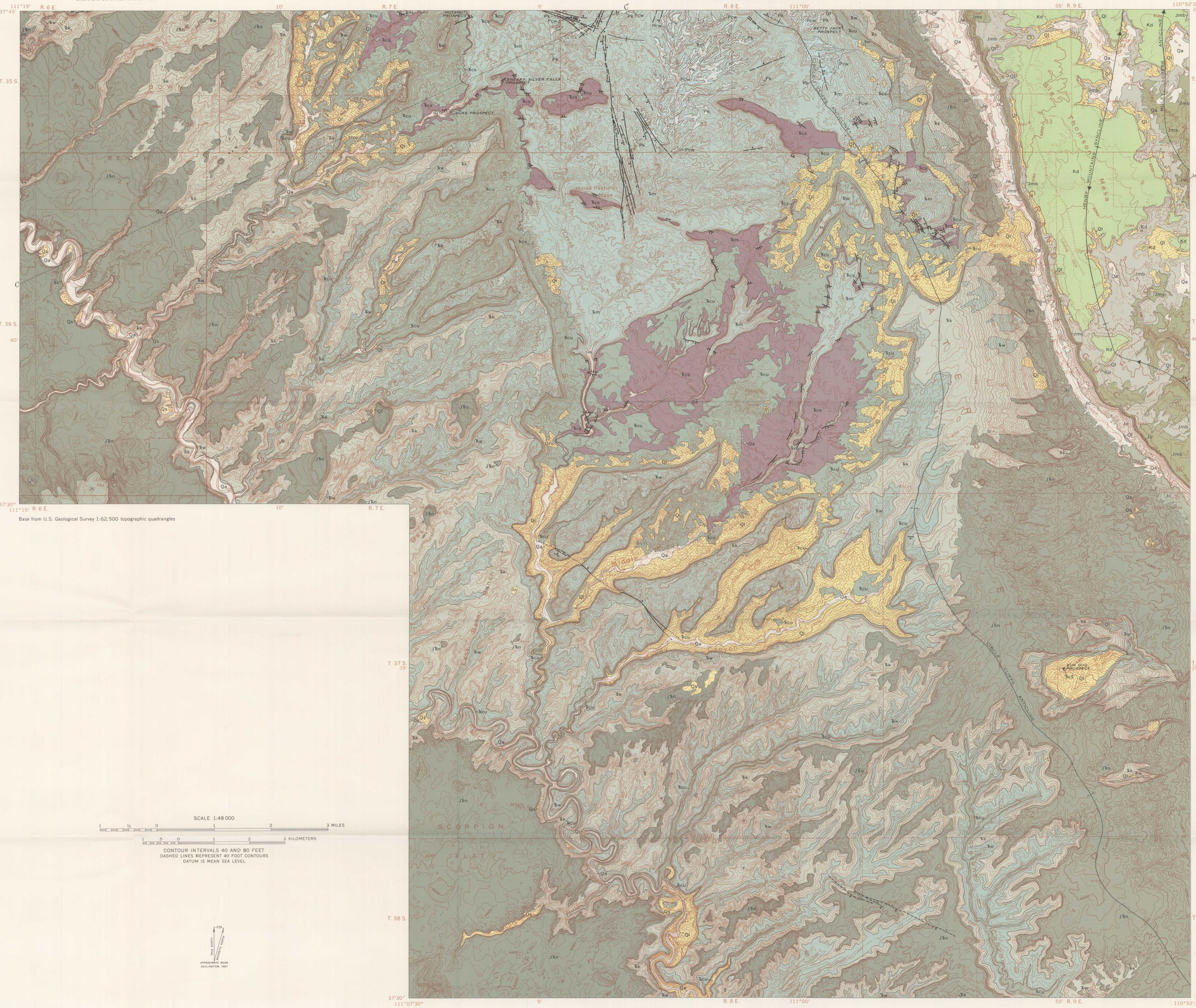


Base from U.S. Geological Survey 1:62,500 topographic quadrangles

SCALE 1:48 000

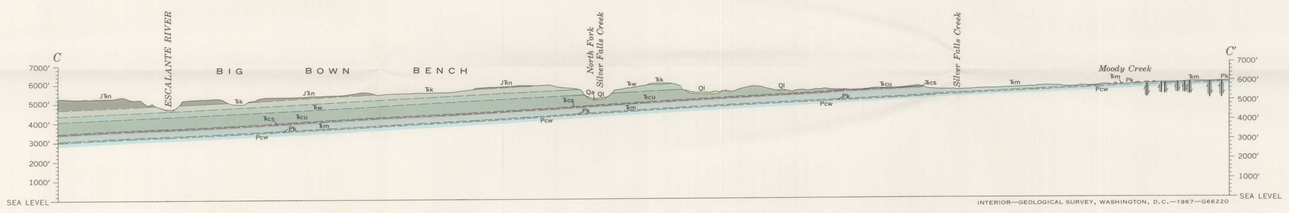
1 ½ 0 1 2 3 MILES

1 .5 0 1 2 3 KILOMETERS

CONTOUR INTERVALS 40 AND 80 FEET
DASHED LINES REPRESENT 40 FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1967

Geology by E. S. Davidson, D. A. Brew, L. D. Carswell, G. A. Miller, and R. A. Cadigan, 1954–57



EXPLANATION

QUATERNARY — *Pleistocene(?) and Recent*

- Qs — Windblown sand
- Qa — Stream alluvium
- Qt — Talus
- Qf — Fan deposit
- Ql — Landslide deposits
- Qg — Terrace gravel

TERTIARY(?) — *Pliocene(?)*

- Tp — Pediment deposits
- Tb — Bouldery deposits

UNCONFORMITY

CRETACEOUS — *Upper Cretaceous*

- Kmv — Mesaverde Formation
- Kmm, Kme, Kmb, Kmf, Kmt — Mancos Shale
  - Kmm, *Masuk Member*
  - Kme, *Emery Sandstone Member*
  - Kmb, *Blue Gate Shale Member*
  - Kmf, *Ferron Sandstone Member*
  - Kmt, *Tununk Shale Member*

Lower(?) Cretaceous

- Kd — Dakota Sandstone

UNCONFORMITY

JURASSIC — *Upper Jurassic*

- Jmb, Jms — Morrison Formation
  - Jmb, *Brushy Basin Shale Member*
  - Jms, *Salt Wash Sandstone Member*

San Rafael Group

- Js — Summerville Formation

UNCONFORMITY

Middle and Upper Jurassic

- Je — Entrada Sandstone
- Jc — Carmel Formation

UNCONFORMITY

TRIASSIC(?) AND JURASSIC

