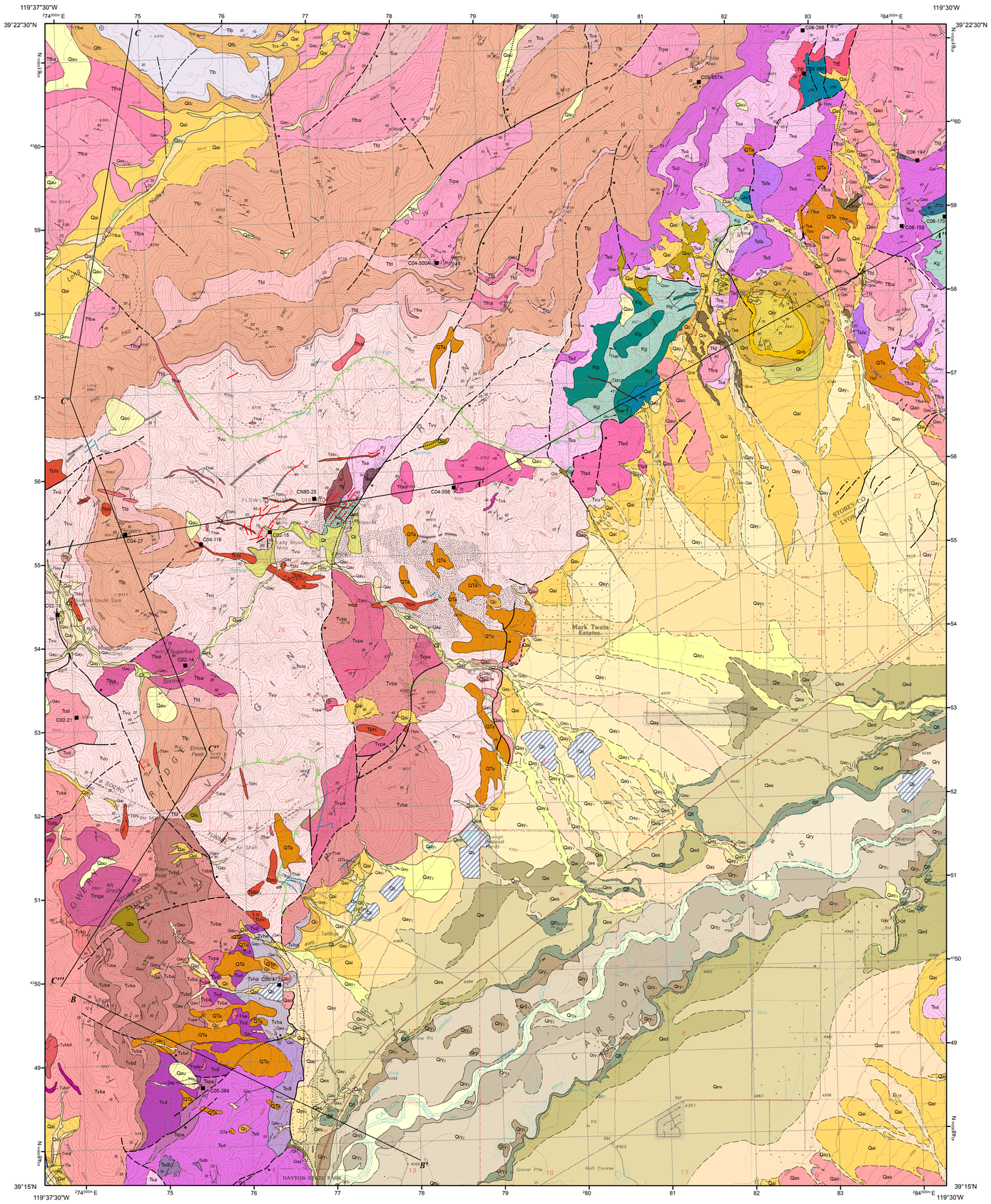
Prepared as part of the STATEMAP component of the National Cooperative Geologic Mapping Program in cooperation with the U.S. Geological Survey and with support from the Geological Society of Nevada



GEOLOGIC MAP OF THE FLOWERY PEAK QUADRANGLE, STOREY AND LYON COUNTIES, NEVADA

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2013

QUATERNARY DEPOSITS

Anthropogenic Deposits

- Qt — Mine waste and mill tailings
- Qxt — Extensively disturbed areas

Eolian Deposits

- Qed — Eolian dunes
- Qes — Eolian sand sheet
- Qsp — Spring deposits

Piedmont Alluvial Deposits

- Qau — Undivided piedmont alluvium
- Qay — Undivided young piedmont alluvium
  - Qay_3 — Youngest active alluvium
  - Qay_2 — Young active alluvium
  - Qay_1 — Young inactive alluvium
- Qw — Alluvial and eolian deposits of the Wyemaha(?) Alloformation (Morrison, 1964, 1991)
- Qai — Intermediate-age alluvium
- Qao — Old alluvium

