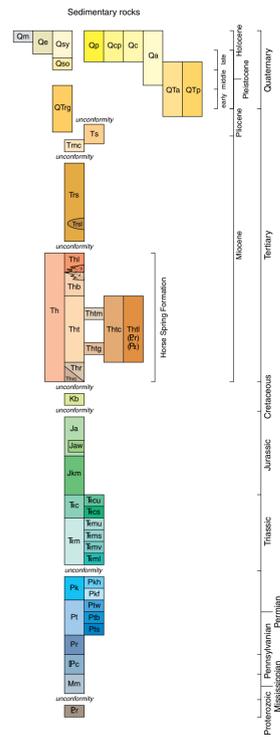


- Manmade feature**
- Eolian sand and associated deposits**
- Stream Deposits**
  - Young sideward alluvium
  - Old sideward alluvium
  - Mainstream alluvium
- Piedmont-Slope and Colluvial Deposits**
  - Piedmont-slope deposits
  - Undivided colluvium and piedmont-slope deposits
  - Colluvium
  - Older alluvium
  - Older piedmont-slope deposits
- Basin-Fill Deposits**
  - Post-volcanic basin-fill deposits
  - Muddy Creek Formation
  - Red sandstone unit
  - Landslide and debris-flow deposits
  - Horse Spring Formation, undivided
    - Lower Wash Member
    - Bitter Ridge Limestone Member
    - Thumb Member
    - Gypsiferous mudstone lithofacies
    - Gypsum lithofacies
    - Conglomerate lithofacies
    - Landslide blocks and megabreccia
    - Rainbow Gardens Member
    - Conglomerate lithofacies
- Intrusive and Volcanic Rocks and Associated Sedimentary Rocks**
  - Wilson Ridge pluton
  - Pendants and xenoliths
  - Dikes, sills, and plugs
  - Intruded sedimentary rocks
  - Volcanic rocks of Callville Mesa, undivided
    - Basalt
    - Basaltic andesite
    - Basaltic andesite
    - Conglomerate
    - Andesite
  - Volcanic rocks of Hamblin Mountain, undivided
    - Andesite breccias and flows and associated sedimentary rocks
    - Andesite and dacite flows
    - Andesite and dacite autoclastic breccia and debris-flow breccia
    - Andesite and dacite flows and autoclastic breccias

- Pre-Cenozoic Sedimentary Rocks**
  - Baseline Sandstone
  - Attec Sandstone
  - Lower sandstone unit
  - Kayenta and Moenave Formations, undifferentiated
  - Chinle Formation
    - Upper part
    - Shinarump Member
  - Moenkopi Formation
    - Upper red member
    - Shnabkaib Member
    - Virgin Limestone Member
    - Lower red bed member
  - Kalabab Formation
    - Harrisburg Member
    - Fossil Mountain Member
  - Toroweap Formation
    - Woods Ranch Member
    - Brady Canyon Member
    - Seligman Member
  - Red beds
  - Callville Limestone
  - Monte Cristo Limestone
  - Crystalline basement rocks
- Volcanic and intrusive rocks**
  - Volcanic rocks of Callville Mesa
    - Intrusive rocks
  - Volcanic rocks of Hamblin Mountain
    - Intrusive rocks

