

SIMILKAMEEN

Rich in Minerals, the Similkameen Lacks Only a Railway.



Vol. iv. No. 49.

PRINCETON, B.C., SATURDAY, MARCH 19, 1904.

\$2 a Year, in Advance.

SIMILKAMEEN CONTAINS 3,000 SQ. MILES MINERAL AREA; NOT ONE-TENTH PROSPECTED.

SIXTY FT. OF COAL

Nature Gave Liberally; Man Tardy Appropriating—Gold and Copper With Other Minerals Abound.

EDITOR STAR—Sir: I purpose giving a slight sketch of the mineral resources of the Similkameen district; a district which I have no hesitation in saying will be one of the greatest mineral producing areas in British Columbia and one that in time will rival the now great Boundary district both in tonnage produced and in value of bullion, copper and lead extracted.

Stretching from Kruger mountain on the east to the summit of the Hope mountains on the west, a distance of over 60 miles, and from the international boundary on the south, for 50 miles north, it embraces an area of some 3,000 square miles. Scattered over this great area—one-tenth of which has not been prospected at the present day—are numerous camps, that is, groups of mineral claims located on the outcrops of mineral deposits, either of gold, copper or silver ores.

Starting with Copper mountain, which lies about 10 miles south-east of Princeton, we have a mineral zone over three miles long by about two miles wide. Over nearly the whole of this area the outcrops of large bodies of copper ore have been uncovered by prospectors, and though, with but one exception, the work done consists of shallow shafts and open cuts (which is all that the average prospector can accomplish) yet sufficient has been done to establish the fact that the greater part of this area is traversed by a large number of chutes of copper ore varying in width from 2½ feet to 50 feet and the indications are that many of the ore bodies are of greater width but the development work done is not enough to show where one body of ore commences and another leaves off.

On the Sunset claims, which are the ones upon which the largest amount of work has been done, an ore body over 100 feet wide has been opened up at a depth of 150 feet. The ore on the mountain consists for the most part of yellow sulphide of copper and iron pyrites, though on some of the claims there are considerable bodies of bornite ore.

The average value of the outcrops, where enough work has been done to get through the oxidized surface ore, is about 5 per cent. copper with small values in gold and silver, which, in some cases, run as high as \$12. These values are ample to make it profitable to work seeing that it is of a nature easily smelted, especially as there are several bodies of magnetic iron ore on the mountain which would supply the necessary flux. The geological formation and mineralogical

characteristics are such as to indicate that the ore may be depended upon to go down to great depths below the surface.

Right opposite Copper mountain, on the west side of the Similkameen river, is Kennedy mountain, on which a number of claims have been located. Some work has been done on these claims and a number of ore chutes have been exposed, which, though not as large as those on Copper mountain, are of ample size to be worked profitably, especially as some of them carry higher values in gold as well as copper, running in some instances from \$8 to \$45 in gold and 5 per cent. to 7 per cent. copper. On two claims on this mountain platinum has been discovered in the ore, running from a few dollars to several hundred dollars per ton.

Passing up the Similkameen river about three miles further we come to Friday creek camp on the west, or left bank, and the Combination camp on the right, or north bank, of the river. Around the mouth of Friday creek work has been done upon a number of small veins of high grade copper ore from which the practical miner and lessee will some day, when the country is opened up and smelters built, reap rich rewards for their labor. Combination camp is both a gold and copper one, containing small veins of high grade copper ore, but the principal body of ore, so far, opened up consists of a chute of pyrrhotite 5 feet wide, carrying some gold values, but no more than assessment work has been done on this lead.

Fifteen miles further up the Similkameen, near the mouth of Roche river, several small veins of very high grade gold ore have been discovered; and the richest copper ore, taken out in any quantity, in the district lies on the dump of a claim about two miles from the mouth of Roche river and consists of some ten tons of black oxide of copper assaying 26 per cent. copper and \$4 in gold, which was taken out in running a 30-foot prospect tunnel.