Glen Canyon Group

- J′Ŧn — Navajo Sandstone

TRIASSIC(?)

- Ŧk — Kayenta Formation

TRIASSIC — *Upper Triassic*

- Ŧw — Wingate Sandstone
- Ŧcu, Ŧcs — Chinle Formation
  - Ŧcu, *undifferentiated; includes Church Rock, Owl Rock, Petrified Forest, and Monitor Butte Members, and locally mottled-siltstone unit where Shinarump Member absent*
  - Ŧcs, *Shinarump Member and locally mottled-siltstone unit*

UNCONFORMITY

Lower and Middle(?) Triassic

- Ŧm — Moenkopi Formation

UNCONFORMITY

PERMIAN

- Pk — Kaibab Limestone
- Pcw — White Rim Member of Cutler Formation

Contact
Dotted where concealed

High-angle fault
Showing dip where known. Dashed where approximately located; dotted where concealed. Bar and ball on downthrown side

Probable fault
Bar and ball on downthrown side

Anticline
Showing crestline and direction of plunge

Syncline
Showing troughline and direction of plunge; queried where doubtful

Edge of channel of Triassic age
Edge of channel cut in top of Moenkopi Formation, exposed on cliff faces, inferred where erosion has removed all but deeper parts of channel. Hachures point toward center of channel

Pit Vertical shaft
Uranium prospect

Oil-test well
Dry hole

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1967—G66220

GEOLOGIC MAP AND SECTIONS OF THE CIRCLE CLIFFS AREA, GARFIELD AND KANE COUNTIES, UTAH