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Item 35

AMERICAN

ZINC CO.,

WALTER G.

SWART FILES

NEVADA

FOLDER 346

MONTGOMERY-SHOSHONE

RHYOLITE

NEVADA

N.Y.C.

May 7, 1909. With C. A. Busch and E. B. Kirby I visited the Montgomery-Shoshone Mine & Mill today. Met John G. Keehan Mgr who showed us the Glory Hole from which most of the ore is now coming - a large open cut perhaps 120 x 40 extending down, so they say, to the 200' level. It lies to the S.E. of a basalt dike carrying a fault between two rhyolites (See U.S. Geol Surv. Bulletin No 303 preliminary report on Goldfield, Nev 1907, page 57). From the basalt several fissures extend into the rhyolite to the S. In these fissures the rhyolite is much altered, kaolinized + silicified, and also mineralized. The mineralization consists of iron-manganese oxides + a little fine pyrite together with silver chloride. The alteration becomes less marked as you go back from the fissures until the ore becomes too low grade to pay. The alteration and the gold + silver values do not always coincide, some much altered & promising looking stuff carrying little or no value. As Chas. Adams, the mine foreman (a Caltech School of Mines man) said "A man can take a big sample with one hand & find a \$50.00 sample with the other in the same place". In other words it is banded and spottet. The ore now being mined + milled goes \$9.00 to \$10.00. The basalt is barren. Much of the ground near the basalt is also barren.

The main working shaft is 700' deep with levels every 100' equipped with a 2 compartment cage outfit. It is in good shape. There is no water, hence no pumps.

Electric power from California-Nevada Power Co. at Bishop Creek. Could not get rates, but Dr. Techow, the mill Sup't told me he could make power cheaper with oil at \$1.65 per barrel laid down - the present price using compound condensing engines.

I went thru all the underground workings except the 200' level, which Adams told me lies like the 500' level. The bottom of the vein is pretty well worked out. The ore is much narrower than along the fault at the top, there is nothing corresponding to the glory hole down there as yet, and just 100' the ad. levels 200'. It stopped, at least along the main fault. They have spent lots of money on drifts, cross-cuts, raises etc., hunting for ore, but the big ore now exposed is above the 200' level. Other vein is coming from 300' + 400' levels.

When the Glory Hole is worked out down to 200' then they will undoubtedly perfect the ground under it more thoroughly.

Mining costs for April were \$2.22 per ton, including fixed charges etc. The ground is soft breaks easily + requires almost no timber. Show drills are used largely with one or two larger woods drills.

The mill is well worth seeing. The ore is crushed in solution added at the rolls + crusher. The crusher is a Beake, 19 x 24" running 250 r.p.m. Driven by Taylor Rolls trams + elevators. Two classifiers separate sand from slime. Sands go to low flume, planes to tanks taking out a high grade concentrate about 100 to 1. Sands go to collecting tanks then to Blandell distributor then leached. Tanks about 6 ft deep. Solutions 5 lbs Cyanide loss 1.5 lbs. Slimes go to agitator + decantation tank then to Batters filter. There is a Chile mill at work reducing this to Tyler shot-wire screen to about 35-40 mesh. Another is being installed. Blandell extractor dumps tanks on belt conveyor to dump.

Capacity about 200 to 275 tons daily.

Extraction about 90% of gold

10 oz silver to each ounce gold

Bullion sent to Selby. Refining charges about \$125 per month.

The concentrates are put in a tube mill, ground to slime, agitated + filtered. Average concentration about 600 per ton. Cyanided down to a \$7.50 tailing. Claim 97% extraction.

Milling costs for April were \$2.12 including fixed charges. Mill is in charge of Mr. Walter Techors. Mr. Reckon is Ass't.

Cyanide costs 7¢ per lb. 127. Sodium Cyanide is used 106 lbs lime per ton is used, both for correcting acidity and hastening decantation.

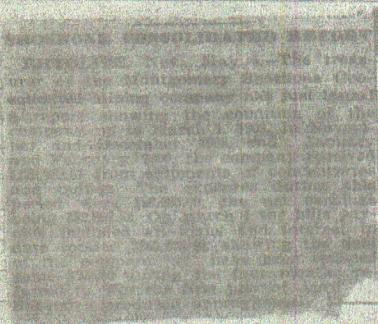
They are using a wooden strip (like Moore's scheme) in the Batters filter leaves. Much better leaves leaves have to be treated with acid every 3 weeks.

No acid is used in the clean-up. The short zone is jiggled by hand + all oversize put back in the find boxes. Bullion is fairly clean.

Lifting, oil burning, melting furnace is used.

5100 tons treated in April. But for necessary shut downs, 6000 tons would have been handled.

The Reeve Variable Speed transmission is used on the distributor + works well. Took this up.



File Under A. F. Holden
Subject Nevada Lead (Bosch)

Denver, Colo., Sept. 28, 1909.

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Mr. A. F. Holden,
Cleveland, Ohio.

Dear Mr. Holden,

In August I received from a friend in Phyllite, Nevada, samples of material coming from over in Death Valley. These samples assayed, as follows:

	Gold	Silver	Lead	Zinc
#1	0.24	34.80	55.10	4.00
#2	0.08	27.10	72.00	0.30

They are carbonate ores, and within probable hauling distance of railroad. The owner is in Denver for a few weeks, and tells me there is enough of the ore to make it worth while. He has mined long enough to know what he is talking about, but Death Valley may have the same effect on Nevadans as Hossayampa River water does on Arizonians.

Anyway, I thought this might especially interest Godshall as a possible source of lead ore. I did not write him because I do not know how the deal stands. He called me up on the telephone when he passed through Denver recently, saying the deal was closed, but I have heard nothing of it from our side of the fence. If Godshall is entitled to this information let me know, and I will send full particulars, so he can investigate if he wants to. If it is a Salt Lake matter I will send it wherever you may direct.

Yours very truly,

W. G. SWART.

A. F. HOLDEN,
PLAIN DEALER BLDG.,
CLEVELAND, O.

COPY.

No date

Subject

For

File under

*A. F. Holden
Bush*

October 1, 1909.

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Mr. A. E. Clark,
25 Congress St.,
Boston.

Dear Ned:-

I am just in receipt of the enclosed letter of September 28th from Mr. Smart. I suppose that this is probably a small mine and not one that we would be interested in. I would suggest your having Smart get additional details if he can get them concerning the probable tonnage, what the mine is, etc.

Truly Yours,

A. F. H.

C. G. Smart