U.S. GEOLOGICAL SURVEY
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# AREAL GEOLOGY

## COLORADO
## NEEDLE MOUNTAINS
## QUADRANGLE

(Telluride) (Silverton) (Durango)

107°45′ 37°45′ A 40′ 35′ B 107°30′ 37°30′

## LEGEND

### IGNEOUS ROCKS
*(continued)*

- gP — Granite-porphyry *(dikes, crosscutting bodies, and laccolithic forms)*
- lp — Lamprophyric dikes *(minette and kersantite)*
- bd — Basic dikes *(diabase and greenstone)*
- gd — Granodiorite
- tg — Trimble granite *(fine-grained, gray biotite-granite)*
- eg — Eolus granite *(coarse, pink hornblende-biotite-granite)*
- wg — Whitehead granite *(reddish-pink biotite-granite)*
- tmg — Tenmile granite *(pink and gray biotite-granite)*
- twg — Twilight granite *(light-grayish-pink gneissoid granite, which predominates in the area indicated.)*

Earlier than Ignacio quartzite

- Ai — Irving greenstone *(largely greenstone, massive and schistose, with some granite-gneiss and quartzite)*

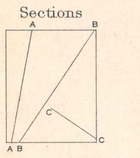
ALGONKIAN — Engineer Mountain

ALGONKIAN OR CAMBRIAN

Known faults *(doubtful location indicated by dashes)*

Concealed faults *(covered by younger deposits)*

Sections




60° Strike and dip of stratified rocks

Strike of vertical beds

Molas Lake
Whitehead Gulch
Elk Park
Creek
Elk
Snowdon Peak
Electric Peak
Mt. Garfield
Arrow Pk.
Graystone Peak
Vestal Peak
Trinity Peaks
Bear Creek
Bear Creek Falls
Bear Creek Trail
Bear Creek Falls Trail
Bear Creek Falls Line
Bear Creek Line
Bear Creek Trail Line
Bear Creek Falls Trail Line
Bear Creek Falls