

EXPLANATION FOR 1:12 000 SCALE GEOLOGIC MAP OF THE SOUTH VIRGIN MOUNTAINS, SOUTHEASTERN NEVADA AND NORTHWESTERN ARIZONA

MAP SYMBOLS

DEPOSITIONAL CONTACTS

- well located
- approximately located
- inferred
- buried

FAULTS (line patterns as above, ornaments on hanging wall)

- moderately to steeply dipping normal fault
- shallowly dipping normal fault
- thrust fault
- strike slip fault
- fault dip and dip direction
- fault dip, dip direction, and orientation of slip lineations (angle between dip arrow and slip lineation arrow equals 90° - rake)

ATTITUDES

- strike and dip of bedding
- strike and dip of overturned bedding
- horizontal bedding
- strike and dip of metamorphic foliation

OTHER SYMBOLS

- tie bar - connects fields underlain by the same map unit
- label bar - connects map unit label to map field
- location of cross-section lines

STRATIGRAPHY

Map Units

POST-EXTENSIONAL

- Q_{ls} landslide deposits
- Q_c colluvium
- Q_{al1} active alluvium
- Q_{al2} older alluvium
- T_c conglomerates (possibly Muddy Creek Formation)
- T_{ls} landslide deposits
- T_b basalt

SYN-EXTENSIONAL (EARLY)

- T_{ht} conglomeratic Thumb Member
 - T_{hr2} limestone of Rainbow Gardens and Thumb Members
 - T_{hr1} conglomeratic Rainbow Gardens Member
- } Horse Spring Formation

PRE-EXTENSIONAL

- J_a Aztec Formation
 - F_c Chinle Formation
 - F_{mu} Upper Red Member
 - F_{mv} Virgin Limestone + Schnabkaib Member
 - F_{ml} Lower Red Member
 - P_k Kaibab Formation
 - P_{tg} Alpha Member (gypsiferous)
 - P_t Beta Member
 - P_c Coconino Sandstone
 - P_h Hermit Mudstone
 - P_q Queantowep Sandstone
 - P_{c3} subunit 3
 - P_{c2} subunit 2
 - P_{c1} subunit 1
 - M_y Yellow Pine Member
 - M_b Bullion Member
 - M_a Anchor Member
 - M_d Dawn Member
 - D_c Crystal Pass Member
 - D_v Valentine Member
 - D_i Ironside Member
 - OD_m Mountain Springs Formation
 - E₅ subunit 5
 - E₄ subunit 4
 - E₃ subunit 3
 - E₂ subunit 2
 - E₁ subunit 1
 - E_p Papoose Lake Member
 - E_{a2} subunit 2
 - E_{a1} subunit 1
 - E_t Tapeats Sandstone
 - pE_{gg} Gold Butte Granite
 - pE_{gn} garnet gneiss
 - pE_{og} orthogneiss
- } Moenkopi Formation
- } Torowep Formation
- } Callville Formation + Pakoon Formation
- } Monte Cristo Formation
- } Sultan Formation
- } Bonanza King Formation
- } Bright Angel Formation

Correlation Diagram