Leaving the valley of the Similkameen river and going up the valley of the Tulameen there are three camps situate upon tributaries of the Tulameen, which contain prospects that only need capital and hard work to become remunerative producers of gold, silver, copper and lead, viz: Boulder creek camps, where are the Cousin Jack groups, the only claims upon which any consistent development work has been done. A strong and well defined ledge carrying good values in gold and silver has been opened up by the Boulder Mining Co. owning the claims.

On Bear creek, a tributary of the Tulameen and about 20 miles from Princeton, several strong and well defined ledges from four to eight feet wide have been located, which development work has shown to run from \$25 to \$50 per ton, chiefly in gold. A number of high grade copper ore veins with considerable gold values have also been located on this

creek; claims that with the advent of railroads and smelters will, I have no doubt, yield large returns to those working them.

Further up the Tulameen is Summit camp, situate directly on the summit of the Hope or Cascade range of mountains and about 40 miles from Princeton. Numerous veins of high grade galena have been discovered, carrying values that will run in most cases \$100 or over per ton, principally in silver and lead, though some of the ore carries small gold values. These ore bodies are as large and the veins as strong and well defined as are found in the majority of silver-lead mines being worked at the present time in the Slocan.

These are the principal camps lying to the west and south of Princeton, but along with these there are numerous other claims scattered all over the country with, in many cases, good showings, only needing capital to develop them into producing mines.

South-east from Princeton, 25 miles down the Similkameen river, is Camp Hedley, a gold and copper camp, but principally the former, and the only camp in the Similkameen district where any continuous development work and real mining has been carried on for a number of years, the results of which have been the opening up of the Nickel Plate mine and the proving of rich and large ore bodies of sufficient size and value to warrant the owners erecting a 100-stamp mill and cyanide plant, the building of 3½ miles of expensive flume and a tramway over three miles long at an outlay of some \$500,000, over an equal sum having been spent in developing the mine, all of which the manager expects to have running in a couple of months' time.

There are a number of other good prospects in this camp which only require development to transform them into mines. North and south-east of Camp Hedley are several other camps, such as Riordan, Green mountain, Pearsons, Iron mountain, Yuniman and Olalla, the latter situate on the east and west sides of Keremeos creek, about two miles north of Keremeos. In all these camps, which cover an area of over 20 square miles, the outcrops of ore bodies have been found varying in width from the 100-foot wide low grade copper deposits of Riordan mountain to the small high grade ledges of milling gold ore of Yuniman camp.

Outside of the work done by prospectors in their annual assessments little development work has been done in any of these camps, except on the Bullion in Olalla camp, on which the owners have done considerable work, which has resulted in the opening up of a body of good grade copper ore.

From this short sketch of the mineral resources of the Similkameen district you will see that the investor looking for mineral prospects in this district would not have any trouble in finding them. His

chief difficulty would be in choosing the best camps to invest in and the best claim in that camp.

There is a good trunk road all through the district, starting from Penticton, where there is connection with the C.P.R., running via Olalla and Hedley to Princeton, thence up the Tulameen river and Otter creek, past Boulder creek and out to Spence's Bridge on the C.P.R. via Nicola. There is also a wagon road from Penticton to the Nickel Plate mine, via Iron and Riordan mountains.

No description of the mineral resources of the Similkameen district would be complete without mentioning the coal measures around Princeton, which cover an area of 30 square miles, or 19,200 acres, and which have been proven to contain over 60 feet of coal, made up of seams varying from 2½ feet to 18 feet in thickness.

Yours truly,

F. W. GROVES, M.E.

BOARD OF TRADE.

Rules of Procedure Adopted—Board Addressed by A. E. Howse.

At the regular meeting of the board of trade Thursday night the rules and regulations of the board were presented by the committee appointed to draft them and adopted.

The letter for publication and read before the board by F. W. Groves, P.L.S., was discussed and approved.