Carson River Alluvial Deposits

- Qry — Carson River alluvial deposits, undivided
  - Qry_4 — Active channel and bars of the Carson River
  - Qry_3 — Young mud, sand, and gravel deposits of the Carson River
  - Qry_2 — Intermediate-age mud, sand, and gravel deposits of the Carson River
  - Qry_1 — Older Carson River alluvial deposits

Hillslope and Mass-Wasting Deposits

- Qc — Holocene and Pleistocene colluvium
- Qls — Landslide deposits
- Qtb — Basalt talus

Fluvial and Lacustrine Deposits of Lake Lahontan

- Ql — Undivided lacustrine deposits
- Qfl — Fluvio-lacustrine deposits

Deposits of the Naturalite Dome Area

- Qns — Sedimentary deposits
- Qnw — Welded rhyolite airfall
- Qnr — Glassy rhyolite
- Qnb — Rhyolite breccia
- Qnt — Tuff ring deposits

QUATERNARY AND TERTIARY DEPOSITS

- QTa — Pleistocene to Pliocene alluvium
- QTs — Spring deposits

MIOCENE ROCKS

- Tlb — Lousetown basalt
- Tcs — Sedimentary rocks of the Chalk Hills
- Tod — Dacite of Occidental Quarry
- Trpa — Biotite-hornblende-pyroxene andesite of Rocky Peak
- Tmga — Biotite-hornblende-pyroxene andesite of Mount Grosch

Intrusive rocks

- Tfsa — Biotite-hornblende andesite of Sugarloaf
- Tbhi — Biotite-hornblende intrusive rocks
- Thai — Hornblende andesite intrusive rocks

Rocks of the Flowery Peak magmatic suite

- Tfp — Andesites of Flowery Peak, undivided
- Tfad — Biotite-hornblende-pyroxene andesite domes
- Tfba — Biotite-hornblende andesite
- Tfha — Hornblende andesite
- Tfd — Debris flows
- Tfs — Sedimentary rocks

Rocks of the Virginia City magmatic suite

- Tvu — Virginia City andesites, undivided
- Tvka — Andesites of the Kate Peak Formation
  - Tvkp — Olivine-pyroxene andesite
  - Tvkbd — Biotite-bearing debris flows
  - Tvkb — Biotite-hornblende andesite flows
  - Tvkd — Andesite debris flows
- Tvba — Biotite-hornblende andesite flows
- Tvbd — Biotite-hornblende andesite debris flows
- Tvpa — Pyroxene andesite flows
- Tvd — Debris flows
- Tvha — Hornblende andesite flow rock
- Ts — Sedimentary rocks and tuff

Rocks of the Silver City magmatic suite

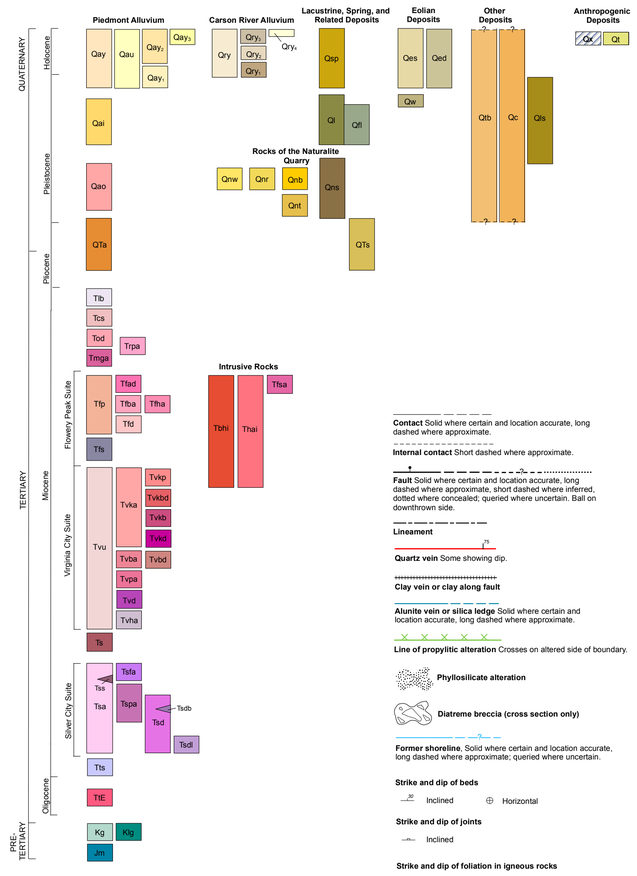
- Tsfa — Fine-grained andesite
- Tspa — Pyroxene andesite flows
- Tsa — Silver City andesite flows, undivided
- Tss — Andesitic sandstone
- Tsd — Debris flows
  - Tsdb — Biotite-bearing debris flows
  - Tsdl — Lower debris flows

MIOCENE AND OLIGOCENE ASH-FLOW TUFFS

- Tts — Santiago Canyon Tuff
- TtE — Tuff E

PRE-TERTIARY ROCKS

- Klg — Leucogranitic rock
- Kg — Quartz diorite to granodiorite
- Jm — Metamorphic rocks



Contact Solid where certain and location accurate, long dashed where approximate.

