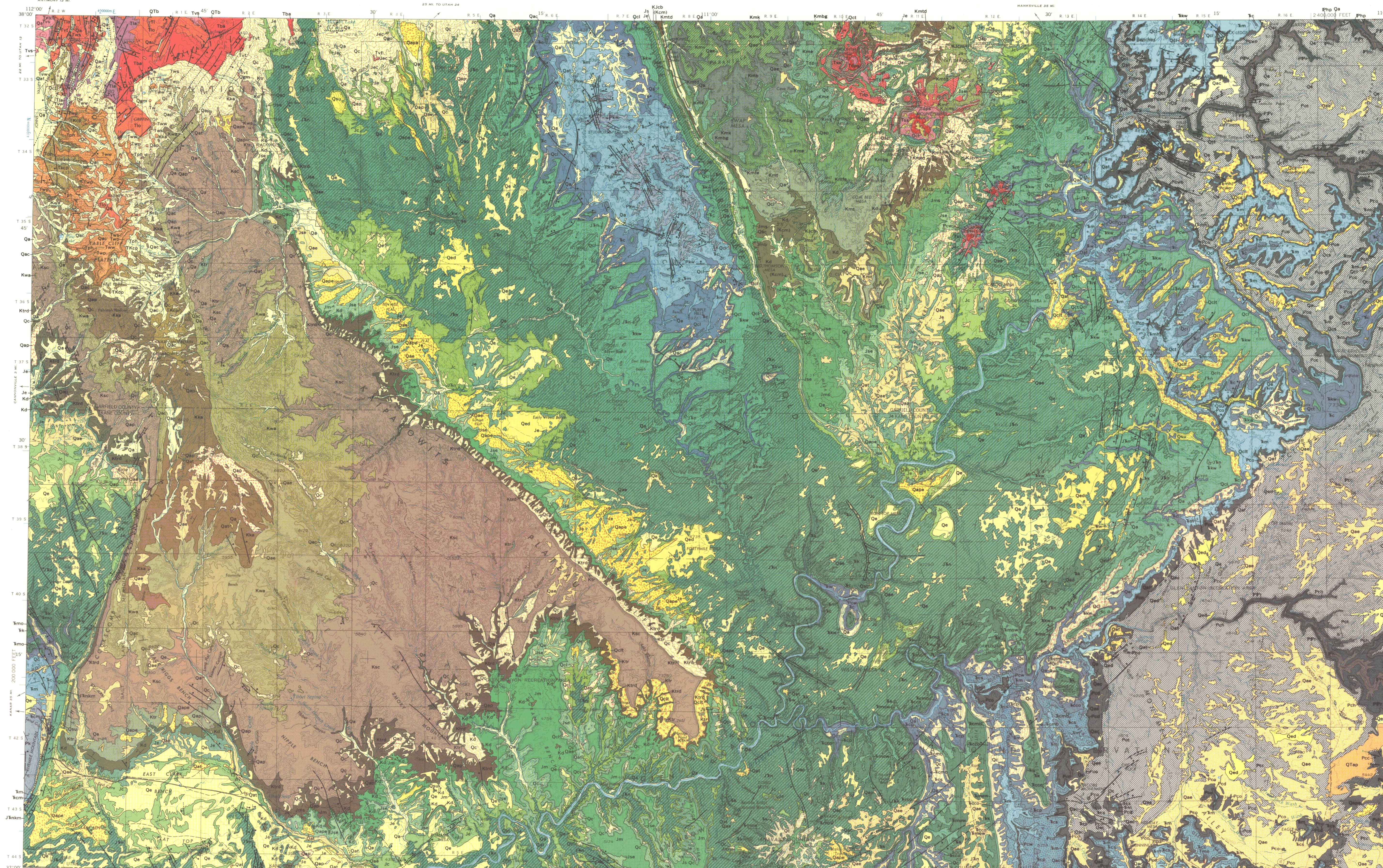
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
U.S. ATOMIC ENERGY COMMISSION

MISCELLANEOUS GEOLOGIC INVESTIGATIONS
MAP I-744 (SHEET 1 OF 2)

