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NOVA SCOTIA STEEL AND COAL **COMPANY'S MINES AND MILLS**

A World Commissioner Visits the Sites of the Various Links in This Corporation's Chain of Industries-The Ramifi-

cations of an Important Enterprise.

New Glasgow, N.S., Aug. 29.-During the past few days I have examined the several HUNDRED AND TWENTY MILLIONS OF the various iron smetting centres of Europe tinks in a chain of industries which is TONS of first-class coal, all easily won.

attracting the attention of all Canada to Output and Demand. stern portion of British North Am-N.S., and the great steel works located at mile and a half or so under the sea and deposits with the blast furnace.

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Steel and Coal Co, reaches back in its real being developed to supply the steel works ary sand pig. beginnings to the early part of the last at that point with fuel. steel manufacturing portion of the enter- up to a million tons a year. prise was founded about 30 years ago by Mr. Graham Fraser, a man whose foresight clently wide. In the first place the year-coke ovens. and administrative ability have been re. by domestic demand of Canada has in a few The nucleus of the present iron and by the inauguration of the iron, steel, ship- at Trenton, and a large quantity of which

a capital of \$4000, for the purpose of mak. market. Moreover, these deposits are the ing railway and steamship forgings from only fuel beds situated immediate wrought and scrap iron.

Graham Fraser and his colleagues formed a will construct a new shipping pier, equip- five miles in length. plan to furnish their own crude iron. To ped with the latest loading machinery and First of all at Trenton come this end the New Glasgow Iron, Coal and capable of loading 1000 tons per hour. Railway Co., Limited, with an authorized In addition to the present extensive

secured iron ore and lime deposits in Pic- air compressor is being added to the surtou County, N.S., erected a blast furnace face works. and besides coal cutting maat Ferrona and constructed several miles chines are to be introduced into the mines. of railway to convey the raw material from The mines already have heavy hoisting the mines to the furnace mouth. It was plants and extensive underground systems tion of high-class steel ingots. soon found that the old amalgamated Steel of cable coal cars. Immediately adjoining and Forge Co., was the chief customer of the hoisting plant at North Sydney mines the new Iron, Coal and Railway Co., and is a complete coal crushing and washing in 1895 the two were amalgamated as the plant, designed to free the mineral of slate

the last and greatest consolidation of all of 50 tons per hour. The Making of Coke. ed last year, when the Nova Scotla teel Co. took over the coal mines of the After the mining of coal the making of General Mining Association, and floated the coke is the next important branch of the corporation, which is the subject of this company's operations, and at this time angles, rails, etc., or to the steam Coal Co., Limited. Objects of the Company,

Now the objects of the Nova Scotla Steel of coal per oven. This is two to the machinery department, occupying an-and Coal Co. are several: (1) to mine and three times the capacity of the ordinary other building, the lathe, planes, files and is estimated at 250 to 275 tons of coke into use, and finished shafts, axles, etc.,

U. S. companies. Sending One to Europe, The output of the mines during the shinping season is about 300,000 tons, a great deal of which goes to Germany, Scotland and the United States. About 290,000 tons have been sold for shipment this year. and contracts have been closed to deliver 500,000 tons between 1902 and 1905. The situation of the mines is especially favor-

the Lake Superior ores used by the

Where Pig Iron is Made,

Next I visited the company's blast fur-This chain of industries has been During the long period of years over naces at Ferrona. N.S. The point is situforged and welded by the Nova Scotia Steel which the North Sydney coal de- ated at the junction of the company's own and Coal Co., and the chief links in that posits have been operated they railroad with the Intercolonial. The com chain are the Wabana iron mines on Bell have been opened up by several pany's railway here mentioned has about chain are the wabana from mines on here have been opened ap of under- 16% miles of track and siding and connects Sydney, C. B., the iron furnace at Ferrona, ground workings which reach out for a the company's Picton River iron and lime

N.S., and the great stort works at which harbor. New spams are being opened up The blast furnace itself is a modern this letter is dated. The North Sydney mines with a view to plant, capable of producing 125 tons of pig Growth From Small Beginning. increasing the output, and the coal areas iron a day, and is equipped for turning Historically speaking, the Nova Scotia near Trenton in Nova Scotia proper are out 'mechanical' pig as well as the ordin

This blast furnace at Ferrona, which is a The coal measures, which it at For three years past the output of the giant structure embodying the modern present operates, were originally in 1825 North Sydney mines has been 250,000 tons method of using the waste is from the indirectly leased by royal grant to the per annum, and it is expected that with furnaces for fuel and heating purposes, is General Mining Association; whereas the the new collieries the yield will be well supplemented by a coal crushing and cleaning apparatus capable of handling 200 tons

Around the smelter yard are piled cords for the gradual development of years increased from 2,000,000 to 8,000,000 of the pig, part of which goes to the com concern to its present extensive propor- tons, and this should be heavily increased pany's own steel furnaces, nine miles away,

gow of the Hope Iron Works, afterwards of the St. Lawrence canals the Sydney Massey-Harris and Gurney institutions, in gow of the Hope from works, after wards mines should secure a share of the Ontario Ontario and other parts of Canada. Steel Works at Ferrons.

