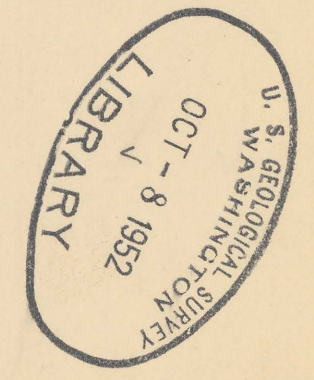


- EXPLANATION**
- Qal**
Recent and Pleistocene (?) alluvium, fan deposits, and, near the Boulder River, terrace gravel.
- Tda**
Dacite-Andesite
Dominantly intrusive, light to dark dacite and andesite. Texture is aphanitic or porphyritic with abundant small phenocrysts of biotite and plagioclase. Quartz phenocrysts are locally present. Dacite-andesite of Sugarloaf Mountain is probably partly extrusive.
- a**
Alaskite and Alaskite dikes, showing dip
Undifferentiated alaskite, aplite, alaskite porphyry, and pegmatite; alaskite and aplite predominate. Gradations between two or more types may be present in a single outcrop. Occurs as dikes and irregular masses, many small dikes have been omitted or grouped as a unit.
- Kv**
Quartz monzonite
Dominantly medium-grained biotite hornblende quartz monzonite; locally texture is coarse- or fine-grained; fabric is even grained or porphyritic. In *qm*, potash feldspar is relatively abundant and biotite and hornblende are relatively sparse. In *qm*, potash feldspar is relatively abundant and accessory pyroxene is common. In *qm*, potash feldspar is relatively abundant. It is gradational into *qm* and may be a local contact phase between *qm* and *Kv*. Other quartz monzonites which cannot be differentiated megascopically from *qm* or which are found in areas too small to be shown at this scale are included in *qm*.
- Pre-barholith volcanics**
Light to dark gray aphanitic andesitic rocks; not mapped in detail.
- Vein** (includes sulfide-bearing and barren siliceous types), showing dip (— measured dip, — approximate dip), dashed where approximately located.
- Alteration, showing intensity**
80
Contact, showing dip (— measured dip, — approximate dip)
Contact, approximately located
Contact, indefinitely located
Gradational contact
Concealed contact
Doubtful contact
Fault showing measured dip, dashed where approximately located
Probable fault
Strike and dip of joints
Prospect pit
Trench
Adit
Caved adit
Shaft
Caved shaft
Mill tailings
Areas, at the Comet and Gray Eagle mines, of caved shallow workings, slopes which extend to the surface, dumps, and trenches.
- List of mines identified by numbers**
1. Comet
2. Gray Eagle
3. Silver Hill
4. Baltimore
5. Free Enterprise
6. Boulder Mercury
7. Australian
8. Bismark
9. Cleveland
10. Hope-Bullion
11. Morning Glory
12. High Ore (Montana Consolidated)
13. East Mini
14. Boulder Chief
15. Ella

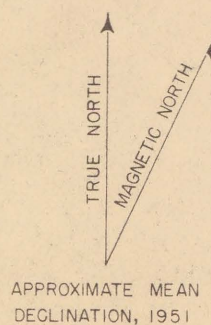
Preliminary topography by Fairchild
Aerial Surveys, Inc. for U.S.
Bureau of Reclamation, 1947 and 1948

Geology mapped in 1950 and 1951
by G.E. Becraft, D.Y. Meschter,
E.B. Gross and W.A. Roberts

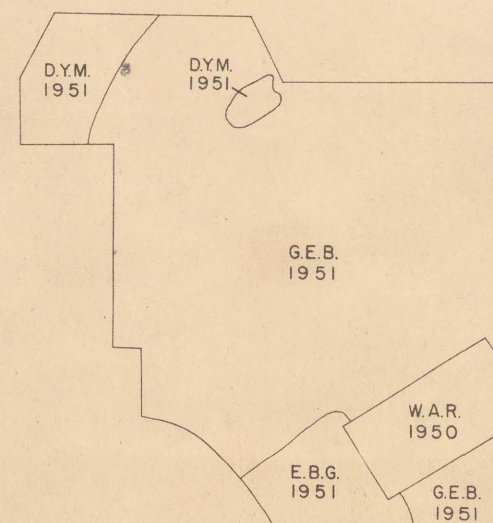
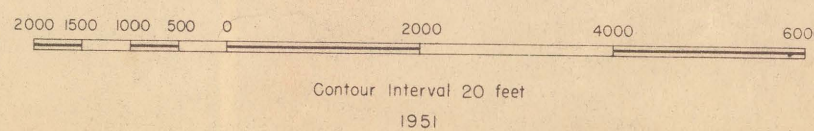


GEOLOGIC MAP
OF THE
COMET AREA, JEFFERSON CITY QUADRANGLE
JEFFERSON COUNTY, MONTANA

By George E. Becraft, Daniel Y. Meschter, and Eugene B. Gross



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



Montana (Comet area). Geol. 1:42,500. 1951.
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