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Guadalupe Sp
Rio Grande Co., Colo

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Notes ON JASPER DISTRICT

BY Albert G. Wolf.

RIO GRANDE COUNTY, COLORADO

GUADALUPE GROUP

COLORADO SCHOOL OF MINES
GOLDEN, COLORADO

BC-392

LOCATION:-- At Jasper, thirty-three miles southwest of Monte Vista, Rio Grande County, Colorado, in the Decatur Mining District. Elevation 9300 Feet

EXTENT:-- Five claims; Hardware, Tinware, Pokehagan, Guadalupe and Keystone. Three of these are less than full claims.

TITLE AND OWNERSHIP:-- United States Patent, Owned by Alva Adams, of Pueblo, 1/4; Pascal Craig, Cripple Creek, 1/4; G. G. Calkins, Chicago, 1/2.

GEOLOGY:-- The group lies on the northern slope of Cornwall Mountain, the major portion of which, to the north and east at least, is latite, an intermediate rock between granite and diorite, and showing angular inclusions of andesite of various sizes. At the foot of Cornwall Mountain, on the south side of the Alamosa River, is a considerable area of diorite porphyry or monzonite. This is probably a dyke. Twelve or fifteen hundred feet west of the Guadalupe tunnel, the latite gives place to an almost black colored andesite. The contact between these two rocks extends in a northeasterly and southwesterly direction. Cornwall Mountain is capped with basalt.

VEIN SYSTEM AND CHARACTER OF ORE:-- Cornwall Mountain is traversed for a distance of two thousand feet or more by a system of parallel quartz veins striking North 55° to 60° West, and dipping about 65° to the South. Two of these veins, the Guadalupe and the King or Tip Top, about 3000 feet apart, are of considerable size. Between these two veins are several narrow veins of apparently no value at the surface as but little work has been done upon them. The King vein had been opened by cuts and shafts along its outcrop. Most of these have caved in, and a light snowfall prevented a satisfactory inspection of this vein or the smaller veins mentioned. Two other small quartz veins are cut by the Guadalupe tunnel, before the Guadalupe vein is reached, at distances of 230 feet and 370 feet from the portal. These two veins show little pyrite.

The Guadalupe vein has been cut, but not entirely crosscut, by the tunnel at a distance of 555 feet from the portal. From the tunnel drifts have been run each way for about 100 feet either in or near the foot wall of the vein. From the west drift crosscuts of about 15 feet in length have been run from the 50 and 100-foot points. On the east side, two crosscuts have been driven into the vein for about the same distance and one crosscut into the foot-wall.

On the foot-wall is considerable gouge. The foot-wall portion of the vein is a milky white quartz, badly broken up and showing almost no sulphide minerals, except a little pyrite. Farther in the vein, towards the hanging-wall, the white quartz is streaked with quartz of a dark bluish color and sulphides of iron, zinc, lead and copper are present. Of these, lead and zinc seem to predominate and occur in separate bunches. Nowhere does the vein appear to be highly mineralized.

SAMPLING:-- Cut samples G-6 and G-7 were taken across the Hardware and No. 2 veins, the two smaller veins cut by the Guadalupe tunnel, as shown by the sketch. Detailed sampling of the workings on the Guadalupe vein was impossible due to lack of air. A candle would not burn after a distance of 500 feet from the portal was passed. By the aid of carbide lamps, a rapid inspection of these workings was made and three grab samples taken. One of these, G-8X was from the foot-wall quartz showing little sulphide minerals; the other two, G-9 and G-10, from the more highly mineralized material in each of the crosscuts from the west drift. A complete list of samples and assays is appended. (See Sketch).

The Guadalupe vein is also cut by the Guadalupe Apex tunnel, near the eastern end of the Guadalupe claim, at a depth of 15 or 20 feet below the outcrop. The vein here is of the same character of white quartz with a little pyrite. Sample G-1 was taken here across a width of seven feet.

MISER GROUP:-- The miser group adjoins the Guadalupe on the south and west. It consists of 12 claims, six patented and six unpatented and is owned by George Ballentine, Edward O'Brien, of Denver, and Horace J. Moody, of Jasper.

The Miser tunnel, 1600 feet west of the Guadalupe tunnel, has been driven 350 feet in a southerly direction to cut the Guadalupe vein at a depth of possibly 150 feet. It is stated considerable drifting on the vein has been done, but the workings could not be entered on account of caves and bad air. The tunnel is in the andesite area west of the Guadalupe latite.

The ore on the Miser dump looked the same as that of the Guadalupe; quartz with small bunches of pyrite, sphalerite and galena. Sample G-3 is a general grab sample of the Miser ore-dump.

PERRY GROUP:-- Adjoins Guadalupe on the east. Consists of 12 patented claims. Ownership: Alva Adams, 2/5; G. G. Calkins, 2/5; Pascal Craig, 1/5.

Surface geology same as that of Guadalupe.

Workings consist of a shaft on Guadalupe vein, now caved, and a crosscut tunnel which was not driven far enough to cut vein.

BLUE BUTTE:-- This ground consists of 160 acres, held by homestead, about one-half mile west of Jasper and on the opposite side of the river from the Guadalupe group. It is owned by Horace J. Moody and Mrs. Clara Moody.

The country rock is entirely igneous and is cut by large andesite dykes. In places, sulphates, probably of iron and aluminum, have formed on these dykes.

Sample G-4 was taken from a vertical vertical face in an open cut on one of these dykes at a place stated to assay "better than five dollars per ton in gold."

A short distance to the north from the place where G-4 was taken is exposed a formation of dark andesite breccia, strongly impregnated with sulphur. This formation lies in the andesite dyke, is about 12 feet wide and has been opened by a 50-foot tunnel at a depth of 35 or 40 feet below its outcrop. Sample G-5 was taken from the breast of this tunnel and for a distance of 6 feet back.

SINGLE TAX GROUP:-- This group is just northwest of the Blue Butte. It consists of 12 claims, 600 x 1500 feet. Owned by J. P. Voght, 1/6; Thomas Annear, 1/6; William Kunkle, of Romley, 1/6; and Horace Moody and Mrs. Clara Moody, undivided 1/2. Held by assessment.

While a careful examination of this ground could not be made on account of a heavy snowfall, the general geology appears to be the same as that of the Blue Butte, large andesite dykes cutting other igneous rocks.

SENATOR GROUP:-- Lies west of Single Tax group. Fifteen claims. Owners same as above. Similar in every respect to Single Tax group.

GENERAL CONCLUSION:-- While it cannot be said that the Jasper district was thoroughly sampled, enough samples were taken to show the average value of