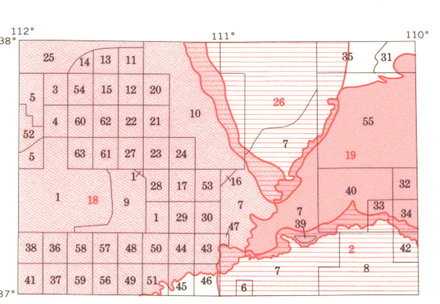


Base from U.S. Geological Survey, 1956–62

Geology compiled in 1965–70

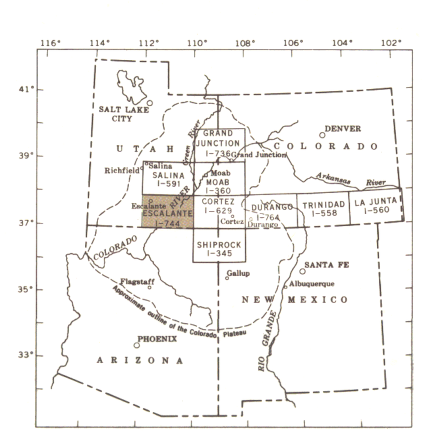
SCALE 1:250 000

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS
DATUM IS MEAN SEA LEVEL

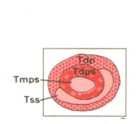


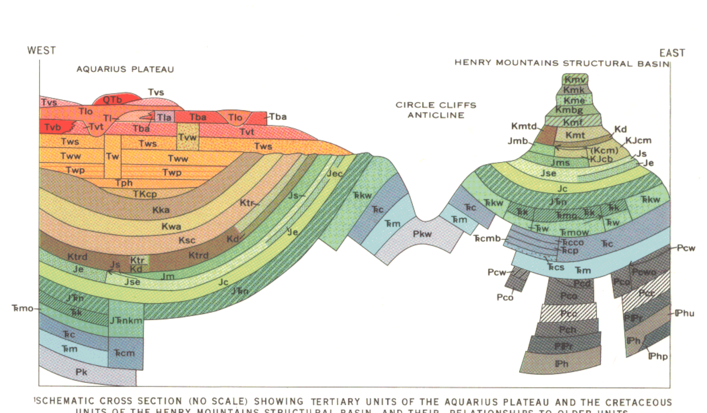
INDEX MAP SHOWING SOURCES OF GEOLOGIC DATA

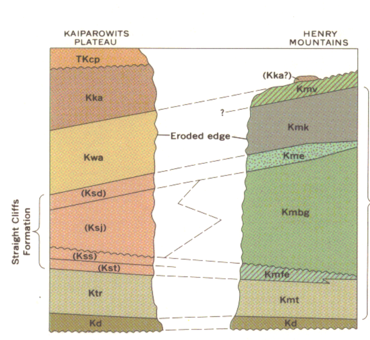
GEOLOGIC SOURCES



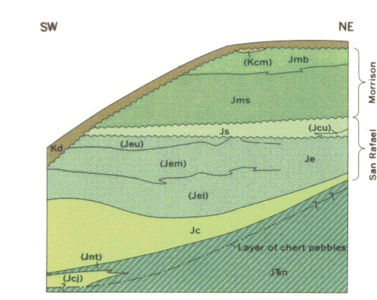
INDEX MAP SHOWING AREA OF ESCALANTE QUADRANGLE AND OTHER PUBLISHED QUADRANGLES



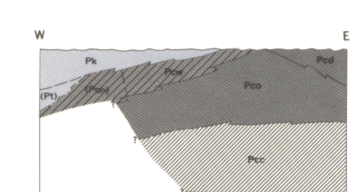




Correlations by Fred Peterson and W. E. Bowers (oral commun., 1969), U.S. Geological Survey



Formations, members, and informal members shown in parentheses are not mapped separately



FOOTNOTES FOR EXPLANATION

Geology
GEOLOGY, STRUCTURE, AND URANIUM DEPOSITS OF THE ESCALANTE QUADRANGLE, UTAH AND ARIZONA

Compiled By
Robert J. Hackman and Donald G. Wyant
1973

EXPLANATION

QUATERNARY

Alluvial and eolian deposits

Gravels

Colluvial deposits

Lake deposit

Glacial deposits

Pediment deposit

Basalt

TERTIARY

Volcanic sediments

Latite

Latite and basaltic andesite flows

Basaltic andesite

Andesite breccia and tuffaceous sediments

Tuffaceous sediments and variegated sandstone member of the Wasatch Formation, undivided

UNCONFORMITY

Wasatch Formation

INTRUSIVE IGNEOUS AND RELATED ROCKS
Age and correlation uncertain

Explosion breccia

Minette

Syenite porphyry

Rocks of the Henry Mountains igneous center

LOCAL UNCONFORMITY

Pine Hollow Formation

LOCAL UNCONFORMITY

Canaan Peak Formation

UNCONFORMITY

CRETACEOUS

Kaiparowits Formation

Wahweap Sandstone

Straight Cliffs Formation

Mesaverde Formation

Mancos Shale

Tropic Shale

Tropic Shale and Dakota Sandstone

Dakota Sandstone

Tununk Shale Member of the Mancos Shale and Dakota Sandstone

Cedar Mountain and Morrison Formations

Cedar Mountain Formation and Brushy Basin Member of the Morrison Formation

JURASSIC

Morrison Formation

Summerville Formation

Summerville Formation and Entrada Sandstone

Entrada Sandstone

Entrada Sandstone and Carmel Formation

Carmel Formation

TRIASSIC(?) AND JURASSIC

Navajo Sandstone

Kayenta Formation

Moenave Formation

Wingate Sandstone

Navajo Sandstone, Kayenta and Moenave Formations

Moenave Formation and Wingate Sandstone

Kayenta Formation and Wingate Sandstone

TRIASSIC

UNCONFORMITY

Chinle Formation

Chinle and Moenkopi Formations

UNCONFORMITY

Moenkopi Formation

UNCONFORMITY

PERMIAN

Kaibab Limestone

Kaibab Limestone and White Rim Sandstone Member of the Cutler Formation

Cutler Formation

PENNSYLVANIAN

Rico Formation

Hermosa Formation

Contact

Fault

Strike and dip of beds

REFERENCES

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Bassett, W. A., Kerr, P. F., Schaeffer, O. A., and Stoenner, R. W., 1963, Potassium-argon dating of the Late Tertiary volcanic rocks and mineralization of Marysvale, Utah.

O'Sullivan, R. B., 1970, The upper part of the Upper Triassic Chinle Formation and related rocks, southeastern Utah and adjacent areas: U.S. Geol. Survey Prof. Paper 644-E, p. E1–E22.