id more particularly enay lake to the Duncan river, also the headwaters of irther from a point ear Crawford creek. aslo river have al-and Kaslo will be d base of operation der Surveyor J. H. ing over the route of and the initial steps rward as quickly as pany also intend to smelters, refineries, her works of a like ntail the building of , ferries and roadfore give employ. mber of men. The

to work at the nent, and are in ir programme so as this fall. O.N. officers of Nelson the ensuing year, as at the mines three on Saturday evento fill the offices

president; Carl Frank Philips. n Wesley Sin Morrison wardd Richard Gaskill. hird place on the vas a vote between nd Thomas Jerome, to be taken over

ORKS. ilway contractor, turady from the which will s projected Coast. e reports that J. eer of the V. V M. Lupfer, chief Great Northern st Monday, and astic welc ity are clated at commencemen The engineers ing day en route aged a guide, an o expressed con show them a Hope mountain approached by a it river, and ce north of the Hon. Edgar d by the provinar to report on ling a railway He confined his miles further reported the Mr. Mc-. Dewdney hapthe day that in to the effect and Lupfer were y. He ridiculed when railway ished it would R., which would Midway to a east of the Hope nald also added mond drill plants ng the coal meas-ear Princeton. of Man Lee was

and six gambl guilty and cone city treasury. and Miss Ethel vesterday. The Wm. Sulley, sr., daughter of Mr he B. C. Fruit

nal church was ight on the occaparture of the ton, and his the new pastor, e meeting was in 63. "Crown e first speaker, in very fitting during his sothis city, and of the congre-ing Mr. and

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VICTORIA TIMES, FRIDAY, SEPTEMBER 12, 1902.

buildings. To-day, too, the smelter is practically complete, and Vancouver Island can boast of a seven-hundred ton smelter, one of the most thoroughly equipped and up-to-date in the country is

From the sea, as the steamer approaches Crofton, the buygings gight. But it is when the visitor passes through them and

duct known as black copper, or "blister," containing 98 or 99 per cent. copper. together with the precious metals. This s cast into moulds and when cold is loaded on the cars right at the door and shipped direct by ferry to the Mainland and thence to New York.

The handling of the converters and mould carriages is accomplished by hydraulic gear. The large platform hoist from the converters to the feed floor is also bridenils. also hydraulic.

The hydraulic power is furnished by a large Smith-Vaile pump and accumulator located in the engine room, which is 75x40 feet. Here also is the compressor furnishing air for the converters, the Connersville blowers, and the main and electric light engines. Steam for these is brought from the boiler house to the are three 200 horse-power return tubu-lar boilers built in Victoria.

The smelter has its own water supply. A flume over a mile long discharges into two 100,000 gallon tanks on a rise 180 feet above the smelter, whence it is piped through an eight-inch main, giving ample pressure for fire protection and general

The buildings throughout are of wood, covered with corrugated iron, and are built as solidly as wood, iron and money can make them. The plant has been designed especially

with a view to enlargment at any time,

DUMP OF LENORA MINE, MT. SICKER.