On invitation of the president, A. E. Howse of Nicola Lake was invited to address the board, which he did at some length. He complimented the board upon the good already accomplished by it and outlined the sphere of usefulness which it would fill in the future. He reviewed the railway situation in the province, intimating that there was not much hope of railway construction being undertaken in any part of the province where a subsidy was sought for that purpose, seeing that the life of the government in its present weak condition would be cut short if one railway scheme were favored and not all of the dozen or more seeking aid. However, he sincerely hoped, if there were a summer railway session of the legislature, that both the Similkameen and Nicola districts would get a railway for which both were in such sore need. Of Premier McBride's unfeigned desire to have an "all-Canadian" Coast-Kootenay railway he had no doubt but he was hampered in many ways and the opinion was gaining ground with all shades of political belief that the sole remedy lay in a general election and the return of either party to power with a substantial majority.

Touching upon the recent mining convention at Victoria, at which he was present, Mr. Howse said that the permanency of the association was now assured and the lasting good it had done made it

[Continued on page 3.]

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The Princeton Publishing Co.
A. E. Howse, Manager.

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TELEPHONE AND MAILS.

Resolutions recently passed by the Princeton board of trade urging the Dominion government through the sitting member for Yale-Cariboo, Mr. Galliher, M.P., to make an appropriation sufficient to construct a telephone line through the Similkameen, will have the hearty endorsement of every resident in the district. The need of it is so pressing and apparent that it seems to be one of those matters which without argument settle themselves in the businesslike phrase "Ask and ye shall receive." The line would connect with the government constructed one at Nicola Lake, following the mail route to Princeton, thus linking it with the smaller places and giving direct communication with Kamloops, perhaps the largest and most important point in the riding. The distance between Nicola Lake and Princeton is about 70 miles. The country along the route affords all the pole timber required close at hand. All telegrams would go over this route and the local business would amply provide interest on cost and maintenance. From Princeton to Pentiction via Fairview and Okanagan Falls is about 80 miles, or a total of about 150 miles from Nicola Lake to Pentiction, the whole being easy of construction because of the abundance of timber, through long stretches of which the wire could be suspended from trees. Five towns and villages would be connected on the route from Princeton to Pentiction over which there is a lot of freight and passenger traffic. This portion would, beyond all doubt, be remunerative from its very inception. The government will be at some pains to find in all broad Canada a parallel to the extremely isolated and bereft conditions prevailing throughout the Similkameen for lack of a telephone service. The agitation begun some months ago for an improved mail service between Pentiction and Princeton has borne little fruit beyond the acknowledgment by the sitting member (would he were more frequently a rising member) of his attention being drawn to the matter. As with the telephone line so is it

with the neglected postal conditions—they are so self-evident as to require little comment. The mail service throughout the Similkameen riding is the slowest in the Dominion, if not in the world. It takes at least one week to get a letter in reply from the nearest postoffice to Princeton; to outside points and the extremities of the riding a fortnight is the usual time required. The Similkameen has enough of rugged, unavoidable physical obstacles in the way of progress without imposing human negligence and tardiness upon a people already freighted with cares inflicted by the provincial government.

Mr. Galliher has it in his power on the eve of parting with his loyal constituents here to leave behind him something in thankful remembrance that will outwear his allotted span of life. Or, he may leave to his successor a legacy of unfinished and procrastinated business which will blur the political party to which he belongs and cause his own record to be held in blighting derision as well by friend as foe. It has come to a "show down" with the people of the Similkameen in their present exasperated frame of mind and from now henceforth it is performance and not promise they require. The pleas for telephone and mail facilities are eloquent in themselves—to be heard only to be granted. The governments at Ottawa and Victoria have turned a deaf ear to every wail coming from this district until now they are so callous as to require open mutiny to bring them to their senses. Will they give a railway, telephone and better mail service or do they want a rough-and-tumble rebellion in the ranks of their respective parties?

NOTICE.
TAKE NOTICE that sixty days after date I intend to apply to the Hon. the Chief Commissioner of Lands and Works for permission to purchase forty acres of Crown lands for pasturing purposes. Commencing at a post marked F. Fremb's W. corner on the east and west line on the north end of my pre-emption in Oter on the north, thence 20 chains north, thence 20 chains east, thence 20 chains south, thence 20 chains west to place of commencement.
F. FREMBD.
Dated March 12th, 1904.



Court of Revision and Appeal—North Yale.

