Arizona Bureau of Mines Bulletin 186

GEOLOGIC MAP OF THE VIRGIN AND BEAVER DAM MOUNTAINS ARIZONA

SCALE 1:62500

1 ½ 0 1 2 3 4 MILES

3000 0 3000 6000 9000 12000 15000 18000 21000 FEET

1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 80 FEET
DATUM IS MEAN SEA LEVEL

EXPLANATION

RECENT

Qal | Qs

Silt, sand, and gravel

Qal: Unconsolidated alluvial deposits in present drainages.
Qs: Lag gravels, residual soils, dune sand, and fan deposits.

QTs

Conglomerate

Loosely to firmly consolidated silt, sand, and gravel: locally contains caliche and travertine deposits.

PLEISTOCENE (?) — PLIOCENE

QTb

Basalt flows

QTi

Basalt dikes

MIOCENE (?)

Tmc

Muddy Creek Formation

TKcw

Cottonwood Wash Formation

CRETACEOUS (?)

Kjr

Jacobs Ranch Formation

JURASSIC — TRIASSIC (?)

Jn

Navajo Sandstone

TRIASSIC

Trc

Chinle Formation

including the Kayenta and Moenave Formations of the Glen Canyon Group.

Trs

Shinarump Conglomerate

Trm

Moenkopi Formation

Pkt

Kaibab and Toroweap Formations

PERMIAN

Ps

Supai Formation

including in the southern part of the area, the Hermit Formation and locally, the Coconino Sandstone.

PERMIAN — PENNSYLVANIAN

PIPc

Callville Limestone

MISSISSIPPIAN

Mr

Redwall Limestone

DEVONIAN — ORDOVICIAN (?) — CAMBRIAN

DOЄ

Undifferentiated

CAMBRIAN

Ct

Bright Angel Shale and Tapeats Sandstone

pЄgr

Granite and related intrusive igneous rocks

PRECAMBRIAN

pЄgn

Gneiss, schist, and related metamorphic rocks

PZ

Paleozoic, undivided

Contact
Dashed where approximately located.

High-angle fault, showing dip
Dashed where approximately located, dotted where concealed.

Thrust fault

Anticline

Syncline

Monocline

Strike and dip of beds

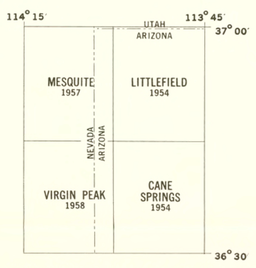
Strike and dip of overturned beds

Vertical beds

Horizontal beds

Strike and dip of foliation

Vertical foliation



Index to U.S. Geological Survey quadrangle sheets used in compiling topography.

APPROXIMATE MEAN DECLINATION, 1954

Geology by Richard T. Moore

PLATE I