

CERRO DE PASCO COPPER CORPORATION

40 WALL STREET, NEW YORK

June 23, 1941

Dr. L. Szilard,
Dept. of Physics,
Columbia University,
New York, New York.

Dear Sir:-

Bismuth

As per your telephone request of this date, we herewith submit a typical analysis of our refined bismuth:

| <u>% Ag.</u> | <u>% Cu.</u> | <u>% Sb.</u> | <u>% Pb.</u> | <u>% As.</u> | <u>% Zn.</u> | <u>% Fe.</u> |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| .0004 | .0002 | nil | .0005 | nil | .0001 | .0001 |

By selection, we can pick lots which will assay as follows:-

| <u>% Ag.</u> | <u>% Cu.</u> | <u>% Sb.</u> | <u>% Pb.</u> | <u>% As.</u> | <u>% Zn.</u> | <u>% Fe.</u> |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| .0000 | .0001 | nil | .0001 | nil | .0001 | .0001 |

The silver assay of such a selected lot would be of the order of .01 oz. per ton of .00003%.

Our present quotation for 100 lbs. of selected low silver bismuth from regular production is \$1.25 per pound, F.O.B. New York.

We can reduce the silver content of selected lots of bismuth to say .0008 oz. per ton of .000002% by a three or four stage crystallization. This operation also will reduce the copper, lead and zinc content of the resulting bismuth well below the figures listed above.

The cost of this specially purified bismuth will be about \$2.50 per lb. F.O.B. New York.

We have on hand a few pounds of bismuth having a bismuth content of 99.9999 plus % in which only spectroscopic traces of silver, copper and lead can be detected. This

Inspected L.H.

Dr. L. Szilard,
Columbia University

June 23rd, 1941

spectroscopic grade bismuth is priced at 10 cents per gram.

We hope the selected bismuth will meet your requirements.

Yours very truly,
CERRO DE PASCO COPPER CORPORATION

W. C. Seibel

Metallurgist.

WCS:D

July 7, 1941

Mr. W. C. Smith,
Cerro de Pasco Copper Corporation,
40 Wall Street,
New York, N. Y.

Dear Mr. Smith:

Many thanks for your kind letter of June 23d. I wonder whether you could let me have a sample of 65 pounds of selected low silver bismuth from your regular production, for which you quote a price of \$1.25 per pound fob New York. I am enclosing an order from Columbia University for the amount of 65 pounds of bismuth.

I am rather anxious to have this sample within this week. If the work involved in picking lots by selection for low silver content would prevent delivery by next Monday at the latest, then I would ask you to have sent in any case by Monday next the best sample of 65 pounds of bismuth which you happen to have in stock.

I hope that it will be possible for us to place within a month an order for 500 to 1000 pounds of this material.

Thanking you for the attention which you are giving to this matter, and for the information conveyed in your letter of June 23d, I am

Very truly yours,

L. S.

(Leo Szilard)

LS:1
Encl.

copied 7-11-41 LH

CERRO DE PASCO COPPER CORPORATION

40 WALL STREET, NEW YORK

WCS/VB

July 8, 1941

Columbia University,
Morningside Heights,
New York, N.Y.

Dear Mr. Szilard:- Attention Mr. Leo Szilard, Dept.
of Physics


We thank you for your order of July 7th for 65 pounds
of low silver, refined bismuth.

This material is being shipped to you by the Belmont
Smelting & Refining Works, #330 Belmont Avenue, Brooklyn, N.Y.
and will be invoiced to you by them, as they are our agents in
New York City.

The 65 pounds will be taken from Case No. 19920, which
our records show contains less than .0000% silver.

Yours very truly,

CERRO DE PASCO COPPER CORPORATION


Metallurgist