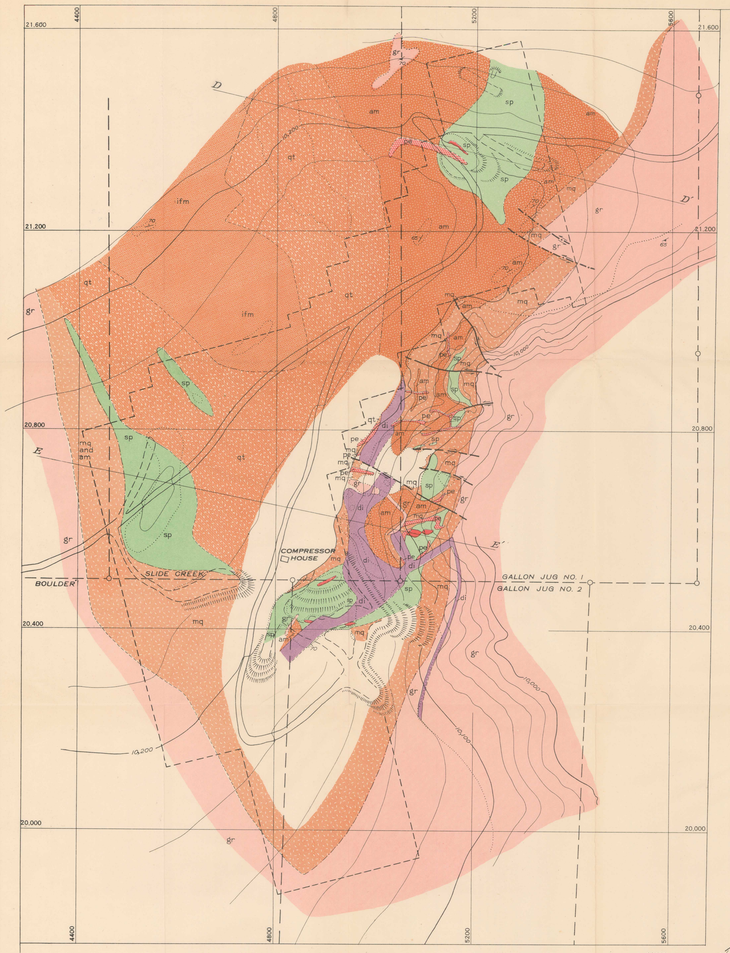


SOUTHWESTERN AREA

EXPLANATION

CRETACEOUS

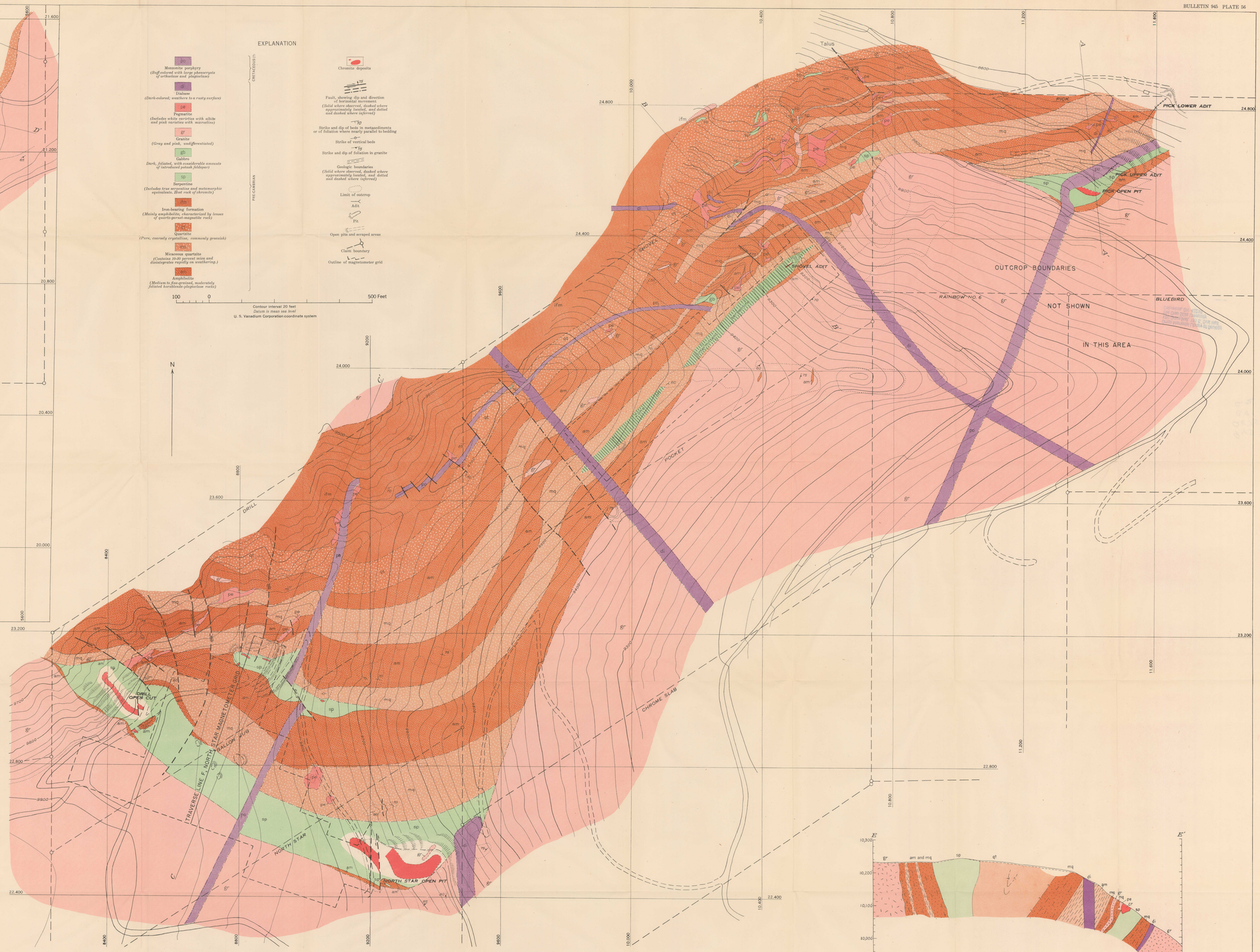
- pr — Monzonite porphyry (Buff-colored with large phenocrysts of orthoclase and plagioclase)
- di — Diabase (Dark-colored; weathers to a rusty surface)
- pe — Pegmatite (Includes white varieties with albite and pink varieties with microcline)
- gr — Granite (Gray and pink, undifferentiated)
- gb — Gabbro (Dark, foliated, with considerable amounts of introduced potash feldspar)
- sp — Serpentine (Includes true serpentine and metamorphic equivalents. Host rock of chromite)
- ifm — Iron-bearing formation (Mainly amphibolite, characterized by lenses of quartz-garnet-magnetite rock)
- qt — Quartzite (Pure, coarsely crystalline, commonly greenish)
- mq — Micaceous quartzite (Contains 20-30 percent mica and disintegrates rapidly on weathering.)
- am — Amphibolite (Medium to fine-grained, moderately foliated hornblende-plagioclase rocks)

