## ROSSLAND WEEKLY MINER.

Two Dollars a Year.

ROSSLAND, B. C., THURSDAY, MARCH 25, 1897.

Third Year, Number 4.

Its Capacity Now Equal to 560 Tons of Ore Per Day.

BUSIEST SPOT IN CANADA

Heinze Has Added a Great Smelter to Supplementing It by a Refinery and a Complete Railroad System.

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Our Kootenay Agent.

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ed with four reverberatory furnaces and ready for the mint. It is not yet definone small blast furnace, each of the itely determined just what degree of former having a capacity of about 25 finish will be given to the copper. This tons a day, and the latter having a will depend very largely upon commercapacity of 50 tons a day. Much was to cial conditions. The completion of the be learned about the treatment of Ross- refinery will be an important event in land ores when the smelter was started. the history of British Columbia and The reverbatory furnaces are used almost | Canada. Then for the first time will entirely in Butte, and the little blast our own gold and silver be converted furnace was put in as an experiment. from the crude ore of the mines to the brought by Bodwell & Irving against the later that the later than the later than

require concentration the reverberatories must be employed, since the concentrates are in the form of a powder.

The Capacity Quadrupled. became evident that greater capacity less. early last fall for another 200-ton blast furnace. The little 50-ton furnace was When these changes are all completed the smelting capacity of the plant will

be 560 tons a day. But it is not proposed to use all the built and two of the reverberatory furnaces are to be given up to matte smelting. The ore smelting will be done by the two remaining reverberatories and by the three blast furnaces.

Handling of Slag and Matte. Late last fall a very important change

heap of sawdust. stream of water and is run up through refining centres in the world. an elevator, being finally deposited in as convenient form for sacking and transportation as sugar or flour. The use of cold water in granulating both the waste and valuable products of the smelter results in a great saving in many ways, and marks a distinct advance in the that cold water would granulate molten slag and metal the application of the discovery has nowhere been so success-

fully applied as in the Trail smelter.

There is a single descent of 250 feet from the smelter hill to the generating plant below, and the water has a total head of over 300 feet. The power secured is sufficient to generate 200-horse power, which will be ample to supply the dynamos for the entire smelter plant, as well as the lights for all the buildings and

taken by Mr. Heinze since he commenced the construction of the smelter itself was the addition of a refinery. the Dominion's Industries and Is This involves the expenditure of large buildings. One of these buildings is just completed, and the other one would have been completed by this time had

A representative of The Miner spent the greater part of last Monday in looking through the Trail smelter. Great changes have been made since the first furnace was blown in now something more than a year ago. In that period there has not been a day when there was day when there was a day when the day in the day of the meeting the day and the two small has precaused to the meeting the day and the two small has precaused to the motion of the stock exchange question in favor of conciliation on both sides, as the main of the stock exchange question in favor of conciliation on the stock exchange question in favor of conciliation on the find the two small has precaused to the two days of the day of t

not under consideration or in actual ex- pleted and the superstructure will be formerly so popular. ecution some enlargement or improve- erected very speedily. It is hoped to of ore, in exact figures 303 tons, 1807

sort of retrospect of the development of this vast industrial enterprise. It start-

the ore. The blast furnace is the sim-pler and more economical, but where ores limit the wood before it appeal Chief Justice Davie decided that coke was tried. Much wood was used, so much of these expenditures as rewas well seasoned, owing to the desire illegal and properly surchargable. to get under way. Coal is very expenregular delivery at Trail.

Future of the Industry. What is the future of the smelting then taken out to make room for the and refining industry, established so new one which is now just completed successfully at Trail by Mr. Heinze? If self by purchasing the Kootenay and upon the ground that too much was Columbia mine at the price of \$500,000. asked.