> To observe the next step in the conve ly on the Atlantic Coast of this sion of iron ore, coal and lime into finishe

ported pig and scrap iron as its raw ma- of as occasion warrants. In order to keep gotten from the statement that the tramrial, but early in the last decade Mr. up with its increasing output the company ways in and about the buildings aggregate

pany's four open hearth steel furnaces, equipped with enormous 50-ton ladles and capital of \$1,000,000, was brought out. It equipment of the mines themselves a new traveling cranes. To these furnaces, upon elevated tramways from the company's own mines and ovens and blast furnaces come the coal, coke and pig required for the process which results in the produc

Advanced Steel Plant

But the manufacturing process does no end with the production of the ingots. tia Steel Co., Limited. Finally and other impurities and having a capacity These, after a slight delay, are re-heated and turned over to the cogging, shearing and plate mulls, where the white-hot metal is rolled out into various lengths and thick-

article, viz., the Nova Scotia Steel and there have just been completed at these hammers which knock them into pre-North Sydney mines a new battery of 30 coke ovens of a capacity of 12 to 14 tons of ship shafting, raliway car axles, etc. In



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facture pig iron, (5) to manufacture steel every 24 hours, or about 100,000 tons per are produced ready for the market. Near And all six of these objects the company has been for some time and is now fultiland in Nova Scotia, its coal measures in Cape Breton and Nova Scotia result in the production of an economical proper and its lime deposits in the latter article. In fact, it is stated that the use mented by a series of mining, coking,

An Enormous Output. thickness and estimated contents of the The supply of this ore is said to be good ing the coal mines, to erecting the new The following table shows in detail the

Scanis.Acros. Thickness.Fons.Bonar294 7 ft. 3 in.8,197,250Stubbert9,678,760Stubbert6er the waters of Conception Bay.Crawley1813 7 ft. 6 in.200020,396,250Willnend6000 of the limits of the Island and away out under the waters of Conception Bay.Crawley1813 7 ft. 6 in.200020,396,250Crawley1813 7 ft. 6 in.200020,396,250Crawley1813 7 ft. 6 in.200020,396,250Crawley1000Crawley

carry the process of manu- year. The Bauer oven, recently approved the machine shop a structural iron industry Thank you, gentlemen. I have tried almost every preparation on the market. ARMAND'S EXTRAIT DE NOIX (EXingots, (6) to carry the process of manu-facture to its final stages, namely, to the production of agricultural, merchants and structural steel; also steel sheets and plates and railway and marine forgings. all six of these objects the company been for some time and is now fulli-With its ore deposits at Wabana in Nova Scotia, its coal meas-in Cape Breton and Nova Scotia Previous to the recent amaigamation J. Trancle-Armand & CO. country, the company has an ample supply of coal-stamped coke in the blast furnace the companies thus fused are understood country, the company has an ample supply will save 220 pounds of coke per ton of pig to have each enjoyed a prosperous business 441 Yonge, cor. Carlton St. Toronto, Ont. iron produced. The excess of gas from the for a long term of years, during which the mented by a series of minang, county, not protecting the tactor of gas from the for a long term of years, during which tacili smelting and finishing plants which facili coke ovens will be used as fuel for the Nova Scotia Steel Co. paid a dividend of smetting and missing plants which there is colliery power plant, thus saving 20,000 8 per cent. on its preferred stock and fre- CHARLIE RYAN QUITS THE SCENE. the corrying out of all the company's control power plant, thus saving 20,000 8 per cent. on its preferred sbock and fre-enterprises. With these general introductory remarks, the several branches of the company's en- the several branches of the company's enterprise may be taken up severally. While terminate the company will continue to extend its in addition to the coke ovens at North its pig iron furances at the lead, and the development of the the lead, and the development of the huge coal areas secured is being proceeded with on a large scare.
Geology of the Coal.
The geological records of Cape Breton the terminate and tropical jurgent interspersed with lakes and sjuggish while lakes and sjuggish while inland rose steep, rocky hills, some of the sint hills period and in the vast swamp if the series that the lead is the lead of the meet beds of come trom lines, which a rate scars to Newfounding (and the control of the satt warm of the sint hills period and in the vast swamp if the series to the the sint swamp is into nee more to be east coast of Newfounding (and the control of the sint hills be is and proceed to be determined to the sint swamp is into nee mines, which a rate is lead to the set coast of Newfounding (and the control of the sint hills alse on the west coast of the sint he sint coast coasts of a approache bed a provide the sint set recipits and in the vast swamp is the day open area stated to be the set coast of Newfounding (and tare to be intered to mark the bills alse on the west coast of nee to the lange to coasts of a seem aroon is need to be met were lock and permanenting invested for the sint of the profits and the cort for the set as the dones. The sint he was the form of a seem aroon is seen for the form and a prearly average of \$212, 213.
Future Returns Estimated.
As for the future the following rough estimate of annual profits has been mader: The source of a see and the develops in the form of a seem aroon is the form of a seem aroon. The profits and the see and the dolowing rough estimated to the lange of annual profits has been mader: The section of the section of the secore and aron the profits and the down and the set as the donese terprise may be taken up severally. While In addition to the coke ovens at North cent. for 1900 were paid upon the common

PROGRESS AND SUCCESS. Progress and success has been our busi-