

Wonderful Invention Successful Test of Garretson Pyritic Smelting Furnace at Crofton. Machine Smelts Ore Direct From Mine Without Roasting or Crushing. Problem of Treating Low Grade Mt. Sicker Ores Is Solved.

The test of the Garretson pyritic smelting furnace, made at Crofton on Sunday, was quite as successful as anticipated by the gentlemen interested. It must be remembered that Saturday's trial of the Garretson furnace was not a "show" but a test of the working of the furnace in which the proprietors of the Crofton smelter have only such an interest as all practical metallurgists have in a new process which promises to revolutionize the treatment of ores. The furnace does not require the use of fuel, and the test would have demonstrated an unqualified success had it not been for an unforeseen accident which did not occur in the furnace and for which it was in no way responsible.

The Garretson furnace demonstrated that it could smelt very low grade ores without previous roasting or crushing, with the least possible consumption of fuel, that it could reduce the low grade ore to a very rich matte, and it was on the point of converting the matte into pig copper when the accident referred to intervened. Enough was done, however, to convince all concerned that the furnace is capable of performing all the work claimed for it when it is in perfect running order.

The furnace also did a trick which has been held an impossibility by metallurgists—reduced to matte, without flux, low grade ore very richly impregnated with sulphur. This is an end in itself, and it is the possibility of smelting the low grade ores of Mount Sicker at a fair profit and assures the success of copper mining on Vancouver Island.

The Equimant & Nanaimo company's former City of Nanaimo made a special trip to Crofton on Saturday with a party of gentlemen interested in the Garretson pyritic converting furnace, which has been installed in the Northwestern Smelting and Refining Company's plant. At the head of the party was Mr. J. H. B. Baker, president of the Garretson Pyritic Smelting and Refining Company, and former law partner of H. W. Knox, attorney-at-law, of the City of Nanaimo, who is also president of the Equimant & Nanaimo company.

When Mr. Baggeley and his party arrived at the works, the Garretson furnace was in full blast, so far as the smelting or upper chamber was concerned. Car after car of low grade ore was being dumped into the furnace, which was roaring and vomiting a continuous stream of slag, which fell into the water below. The furnace was in operation for about six hours, and Mr. Baggeley was anxious to see the furnace in operation for a longer period than he had had before. This was done, and for some time work was done in the engine room, the blast was momentarily cut off, and the matte in the bottom of the furnace which would render the furnace useless had it not been for this regrettable occurrence, there is no doubt in the minds of those who understand the furnace, that blister copper would have been produced in due course. As it was, the furnace was in operation for about six hours, and Mr. Baggeley received the matte, which contained 5 per cent of copper, and converted it into a rich matte, which in itself was a great achievement.

The Garretson furnace is a massive, solid affair, the impression of immense strength and power. It is a simple structure, but it is a simple structure of the highest quality, obtained from the best of materials. It is a simple structure, but it is a simple structure of the highest quality, obtained from the best of materials. It is a simple structure, but it is a simple structure of the highest quality, obtained from the best of materials.

W. Macdonald has returned to Ottawa from British Columbia. J. M. Macdonald, the naturalist of the Dominion boundary, who has been in the Dominion capital, and the Ottawa representative of the season's work that he has done in the Dominion. He is a naturalist, and he is a naturalist of the Dominion boundary, who has been in the Dominion capital, and the Ottawa representative of the season's work that he has done in the Dominion.

Warrant the operation of the whole plant. WELL SATISFIED. Mr. Baggeley and his associates were much pleased with the results of the test of the Garretson furnace, which expressed their admiration of the remarkable skill displayed by Mr. Baggeley in conducting the experiment, which presented. In ordinary cases the sudden chilling of a charge is a very serious matter, and it is a very serious matter, and it is a very serious matter.

The inventor of the Garretson furnace has also devised a new rotary boiler by means of which the heat of the slag will be used to generate steam, and this will supply the air to the blast. It is calculated that the heat carried off by the slag from the smelting furnace, if fully utilized, to generate 1,000 horse power, and from the furnace at Crofton, which is a small, compact, efficient, if fully utilized, to generate one of these boilers at Crofton, which will save a very large sum of money.

Another interesting event witnessed by the visitors to Crofton was the first lighting of the new plant during Saturday afternoon and evening. At 10 o'clock p. m. the lights were turned on, and the furnace was in full operation. The machinery was in full operation, and the furnace was in full operation. The machinery was in full operation, and the furnace was in full operation.