HEINZE SUED AGAIN.

treatment of ores. While it was known brought in the United States court here and the promoters of the bill for incor-Ine plantin in this case is E. Rollins which the committee of the Butte and Boston Mincommittee of the Batte and Boston limit incorporated into the bill by which the snape owing to the great amount of members. Before any resolution was snow. Enough work will be done on members. Before any resolution was snow. Enough work will be done on members. Before any resolution was snow. Enough work will be done on members. the introduction of electric power. The Michael Davitt mine, which adjoined the guarded, and in this form it is to be almachinery for this change is all on the Rarus owned by Heinze, and it is lowed to pass. As the bill stood originmachinery for this change is an on the ground and will soon be in operation. The ore body is known to be fully missed and make the considers them well worth the small charged that by underground workings ally it sought to obtain from the legislation. ground and will soon be in operation. Charged that by underground workings any it sought to obtain from the legislaeight feet wide. The present showing minutes from his office, and upon his price asked. This is to be the first of a ture privileges to erect poles and string the water is conducted from two or three Heinze's company took \$90,000 worth of ture privileges to erect poles and string the water is conducted from two or three Heinze's company took \$90,000 worth of ture privileges to erect poles and string the water is conducted from two or three Heinze's company took \$90,000 worth of ture privileges to erect poles and string the water is conducted from two or three Heinze's company took \$90,000 worth of ture privileges to erect poles and string the water is conducted from two or three Heinze's company took \$90,000 worth of ture privileges to erect poles and string the water is conducted from two or three Heinze's company took \$90,000 worth of ture privileges to erect poles and string the water is conducted from two or three Heinze's company took \$90,000 worth of ture privileges to erect poles and string the water is conducted from two or three Heinze's company took \$90,000 worth of ture privileges to erect poles and string the water is conducted from two or three Heinze's company took \$90,000 worth of ture privileges to erect poles and string the water is conducted from two or three two or

Mine For Two Years.

Some of the Notes Given in Payment of Waterworks Charter Were Never the Supreme Court.

a round figure.

An Interesting Law Suit.

the reverberatory furnace represents the of the world. This looks like getting on corporation, which will be provocative old English plan of smelting by radia- a self-sustaining basis. It will be a of a hard fight and severely test the legal old English plan of smelling by radia-tion, while the blast furnace represents proud day for Rossland when this happy acumen of the contending barristers. In The Highland group of mines is being in-tion, while the blast furnace represents proud day for Rossland when this happy acumen of the contending barristers. In The Highland group of mines is being intion, while the blast turnace represents produced by the the German plan of smelting by direct achievement is accomplished by the troduced in London to Vienna capitalists. happened to be the day after the expiration of the German plan of smelting by direct achievement is accomplished by the troduced in London to Vienna capitalists. chase the charter of the then existing. The property was reported on by Godwin The ore for the reverberatories is crushed to a fine powder and spread out over the bottom of the furnace. Wood is used for fuel, and is fed in great and is fed in gr the rear, the flames being driven in over the ore bed by a strong blast. For the blast furnace the ore is not crushed to a powder, but is broken up into pieces of the size of a hen's egg, and fed with an intermixture of coke and limestone, the latter being the flat. A strong intermixture of coke and limestone, has often caused grave trouble. Some the latter being the flux. A strong of the coke has been brought from Wales

Two of the notes given in payment Railroads Could Not Afford to Quarrel sive and it is almost impossible to secure had not been retired. It now appears that at some time they came into the Wanted New Officers.

It is for the solution of the fuel problem that the Crow's Nest Pass road is so much desired. Coal is now \$12 a ton actual ore capacity was 180 tons. This formation was not in lest summer. Hardhands of the legal firm of Bodwell &

to square the account?

The little furnace taken out will be re-built as soon as room can be made for it built as soon as room can be made for it. When Mr. Heinze blew in his furnaces of the Vales when Mr. Heinze blew in his furnaces when Mr. Heinze he had as a guarantee of ore supply a clusive of certain properties of the Kaslo exception of Sandon, which is a little There was a call for Ernest Kennedy, contract with the Le Roi company for and Slocan Railway company, whose lower than the old rates. The new rates the secretary of the board of trustees, 37,500 tons of ore with a conditioned claim for exemption for all their prop- as announced, all routing over American who explained at length the action of contract for 37,500 tons additional. erty has not been adjusted by the city furnaces on ore. A refinery is being This contract is still running and in council. In 1895 a bylaw exempting the force, but a great deal of ore from other railway company from taxes upon cermines in the camp has been treated and tain specified property was placed before now Mr. Heinze has just fortified him- the ratepayers and defeated, mainly

