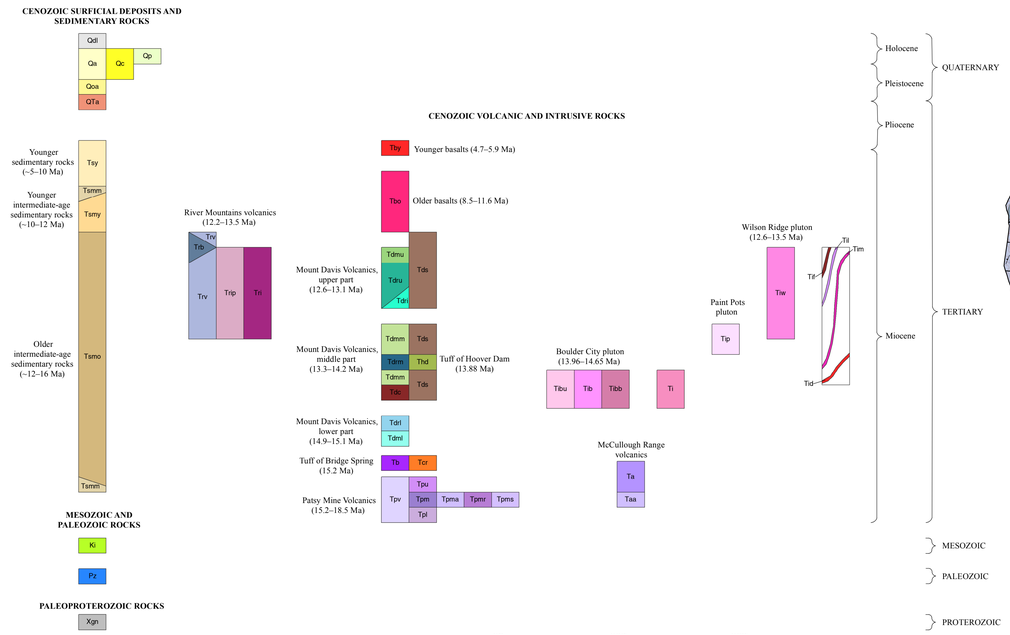
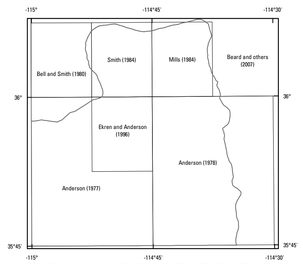
USGS
science for a changing world
U.S. Department of the Interior
U.S. Geological Survey

Open-File Report 2013–1267–A
Pamphlet accompanies map

CORRELATION OF MAP UNITS





INDEX MAP SHOWING SUPPLEMENTAL SOURCES OF GEOLOGIC MAPPING

LIST OF MAP UNITS

[See Description of Map Units (in pamphlet) for complete unit descriptions]

CENOZOIC SURFICIAL DEPOSITS AND SEDIMENTARY ROCKS

- Qdl — **Disturbed land (latest Holocene)**
- Qa — **Younger alluvial deposits (Holocene and Pleistocene?)**
- Qc — **Colluvium (Holocene and Pleistocene?)**
- Qp — **Playa deposits (Holocene)**
- Qoa — **Older alluvial deposits (Pleistocene)**
- QTa — **Oldest alluvial deposits (Pleistocene to upper Pliocene)**
- Tsy — **Younger sedimentary rocks (Pliocene and upper Miocene)**
- Tsmy — **Younger intermediate-age sedimentary rocks (upper and middle Miocene)**
- Tsmo — **Older intermediate-age sedimentary rocks (middle Miocene)**
- Tsmm — **Intermediate-age megabreccia deposits (Miocene)**

CENOZOIC VOLCANIC AND INTRUSIVE ROCKS

- Tby — **Younger basalts (Pliocene and upper Miocene)**
- Tbo — **Older basalts (upper to middle Miocene)**

