U.S. GEOLOGICAL SURVEY LIBRARY DENVER APR 15 1966

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
OPEN FILE. 1966
Mines and prospects, Idaho Springs district, Clear Creek and Gilpin Counties, Colo., by R. H. Mamon and A. A. Drake, Jr.

PLEASE REPLACE IN POCKET
IN BACK OF BOUND VOLUME

5½ in quartz, pyrite, secondary copper sulfate, rock altered 5 in. above, 4 in below

Specie Payment ve

3½ in quartz pyrite, rock altered ... l ft either side; inner 4 in of altered rock has disseminated pyrite and much secondary copper sulfate

All veins are ½ to 2 in quartz, pyrite, up to 2 in altered rock either side

VEIN B
Veins are 1 to 5 in galena and sphalerite cutting about 6 in. fine-grained quartz and pyrite; rock weakly altered where cut by galena, sphalerite veins alone; much secondary copper sulfate

1 in sphalerite, galena, 4 in altered rock either side

Stoped above, 75 ft

All veins ½ to 2 in quartz, pyrite, up to 2 in altered rock either side

VEIN A
All of vein exposed in drift is about ½ in. galena, sphalerite, plus 2 to 6 in altered rock on either side

1 in pyrite plus 3 in altered rock either side, secondary copper sulfate

All veins less than ½ in quartz, pyrite

Bald Eagle vein

All veins less than ½ in quartz, pyrite

Portal Altitude 8710 ft

Laguea

Laguea

N

EXPLANATION

Quartz monzonite porphyry (TERTIARY)	Plunge of minor anticline
Pegmatite (PRECAMBRIAN)	Plunge of minor drag fold
Amphibolite (PRECAMBRIAN)	Strike and dip of foliation
Microcline-quartz-plagioclase-biotite gneiss (PRECAMBRIAN)	Horizontal foliation
Biotite schist Interlayered with pegmatite and amphibolite (PRECAMBRIAN)	Strike and dip of foliation, and plunge of lineation
ORDER MAY NOT REFLECT AGE	Barren fracture, showing dip
Contact *Dashed where inferred*	Vein, showing dip *Dashed where inferred*
Monoclines, showing trace of axial plane; short arrow indicates steep limb *Dashed where inferred or approximately located*	Vertical vein
	Disseminated sulfides
	Shaft going above and below level
	Head of raise or winze
	Caved workings

Geology by R. H. Mamon and J. R. McDonald, June 1964

FIGURE 80.--GEOLOGIC MAP OF THE TWO BROTHERS TUNNEL (E-II, 8, FIG1)

100 0 100 200 Feet

Datum is mean sea level