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Base from U.S. Geological Survey: Circleville Quadrangle, 1966

SCALE 1:24 000

1 ½ 0 1 MILE

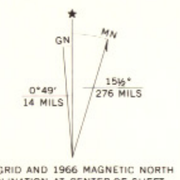
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 20-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

Field mapping by authors in 1969-70, 1978, 1984
Field checked 1984

K.D. Brown and D.A. Jenkins, Cartographers



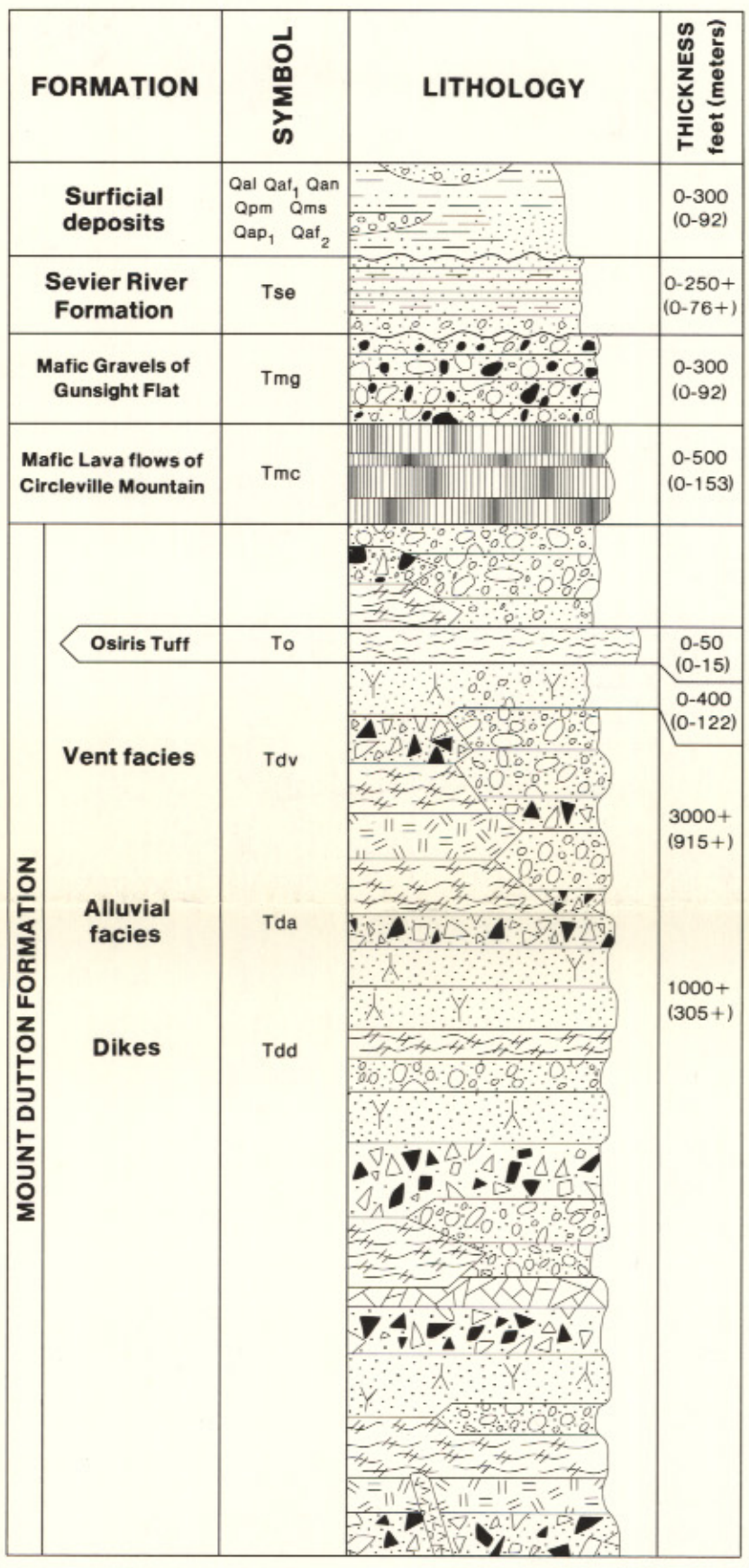
UTM GRID AND 1966 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