Volcanic Rocks of the River Mountains (middle Miocene)

- Trb — **Basalt flows**
- Trv — **Volcanic flows, domes, breccia, and volcanogenic sedimentary rocks**
- Trip — **Composite plutons**
- Tri — **Intrusive stock**

Mount Davis Volcanics (middle Miocene)

- Tds — **Sedimentary rocks**

Upper part

- Tdmu — **Mafic lavas**
- Tdru — **Rhyolite and dacite**
- Tdri — **Dacite intrusions**

Middle part

- Tdmm — **Mafic lavas**
- Tdrm — **Rhyolite and dacite**
- Thd — **Tuff of Hoover Dam**
- Tdc — **Dam conglomerate**

Lower part

- Tdrl — **Rhyolite and dacite**
- Tdml — **Mafic lavas**

- Tiw — **Wilson Ridge pluton (middle Miocene)**
- Tip — **Paint Pots pluton of Mills, 1994 (middle Miocene)**
- Tibu — **Boulder City pluton, undifferentiated (middle Miocene)**
- Tib — **Unaltered quartz monzonite**
- Tibb — **Border facies**
- Ti — **Intrusive rocks, undifferentiated (middle Miocene)**
- Tid — **Dikes, undifferentiated (middle Miocene)**
- Tif — **Felsic dikes (middle Miocene)**
- Tim — **Mafic dikes (middle Miocene)**
- Til — **Lamprophyre dikes (middle Miocene)**
- Tb — **Tuff of Bridge Spring (middle Miocene)**
- Tcr — **Chaos rocks (middle Miocene)**

Patsy Mine Volcanics (middle and lower Miocene)

- Tpv — **Volcanic rocks, undivided**
- Tpu — **Upper part**
- Tpm — **Middle part, undivided**
- Tpma — **Altered dacite**
- Tpmr — **Rhyolite lava**
- Tpms — **Sedimentary rocks**
- Tpl — **Lower part**

Volcanic rocks of the McCullough Range (Miocene)

- Ta — **Andesite**
- Taa — **Altered andesite**

MESOZOIC AND PALEOZOIC ROCKS

- Ki — **Intrusive rocks (Upper Cretaceous)**
- Pz — **Sedimentary Rocks (Paleozoic)**

PALEOPROTEROZOIC ROCKS

- Xgn — **Metamorphic and plutonic rocks, undifferentiated (Paleoproterozoic)**

EXPLANATION OF MAP SYMBOLS

Contacts and faults—Solid where location is accurate; short-dashed where location is approximate; long-dashed where existence is inferred; dotted where concealed

