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GEOLOGIC MAP
SHOWING
THE PRE-CAMBRIAN ROCKS
OF THE
GUNNISON RIVER REGION, COLORADO

Scale 125000
1 ½ 0 1 2 3 4 5 Miles
1 ½ 0 1 2 3 4 5 Kilometers
Contour interval 100 feet.
Datum is mean sea level.
1925

APPROXIMATE MEAN DECLINATION 1909

EXPLANATION

METAMORPHIC ROCKS

CHIEFLY ARCHEAN

DUBOIS GREENSTONE

- hb — Hornblende gneiss (*Occurs in zones as a part of the Dubois greenstone*)
- cs — Chlorite schist (*With some quartz-muscovite schist in zones and lenticular masses*)
- am — Amphibole schist and amphibolite (*With some hornblende gneiss and basic intrusives of later age*)

RIVER PORTAL MICA SCHIST

- qms — Quartz-mica schist of Mesa Creek (*Forming a border zone of the mica schist*)
- ms — Mica schist (*Fine-grained fissile quartz-mica schist*)

BLACK CANYON SCHIST

- ams — Amphibole schist (*Occurs in narrow zones as a part of the Black Canyon schist*)
- mus — Quartz-muscovite schist (*Fine-grained fissile schist*)
- bsg — Biotite schist (*Intricately intruded by dikes and irregular masses of granite of uncertain age*)
- s — Biotite schist, mica schist, granite gneiss, and amphibole schist including intruded ultra-basic rocks of uncertain age

ROCKS OF THE IRON HILL AREA (NOT DISCUSSED IN THIS REPORT)

- in — Igneous complex near Iron Hill of highly sodic rocks ranging from syenite to pyroxenite (*Age uncertain but in the main younger than the limestone*)
- ls — Limestone of Iron Hill and vicinity (*Age uncertain*)

- QK — Mesozoic sedimentary rocks, Tertiary volcanic rocks, and Quaternary deposits (*Concealing pre-Cambrian rocks*)

IGNEOUS ROCKS

PRE-CAMBRIAN AND CAMBRIAN (?)

- lp — Lamprophyre (*Dikes*)
- d — Diabase (*Dikes*)
- pg — Pegmatite and coarse granite (*Dikes and small irregularly shaped bodies*)
- as — Augite syenite (*Small irregularly shaped bodies*)
- og — Olivine gabbro (*Small dikelike body in Willow Creek*)
- dq — Diorite and quartz diorite (*Dikes and small irregular bodies*)
- qd — Quartz diorite (*Forms border zone of metagabbro body*)
- mg — Metagabbro (*Irregular body exposed in Cebolla Creek*)
- ug — Undifferentiated granite (*In irregular masses and dikes*)
- cg — Curecanti granite (*Fine-grained even-textured biotite granite*)
- vg — Vernal Mesa granite (*Coarse porphyritic biotite granite*)

POWDERHORN GRANITE GROUP

- pgg — Gray biotite granite (*Fine to medium grained*)
- ppg — Porphyritic biotite granite (*Medium to coarse grained*)
- pgp — Granite porphyry (*Fine grained*)

STRUCTURE SYMBOLS

Fault — Strike and dip of schistosity — Strike of vertical schistosity

BLACK CANYON OF THE GUNNISON RIVER — GUNNISON NATIONAL FOREST — UNCOMPAHGRE NATIONAL FOREST — MONTROSE — Fairview — Cedaredge — Olathe — Delta — Ridgway — Uncompahgre — Colona — Eldredge — Cerro Summit — Cimarron — Sawtooth Rocks — Storm King — Castle Rock — Washboard Rock — Van Bozen Sawmill — Swanson Lake — Watson Lake — Beaton Creek — Bostwick Park — Table Mtn — Log Hill Mesa — McKenzie Butte — Dallas — Sheep Mtn — Jackson — Trident Mesa — Soap Mesa — Black Mesa — Fitzpatrick Mesa — Willow Creek — Cebolla Creek — Iron Hill — Round Mtn — Cow Mtn — Rudolph Hill — Palenatch Hill — Blanca Peak — Crestone Peak — Kit Carson Mtn — Tenderfoot Hill — Alpine Plateau — Dry Mesa — Pleasant Valley — Dallas Creek — Uncompahgre River — Gunnison River — Cimarron Ridge — Trident Mesa — Log Hill