhyolite intrusions
 - Hornblende andesite porphyry dikes
- Davidson Diorite**
- Davidson Diorite
 - Andesite porphyry intrusion
 - Pyroxene hornblende andesite porphyry intrusion
 - Hornblende andesite porphyry intrusions
 - Hollow hornblende pyroxene andesite porphyry
 - American Ravine Andesite (intrusion)
- Alta Formation**
- Upper member flows
 - Upper member sandstone and conglomerate
 - Upper member autobreccia
 - Suro Member
 - Lower member flows and breccias
 - Lower member sandstone and conglomerate
 - Lower member lahars
 - Plagioclase-hornblende andesite flow rock
 - Hornblende andesite
 - Hornblende andesite flows and lahars
 - Basaltic and andesitic basalt lahars
 - Phenocryst-poor andesite
 - Plagioclase-hornblende-pyroxene-biotite flow
 - Biotite rhyolite
 - Unnamed lithic ash-flow tuff
 - Santiago Canyon Tuff
 - Santiago Canyon Tuff basal gravel
 - Eureka Canyon Tuff
 - Nine Hill Tuff
 - Nine Hill Tuff basal gravel
 - Lenihan Canyon Tuff
 - Lenihan Canyon Tuff basal gravel
 - Guild Mine Member, Mickey Pass Tuff
 - Gravels
 - Hornblende diorite porphyry
 - Granite aplite
 - Undivided granitic rocks
 - Biotite hornblende granodiorite of Steamboat Valley
 - Granodiorite
 - Leuco monzoniorite
 - Foliated granite
 - Granodiorite porphyry
 - Mafic metaigneous rock
 - Foliated lithic rhyolite porphyry
 - Preachers Formation
 - Gardnerville Formation siltstone and sandstone
 - Gardnerville Formation marble and limestone

See accompanying text for unit descriptions.

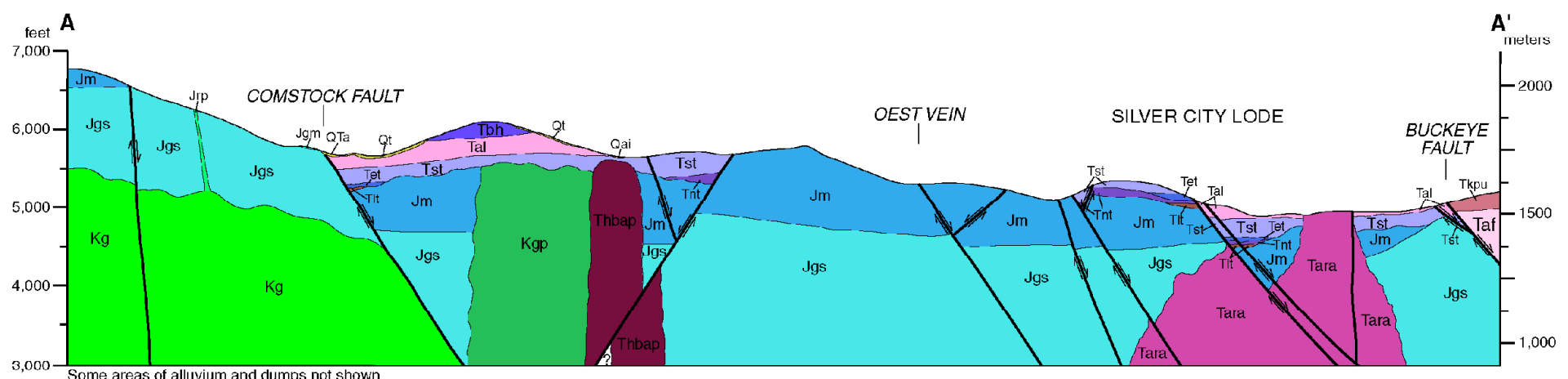
PRELIMINARY GEOLOGIC MAP OF THE VIRGINIA CITY QUADRANGLE, NEVADA

Donald M. Hudson, Stephen B. Castor, and Larry J. Garside
2002

- Contact** Dashed where approximately located, short dashes indicate internal contact, queried where uncertain.
- Gravel contact** Dashed where approximately located.
- Fault** Showing dip, dashed where approximately located, dotted where concealed, queried where uncertain, ball on downthrown side.
- Clay alteration along fault** Showing dip, dashed where approximately located, ball on downthrown side.
- Vein coincident with normal fault** Showing dip, dashed where approximately located, ball on downthrown side.
- Vein**
- Lineament**
- Alunite alteration along a structure too narrow to outline** Showing dip, ball on downthrown side.
- Silicification along a structure too narrow to outline.**
- Tourmaline - quartz vein**

- Strike and dip of bedding**
- Strike and dip of foliation in metamorphic rocks**
- Strike and dip of compaction foliation**
- Strike and dip of foliation in igneous rocks**
- Strike and dip of joints**
- Strike and dip of platy jointing in lavas and hypabyssal intrusive rocks**
- Columnar joints**

Scale 1:24,000
0 0.5 1 kilometer
0 0.5 1 mile
0 1000 2000 3000 4000 5000 feet
CONTOUR INTERVAL 40 FEET
Base map: U.S. Geological Survey Virginia City 7.5' Quadrangle, Digital Raster Graphic, 1983



Field work done in 2000-2001.
DRAFT
Preliminary geologic map. Has not undergone office or field review. May be revised before publication.
Cartography by Robert Chaney (1/15/02) (rchaney@bmi.gov)
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