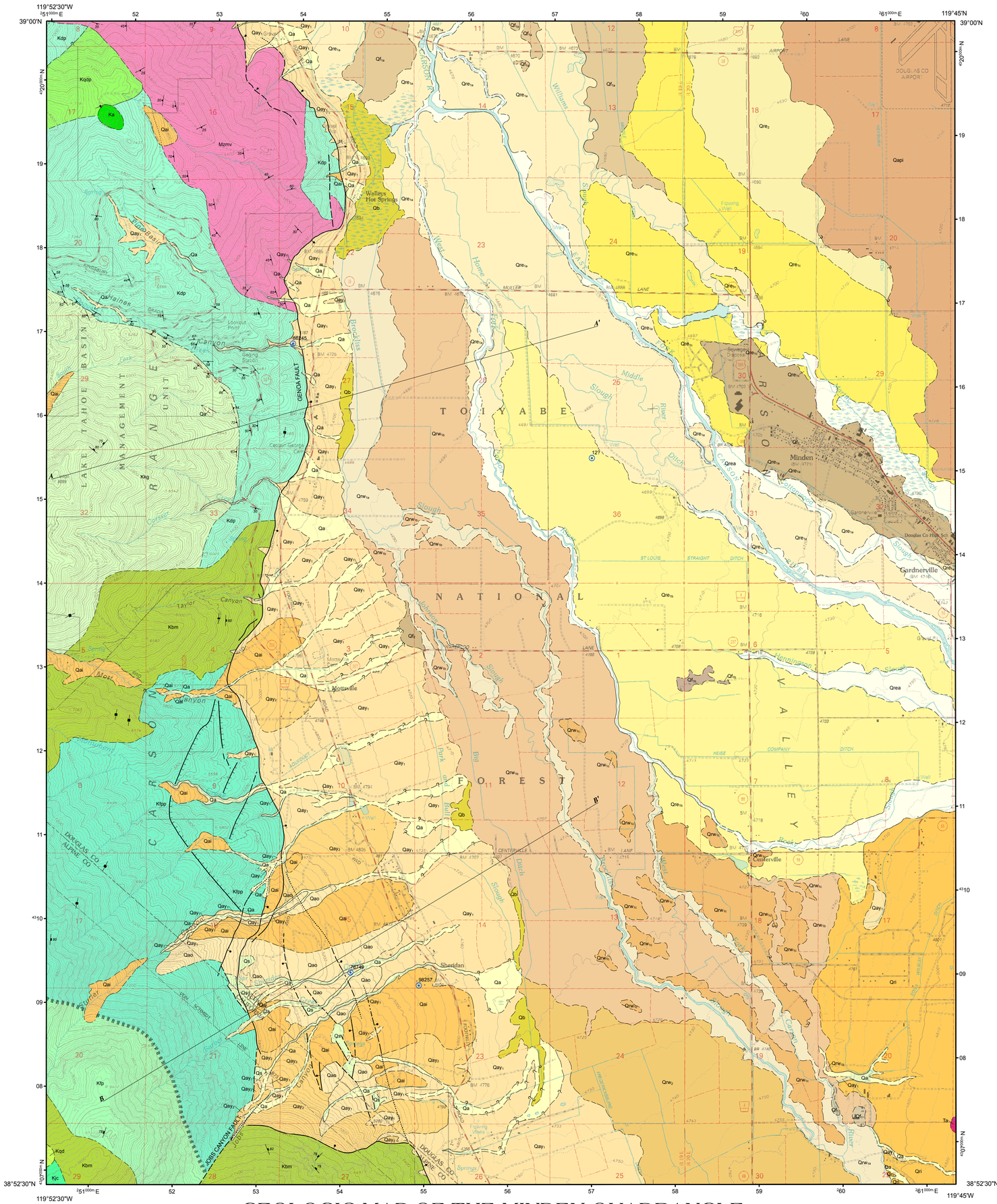
NEVADA BUREAU OF MINES AND GEOLOGY

Prepared as part of the COGEOMAP and STATEMAP components of the National Cooperative Geologic Mapping Program in cooperation with the U.S. Geological Survey

