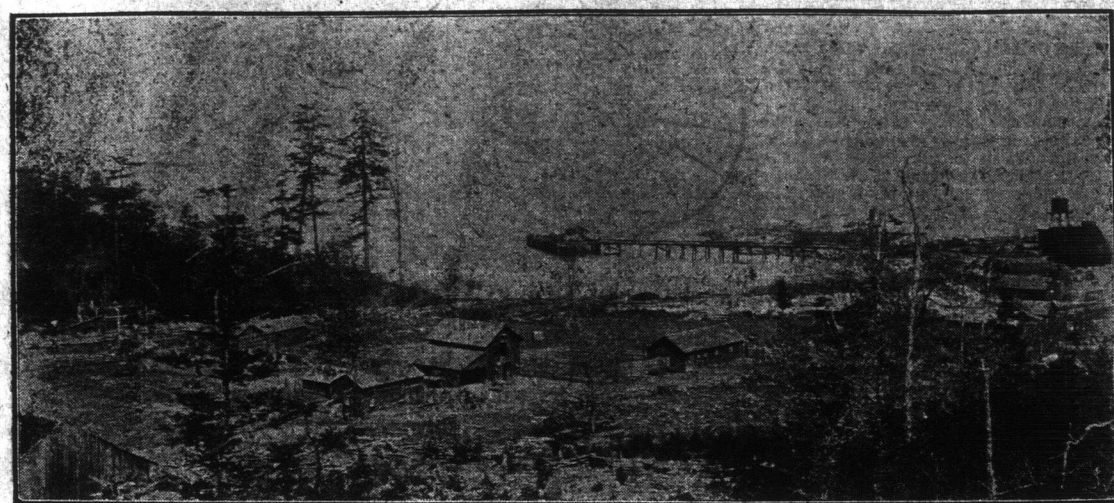


THE GIANT POWDER CO., CONSOLIDATED, CARBORO BAY.



GENERAL VIEW OF GIANT POWDER CO.'S WORKS AT TELEGRAPH BAY, VICTORIA, B. C.

Situated on Telegraph Bay, the other side of Ten-Mile Point, just to the north of Carboro Bay and about five miles from Victoria, are the works of the Giant Powder Company Consolidated. The company, although owning California as its headquarters, is largely an

English one, the bulk of the capital having been subscribed by former residents in the Old Country. And in this way it comes about that the local works, the only one of the concern operated under the aegis of the Union Jack, is looked upon with interest and pride by those chiefly interested in the welfare of the undertaking. The situation of the works is a particularly pretty one, the surroundings from an aesthetic point of view being almost ideal. In front are the deep blue waters of the historic Straits of Haro, across which the equally historic island of San Juan looms large, with all its features of rock and tree toned down into one harmonious color by distance, except where here and there the workers in the lime rocks have left great patches of white like dents in the beautiful deep cerulean of the surrounding landscape.

The land upon which the works of the powder company are located has more than present interest to the Victorian who takes an interest in the "early-day" affairs of the town, for at the height of the San Juan embargo, which in the early sixties threatened to bring Great

The Atlin Investigation

Taking of Evidence Is at Last Finished Before the Committee.

Mr. Sawers Uses Very Unparliamentary Language to Mr. Belyea.

(From Friday's Daily.)

Yesterday the eighteenth day of the Graham enquiry, which was opened on the 16th of April, saw that wearisome enquiry brought to a conclusion. All the evidence is now in, and nothing remains but the meeting of the Select committee to compile and submit their report. Yesterday's proceedings, like those of several other days of the enquiry, were unmarked by any fresh information regarding the matters under investigation, the feature being an outburst on the part of the prosecutor of the charges in which that gentleman heaped contumely upon Mr. Belyea, who was acting on the other side of the case. Mr. J. A. Anderson, of the provincial treasury, was the first witness called. He produced several vouchers for the payment of accounts for provisions, etc. for the isolation hospital. The dates of these were all subsequent to April 28th, from which Mr. Sawers wished the commission to draw the inference that there were no patients in the institution previous to that date, and thus discredit the gold commissioner's evidence, in which it had been stated that the first patient was there on the 26th of that month.

Over these matters Mr. Sawers and Mr. Belyea had several little cross passages, in the course of one of which Mr. Sawers created some amusement by denouncing the opposing counsel as "a bad lot."

Mr. B. A. Johns, chief clerk of the Lands and Works Department, then produced the official plans and reports of the Atlin townsite sale. Amongst them he could not find that either Mr. Graham or Mr. Bickle had acquired any lots there, but Mr. Vickers had out of his name, on which the one-third payment of \$800 had been made. This was the lot on which the larger building in question had originally stood. W. T. White also had a lot there, which had been sold at private sale. The Beyer estate stood on this lot, which was afterwards acquired by Mr. Graham. The Vickers lot was sold at auction. Mr. Sawers also went into the purchase of some other lots by John Piper, Robert Goddell, etc. The building had been moved from the Piper lot to be used for hospital purposes.

Whether Mr. Belyea was dissatisfied or had resigned from the service, was the next point up. What connection this had with the charges was not cleared up, but a letter from the Provincial Secretary's office showed that his resignation had been requested to take effect on the 10th of October, 1900. Over this Mr. Sawers grew a trifle impatient, and turning to Mr. Belyea denounced him as a bullying, unparliamentary, bullying coward, and nothing but a "big calf."