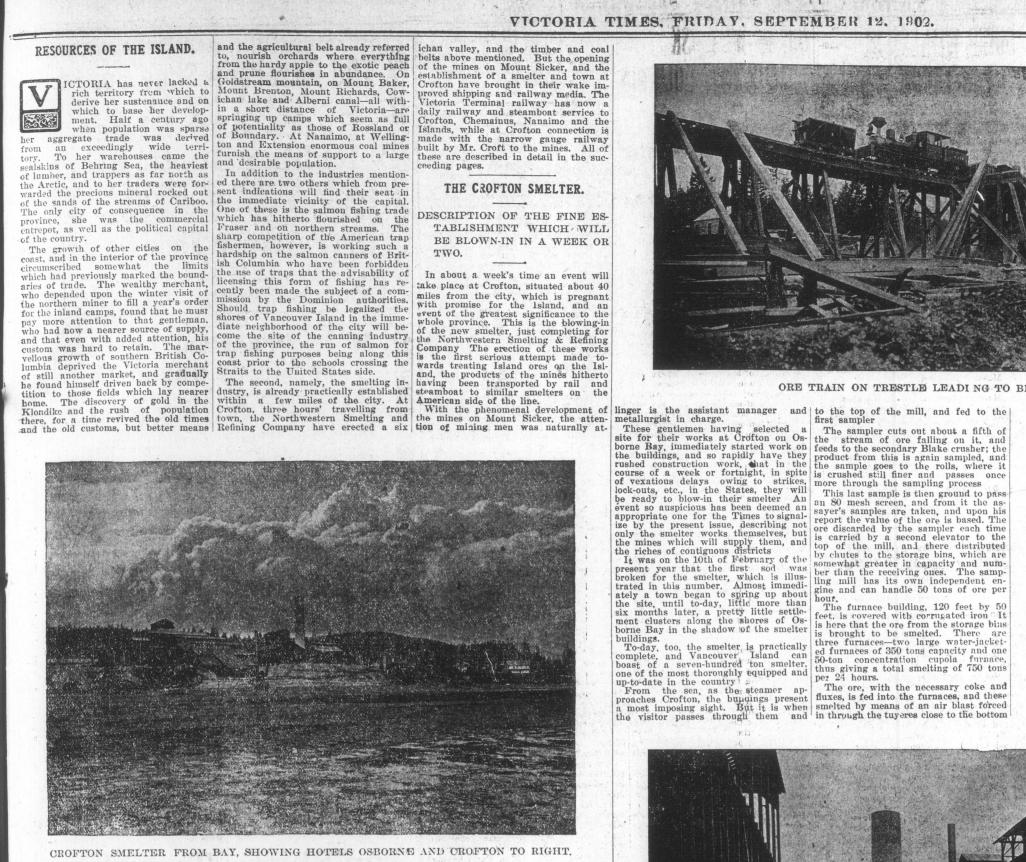
and can be doubled in capacity with very.

Complete blacksmith, carpenter and a mathine shops are being erected. The assay office is one of the most complete in the West. The sampling mill is already in operation, having been started over a month tion, having been started over a month ago, while 4,000 tons of Lenora ore are The whole output of the Lenora mine is contracted for, but the company ex-pect to treat ores from British Colum-bia, Alaska, and from South America as well.

PROF. DEWAR'S SPEECH

At the Opening of British Association, aime Meetings-Carnegie's Gifts."

Delfast, Sept. 10 .- The 72nd annual meeting of the British Association for the advancement of science commenced here to-night. The attendance was larger than at any former gathering of the association, with the exception of that of 1901, at Glasgow. marlors, and at In his address, Prof. Jos. Deward president-elect of the association, referred to the recent munificent benefactions to science and education, and especially to the gifts of Andrew Carnegie, and the The Cecil Rhodes. He said he thought the schemes chosen by Mr. Rhodes were bot the most effective which could have been selected, but that it must be remembered that Mr. Rhodes's aims were political as much as educational



of transportation soon minimized the ex-clusive benefits which that discovery at first conferred on the place. Gradually it has been forced in on the wholesaler and retailer alike of the capital, that they can no longer look for a monopoly in any part of the Mainland of British Columbia or of the Northwest Terri-tories. There, henceforth, they must fight the battle of trade with keen, alert captains of commerce who have equal advantages with themselves.

advantages with themselves. This discovery has not been relished, and has sometimes been almost resented by the Victorian merchant. But, like by the Victorian merchant. But, like the sculptor in the legend who sought the world over for a spotless clay, to find it at last under his own hearth-stone, the Victoria merchant has found that close at hand lie avenues of trade which would excite his envy if they were further afield. Perhaps because of their were narroses he has been disposed to further afield. Perhaps because of their very nearness he has been disposed to despise their possibilities. But while the hardy prospector has been uncover-ing the rich leads of the Klondike, rock-ing out the glittering metal in Omineca and Cariboo, striking rich quartz claims in Kootenay and Boundary, his species has not been altogether idle on Vancou-rea Valued.





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impurities of the matte, leaving a pro-

ss in their Mr. Bainton, and the memfor their many and Mrs. Bainin Vancouver,. he was leaving erity. The new , was then in-, and in the id that he would follow in Mr... elping the cause every way.

nation of living nge is a chargeagainst Mrs. onducts a pri in South May this and other state board of

HARGE.

of the board se-Mrs. Taeschler g medicine withoman has been

utes the charges inspired by her visit a woman

Phosphodine. English Remedy: ecommended by all Canada. Only zeli-ne discovered. Siz remized to cure all all effects of abuse recessive use of To-Mailed on receipt \$5. One will please. any, Windsor, Onse

sold in Victoria

Byrom, of a couver, on Sept. and Miss Ethel

on Sept. 9th, et, Victoria. B. pt. 10th, Lizzie W. Devlin.

