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PENTLAND SAMPLES

No.	<u>Width of sample</u>	<u>Location</u>	<u>Cu. %</u>
1	15'	800' level - S X-Cut H. Wall	.02
2	15'	" " " " F. Wall	.02
3	15'	" " Center X-Cut H. Wall	.02
4	15'	" " " " F. Wall	.02
5	15'	" " N X-Cut H. Wall	.02
6	15'	" " " F. Wall	.02
7	5'	" " Main X-Cutt	.04
8	7'	500' level - Main X-Cut	1.79
9	6'	" " 15' S. X-Cut	1.30
10	6'	" " 30' S. X-Cut	1.64
11	6'	" " 39' S. X-Cut	.77
14	-	Dump - North - 1st Cut	.14
15	-	" " 2nd Cut	.30
16	-	" from 500 level	.67
17	-	" High Grade Sorted	2.96
18	6'	500' level - 45' S. X-Cut	.97
19	6'	" " - 67' "	.65
20	6'	" " - 81' "	.43
21	6'	" " - 96' "	.37
22	6'	" " -120' "	.39
23	6'	" " - 135' "	.26
24	6'	" " - 150' "	.49
25	6'	" " - 12' N. X-Cut	.47
26	6'	" " - 24' " "	1.62
27	7'	600' Level - 57' S. X-Cut	2.25

	<u>Cu. %</u>
Average 800 level	.02
Average 500 level	.86
Average 500 level dump	.67
Average North dump	.22
Average 15 tons sorted ore	2.96

*Humboldt Mayer* *A*

DISTRICT: Hackberry

NAME: American Eagle Mining Co. Locally known as the Pentland Mine.

OWNERS: Above Company. Sam Hobson, present manager. Former manager and promoter, Mr. F. H. Hobson.

LOCATION: About one mile west of Arizona City, the nearest railroad point on the Prescott Crown King Road.

CLAIMS: Unknown.

DATE VISITED: September 23rd and 24th, 1919.

OBJECT: Report and examination made at request of Mr. Sam Hobson, who considered himself unable to pass on value of property and who desired to know value of ore exposures as he was dissatisfied with management.

GEOLOGY: Property is located in a belt of Yavapai schist consisting of schistose hornblende quartz diorite with some sericitic schist. Strike north 17 degrees east with dip to the east of 80 degrees.

Crystals of pyrite occur in the schistose quartz diorite resulting in a superficial iron stain from oxidation of same. One small silicified belt of sericitic schist occurs about eighty feet west of main shaft, showing at the surface some evidence of oxidation and in depth a small body of oxidized cupriferous pyrite, slightly enriched at the shallow depth attained in the original location shaft, said to run as high as four percent copper. The property was opened on the strength of this small showing.

Except for the small belt stated, there is an absence of silification throughout the entire area and nowhere are there any superficial indications of copperstain common to other properties in the sericitic schist.

Little or no indication of primary cross fracturing can be found in the proximity of present workings, altho two post mineral faults were cut on the 600 foot level.

DEVELOPMENT:

Development consists of a vertical shaft 768 feet in depth with stations cut at the 430 foot level, 600 foot level and 768 foot level. The so called five hundred foot level has been developed by means of cross cuts and drifts as shown on attached map and this work disclosed a body of ore in the drift with a maximum width of thirty six inches and length of one hundred and fifty feet, tho at times there is no indication of mineral since the ore body is irregular and in a distance of twenty feet may vary from three feet in width to nothing.

The development on the 600 foot level as indicated was mostly in the hanging wall of the ore. A small stringer one foot in width shows on the south side of the cross cut west from the shaft, this ore again appears at a point fifty six feet south of the shaft where the width is from four to seven feet of mineralized silicified schist.

Pentland Mine (Cont)

The eight hundred foot level work as shown did not disclose any ore as shown by the attached list of samples altho there is a possibility that they have missed some. Future work on the 800 foot level discloses some ore altho the area remaining to be prospected leaves little room for a body of ore of any size.

In addition to development by drifting and cross-cutting the company has carried on a diamond drilling campaign, consisting of cross cut horizontal holes in both hanging and foot wall. An inspection of the cores from the holes drilled did not show any copper altho there is abundant white iron in some of the cores.

CONCLUSIONS:

(Absence of cross fracturing,  
(Lack of silicification,  
(Absence of any considerable area of superficial leaching as well as copper stain,  
lead to the conclusion that the present workings as well as the surrounding area present a very meager possibility of locating an ore body of any size and I consider the property absolutely worthless both from a standpoint of mineral possibilities and management. This is borne out by the statement of the manager that their mill dumps and various levels assayed approximately four percent copper and by the average value of the following samples:

AMERICAN EAGLE MINE.

January 21, 1927

Addition to report.

Development:

Mr. C. J. Murdock has recently been appointed Mine Superintendent of this property, and has driven a crosscut on the 350 ft. level which tapped the ore shoot formerly sampled on the 500, 600, and 700 ft. levels. This ore body has been drifted on for 35' and Murdock claims an average width of 5' and grade of 3.6% copper, further stating, however, that 12 inches of this material carries 12% copper.

It is Murdock's intention to drift on this ore body about 75' to the south and then to crosscut to the west in order to develop another ore body on which the original location was made and which Murdock considers to be a different ore shoot not yet encountered in the lower levels.

Conclusion:

It is barely possible that the American Eagle Co. will want to make shipments to Humboldt of a small tonnage of this ore for mill tests, which tests considering present grade of the ore will result in profit to only the Consolidated Arizona Smelting Co.

W. V. D.

Humboldt

1-22-20

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