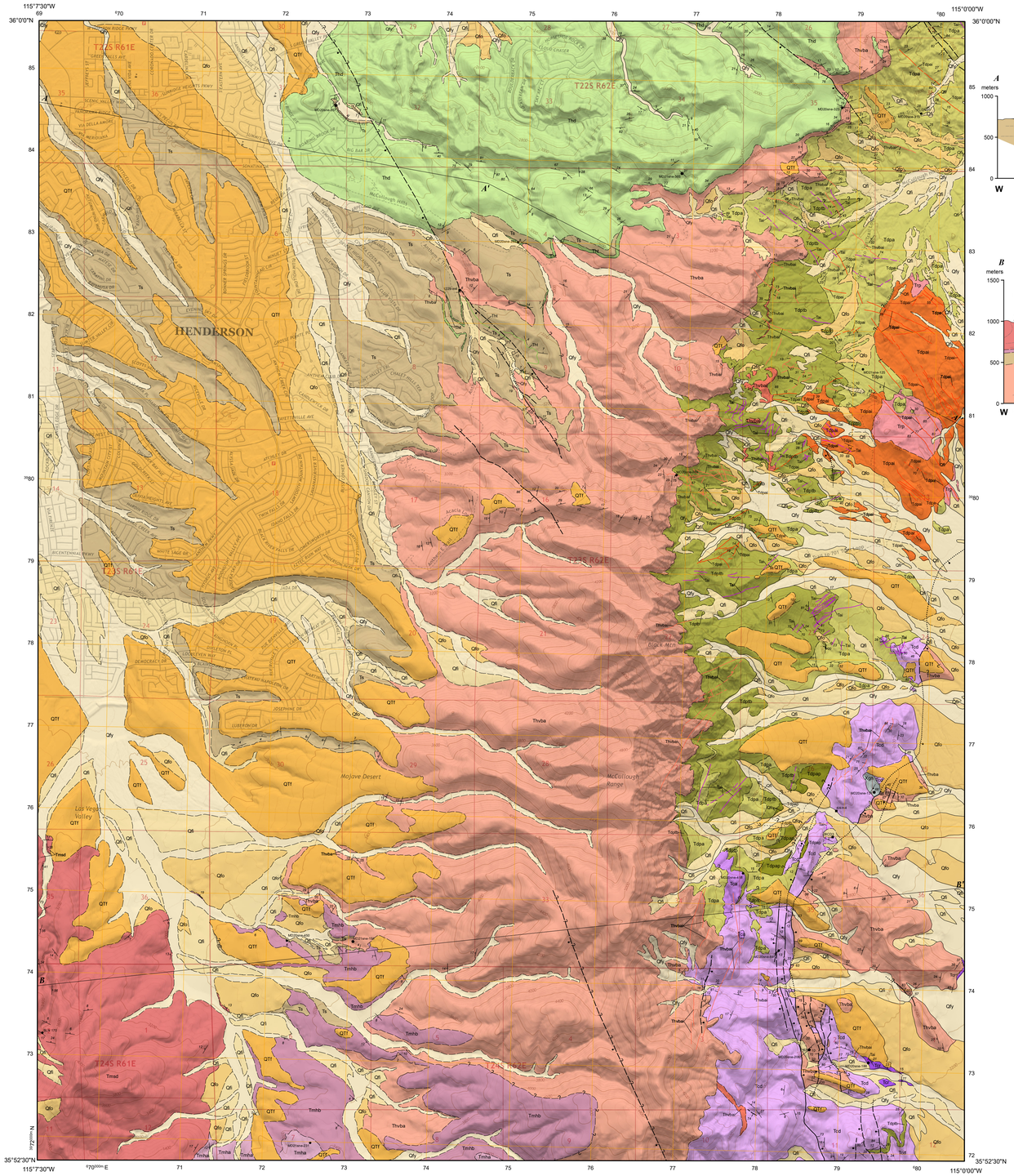
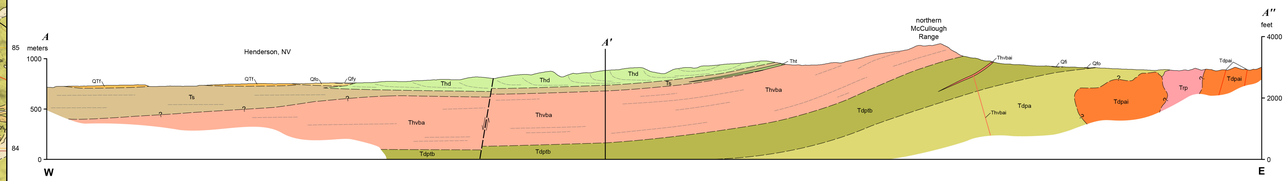
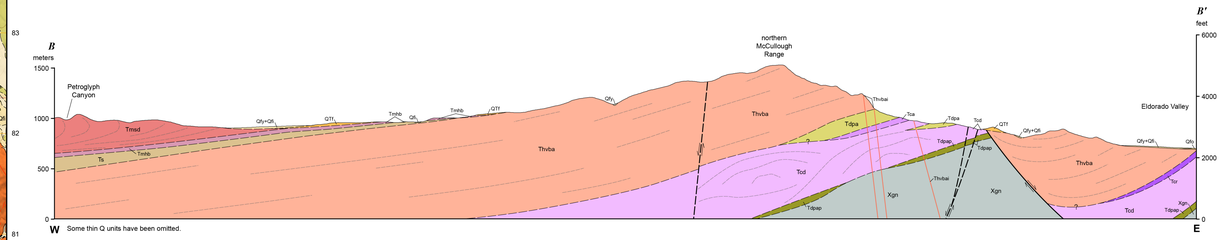
This geologic map was funded in part by the USGS National Cooperative Geologic Mapping Program under STATEMAP award number G19AC00383.