NOTICE is hereby given that Courts of Revision and Appeal for North Yale under the "Assessment Act, 1903," will be held at
THE COURT HOUSE, KAMLOOPS, B.C. on Tuesday, March 22, 1904, at 11 a.m.
THE COURT HOUSE, NICOLA LAKE, B.C., on Monday, March 28, 1904, at 11 a.m.
THE COURT HOUSE, PRINCETON, B.C., on Wednesday, March 30, 1904, at 2 p.m.
Dated at Kamloops, B.C., this 16th day of February, 1904.
ALEC. D. MACINTYRE,
Judge of said Court.

JAS. CLARK
WATCHMAKER
and JEWELLER
ALL WORK WARRANTED
Hedley and Princeton

NOTICE.

June Bug mineral claim, situate in the Similkameen mining division of Yale district. Where located: On Copper mountain.
Take notice that I, F. W. Groves, free miner's certificate No. B72044, acting for self and Sydney M. Johnson, free miner's certificate No. B47751 and Claud M. Snowden, free miner's certificate No. B6356, intend, sixty days from the date hereof, to apply to the mining recorder for a certificate of improvements, for the purpose of obtaining a crown grant of the above claim.
And further take notice that action, under section 37, must be commenced before the issuance of such Certificate of Improvements.
Dated this 12th day of February, A.D. 1904.

NOTICE.

Homestake mineral claim, situate in the Similkameen mining division of Yale district. Where located: On Kennedy mountain.
Take notice that I, F. W. Groves, acting as agent for Sydney M. Johnson free miner's certificate No. B47751 and Herbert R. Davidson, free miner's certificate No. B5327, intend, sixty days from the date hereof, to apply to the mining recorder for a certificate of improvements, for the purpose of obtaining a crown grant of the above claim.
And further take notice that action, under section 37, must be commenced before the issuance of such certificate of improvements.
Dated this 12th day of February, 1904.

NOTICE.

Copperania mineral claim, situate in the Similkameen mining division of Yale district. Where located: On Kennedy mountain.
Take notice that I, F. W. Groves, acting as agent for Thomas Henderson, free miner's certificate No. B71943, Arthur B. Clabon, free miner's certificate, No. B7545, Edward Brown, free miner's certificate, No. B75317, and Smith Curtis, free miner's certificate No. B75317, intend, sixty days from the date hereof, to apply to the Mining Recorder for a Certificate of Improvements, for the purpose of obtaining a Crown Grant of the above claim.
And further take notice that action, under section 37, must be commenced before the issuance of such Certificate of Improvements.
Dated this 12th day of February, A.D. 1904.

NOTICE.

Nubian fractional mineral claim, situate in the Similkameen mining division of Yale district. Where located: On Kennedy mountain.
Take notice that I, F. W. Groves, acting as agent for Arthur B. Clabon, free miner's certificate No. B7545, Edward Brown, free miner's certificate, B75318, and Smith Curtis, free miner's certificate, No. B75317, intend, sixty days from the date hereof, to apply to the Mining Recorder for a certificate of improvements, for the purpose of obtaining a crown grant of the above claims. And further take notice that action, under section 37, must be commenced before the issuance of such Certificate of Improvements.
Dated this 12th day of February, A.D. 1904.

In the Supreme Court of British Columbia.

In the matter of Charles Johnson, deceased, and in the matter of the "Intestate Estates Act."

Pursuant to an order made herein, tenders, addressed to the Administrator in care of the undersigned, will be received up to the SEVENTEENTH DAY OF MARCH, 1904, for the purchase of the pre-emption claim of the above named deceased, situate in the Nicola division of Yale district, and described as being situated on the north side of the Tulameen river, about four miles west of Princeton, B.C. and formerly occupied by Charles Johnson.
Tenders shall state (1) the amount offered for the pre-emption before Crown grant, (2) the amount offered for the same after Crown grant. It is required that the party or parties whose tender may be accepted shall execute an agreement for the purchase of the lands and shall upon the execution thereof pay to the administrator, thirty per cent of the purchase moneys or as the Court may direct.
The highest or any tender not necessarily accepted. Further particulars may be obtained upon application to the undersigned.
Dated the 18th of January, 1904.
L. P. ECKSTEIN, Morrison block, Grand Forks, B.C., Solicitor for Charles B. Peterson, the Administrator, Grand Forks, B.C.

