

EXPLANATION

Veins of pyritic gold type
Includes some veins of composite type

Veins of lead-zinc-silver type
Includes some veins of composite type

Veins with tellurides

Veins with fluorite (marked only in Jamestown district), or with fluorite and
energite (marked only in Central City-Idaho Springs district)

Veins with tungsten

Veins with copper
Generally of pyritic gold type
(except in Argentine and Montezuma
districts where symbol refers to
veins containing abundant gray copper
minerals, commonly argentiferous)

Veins of pyritic gold type with silver
(marked only in Empire and Ward districts)

Veins of unknown type
Generally equivalent to pyritic veins,
or to dominant type in a given district

Deposits of disseminated metallic minerals

Radioactivity equivalent to 0.10 percent eu or higher,
or visible uranium-bearing minerals

Radioactivity equivalent to 0.02 to 0.09 percent eu

Dumps or workings examined, but radioactivity less than 0.02 percent eu
(not shown in Central City-Idaho Springs, Gold Hill, and Boulder County
Tungsten districts, or in the Freeland-Lamartine area)

Areas inferred to be favorable for pitchblende

Veins of composite type are those containing minerals characteristic of the pyritic
gold ores with late minerals characteristic of the lead-zinc-silver ores
(Bastin and Hill, 1917, p. 112).

Base map from Lovering and Goddard, 1950, plate 3.

Data on vein types compiled from Lovering and Goddard (1950), Ransome (1911),
Lovering (1932, 1934, 1935, and 1941), Sauri, Garrey, and Ball (1908), Bastin and Hill
(1917), Lindgren (1907), Wilkerson (1939a and 1939b), Tweto (1947), Worcester (1921),
Goddard (1935, 1940, and 1946), and Lovering and Tweto (1953).

Data on radioactivity from Harrison and Leonard (1952), King, Leonard, Moore, and Pierson
(1953), Wells and Harrison (1954), and personal communications with Altmeyer, Baker, Campbell,
Cavender, Dings, Drake, Harder, Harrison, Johnson, Kaiser, King, Moench, Moore, Phair, Roseboom, Schaffer,
Sims, Smith, Tweto, Wilmarth, and Wyatt.

Symbols shown only at
end of vein indicate
local or subordinate con-
centrations of metal;
position of symbol
generally has no geo-
graphic significance

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(1917), Lindgren (1907), Wilkerson (1939a and 1939b), Tweto (1947), Worcester (1921),
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Cavender, Dings, Drake, Harder, Harrison, Johnson, Kaiser, King, Moench, Moore, Phair, Roseboom, Schaffer,
Sims, Smith, Tweto, Wilmarth, and Wyatt.

FIGURE 1.-MAP OF FRONT RANGE MINERAL BELT, COLORADO, SHOWING ZONING OF
MINERAL DEPOSITS AND AREAS INFERRED TO BE FAVORABLE FOR PITCHBLLENDE