



CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
3550 N. Central Ave, 2nd floor
Phoenix, AZ, 85012
602-771-1601
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

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COPY

*Think this belongs to
friends of Alden in Superior*

BOMBOY PROPERTY

PINAL COUNTY, ARIZONA

LOCATION

The Bomboy property ~~is~~ is two miles west of Hewett siding, on the Magma Railroad. A fair wagon road runs from Hewett to the lower tunnel. The property consists of about 14 claims lying in low hills and the gravel filled valleys between them. The only mineral showing of importance is a hill of Cambrian quartzite a thousand feet in diameter and 150 feet high. The quartzite strikes about North 30 degrees West and dips 30 degrees East. It is cut by a 5 to 10 foot north-south diabase dike, and diabase probably underlies all of the flat covered valley which surrounds the hill. The quartzite is apparently a block floating in the diabase.

OUTCROPS

On the surface, and in shallow open cuts, the quartzite is copper stained along the diabase dike. Thirty or forty feet south-west of this outcrop a bed of quartzite four or five feet wide is iron stained, with some form of limonite.

DEVELOPMENT

Two tunnels have been run to develop the Bomboy property. The upper tunnel, which is about 100 feet long, cuts the diabase in the tunnel itself and in a short crosscut from the end of it. The quartzite near the dike is copper stained about as it is on the surface, but there is no ore.

The lower tunnel is about 100 feet vertically deeper, and is 285 feet long southeast from the portal. The diabase dike was cut at 75 feet from the portal. There is only a little iron and copper

staining along it. The rest of the tunnel cut quartzite. A few feet from the face there is a narrow copper stained seam striking North 25 degrees East, dipping 45 degrees East. This was drifted on to the southwest for 70 feet. It soon expanded into a vein of copper silicate and carbonate ore from 3 to 5 feet wide. About 40 feet from the start of the drift there are narrow bands of similar ore in the footwall, one following a steep northwest dipping fracture and one following the quartzite bedding, at the end of the drift the northeast vein bends sharply around to the southeast, dipping 30 degrees northwest, practically with the quartzite bedding. At this point, in the face and back of the drift, there is 5 to 6 feet of ore which assays about 5% copper. This bedded vein in the face is about down the dip from the iron stained bedded vein on the surface, described above.

In the northeast vein and in the bedded northwest vein into which it turns there is developed a body of very silicious 5% copper ore averaging about 4 to 5 feet wide for a length of 50 feet. There is also a little lower grade material. The ore is said to average a bout 2 ounces silver per ton.

POSSIBLE EXTENSIONS OF ORE BODY

This ore body is likely to extend southeast or south for a considerable distance, possibly several hundred feet. Up the dip it should extend for about 100 feet, nearly to the surface. Down the dip there is a good chance it will extend to the diabase contact, which may be struck within 50 feet. There is a good chance of finding ten thousand tons of 5% ore in the quartzite.

There is nothing to indicate what will happen when the hits the underlying diabase. There may be great faulting along the contact,

so that deeper continuation of the vein would be hopelessly lost. Or the vein may continue down into the diabase and contain very valuable orebodies. It is well worth while to sink to the contact to prove this possibility.

TREATMENT AND COSTS

This is a very desirable fluxing ore for the Hayden Smelter, and a tentative offer of a \$1.00 treatment charge has been made. Based on this the returns should be as follows:

COSTS

Mining and development	\$5.00 per ton
Hauling and freight	1.75 " "
Treatment	<u>1.00</u>
Total Costs	\$7.75

PAYMENT

Pay for 90% of 100 lbs. Cu at 14¢ less 2¢	\$10.80
Pay for 95% of 2 oz. silver at 70¢	<u>1.33</u>
Total payments	12.13
Probable Operating Profit	\$4.38 per ton

CONCLUSION

There is enough ore in sight in the Bombay prospect to pay the expense of sinking a winze to the contact. If the vein goes down into the diabase it will be a very valuable mine. Therefore if a long lease or an option can be secured, I recommend three or four thousand dollars for equipment and sinking a winze on the ore to the diabase contact. Meanwhile the ore above the tunnel should be developed and shipped, making the shipments carry the expense of sinking. Under these conditions I think the development of the Bombay prospect a good gamble.

January 22, 1926

(Signed) Ira B. Jarolemon

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