Some thin Q units have been omitted.

QUATERNARY ALLUVIAL-FAN DEPOSITS

- Qfy — Young alluvial-fan deposits, undivided (Holocene)
- Qfi — Intermediate-aged alluvial-fan deposits (early Holocene to late Pleistocene)
- Qfo — Older alluvial-fan deposits (middle to early Pleistocene)
- QTf — Oldest alluvial-fan deposits (early Pleistocene to Pliocene)

MIOCENE VOLCANIC AND SEDIMENTARY ROCKS

- Ts — Tertiary sedimentary rocks, undivided (Pliocene? to middle Miocene)
- Thd — Henderson dacite (late to middle Miocene)
- Thf — Tuff of Henderson (middle Miocene)

Sloan volcanic units (middle Miocene)

- Tmsd — Mount Sutor dacite (middle Miocene)
- Tmha — Mount Hanna andesite (middle Miocene)
- Tmhb — Mount Hanna basalt (middle Miocene)

Hidden Valley volcanic unit (middle Miocene)

- Thvba — Hidden Valley basaltic andesite (middle Miocene)

Colony volcanic units (middle Miocene)

- Tcr — Colony porphyritic rhyodacite (middle Miocene)
- Tca — Colony aphanitic andesite (middle Miocene)
- Tcd — Colony porphyritic dacite (middle Miocene)

Dutchman Pass volcanic units (middle Miocene)

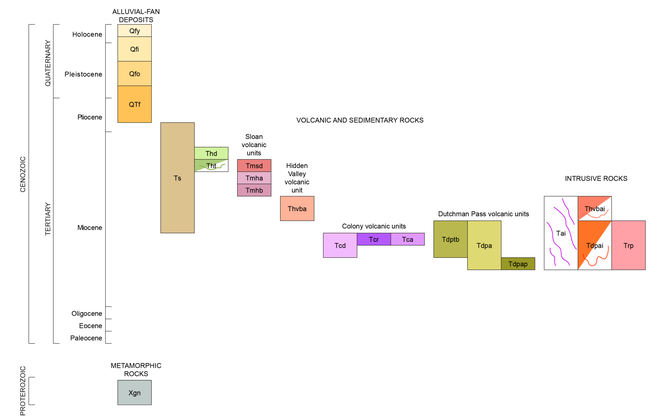
- Tdptb — Dutchman Pass andesite-dacite tuff breccia (middle Miocene)
- Tdpa — Dutchman Pass andesite (middle Miocene)
- Tdpap — Dutchman Pass porphyritic plagioclase andesite (middle Miocene)

MIOCENE INTRUSIVE ROCKS

- Thvbai — Hidden Valley basaltic andesite sills, dikes, and intrusions (middle Miocene)
- Tdpai — Dutchman Pass andesite dikes and intrusions (middle Miocene)
- Tai — Undivided andesitic dikes and intrusions (middle Miocene)
- Trp — Railroad Pass pluton (middle Miocene)

PROTEROZOIC METAMORPHIC ROCKS

- Xgn — Gneiss (Proterozoic)



Contact Solid where certain, dashed where approximately located, dotted where concealed; queried if identity or existance uncertain.

Fault Solid where certain, dashed where approximately located, dotted where concealed; queried if identity or existence uncertain.

Normal fault Solid where certain, dashed where approximately located, dotted where concealed; queried if identity or existence uncertain. Showing dip; ball on downthrown side. *In cross section, arrows show relative motion.*

Left-lateral oblique-slip fault Solid where certain, dashed where approximately located, dotted where concealed; queried if identity or existence uncertain.

Key bed Solid where certain.

Dike Solid where certain, dashed where approximately located. Locally showing dip.

Strike and dip of bedding
Inclined

Strike and dip of igneous foliation
Inclined

Strike and dip of metamorphic foliation
Inclined

Samples Showing sample number.
Geochemistry
Geochemistry and Geochronology
Geochronology

Line of cross section

GEOLOGIC MAP OF THE SLOAN NE QUADRANGLE, CLARK COUNTY, NEVADA

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2021

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UTM GRID AND
2017 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

Adjoining 7.5' quadrangle names

1	2	3
4	5	6
7	8	9

1 Las Vegas SW
2 Las Vegas SE
3 Henderson
4 Sloan
5 Sloan NE
6 Boulder City NW
7 Hidden Valley
8 Sloan SE
9 Boulder City SW

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

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 1983 (m)

Base map: U.S. Geological Survey Sloan NE 7.5' quadrangle (2018)

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

Field work done in 2020–2021.
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OPEN-FILE REPORT
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