The company claims that its act of in-He has built a railroad from his smel- corporation exempted it from provincial was made in the disposition of the slag ter to the Rossland camp, and is now incorporation, it was entitled to equal from the furnaces as well as in the treat- building another railroad up the Colum- exemption from the municipality. It ment of the matte product. A stream bia river, so that he can draw the silver- also claims that before consenting to the of water was run through the works and lead ores from the Slocan. But he has city's incorporation it was promised exof water was run through the works and the molten slag was turned into this and carried off in granulated form. It is a remarkable fact that when molten slag remarkable fact that when molten slag penetrate the great Boundary mining penetrate the or metal comes in contact with cold runor metal comes in contact with cold running water it immediately granulates. ning water it immediately granulates. when this line is built his smelter will cover land acquired from the Kaslo-All the slag from the Trail smelter is have a new and inexhaustible field to Kootenay Land company, consisting now carried off down the hill by a draw from. The possibilities of this en- practically of the same people, subdeed, the city council of 1896, composed almost entirely of the same persons now in office, offered to place a bylaw before the ratepayers granting the railway company a liberal measure of exemption, but the offer has not been seen to 1,200 men would be at work on the properties adjoining the townsite during the spirit of modern times, he said, and he was cheered. After a careful speech the way company a liberal measure of exemption, but the offer has not been seen to 1,200 men would be at work on the properties adjoining the townsite during the spirit of modern times, he said, and he was cheered. After a careful speech on the Grey Eagle. The Bonita on these lines he moved that the bystream of water and is deposited like a terprise within the scope of five years sequent to the city's incorporation. Inneap of sawdust.

The copper matte carrying the gold further than to say that Trail is destined almost entirely of the same persons now and silver values is also run into a to be one of the greatest smelting and in office, offered to place a bylaw beemption, but the offer has not been ac Owner of the Michael Davitt Wants cepted by the company, nor indeed has any reply been vouchsafed.

The water is conducted from two or three mountain streams by steel pipes, and ore out of the Michael Davitt and damwires along the city's streets in such being at a depth of over 300 feet, it is one out of the Michael Davitt and damwires along the city's streets in such being at a depth of over 300 feet, it is one out of the Michael Davitt and dammountain streams by steel pipes, and delivered on Pelton wheels in a building on the flat below the smelter hill. \$75,000.

KASLO council saw in the original bill an infringement of its rights and entered a ENDE

Building Improvements. Angus Campbell has let a contract for Remarkable Record of Goodenough the construction of a large hotel building Mass Meeting of Brokers Discussed on the lets on Front street recently acquired by him. The building will be of two stories, with a neat front elevation, Perhaps the most important step and is to be finished by the middle of May. It has already been leased by Mr. Heinze since he comand is to be finished by the middle of

Two other lots on Front street, in the immediate vicinity of Retallack's bank- Those Who Wish to Join Have Now ing office, have recently been sold at a considerable advance upon the price Paid Because Declared Illegal by paid for them only two or there months

Almost immediately opposite these lots another lot has been purchased by

When one goes through this vast smelting plant as it stands today and understands that the whole of it has been efficiency, as will be having submitted the bylaws.

There be truth in this be read at a meeting to be held in the between \$2.50 and \$3.27½. These figures seconded the motion, which was passed shipment of 102 tons of matter last week shipment of 102 tons of matter last week shipment of 102 tons of matter last week went to the Omaha refinery, as will be average value per ton of crude ore aver

in its remarkable record.

D. J. Stoebeck has sold to Robert F.

Green the mineral claim Laura M. in the hot springs camp, about two and a half a miles from Ainsworth and half a miles from A their treatment of enthusiastic curlers moved that John McKane take the reason that they had not been printed

Lardeau river which is said to be prom- gentlemen friends who have not the ising. He obtained a substantial inter- good fortune to board at that well filled est in the Sunshine and Jenny Lind at to be immensely successful.

