CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

The following file is part of the Grover Heinrichs Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

Rosebud Mine (Silver Gulch M & MCo)

Dunton, Dolores Co., Colo.

Lone Cone Mining Distr. 9 mi. W of Rico.

El. 10 000'. 6 mi. from Dunton.

See Manager's Reports for Aug; Sept, Oct, 1921. Maps & Sections. See orig. survey & assay notes appended.

Geology: Country rock Dolores Formation, fine-grained ss to medium coarse congl. ~~Iron cemen~~ Cementing material silica, hematite & calcite, in order named. Flat-lying, gentle southerly dip (15°) ~~Many~~ Comparitively few fissures or faults. Prevailing strike of these N-S. Deps of sulfur on cañon walls from these fissures common. Many of these fissures make H_2S & CO_2 in the cañon bottoms. Ls beds, 500-1000' above Rosebud workings.

Rosebud Vein - Strike N 3° W av. Prevailing dip 85° E. Walls well-defined

both width of vein varies from 6" to 6'.
Little evidence of any great fault movement.
Vein filling chiefly crushed ss, often crushed to fine clay-like gouge. SS horses common, with very soft go. around them. Banded rhodochrosite sometimes occurs, often near center of vein. Qtz stringers & masses common, but seldom forming a large % of the vein filling. Ore occurs in the rhodo & qtz stringers & nodules. Walls characteristically leached white in places for 10' either side of vein. Go. occurs on either wall, but not consistently. Water working down walls causes incessant caving by softening the go. cementing material around the horses. Conglomerate pebbles in walls sometimes sheared by ~~vein~~ fissure movement, sometimes left protruding.

Vein minerals - Sugary qtz; micro-cryst. rosy qtz; ditto black qtz.; qtz hex. crystals lining vugs in sugary qtz; & small sub-fissures

Rhodochrosite - Banded in thin bands; in masses & stringers; flat crystalline faces.

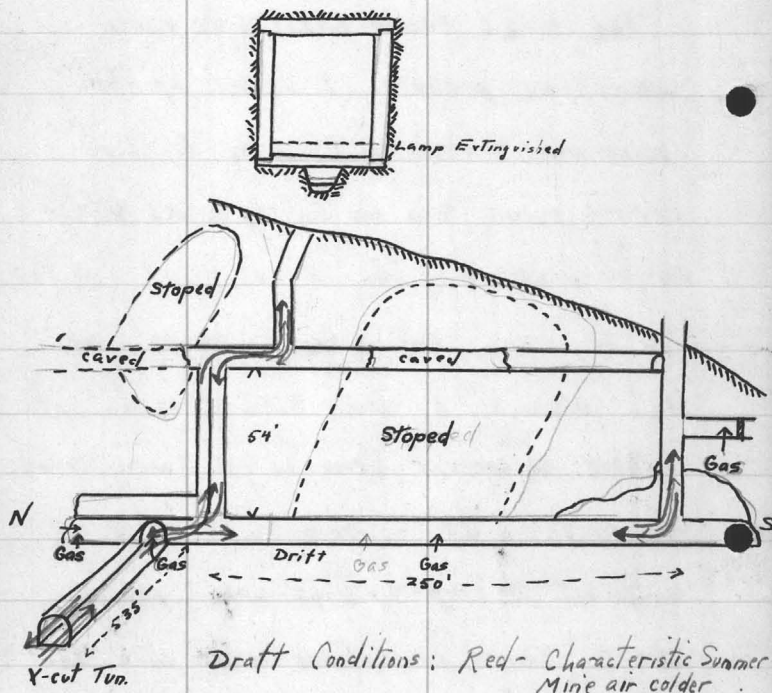
Calcite - In small stringers. Not common.

Pyrite - As fine cubical crystals clustered in qz., scattered thro qtz. filling & ss horses, ~~in~~ in the ~~coun~~ walls, & for a short distance into the country. One spec., showing pyrite cubes up to 1/4", in rosy qtz matrix, found on prospect Tunnel dump, near N end-line, Rosebud claim.

Mineralization of Wall Rocks: Observable in N°3 X-cut tunnel at intersection with vein. The ss is white on fresh exposure, but oxidizes red in air; remains white however in vicinity of vein; walls are always white. Pyrite dissem. ~~thru~~ along small bedding & fracture planes near vein; surficial calcite stalactites on roof of X-cut tunnel near vein.

The Gas: Fissure makes CO_2 under considerable pressure. It bubbles up thru mine water & ooze on floor of drift in several places, & is emitted by cracks & fissures in the face, N of the X-cut, & at + in the HW at the X-cut. CO_2 is acc. by some H_2S, evidenced by smell & effect on the eyes. Where no air current clears the gas away, enough is made in 50' of vein to make work difficult or impossible. Gas hangs low in drift, tends to follow water in ditch. Appears to corrode rails; rails left above mud 1 year badly eaten; those buried in mud intact. Silvery-Black scum char. of H_2S forms on stagnant water.

In intermediate drainage Tunnel (See Report for Aug.) gas extinguishes lamp 6" above caps. Follows water in ditch.



Draft Conditions: Red - Characteristic Summer Mine air colder.

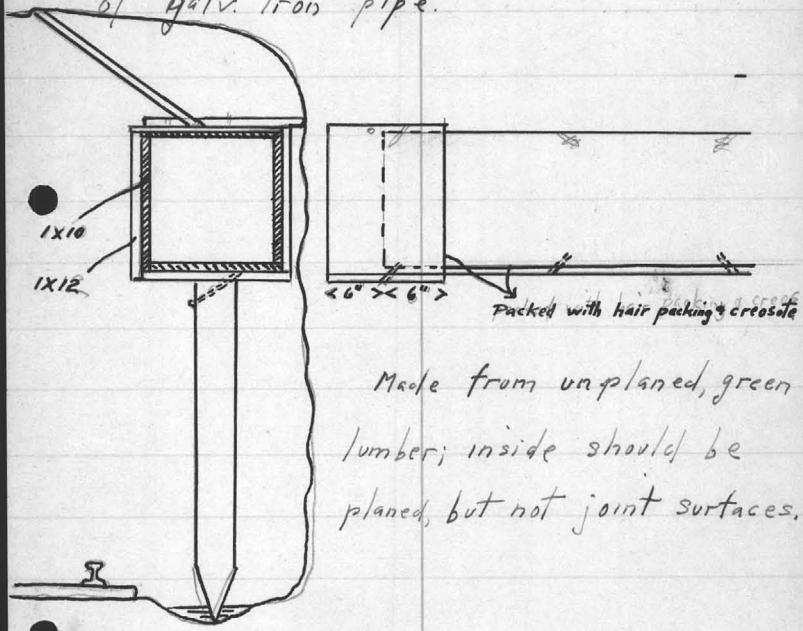
Blue Characteristic Winter Mine air warmer.

Working conditions are best under summer conditions; changes in draft occur however even in the summer; cloudy day etc. Diff. in temp., v.g.t surface must be appreciable.

Mech. Ventilation

Suction & Blowing.

Suction – To remove heavy CO_2 from bottom of drift. Wooden pipe designed for this; also used in X-cut due to lack of galv. iron pipe.



Made from unplaned, green lumber; inside should be planed, but not joint surfaces.