Internal contact Short dashed where approximate.

Fault Solid where certain and location accurate, long dashed where approximate, short dashed where inferred, dotted where concealed; queried where uncertain. Ball on downthrown side.

Lineament

Quartz vein Some showing dip.

Clay vein or clay along fault

Alunite vein or silica ledge Solid where certain and location accurate, long dashed where approximate.

Line of propylitic alteration Crosses on altered side of boundary.

Phyllosilicate alteration

Diatreme breccia (cross section only)

Former shoreline, Solid where certain and location accurate, long dashed where approximate; queried where uncertain.

Strike and dip of beds

Inclined — Horizontal

Strike and dip of joints

Inclined

Strike and dip of foliation in igneous rocks

Inclined — Vertical

Trend and plunge of columnar joints

A — A′ Line of cross

C05-477 **Location of sample for $^{39}Ar/^{40}Ar$ age (table 3)**

See accompanying text for full unit descriptions and references for this map.

Suggested citation:
Castor, S.B., House, P.K., Hudson, D.M., and Henry, C.D., 2013, Geologic map of the Flowery Peak quadrangle, Storey and Lyon counties, Nevada: Nevada Bureau of Mines and Geology Map 180, 24 p., scale 1:24,000.

Scale 1:24,000

0 — 0.5 — 1 kilometer

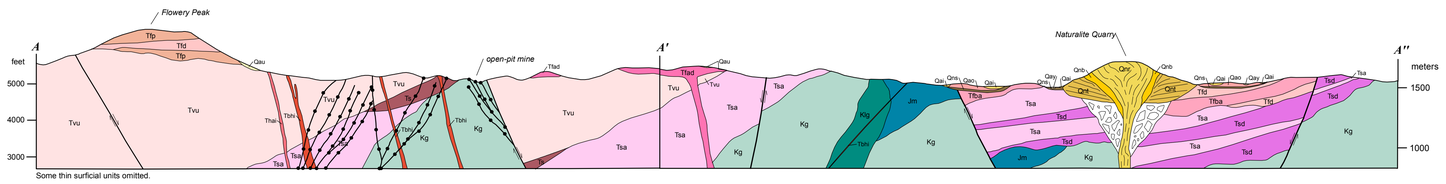
0 — 0.5 — 1 mile

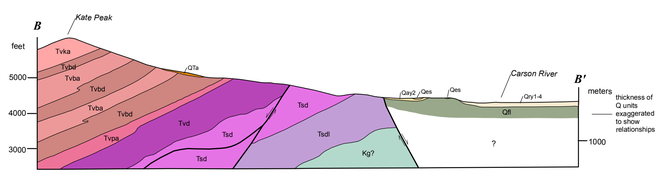
0 — 1000 — 2000 — 3000 — 4000 — 5000 feet

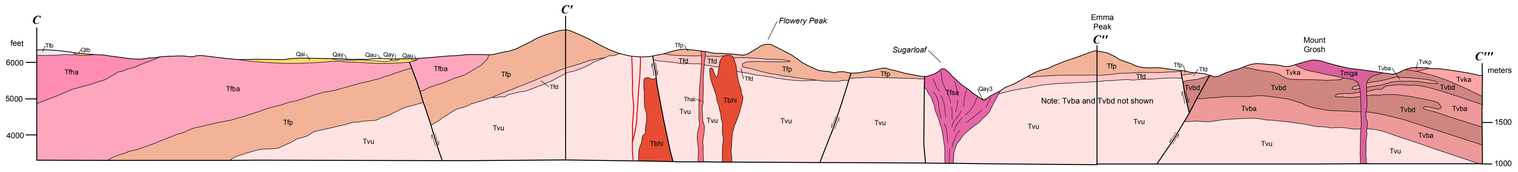
CONTOUR INTERVAL 40 FEET

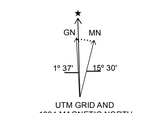
Projection: Universal Transverse Mercator, Zone 11, North American Datum 1927 (m)

Base map: U.S. Geological Survey Flowery Peak 7.5' quadrangle (1994)









UTM GRID AND 1994 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Adjoining 7.5' quadrangle names

1	2	3
4	5	6
7	8	9

1 Steamboat
2 Chalk Hills
3 Martin Canyon
4 Virginia City
5 Flowery Peak
6 Misfits Flat
7 New Empire
8 Dayton
9 Como

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 2002–2005
Supported by the U.S. Geological Survey STATEMAP Program (Agreement No. 04-HQ-AG-0032 and 05-HQ-AG-0014) and the Geological Society of Nevada

PEER-REVIEWED MAP

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