

SEDIMENTARY ROCKS



Alluvium



River gravels



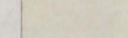
Residual boulders
river gravels silicified



River gravels silicified



Marsh shale



Helena limestone
calcareous-argillaceous



Empire shale
argillaceous-calcareous

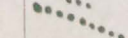


Greyson-Spokane
formations, argillaceous-
arenaceous

IGNEOUS ROCKS



Andesite extrusives of
Little Tricky Pear Creek



Drumhomon
porphyry dikes
younger than batholith



Belmont diorite-porphyry
dikes and sheets



Orthoclase-quartz porphyry
of Piegán Gulch



Aplite



Diorite related to
batholith, slightly basic
and porphyritic phases
marginal to batholith



Quartz diorite of
Marysville batholith



Microdiorite dikes and
sheets of Bald Butte

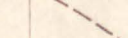


Gabbro or coarse grained
diabase, intrusives

STRUCTURAL FEATURES



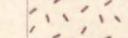
Observed faults



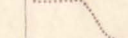
Faults not observed but
structurally necessitated



Quartz veins

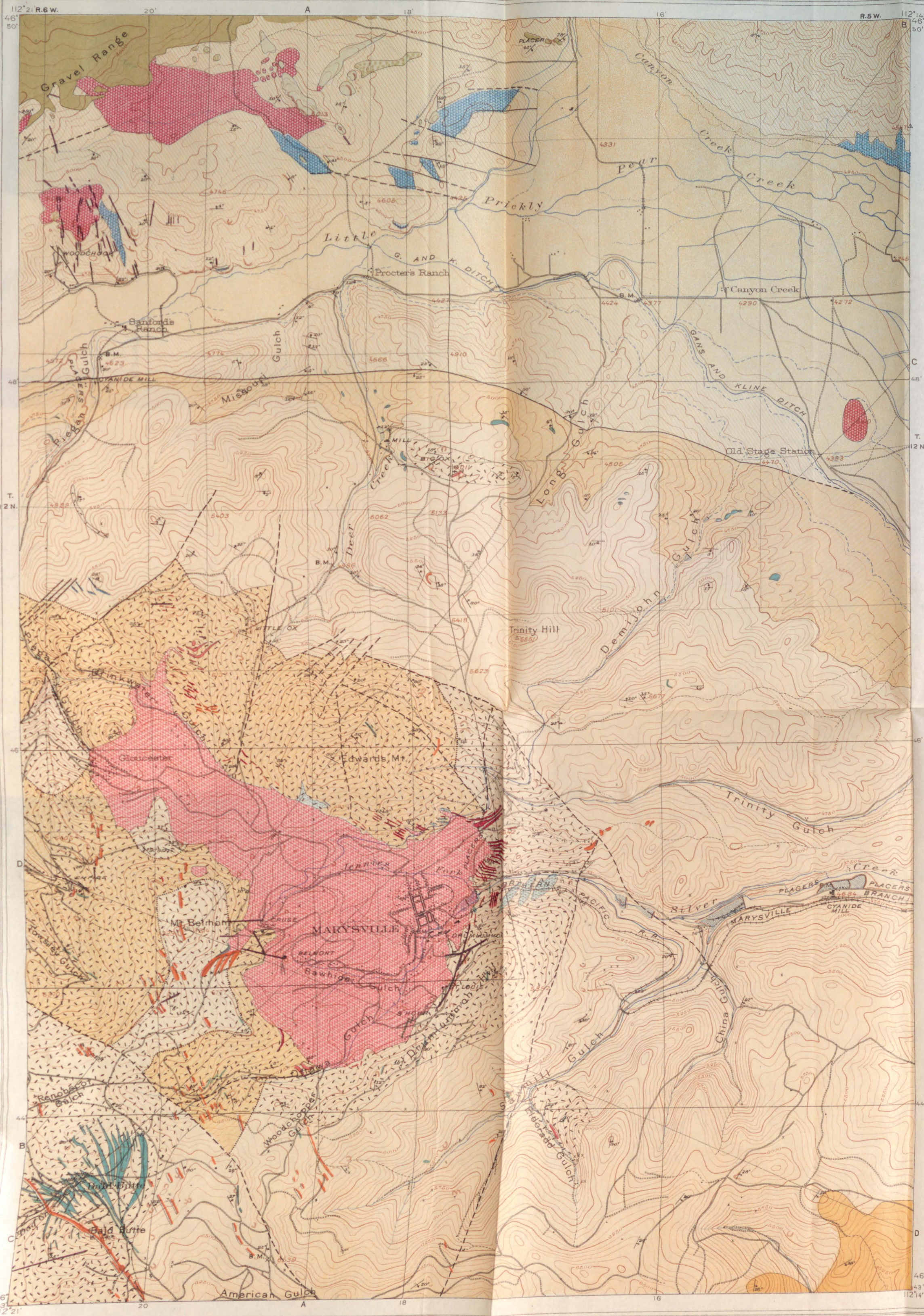


Contact-metamorphic zone



Probable boundary between
Empire and Helena

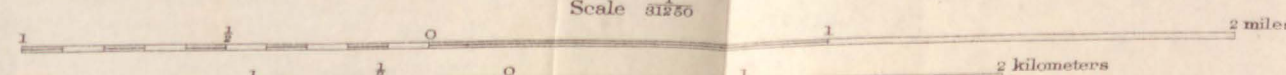
Strike and dip



E. M. Douglas, Geographer.
Triangulation and Topography
by R. H. Chapman
Surveyed in 1899

GEOLOGIC MAP OF THE MARYSVILLE MINING DISTRICT, MONTANA

Walter Harvey Weed, Geologist in charge
Geology by Joseph Barrell



Contour interval 50 feet
Datum is mean sea level
1906