MAP 182

GEOLOGIC MAP OF THE MINDEN QUADRANGLE, DOUGLAS COUNTY, NEVADA AND ALPINE COUNTY, CALIFORNIA

Text accompanies map



GEOLOGIC MAP OF THE MINDEN QUADRANGLE, DOUGLAS COUNTY, NEVADA AND ALPINE COUNTY, CALIFORNIA

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2014

ALLUVIAL DEPOSITS OF CARSON RIVER

Deposits of the East Fork of the Carson River

- Qrea — Deposits of recently active meander-belts (modern to late Holocene)
- Qre_1 Young East Fork meander-belt deposits
  - Qre_{1a} (late Holocene)
  - Qre_{1b} (late Holocene)
  - Qre_{1c} (late to middle Holocene)
- Qre_2 Intermediate age East Fork meander-belt deposits (early Holocene to latest Pleistocene)
- Qreo — Older East Fork Carson River deposits (Pleistocene to Pliocene) (in cross sections only)

Deposits of the West Fork of the Carson River

- Qrw_1 Young West Fork meander-belt deposits
  - Qrw_{1a} (late Holocene)
  - Qrw_{1b} (late Holocene)
  - Qrw_{1c} (late to middle Holocene)
- Qrw_2 Intermediate age West Fork meander-belt deposits (early Holocene to latest Pleistocene)
- Qrwo — Older West Fork Carson River deposits (Pleistocene to Pliocene) (in cross sections only)

Undivided deposits of the Carson River

- Qri — Intermediate age deposits of the Carson River (late to middle Pleistocene)

Floodplain deposits of the Carson River

- Qf_1 Young floodplain deposits
  - Qf_{1a} (late Holocene)
  - Qf_{1b} (late Holocene)
- Qf_2 Intermediate age floodplain deposits (late Pleistocene)

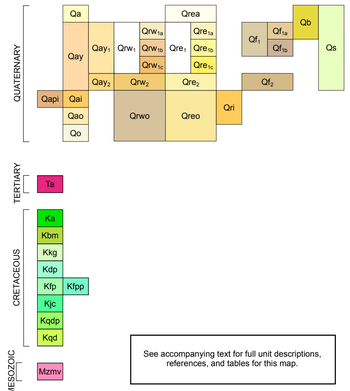
ALLUVIAL FAN DEPOSITS

- Qa — Deposits of recently active washes (modern to late Holocene)
- Qay — Young alluvial fan deposits (Holocene to latest Pleistocene)
  - Qay_1 (late to middle Holocene)
  - Qay_2 (early Holocene to late Pleistocene)
- Qai — Intermediate age alluvial fan deposits (late Pleistocene)
- Qapi — Intermediate age distal fan deposits of the Pine Nut Mountains (late Pleistocene)
- Qao — Older alluvial fan deposits (late to middle Pleistocene)
- Qo — Older fan deposits (Pleistocene to Pliocene) (in cross sections only)

Other Alluvial deposits

- Qb — Basin fill (Holocene)
- Qs — Spring deposits (Holocene to late Pleistocene)

- Ta — Hornblende andesite flows (Tertiary)
- Ka — Aplite (Upper Cretaceous)
- Kbm — Bryan Meadow Granodiorite (Upper Cretaceous)
- Kkg — Granodiorite of Kingsbury Grade (Upper Cretaceous)
- Kdp — Granodiorite of Daggett Pass (Cretaceous)
- Kfp / Kfpp — Freel Peak Granodiorite (Upper Cretaceous); Kfpp, porphyritic variant
- Kjc — Quartz diorite of Jobs Canyon (Cretaceous)
- Kqdp — Quartz monzodiorite north of Daggett Pass (Cretaceous?)
- Kqd — Quartz diorite and diorite (Cretaceous?)
- Mzmv — Metavolcanic rocks (Mesozoic)



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

Contact Solid where certain and location accurate, long-dashed where approximate, dotted where concealed; queried if identity or existence uncertain.

