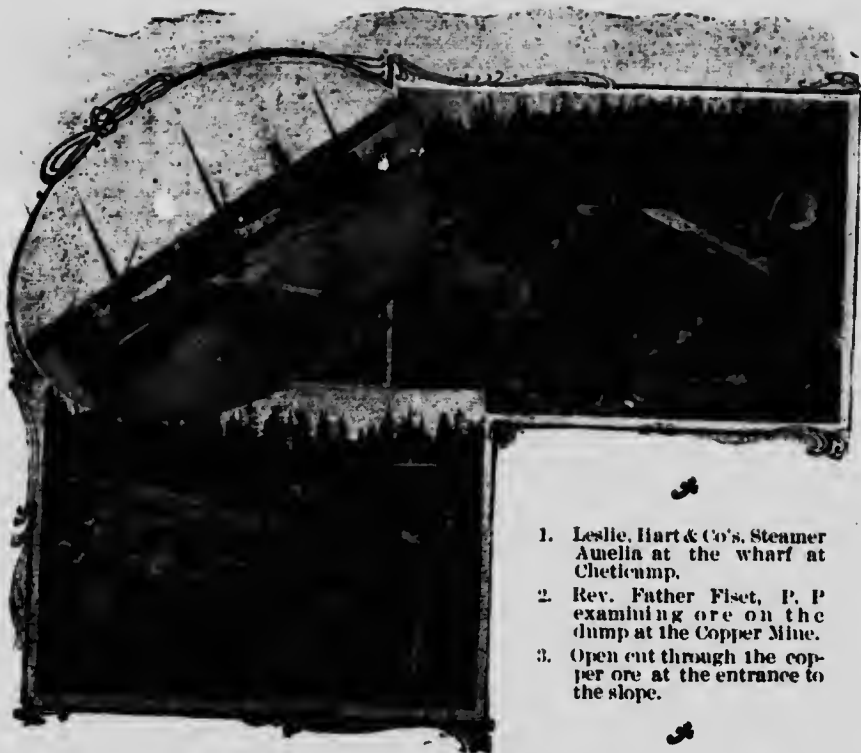




1. Leslie, Hart & Co's. Steamer Amelia at the wharf at Cheticamp.
2. Rev. Father Fliset, P. P. examining ore on the dump at the Copper Mine.
3. Open cut through the copper ore at the entrance to the slope.

Concentration Tests—The concentrating character of the ore was tested by the Canadian Ore Concentration, Limited, (Elmore Oil process) Rossland B. C. Two lots were sent. The rock chosen for the purpose was weathered and part of its metallic contents leached out and the results are therefore better than if rich unaltered sulphides were taken from a depth, as oil acts best on unweathered rock. Seven tests were made with the first lot saving as high as 94.4 p. c. of the copper, 84 p. c. of the silver and 82 p. c. of the gold in different tests. In test "No. 172" a high saving of about 82 p. c. of the total values was effected. The ratio of ore to concentrates was 13 to 1. Mr. H. Hayman Claudet (Asso. Inst. M. M., Mem. Am. Inst., M. E.) technical representative of the Ore Concentration Co., who made the tests, states in his report that "your ore seems very suitable for our process" and in referring to Test No. 172. he says "I am confident that in practice we would better this".

The full report on the second lot of ore has not yet been received. In preliminary communications under recent dates Mr. Claudet says "one sample assaying 5.36 p. c. copper gave a high concentration. I did "not assay for gold and silver, but will do so later on. The result of the concentration test was very satisfactory."

He also writes:—"The working costs of an Elmore Plant, i.e., just the oil plant, exclusive of milling, will be 75 to 80 cents per ton, including loss of oil and royalty, with you I am sure you could figure on a considerable reduction. From what I understand the proper treatment would be to put up a small smelter and an Elmore plant, and you would be able to pick out your high grade ore and smelt direct, and your concentrates produced from the oil plant would also be smelted at your own smelter. From your excellent situation you would have every facility for shipping your matte either to New York or Swansea, and the great advantage of having your own smelter would be apparent, as any custom smelter will always make a lot on copper ores. (Concentrates from) similar ore we have tested would be sure to run from 15 p. c. to 20 p. c. copper. Mr. Anderson, who has been in charge of LeRoi mine here and of other properties in the vicinity, and whose stand-