NOTICE.

In the matter of the Estate of Charles Johnson, deceased, late of Tulameen river, near Princeton, Farmer.

Notice is hereby given that all persons having claims against the estate of the said Charles Johnson, who died on or about the 15th day of January, 1903, are required to present or before the TENTH DAY OF MARCH, 1904, to send to the undersigned Administrator or his solicitor, full particulars of their respective claims.
And further take notice that after such date the administrator will proceed to distribute the assets among the parties entitled thereto, having no regard to the claims of which he shall then have notice and that the said Administrator will not be liable to any person of whose claims notice shall not have been received at the time of distribution.
Dated the 18th of January, 1904.
CHARLES B. PETERSON
Administrator,
Grand Forks, B.C.
L. P. Eckstein, Grand Forks, B.C., solicitor for said Administrator.

NOTICE.

Ingersoll Belle mineral claim, situate in the Similkameen mining division of Yale district. Where located: On Copper mountain.

Take notice that I, F. W. Groves, acting as agent for Hannibal L. Jones, free miner's certificate No. B63574, Arthur B. Clabon, free miner's certificate No. B75545, Edward Brown, free miner's certificate No. B75318, and Smith Curtis, free miner's certificate No. B75317, intend, sixty days from the date hereof, to apply to the Mining Recorder for a certificate of improvements, for the purpose of obtaining a crown grant of the above claim.
And further take notice that action, under section 37, must be commenced before the issuance of such certificate of improvements.
Dated this 12th day of February, A.D. 1904.

NOTICE.

Magnetic mineral claim, situate in the Similkameen mining division of Yale district. Where located: On Kennedy mountain.
Take notice that I, F. W. Groves, acting as agent for Hannibal L. Jones, free miner's certificate No. B63574, and Arthur B. Clabon, free miner's certificate No. B75545, intend, sixty days from the date hereof, to apply to the mining recorder for a certificate of improvements, for the purpose of obtaining a crown grant of the above claim.
And further take notice that action, under section 37, must be commenced before the issuance of such certificate of improvements.
Dated this 12th day of February, 1904.

NOTICE OF FORFEITURE

To ANTONIO SCARPELLI and any person to whom he may have transferred his interest in the Victoria and Two Brothers mineral claims situate at 16-mile Creek in the Osoyoos mining division of Yale district.
You are hereby required to take notice that I have expended for recording certificates of work done on the above claims for the years ending June 10, 1901 and June 10, 1902, the sum of Ten Dollars, being an expenditure necessary to enable me to hold said claims and you are hereby required to contribute your share or proportion of such expenditure, namely, Three Dollars and thirty-three and one-third cents, together with all cost of advertising. If you fail or refuse to contribute such amount, including advertising, within ninety days from date of first publication of this notice in the Similkameen Star, your interest will become vested in me, your owner, under the provisions of the Mineral Act and Amending Acts.
Dated this 12th day of December, 1903.
FRANCESCO FERA.

SALE OF GOVERNMENT LAND BY TENDER.

NOTICE is hereby given that under instructions, sealed tenders endorsed "Tender for Lot 2465, Osoyoos," will be received by the undersigned up to noon on
Wednesday, the 16th day of March, next,

for the purchase of Lot 2465, Group I, Osoyoos Division of Yale District, lying west of and adjoining the townsite of Similkameen City, and containing 100 acres by admeasurement.

Every tender must be accompanied by cash or marked cheques equal to 20 per cent. of the amount tendered. This deposit will be forfeited in case the balance of the purchase money is not paid within sixty days of the notification of the acceptance of a tender, and returned if the tender is not accepted.

The highest or any tender not necessarily accepted.
L. NORRIS,
Assistant Commissioner of Lands and Works,
Vernon, B.C., January 29th, 1904.

STRAY MARE.