Contact

Basal contact of landslide mass—Hachures on landslide mass

Fault—Bar and ball on downthrown side

Strike-slip fault—Arrows show relative direction of lateral offset

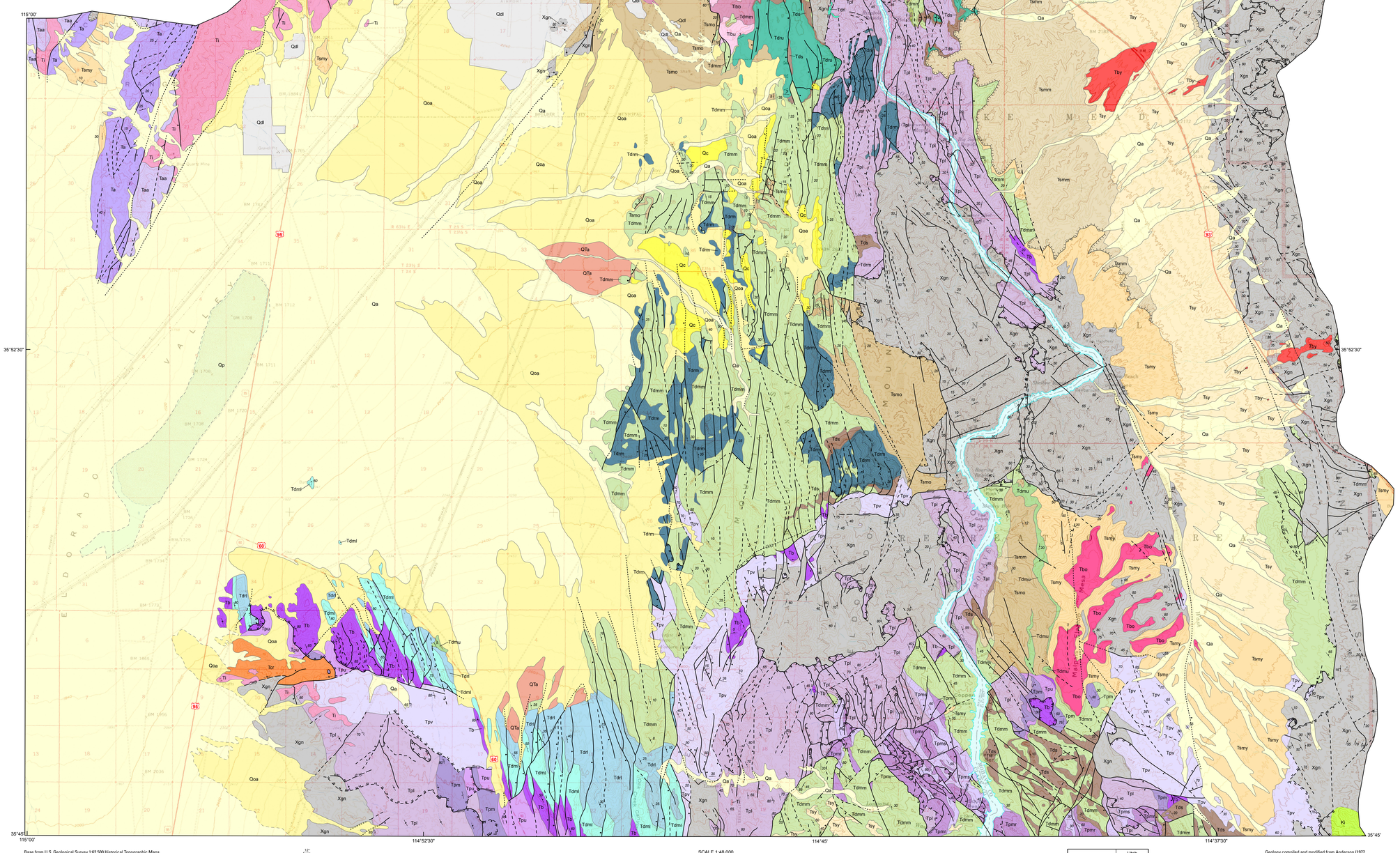
Low-angle fault—Hachures on upper plate

Strike and dip of bedding

- 55 **Inclined**
- 75 **Overturned**
- **Horizontal**
- **Vertical**

Strike and dip of foliation

- 35 **Inclined**
- 75 **Overturned**
- **Horizontal**
- **Vertical**


115°00'
114°52'30"
114°45'
114°37'30"
36°07'30"
36°00'
35°52'30"
35°45'
Boulder City
Fortification Hill
Black Island
Boulder Islands
Boulder Beach
Lake Mead
Lake Mohave
Hoover Dam
Colorado River
Eldorado Valley
Mount Davis
Mount Wilson
Mount Perry
Mount Barrow
Mount Dunn
Mount Manuel
Mount Nelson
Mount Ashby
Mount Bangs
Mount Longfellow
Mount Ruth
Mount Tom
Mount Hamilton
Mount Stephens
Mount Cleveland
Mount Dallas
Mount Bryant
Mount Wheeler
Mount Ashley
Mount Dorothy
Mount Ellen
Mount Hunter
Mount Moran
Mount Lucy
Mount Ethel
Mount Irene
Mount Jackson
Mount Lincoln
Mount Lincoln
Mount Lincoln