PRE-CAMBRIAN

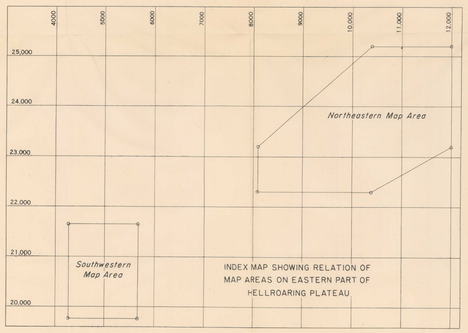
- Chromite deposits
- Fault, showing dip and direction of horizontal movement (Solid where observed, dashed where approximately located, and dotted and dashed where inferred)
- Strike and dip of beds in metasediments or of foliation where nearly parallel to bedding
- Strike of vertical beds
- Strike and dip of foliation in granite
- Geologic boundaries (Solid where observed, dashed where approximately located, and dotted and dashed where inferred)
- Limit of outcrop
- Adit
- Pit
- Open pits and scraped areas
- Claim boundary
- Outline of magnetometer grid

100 0 500 Feet

Contour interval 20 feet
Datum is mean sea level
U. S. Vanadium Corporation coordinate system



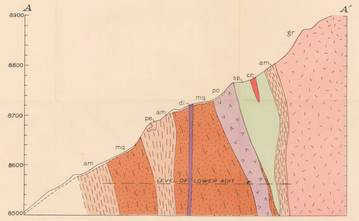
NORTHEASTERN AREA

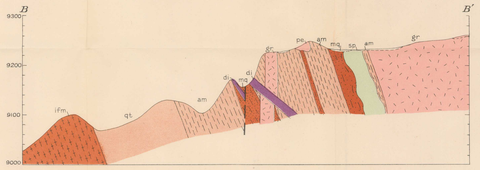


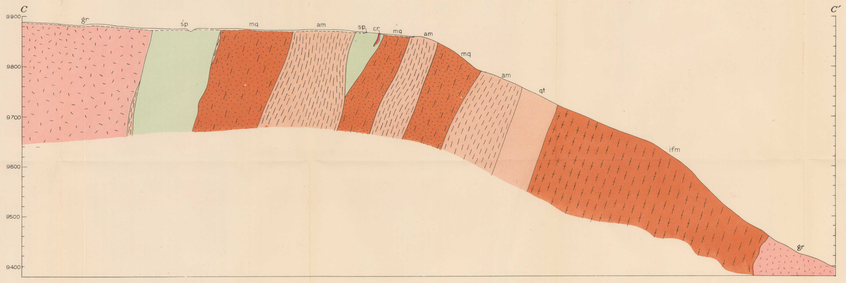
INDEX MAP SHOWING RELATION OF MAP AREAS ON EASTERN PART OF HELLROARING PLATEAU

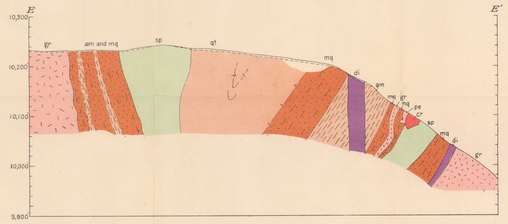
EXPLANATION

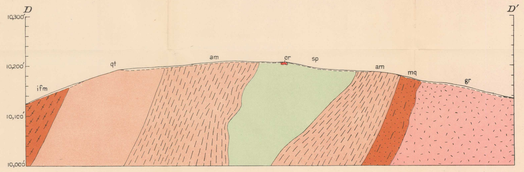
- pr — Monzonite porphyry
- di — Diabase
- pe — Pegmatite
- gr — Granite
- sp — Serpentine
- ifm — Iron formation
- qt — Quartzite
- mq — Micaceous quartzite
- am — Amphibolite
- cr — Chromite deposit











Topography by D. H. Dow and Irvin Gladstone
Surveyed in 1942

GEOLOGIC MAP AND SECTIONS OF PART OF HELLROARING PLATEAU, CARBON COUNTY, MONTANA

Geology by H. L. James