CAME TO MY PLACE over a year ago, one sorrel mare, branded IX on left shoulder. Owner is requested to prove property, pay charges and take away within thirty days, otherwise will be sold to pay expenses.
AUG. CARLSON,
Princeton, Feb. 27, 1904.

STRAY HORSE.

CAME TO GRANITE CREEK, one gray horse branded half circle A on left shoulder. Owner is requested to prove property, pay charges and take away within thirty days, otherwise will be sold to pay expenses.
W. H. HOLMES,
Granite Creek, Feb. 27, 1904.

STRAY HORSES.

CAME TO MY PLACE last April, two head of horses—one sorrel chestnut, half-faced, one branded T on right hip—also one half-faced, bay horse branded P on left hip, PJ on left shoulder and JS on right shoulder. If not claimed in thirty days will be sold to pay expenses.
Ollala, Feb. 20, 1904.
JOE MARCIL.

F. W. GROVES,

A. R. COLL., SC. D.,
Civil and Mining Engineer
PROVINCIAL LAND SURVEYOR.
UNDERGROUND SURVEYS.
PRINCETON, - - B. C.

BOARD OF TRADE.
(Concluded from page 1.)

a valued friend of the province and worthy of every man's support. He urged the importance of reviving the local mining association and of having a delegate at the conventions, regret being expressed that Princeton was not represented at the last convention. Concluding, Mr. Howse expressed the hope that all in this district would reap the reward of prosperity to which they were so fairly entitled after years of patient waiting and labor, and asked them to be assured of the good will and co-operation of the Nicola people in all their public enterprises. The meeting adjourned till next Thursday evening at 7:30 p.m.

LOCAL PARAGRAPHS.

Brief News Notes and Personal Mention of People Passing.
Roads are in a dangerous condition between here and Hedley. Where is the new road superintendent?

At the public meeting held in the court house on the 17th March, Hugh Hunter in the chair, the following fire wardens were elected: C. O. French, E. B. Hall and F. W. Groves, to serve one year.

The 17th of "Ould Ireland" was not forgotten though little 'in evidence' in Princeton.

"Grandpa" that is the proud appellation borne by W. C. Lyall. Congratulations, "young" man—may your shadow(s) ever increase.
B. B. Broomell, adjuster of losses by fire, was in town settling insurance claims occasioned by the recent burning of the hotel and store. Mr. Broomell admires Princeton and he hopes to put in some "off" days this summer angling for trout in the lakes and rivers of this vicinity. He took a large sample of coal to show his neighbor Tacomites and possibly induce them to buy a coal township.

Jas. Murchison was a passenger by last Saturday's stage, and will be engaged to do the fine carpentry on the A. E. Howse Co's store.

Ben Baker and Bill Allison are working on the Highland Chief; Bob Cramer and Bert Bryant are hard at work on the Silver Dollar and Tom McAlpin and Jim D'Arcy have gone down to Summerland to size up a big ditching job they have an eye on.

A. E. Howse arrived in town from Nicola Lake on last Saturday's stage, remaining a week to investigate his recent losses by fire and the adjustment of same with insurance company.

Robert Stevenson, pioneer miner and prospector of the Similkameen and Cariboo, left on Monday for Keremeos where he is heavily interested in mineral. Mr. Stevenson had the misfortune to lose his fine collection of ore specimens in the recent fire in some of which he is confident radium existed. In his own words referring to his loss, he said: "My-oh-my! fully an ounce of radium lost in those specimens, but never mind I know where there's more!"

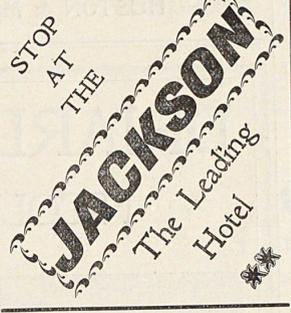
A General Banking Business

A general banking business transacted by the Bank of Hamilton. Capital paid up, \$2,200,000. Reserve and surplus profits, \$2,000,000. Interest allowed on Savings bank deposits of one dollar and upwards from date of deposit to date of withdrawal. A. H. SKEY, Agent, Kamloops, B.C.

