



CORRELATION OF MAP UNITS

| | | | |
|-----|-----|---|------------|
| Qa | Qt | Ql | QUATERNARY |
| Qd | Qg | | |
| Qdo | Qgo | | |
| | Tdu | TERTIARY | |
| TP | | | |
| THI | | | |
| | TKp | CRETACEOUS MISSISSIPPIAN THROUGH CAMBRIAN | |
| | ME | | |
| | Yg | PRECAMBRIAN Y | |
| | Xg | PRECAMBRIAN X | |
| | Xb | | |

DESCRIPTION OF MAP UNITS

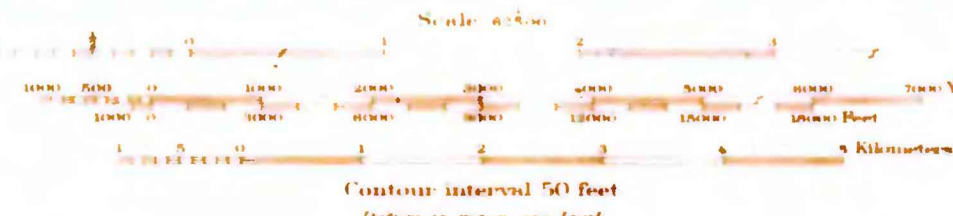
- Qa Alluvium (Holocene)
 - Qt Talus, rock streams, and coarse fan deposits (Holocene)
 - Ql Landslide deposits (Holocene and Pleistocene)
 - Qd Glacial drift (Pleistocene--Pinedale and Bull Lake)
 - Qg Outwash and terrace gravels (Pleistocene--Pinedale and Bull Lake)
 - Qdo Older glacial drift (Pleistocene--pre-Bull Lake)
 - Qgo Older outwash and pediment gravels (Pleistocene--pre-Bull Lake)
 - Tdu Dry Union Formation (Pliocene and Miocene)--Silt, sand, and gravel
 - TP Felsite and quartz porphyries (Tertiary)
 - +++ Dike
 - Ttl Porphyritic quartz monzonite and granodiorite of Twin Lakes stock (middle Tertiary)
 - TKp Intrusive porphyries (Lower Tertiary and Upper Cretaceous)
 - ME Leadville Dolomite (Mississippian), Chaffee Formation (Devonian), Manitou Dolomite (Ordovician), and Peerless Formation and Sawatch Quartzite (Cambrian)
 - Yg Granitic rocks of ~1,400 m.y. age group (Precambrian Y)
 - Xg Granitic rocks of ~1,700 m.y. age group (Precambrian X)
 - Xb Biotite gneiss and migmatite (Precambrian X)
- Contact
- Fault--Dotted where concealed. Bar and ball on downthrown side
- Inferred fault in Dry Union Formation and younger unconsolidated deposits. Bar and ball on downthrown side
- ⊥ Strike and dip of beds
- ⊥ Strike and dip of foliation
- ↗ Inclined
- ↑ Vertical

U.S. Geological Survey

OPEN FILE REPORT

This map is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

Base from U.S. Geological Survey, 1935



Geology mapped by Ogden Tweto, 1961-65, 1973, and John C. Reed, Jr., and R. H. Moench, 1973. Some of data on Twin Lakes stock from mapping by H. G. Wilshire, 1965

RECONNAISSANCE GEOLOGIC MAP OF THE MOUNT ELBERT 15-MINUTE QUADRANGLE,
LAKE, CHAFFEE, AND PITKIN COUNTIES, COLORADO

By
Ogden Tweto and John C. Reed, Jr.
1973