Gradational contact Long-interval hachures where approximate.

Fault Solid where certain and location accurate, long-dashed where approximate, dotted where concealed. Bar and ball on downthrown side, locally showing dip and bearing of slickenlines. *On cross sections, arrows show relative motion.*

Landslide scarp Hachures point down scarp.

Strike and dip metamorphic foliation

60 Inclined — Vertical

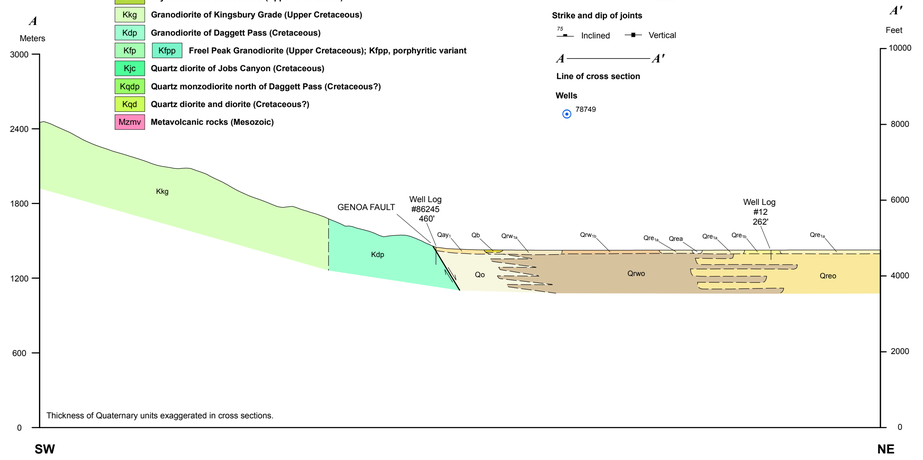
Strike and dip of joints

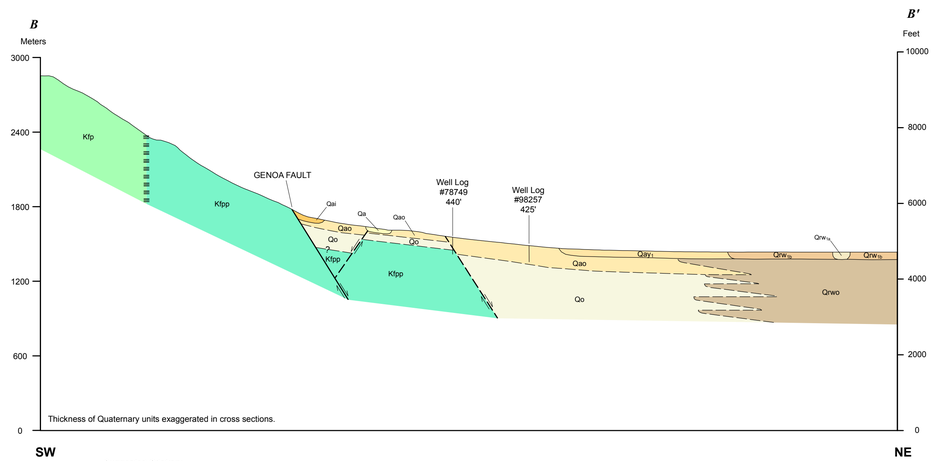
73 Inclined — Vertical

A — A' **Line of cross section**

Wells

78749





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Adjoining 7.5' quadrangle names

1	2	3
4	5	6
7	8	9

1 Glenbrook
2 Genoa
3 McTarnahan Hill
4 South Lake Tahoe
5 Minden
6 Gardnerville
7 Freel Peak
8 Woodfords
9 Carters Station

Map location

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
DOTTED CONTOUR INTERVAL 10 FEET

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

Base map: U.S. Geological Survey Minden 7.5' quadrangle (1968, photorevised 1982)

GN MN
1° 46' 16° 30'
UTM GRID AND 1982 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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

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PEER-REVIEWED MAP
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