Called to order by Chairman Rogers, Mr. Sawers apologized to the commission, a formality which Mr. Belyea declined to accept, saying that while he respected grey hairs in this instance he would not respect the possession of a title under their protection.

ter then passes through grinding mills, which reduces it to a beautiful powder as white as snow, and—by the way, as east—as near like ordinary flour as could be. This finishes the preparation of the nitre, and it is now ready to absorb its quota of the deadly liquid, nitro-glycerine. In its form as a white powder it is weighed out into appropriate quantities for a "mixing house" and is transported by rail (mule power) to the mixing house. As to transportation, it may be said that the departments of the works are connected by some miles of tram, along which the powder, etc., is moved by mule traction.

Having finished with the nitre for the present, the next point of interest is the "dynamite house." This ominous name betrays its owner as, what with the tier on tier of huge lead vats and connecting

of a second lead drain to the mixing shed, where it is weighed out into suitable portions to mix with the corresponding quantities of powdered nitre, which have been sent up from the nitre-drying house first described.

The mixing is a very simple matter. First the measured quantity of powdered nitre is placed in a shallow wooden receptacle, very much in appearance like the boxes in which plasterers mix their mortar. On to the nitre is poured the measured quantity of nitro-glycerine. This varies all the way from 7 per cent. to 95 per cent., according to the strength desired in the finished dynamite. The mixture is worked up by hand, long wooden boxes being used when the nitre is "absorbent" and the nitro-glycerine is then full-fledged dynamite, and is shovelled out with wooden shovels into

handy wooden boxes and taken over to the packing house, where it is made up into "sticks."

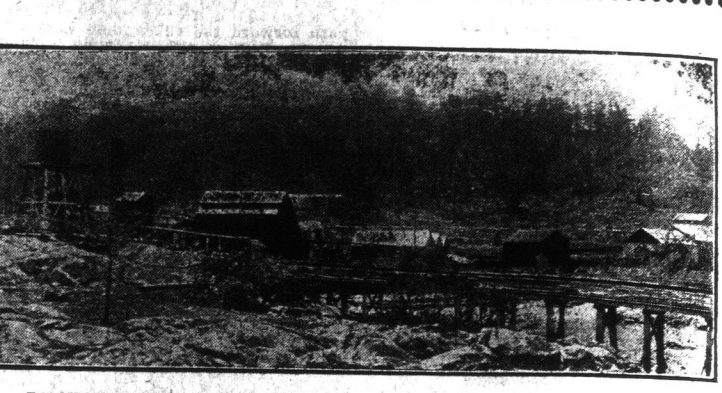
Previous to being packed into cartons or "sticks" the new dynamite bears a very strong resemblance to soap. This is because the process of ramming the cartridge full of dynamite is so closely that it looks like a block. The little cylinders, each about 10 inches long, into which the explosive is packed are made of wire paper dipped in boiling paraffin. First the paper cylinder is rolled and pasted, and so on, until the men that each of the four hands are capable of making 6,000 rolls

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DE-NITRATING PLANT. SCENE OF EXPLOSION TWO YEARS AGO.

per day. The rolls next are given a dip into the hot paraffin, and come out excellent waxed paper. These prepared shells are passed on to the filling machines, of which there are three, which have each a capacity of 70 cases of dynamite per day. The process of filling the shells is very simple but most expeditious, and it is noticeable that, for obvious reasons, every part of the implements used in the process is made of wood. As to the filling machines, an idea of their appearance may be gained by recalling an old-fashioned washing machine enlarged about ten times. The empty shells are arranged in a line in a wooden frame, about 20 at a time, and this frame having been set in place in the machine, the pulling of a lever releases a quantity of the dynamite from a shelf at the top of the machine, and at the same time brings forward the rammer which forces the charges into the shells. The ends of the cartridges are then turned down, and the sticks are ready for packing in the small cases in which the explosive reaches the market. These cases are made up in the packing house, adjoining the filling room.

Having traced the different steps in the manufacture of dynamite up to the finished article, it will not be in order to go back and follow up in detail the treatment of the "spent" or surplus acid which drains off from the "dynamite" house. This, as was stated when describing the "death chamber" of the works, is returned by pipes to the de-nitrating plant, where first of all the nitre is burnt out of the recovered or spent acid. The acid as it runs down from the dynamite house is collected in a tank, from which it is allowed to run into a much smaller tank, for the purpose of again separating, by gravity, any nitro-glycerine which may have passed off with the spent acid from the dynamite house. A man is always at hand to watch this small tank, so as to keep it fairly clear of the deadly glycerine, so that none may pass on into the de-nitrator, where intense heat is engendered by the contact of water and sulphuric acid. Should any glycerine pass this point it means havoc and loss of life, as it would do if it were to get into the hands of the enemy.

upwards of \$50,000, and the plant turns out on an average over 120,000 pounds of dynamite each month. Constant improvements are being made, so as to keep the works thoroughly modern and up to date. The prospects are that a new branch of manufacture will be initiated in the production of black powder, and it only requires sufficient growth of island mining developments to warrant the step, when the company will further enlarge their plant. The demand for some time has been such that the works have kept fully occupied, and this state of trade reflects in a measure the steady growth of the mining industries, both here and on the Mainland.

The officers of the company are: C. C. Bennis, president; Homer S. King, vice-president (a former Victorian); and resident of this city; Julian Somers, general manager; A. A. Sparks, manager; British Columbia branch, Green, superintendent British Columbia branch.



POWER HOUSE AND NITRE DRYING BUILDING. TRAMWAY IN FOREGROUND.

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