

STRUCTURE SECTIONS

ARIZONA
RAY QUADRANGLE

EXPLANATION
(continued)

IGNEOUS ROCKS

SHEET SYMBOL SECTION SYMBOL

Td Dacite

(Chiefly extensive flow with a like top as basaltic northwestern part of quadrangle)

Tr Rhyolite porphyry

(Rhyolite porphyry dikes west of Troy and Tornado Peaks)

Tqdp Quartz diorite porphyry

(Dikes and small intrusive masses particularly abundant near Troy and Tornado Peaks)

Tgd Grandiorite

(Extensive masses in Troy Basin)

Tgm Teapot Mountain porphyry

(Dikes and irregular intrusive masses of quartz monzonite porphyry near Troy)

Tqd Granite Mountain porphyry

(Irregular intrusive masses of quartz monzonite porphyry near Troy)

Ka Andesite tuff and breccia

(Chiefly consolidated pyroclastic material with sandstoneaceous shales possibly includes some lava flows)

db Diabase

(Typically a medium-grained, light-colored dioritic diorite in color. Irregular with many cross cutting connections, especially in the Mescal limestone)

md Madera diorite

(Quartz-mica diorite, apparently grading locally into granodiorite or quartz monzonite, places granodiorite Troy and Tornado Peaks, and into the final schist of the Final Range)

gr Granite

(Light granite, generally coarse grained, and crystalline with numerous small inclusions of quartz monzonite in the Tornado Range)

Known fault

Probable fault

Concealed fault (covered by younger deposits)

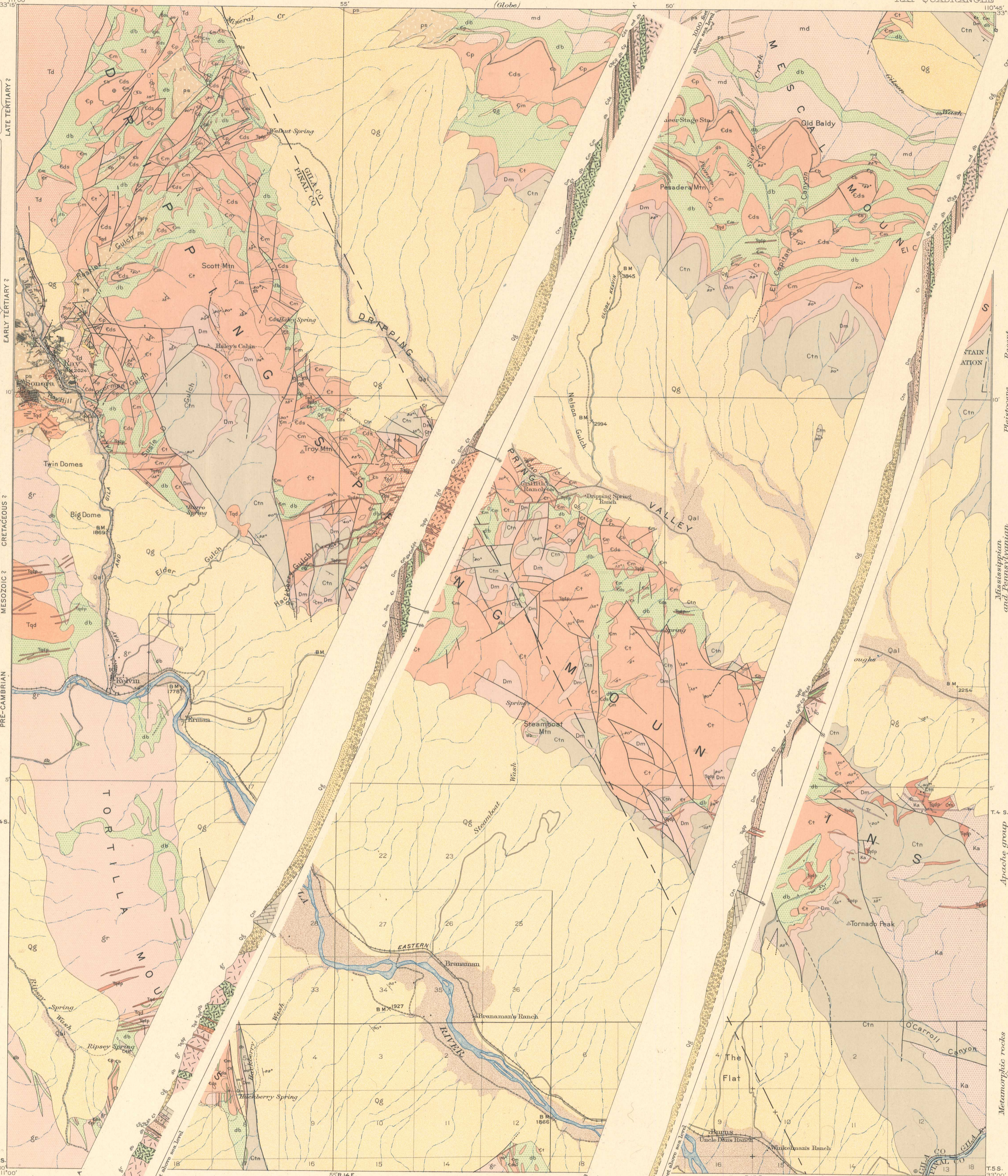
Dip of fault plane

Overthrust side of thrust faults

Strike and dip of stratified rocks

Strike of vertical beds

Horizontal beds



EXPLANATION

SEDIMENTARY ROCKS

SHEET SYMBOL SECTION SYMBOL

Qal Alluvium

(Gravel, sand, and silt along stream and stream ways)

Qg Gila conglomerate

(Fluvial conglomerates, coarse in places near the mountains, grading into fine silt, probably in part lacustrine, in wide valleys; includes some beds of soft sand (see note on map))

UNCONFORMITY

Tw Whitetail conglomerate

(Subangular fragments of diorite and limestone accumulated by streams and glacial wash)

UNCONFORMITY

Ctn Tornado limestone

(Light gray limestone, thick bedded in lower part, thin bedded in upper part. Fossils abundant in upper bed)

Dm Martin limestone

(Thin bedded, yellowish to dark gray, somewhat micaceous limestone, upper part fossiliferous; some yellow argillaceous beds in lower half)

UNCONFORMITY?

Et Troy quartzite

(Coarse bedded, pinkish quartzite, chiefly thick bedded, but thin, flowy beds, marked with worm holes, in upper portion)

Em Mescal limestone

(Thin bedded, white to light brown, with abundant fossiliferous layers of shales, including on support, an overlying flow of volcanic basalt)

Eds Dripping Spring quartzite

(Thin bedded, light-colored and fine-grained, carbonaceous quartzite, much of it bedded dark red and gray)

Eb Barnes conglomerate

(Coarse, well rounded, quartzite pebbles in argillaceous matrix)

Ep Pioneer shale

(Dark, reddish-brown, spotted with yellow argillaceous shales, grading into argillaceous quartzite at base, including a support, underlying thin bedded argillaceous material)

GREAT UNCONFORMITY

ps Final schist

(Chiefly fine grained quartz schist, metamorphosed fine grained schist, including quartzite and mica schist, and a little argillaceous material)

Metamorphic rocks

Exploration is continued on the left margin.

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Topography by Pearson Chapman, C. F. Eberly,
and reduced from map of Ray and vicinity.
Control by T. M. Bannon and Thos. Winsor.
Surveyed in 1907-1908.

Scale 82500
Miles
Kilometers
Edition of Oct. 1922

Geology by F. L. Ransome
and J. B. Umpleby.
Surveyed in 1910 and 1911.