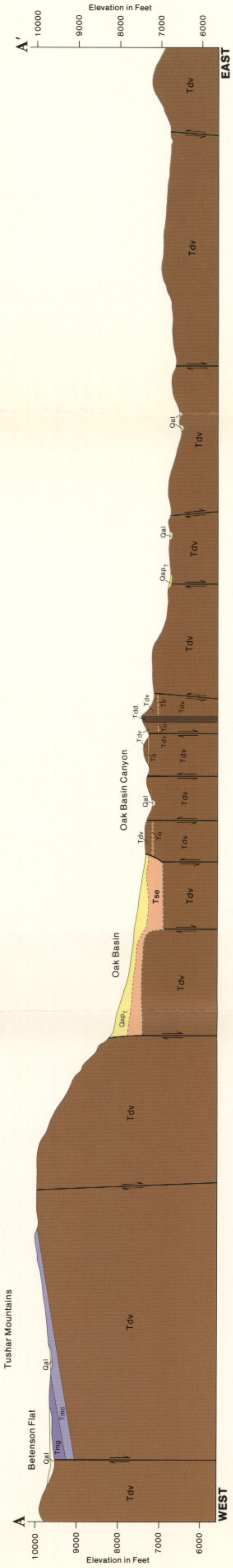
GEOLOGIC MAP OF THE CIRCLEVILLE QUADRANGLE, BEAVER, PIUTE, AND GARFIELD COUNTIES, UTAH

by
John J. Anderson, Peter D. Rowley, and John T. Blackman
U.S. Geological Survey

1986

QUADRANGLE LOCATION





DESCRIPTION OF MAP UNITS

QUATERNARY

- **Qal** — Alluvium—*Unconsolidated silt, sand, and gravel along active streams and washes.*
- **Qaf1** — Alluvial fan and talus deposits—*heterogenous mix of sand, silt, and gravel with minor talus from intermittent streams.*
- **Qan** — Floodplain and channel deposits—*silt, sand, and gravel, locally cobbly and bouldery.*
- **Qpm** — Playa lake deposits—*lacustrine clay, silt, and sand.*
- **Qms** — Landslide debris—*disaggregated rock and surficial deposits.*
- **Qap1** — Piedmont slope deposits—*poorly sorted, unconsolidated silt, sand, and gravel on sloping surfaces from deposition (alluvial fans) and erosion (pediments).*
- **Qaf2** — Older alluvial fan and terrace deposits—*unconsolidated to poorly sorted silt, sand, and gravel.*

UNCONFORMITY

TERTIARY

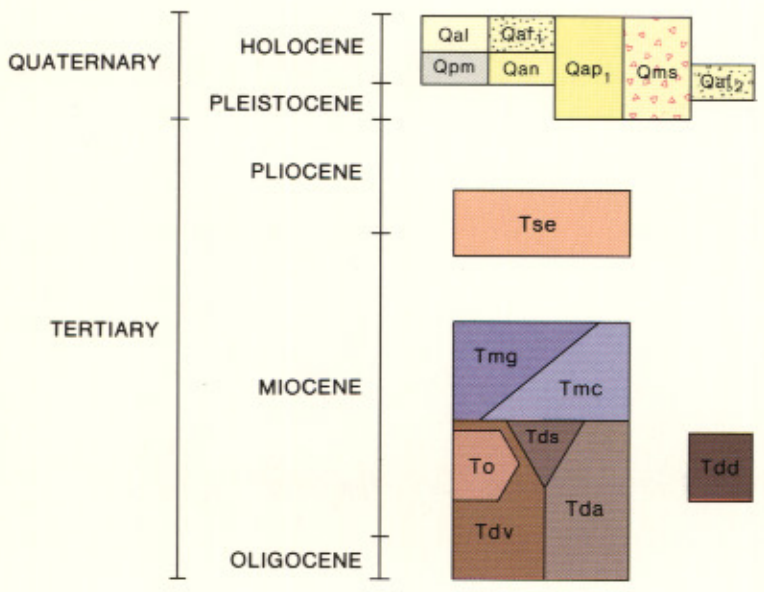
- **Tse** — Sevier River Formation—*poorly to moderately consolidated, light-gray, tan, pinkish-gray, and white silty-pebbly sandstone and conglomerate with local air-fall tuffs.*

UNCONFORMITY

- **Tmg** — Mafic gravels of Gunsight Flat—*poorly consolidated conglomerate and fanglomerate derived from Tmc and Tmb.*
- **Tmc** — Mafic lava flows of Circleville Mountain—*resistant, dark-gray to black, vesicular to dense porphyritic lava flows that resemble plateau basalts.*
- **To** — Osiris tuff—*ledge-forming, reddish-brown to pinkish- or purplish-gray, densely welded, vitric-crystal ash-flow tuff.*

Mount Dutton Formation

- **Tdv** — Vent facies—*medium- to dark-gray and gray-brown, dense lava flows and autoclastic flow-breccia.*
- **Tda** — Alluvial facies—*gray and brown volcanic mudflow-breccia, conglomerate, and tuffaceous sandstone.*
- **Tdd** — Dikes—*dikes of porphyritic amphibole andesite.*
- **Tds** — *Sandstone member—soft, light-gray, yellow or tan, cross-bedded, zeolite-cemented tuffaceous sandstone.*



CONTACT
Dashed where approximately located

FAULT
Dashed where location inferred; queried where probable; dotted where covered; bar and ball on downthrown side

STRIKE AND DIP OF BEDS

IDENTIFIABLE STRUCTURAL LINEAMENT

Approximate location of vent of central stratovolcano