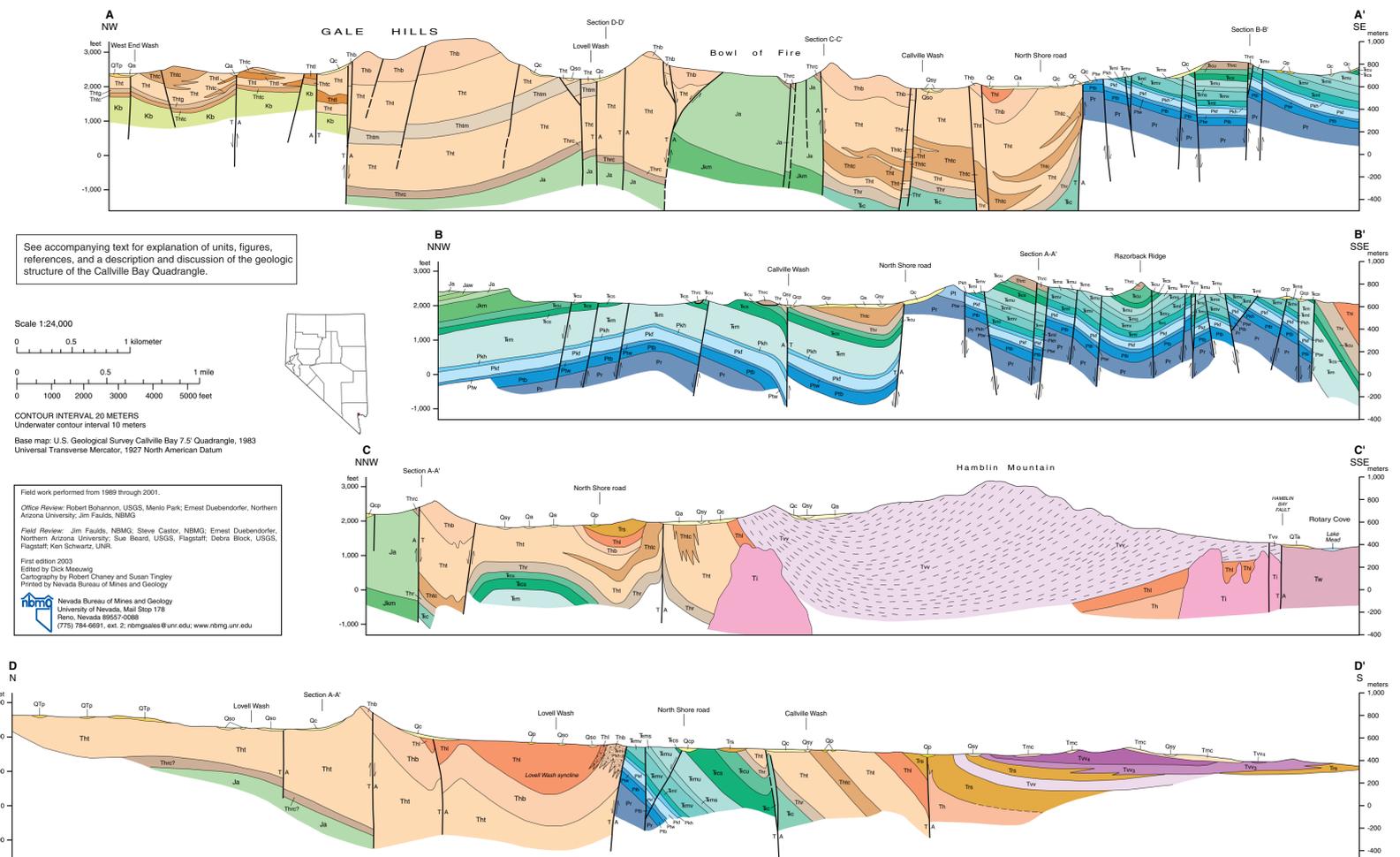


- Contact** Showing dip; dashed where approximately located.
- Contact between mainly intrusive and mainly volcanic rocks; approximately located.**
- Approximate strike and dip of unmapped intrusive contact; mainly marks trend of unmapped dikes.**
- Normal fault** Showing dip; bar and ball on downthrown side; arrows show relative motion; dashed where inferred or approximately located; dotted where concealed; relative motion in cross section A, away from observer, T, toward observer.
- Low-angle normal fault** Hachures on upper plate; dotted where concealed.
- Thrust fault** Teeth on upper plate; showing dip.
- Structural contact of uncertain origin, either thrust fault or base of landslide** Decoration on upper plate; showing dip; dashed where inferred or approximately located.
- Vertical fault**
- Trace of base of landslide or slump block** Hachures on upper plate.
- Syncline** Showing trace of axial plane and direction of plunge of axis; dashed where inferred or approximately located; dotted where concealed.
- Anticline** Showing trace of axial plane and direction of plunge of axis; dashed where inferred or approximately located; dotted where concealed.
- Small-scale folds** Dividing line through squiggle would show approximate trace of axial plane.
- Strike and dip of inclined bedding**
- Strike and dip of overturned bedding**
- Strike of vertical bedding**
- Horizontal bedding**
- Strike and dip of flow layering or flow foliation**
- Vertical flow layering or flow foliation**
- Dike** Showing dip
- Sample locality with <sup>40</sup>Ar/<sup>39</sup>Ar age determination** Reported by Anderson and others (1994).

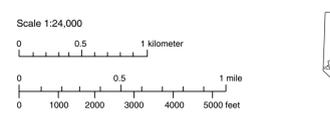
# GEOLOGIC MAP OF THE CALLVILLE BAY QUADRANGLE, CLARK COUNTY, NEVADA AND MOHAVE COUNTY, ARIZONA

R. Ernest Anderson

2003



See accompanying text for explanation of units, figures, references, and a description and discussion of the geologic structure of the Callville Bay Quadrangle.



CONTOUR INTERVAL 20 METERS  
Underwater contour interval 10 meters  
Base map: U.S. Geological Survey Callville Bay 7.5' Quadrangle, 1983  
Universal Transverse Mercator, 1927 North American Datum

Field work performed from 1989 through 2001.  
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