THE HIGHLAND DEAL.

The city is defendant in an action Vienna Capitalists in London-Transvaal Deep Levels-New Syndicate. London office of THE MINER, 108 Bishopsgate St., Within, E. C.

READJUSTED THE BATES. Over Kootenay Business.

ines being by Spoke.	New Rates.	Old
Cities.		\$21
NakuspSandon	23 80	24
Nelson	43 0	21
Kaslo		21
Prail	23 30	21
Northport	22 30	21
Rossland	23 55	4
ANOTHER \$20,00	O DIVIDEN	D.

The Idaho Mine in the Slopan Has Now

Paid \$152,000. SPOKANE, Wash., March 24 .- [Special. The Idaho mine in the Slocan will on amount will now be paid monthly.

COLUMBIA AND KOOTENAY.

commercial manager of the Trail smelter, closed. brought in the United States court here against F. Aug. Heinze and the Montana Ore Purchasing company for \$165,000.

The plaintiff in this case is E. Rollins Morse, chairman of the reorganization

The plaintiff in this case is E. Rollins Morse, chairman of the reorganization

The plaintiff in this case is E. Rollins Morse, chairman of the reorganization mosition to the bill. Sections are to be between town and the mine Tuesday taking note of such changes as will be necising company would he allow people to ing company would and Tom Gray, of the same institution,

Exchange Trustees' Actions.

the Opportunity to Study the By laws of the Exchange Before Paying the Membership Fee.

dmphant proof-that could be given of the resources of the mines about Ross-land. This smelter was planned, built and has been operated for the express tand for the growth and success in a measure stand for the growth and success of the United States. A shipment of 102 tons of matte last week went to the Omaha refinery, as will be shown as the same than the whole of it has been operated for the smelter at the proposed that the whole of the statement, then Kaslo is prosperous. Edward Baillie, who had been elected went to the Omaha refinery, as will be success of the high was necessarily seconded the motion, which the trastees mine to state the the tees were thoroughly thrashed out. of the whole association. He thought the trustees might give more time to those who had raised none.

The curlers have been enjoying grand The meeting was held at the Grand laws were now open to the inspection of now stands was a bare, untouched piece of ground. Today it is the busiest spot in the whole Dominion of Canada.

Began On a Small Scale.

The purpose of this article is to give a sort of retrospect of the development of this vast industrial enterprise. It start-

at the meeting at which the trustees little further discussion it was agreed to were appointed there was a distinct have a meeting today for that purpose. to a general meeting regarding their now a building of its own, and it was within ten days. The trustees had read at the exchange rooms, Shaw taken upon themselves to elect officers hotel, this afternoon at 3 o'clock. London, March 24.—[Special Cable.]— and do other things, and proposed to The meeting, which opened ominous-

blast is sent up from below and the flame comes in direct contact with the flame comes in direct contact with the ore. The blast furnace is the simand an opportunity to examine the by- companied by Mrs. Manly, arrived here laws before becoming members. That Tuesday from Grand Forks, and last was substantially the objection to the proceedings of the trustees. As to the election of officers, although a member of the board of trustees he was a dis- Mr. Manly is the vice-president of SEATTLE, Wash., March 24 .- [Special.] senter from this action and believed the the Olive Mining & Smelting company, -The late local railroad disturbance proceeding was unconstitutional.