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The misunderstanding between the shareholders of the Mount Sicker and Brenton Mines, Limited, has been settled. The shareholders of the Mount Sicker and Brenton Mines, Limited, have agreed to a settlement of their differences. The shareholders of the Mount Sicker and Brenton Mines, Limited, have agreed to a settlement of their differences.

Four Carloads Delivered at Ladysmith Yesterday—New Bank. Ladysmith, B. C., Sept. 22.—(Special.)—The four carloads of Tye copper ore were delivered at the Ladysmith Railway Company's siding at Ladysmith yesterday. The Canadian Bank of Commerce opened a branch at Ladysmith this morning.

A continuation from Sunday of the celebration of the twelfth anniversary of the Equivotal Method was held in the Metropolitan Methodist church last night. Mr. Horace Knott, president of the Equivotal Method, presided at the meeting, and made some appropriate remarks. The concert solo by Mrs. Stitt, and the Rev. P. T. La Vielette, D.D., of Tacoma, delivered an instructive and inspiring address, entitled "Centres of Fire," which was greatly enjoyed by the large gathering of Revs. Short addresses were made by Rev. Dr. Henderson, Dr. Crothers, and Mr. J. H. B. Baker, who is in the Dominion, and who is in the Dominion.

Calgary, Sept. 22.—(Special.)—The Convention of the Calgary Board of Trade arrived this morning. The board members expressed themselves as pleased with the results of the meeting. The board members expressed themselves as pleased with the results of the meeting.

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Affairs of Municipality Much Business Occupies the Attention of City Council Last Night

The city assessor presented the following: In response to your communication of Sept. 22nd, I have the honor to submit to you the accompanying maps, three and four wards respectively, showing the proposed redivision into four wards returning two aldermen each, and four wards returning one alderman each. I would respectfully ask for further time to prepare a report on the latter. If it is desired, I will be glad to submit a report on the latter. If it is desired, I will be glad to submit a report on the latter.

Assessed Values: Present Ward Divisions. Land, Improvements, Total, Voters, Acres. North Ward, Central Ward, South Ward, North Ward, Central Ward, South Ward. The city assessor presented the following: In response to your communication of Sept. 22nd, I have the honor to submit to you the accompanying maps, three and four wards respectively, showing the proposed redivision into four wards returning two aldermen each, and four wards returning one alderman each.

Finally a motion granting permission to be made after some discussion of the subject. The Imperial Life Insurance wrote a check for \$100.00 to the city. The Imperial Life Insurance wrote a check for \$100.00 to the city. The Imperial Life Insurance wrote a check for \$100.00 to the city.

COMSTOCK MINE QUATSON SOUND Compressor Plant and Aerial Tramway About to Be Installed.

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May Sever Relations Great Britain Has More Trouble With the Quarrelsome Republic.

London, Sept. 22.—The Associated Press is in a position to announce that relations between Great Britain and the Republic of Venezuela are on the verge of being severed. Almost an hour ago the British ambassador in Caracas has been given his passports with correspondence inwards the Venezuelan representative in London. The cause of the crisis does not seem to be a matter of minor importance, but consists in various difficulties which culminated in Venezuela assuming a more satisfactory position. The British ambassador in Caracas has been given his passports with correspondence inwards the Venezuelan representative in London.

Fiery South Americans Take a Reckless View of Monroe Doctrine.

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Visitors to Pacific Coast European Manager of the C.P.R. Speaks of Local Development.

Archibald Baker, European manager of the C.P.R., is a guest at the Friar. He has traveled across Canada and will be in Victoria for some time. He has traveled across Canada and will be in Victoria for some time. He has traveled across Canada and will be in Victoria for some time.

Former Head of Britain's Medical Department Comes to Victoria.

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Another Outbreak. Two Men Shot and Troops Called Out in Pennsylvania.

Scranton, Pa., Sept. 22.—Sheriff Schadt, of Lackawanna county, tonight telegraphed Governor Stone to send troops to his assistance. The worst of tonight's outbreaks occurred at Archibald, a crowd of 200 strikers, mostly foreigners, ransacked the barracks occupied by the 40 men employed at the Barrack, and they meting with the men were attacked and driven from the barracks. The men then returned to the colliery property, drove out the engineers, firemen, and the men who were employed at the colliery. The men then returned to the colliery property, drove out the engineers, firemen, and the men who were employed at the colliery.

Italy and Canada. Sir Wilfrid Interviews the Pope and the Government.

Rome, Sept. 22.—The Pope today accorded an audience to Sir Wilfrid Laurier, who is also attending to the Laurier, and was very cordial to them. The Pontiff showed much interest in the proceedings, and he closely followed the progress of the negotiations. The Pontiff showed much interest in the proceedings, and he closely followed the progress of the negotiations.

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