

## Inexpensive Method of Treatment.

**Gold Values Successfully Extracted by the Bromo-Cyanide Process.**

(COPY)

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REPRESENTING SULMAN-TEED  
BROMO-CYANIDE PROCESS  
FOR GOLD ORE TREATMENT.

CABLE ADDRESS—MAZE—HALIFAX.  
BEDFORD-McNEILL MINING COOK.

HALIFAX, CANADA, JUNE 8, 1908.

**RICHFIELD MINING COMPANY, LIMITED,**  
Halifax, Canada.

GENTLEMEN :—The samples which you sent me from your mines at Cheticamp were duly sampled and assayed by me in duplicate. I find the average of these two assays was \$55.00 per ton of gold.

I also find that the ore can be concentrated, and the samples received contained from 19 to 20 per cent. of concentrates, which would enable you to reduce by four-fifths the bulk of the ore, should you decide to ship your concentrates. The concentrates are chiefly composed of mispickel (arseno-pyrite) and can be treated by bromo-cyanide. The arsenic can be recovered on the same lines which are followed at Deloro, Hastings County, Ont.

The samples received contained only traces of copper, and should you not find any ore shoots richer in copper, there would be no difficulty in bromo-cyaniding the whole product. Should, however, the copper contents become so high as to necessitate the saving of copper, roasting before gold extraction should be followed, arsenic being thus recovered first, and according to copper contents, the residue could be either chlorinated or smelted.

You therefore will have a choice of processes, all of which to-day are in successful operation, but until your copper contents increase materially, the bromo-cyanide treatment seems to me to be the only available process, and judging from my experiments with your ores you should obtain an extraction of about 90 per cent. of the entire gold contents, and 95 per cent. of the arsenic.

Yours respectfully,

(Sgd.) CHARLES D. MAZE.