means 200 tons of ores and fluxes. The actual ore capacity was 180 tons. This furnace was put in last summer. Hardly had it been put in operation when it became evident that greater capacity became evident that greater capacity became evident that greater capacity and the said that the notes were illustrated in naving an exponent of the brokers interested in naving an exponent of the secretary and treasurer. Seattle & International, to Kootenay business is too important the brokers interested in naving an exponent of the secretary and treasurer. Seattle & International, to Kootenay business interested in naving an exponent of the secretary and treasurer. The brokers interested in naving an exponent of the secretary and treasurer. Chicago the secretary and treasurer. The points has come to an end by an adjust-everything would be done openly and above board. That this has not been the coal and coke at half the prices or even because evident that greater capacity became evident that greater capacity became evident that greater capacity became and coke \$13 a ton. The Crow's Nest legally given, and if paid must be surpoints has come to an end by an adjust-everything would be done openly and above board. That this has not been the council, if the suit goes against it, have here. The Kootenay business is too important that greater capacity became evident that greater capacity became evident that greater capacity became evident that greater capacity is a superfiction of the company and the brokers interested in naving an exponent capacity and the brokers interested in naving an exponent capacity and the brokers interested in naving an exponent capacity and coke \$13 a ton. The Crow's Nest legally given, and if paid must be superficted. Chicago the secretary and treasurer. about when the quarreling takes the of "Question."] The gentlemen in The city's assessment roll for the curform of rate-cutting. Under such cir- charge of the incorporation have dis-The city's assessment roll for the cur-rent year will foot in round figures about the controversy cumstances it has not taken long for the tinctly violated the law. They went ahead and elected their officers before the cur-passenger departments to settle their lit-receiving their incorporation. Having The new rates effective today are a done this I think we should get in now

lines being by Spokane, are as follows: the body and said that, as to the unconstitutionality in appointing officers, how could they have done business without? 95 How could they have taken in money without a treasurer? These officers, however, were merely provisional, and they had legal advice that they were acting strictly within the law. [Cheers.]

Then followed a general discussion between Mr. Kennedy and Mr. Good and at its close, there being a dead silence, I. N. Blake was called upon. His speech was in the manner of suggestions for an exchange, appropriate

meeting. Paying your money before to 1,200 men would be at work on the laws should be submitted to the general the Heinze management at the Koote-nay and Columbia. Mr. Fitzgerald, held before the subscription books commercial manager of the Trail smelter,

Kennedy Defends the Trustees.

once to the election of nine directors, with instructions that they proceed forth-with with the incorporation of this asso-

Mr. Kennedy said he thought the directors had proceeded to do and had done what they were elected to do. Alexander Miller pointed out that it was the understanding, even though not on the minutes, that the bylaws should be submitted to a general meeting of the

Bylaws Open to Inspection. Mr. Kennedy said the bylaws were open to every broker to get a separate copy and take them home to study, and only three had availed themselves of the opportunity.

M. E. Dempster made a short speech All the brokers of the city are now in in favor of conciliation on both sides, as

versation upon the doings of the trus- as they were after all but the creatures

sport upon their rink during the past Union hotel and there was a very large all members the bone of contention was few days, and some of the interclub attendance, nearly every broker in the destroyed.

Stated time.

George Whiteside has purchased from Andrew Olsen a claim upon the upper friends who have not the find the success of the exchange.

Slowly. The object of the meeting was sion. Dr. Miller made a strong speech to harmonize all interests and ensure that the members had a right to harmonize all interests and ensure the by-laws read, and Mr. Kennedy said Mr. Good being called upon, said that read them, but only members could vote understanding that they should report Mr. Kennedy said the exchange had action, and that report was to be made then decided that the by-laws should be

John A. Manly of Grand Forks, acevening entertained several friends at dinner at the International hotel. which held a meeting in Spokane on

important ore body was made on the property that assayed nine per cent copper, \$6 in gold and some silver. It was decided on Saturday to sink a shaft on this discovery, and also to run a tunnel to tap the vein about 300 feet below the surface. The company has already a tunnel 350 feet in, and several shafts from 10 to 20 feet deep. "Just as soon as the mine is a little

more developed," said Mr. Manly, "the company will put in a smelter." Mr. Manly has himself a property four miles from Grand Forks called the Minnie. It has a four-foot vein of solid ore, which averages 20 per cent in copper and \$10 in gold. At a depth of 50 feet there is a large showing of peacock copper. Mr. Manly says he will sink 50 feet further and then crosscut. He is now working eight men on the property. In a conversation on Grand Forks, on the outlook of which place Mr. Manly is somewhat enthusiastic, he said that ion of officers, and also held that the by- all the properties there showed improveers are ready to go ahead as soon as the snow melts.

Rossland

rd, Ont.

and Completely.