ver Island. Its wealth of timber, its fisheries, its coal and gold, silver and copper, virgin soil and delightful climate, all these have allured pioneer and prospector alike, while its valleys have beckoned these who prefer the profits and the contentment of a more bucolic corner. The result is that while certain markets The result is that while certain markets have been slipping away from the Vic-torian, others have been springing up under his very feet, which if he will but, exploit he will find quite as remunerative as the greener fields which beckoned him from the distance. Within a radius of one hundred miles of Victoria, industries have been develop-ing for a quarter of a century until now they are representative of almost every

ORE TRAIN ON SWITCHBACK RAILWAY.

they are representative of almost every department of activity in British Colum-bia. Throughout the Saanich peninsula, the Cowichan and Comox valleys, and at

department of activity in British Colum-bia. Throughout the Saanich peninsula, the Cowichan and Comox valleys, and at numerous other parts agriculture has been industriously wooed, until to-day. these districts have become among the most famous of the whole province. Chemainus is the basic source for a lumber and timber industry which in-cludes in its scope over a hundred thous-and square miles of the finest timber in the world. The islands of the Gulf,

A VIEW OF THE MAMMOTH STACK

it is dumped. There are six of these bins, each with a capacity of 300 tons Each is fitted with two doors or gates at the bottom, operated by a lever from the outside. Through these gates the ore is fed to the large Blake crusher, from which it is carried by a bucket elevator 85 feet

Referring to Mr. Carnegie's en cent of Scotch universities, mand the

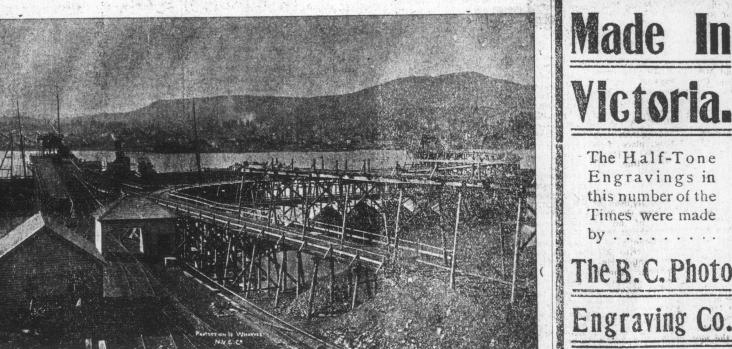
and accessories. Ore coming either by rail or steamer will be landed at a wharf 750 feet in length, with sufficient depth alongside for an occan liner to dock, and will settles in it can be taken out while at the same time protected from storms. It is then conveyed in cars to the top of the receiving bing into which it is dumped. The smoke and make to the furnaces data the taken out it is dumped. The smoke and waste gases through a 5 the dust flue, a brick tunnel 100 feet high a constraint of the furnaces. The smoke and waste gases from the the dust flue, a brick tunnel 100 feet high a converter plant and will treat the incover of the receiving bing into which it is dumped. There are six of these bing cont of the single of the single of the single of the taken out it is dumped. The smoke and waste gases through a 5 the dust flue, a brick tunnel 100 feet high a converter plant and will treat the is dumped. There are six of these bing cont of the single of the single of the taken out it is dumped. The smoke and waste gases through a 5 the dust flue, a brick tunnel 100 feet high a converter plant and will treat the is dumped. There are six of these bing cont of the set dust is further to the single of the taken out it is dumped. The smoke and waste gases through a 5 the dust which settles in it can be taken out it is dumped. The smoke and waste gases through a 5 the dust which settles in the taken out is unilarly fitted with doors the smelter of the dust is and the dust which settles in the taken out is unilarly fitted with doors the settles in the taken out is unilarly fitted with doors the settles in the taken out is unilarly fitted with doors the settles in the taken out is unilarly fitted with doors the settles in the dust is made the sumple dust is another cor-the koyal institution of the settles in the settles in the dust is another cor-the koyal institution of the settles in the settles in the dust is and the settles in the settles in the settles in the dust i

The Half-Tone Engravings in

this number of the Times were made

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VIEW OF NEW VANCOUVER COAL CO.'S WHARVES AND SHAFT AT PROTECTION ISLAND.



VIEW FROM REAR OF SMELTER LOOKING SEAWARD.