Utah Geological Survey
a division of
Utah Department of Natural Resources

Plate 1
Utah Geological Survey Miscellaneous Publication 06-7
Geologic Map of the Abajo Mountains Area

Geologic Map of the Abajo Mountains Area, San Juan County, Utah

by

I.J. Witkind, assisted by H.T. Cantor, P.C. Griffin, D.R. Tuttle, and G.L. Marshall

Source map published in 1964, GIS compilation in 2006

SCALE 1:31,680
Contour Interval 40 Feet

EXPLANATION

- Qal — Alluvium
- Qd — Dune sand
- Qcl — Colluvium
- Qrs — Rockslide and boulder-field deposits
- Qpd — Pediment deposits

Pliocene and Recent — QUATERNARY

UNCONFORMITY

- Ts* — Stock
- Tdp* — Quartz diorite porphyry
- Tsz* — Shatter zone

*Oligocene to Lower Miocene** — TERTIARY*

- Km — Mancos Shale

Upper Cretaceous

- Kdb — Dakota Sandstone and Burro Canyon Formation, undivided

Lower and Upper Cretaceous — CRETACEOUS

UNCONFORMITY

- Jm — Morrison Formation

UNCONFORMITY

- Jw* — Wanakah Formation

UNCONFORMITY

- Je — Entrada Sandstone
  - Jem — Jem, Moab Sandstone Member (now considered member of Curtis Formation)
  - Jel — Jel, lower unit
- Jen* — Entrada Sandstone, Carmel Formation and Navajo Sandstone undifferentiated
- Jc — Carmel Formation

UNCONFORMITY

- Jn — Navajo Sandstone
- Jk — Kayenta Formation
- JTRu — Jurassic rocks undifferentiated*

*Upper Jurassic** — *Middle Jurassic** — San Rafael Group — *Lower Jurassic** — Glen Canyon Group

- JTRw* — Wingate Sandstone
- TRc — Chinle Formation
  - TRcu — TRcu, upper (Church Rock, Owl Rock, and Petrified Forest members)
  - TRcm — TRcm, Moss Back Member
  - TRcmv — TRcmv, Monitor Butte Member
  - TRcs — TRcs, Shinarump Member
- TRu — Jurassic and Triassic rocks undifferentiated*

*Upper Triassic** — JURASSIC* — TRIASSIC*

UNCONFORMITY

- TRm — Moenkopi Formation

Lower and Middle(?) Triassic

UNCONFORMITY

- Pc — Cutler Formation

PERMIAN

Contact
Dashed where approximately located; short dashed where inferred; dotted where concealed; queried where uncertain

High angle fault
*Dashed where approximately located; dotted where concealed; queried where uncertain; bar and ball on downthrown side**

Strike and dip of beds
Strike of vertical beds
Horizontal Beds
Dry Hole
Spring
Active Mine
Inactive Mine
Prospect
A——A' Cross section line (cross sections are figures 22 and 24 in Prof. Paper 453)

*Asterisk is used to indicate where changes were made to the source material

Base from U. S. Geological Survey Abajo Peak, Mount Linnaeus, Shay Mountain, and Monticello Lake 7.5' quadrangles.

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The Utah Geological Survey (UGS) does not guarantee accuracy or completeness of data. This digital data set represents the geology of the Abajo Peak, Mount Linnaeus, Shay Mountain, and Monticello Lake 7.5' quadrangles in the Abajo Mountains area of southeast Utah. The source for this data set was Plate 1 of U.S. Geological Survey Professional Paper 453, Geologic Map of the Abajo Mountains Area, San Juan County, Utah, by I.J. Witkind, assisted by H.T. Cantor, P.C. Griffin, D.R.Tuttle, and G.L. Marshall, published in 1964, at a scale of 1:31,680. Field mapping for this publication was completed in 1954 - 57.

Kilometers: 0 1 2 4
Miles: 0 0.5 1 2 3

APPROXIMATE MEAN DECLINATION, 1964

Project Manager: Grant Willis, Utah Geological Survey
GIS: Geoff Muhlestein, Bryan Anderson, Luke Ambrose, and David J. Maxwell of Southern Utah University
Cartographic and additional GIS by J. Buck Ehler, Utah Geological Survey

This map is a plot of Geographic Information System (GIS) files created to visually represent the content of the GIS data files. It is not a published map and it contains many features that do not meet UGS cartographic standards, such as automatically generated labels that may overlap other labels and lines.

This map uses standard USGS 1:24,000-scale 7.5' topographic maps for the base. However, the original source map was published at a scale of 1:31,680. UGS cartographers made minor modifications to fit the 1:24,000 base maps.