NOTICE.

THIRTY days from date I intend to apply to the Chief Commissioner of Lands and Works for a license to prospect for coal on the following described lands:
Commencing at a post marked A. Hickling's N.W. corner, placed on left bank of Similkameen river, about 4 1/2 miles south of Princeton, and running 80 chains south, 80 chains east, 80 chains north, 80 chains west, to point of commencement, containing 640 acres.
A. HICKLING, Locator,
E. WATERMAN, Agent
Dated March 9, 1904.

R. H. ROGERS
M.A., B.C.L.
SOLICITOR
CONVEYANCER
NOTARY PUBLIC, Etc.
OLALLA P.O.
Similkameen, B.C.



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Paper, Hardware, Stoves, Nails, Drill Steel,
Harness and Saddlery.
Headquarters for Enderby Hungarian Flour, Northwest Oats, &c
J. A. SCHUBERT.

NICOLA is situated at the North foot of Nicola Lake, which is one of the most beautiful lakes in the Province, and from which flows the Nicola River, which is noted for its excellent trout fishing. NICOLA is also the key to the great Similkameen, Granite Creek, and Aspen Grove Mining Camps, and is the nearest point to the C. P. R.

SCIENCE JOTTINGS.

At the works of the Yarrow shipbuilding firm of London, interesting experiments have been carried out concerning the ratio of the grate area to the heating surface of boilers. This is an important consideration, as upon this proportion depends to a very appreciable extent the efficiency of the boiler. For the purposes of these tests a water tube boiler equal to 1,200 indicated horse power was employed. This boiler had 1,008 tubes, each 1 3/4 inches outside diameter, with an average length of 6 feet 9 1/4 inches. The test was conducted with a boiler having 53 square feet of grate, and with 3,217 square feet of heating surface, giving a ratio of 1 to 60.7. In the second test the grate was reduced to 40 square feet, with a slight change in the heating surface, giving a ratio of 1 to 78.2. The results showed that there was a much higher evaporative efficiency with the smaller grate. Each pound of fuel consumed gave with the small grate 10.57 pounds of steam, while in the other case it only gave 9.96 pounds.

It is stated that an American syndicate has proposed to the Russian government to construct a canal from the Baltic to the Black Sea for the sum of \$160,000,000, which is one-third less than the estimated official cost. The junction of its great northern and southern seas by a navigable estuary of sufficient width and depth to permit of the passage of men-of-war and ships of great tonnage has long been a favorite project in the councils of the Czar. From the one sea to the other the distance will not be less than 1,000 miles by the new scheme of inland navigation. The cost of construction, according to the offer made, would amount to \$160,000 per mile, which is not an unreasonable price to pay.

Mr. Marconi intends to make a test of his wireless telegraph system at long distances overland. So much of his experimental work has been carried out between coasts, that it will be refreshing to watch the performance of the system across country. Mr. Marconi will shortly cross the Atlantic on a visit to his wireless telegraph installations on the St. Lawrence river.

The Osiris prize has been divided between Madame Curie, in recognition of her part in the discovery of radium, and Prof. Branly, inventor of the system of wireless telegraphy which bears his name. The prize is worth \$20,000. Mm. Curie and her husband get \$12,000, the remainder going to Prof. Branly.

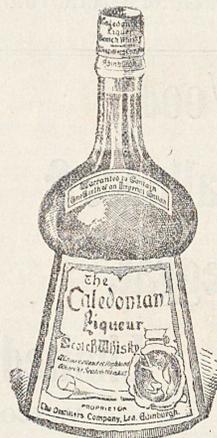
The illumination of the outside of the buildings and grounds at the World's Fair to be held at St. Louis this year will probably be the biggest piece of work of its kind that has yet been carried out. The contract calls for 300,000 incandescent lamps.

On McKinley's birthday President Roosevelt, the cabinet officers and all the Washington officials wore pink carnations. The memory of McKinley was in many minds and many were the anecdotes told of him. Congressman Dick said: "McKinley was always good to the poor. When he lived in Canton he had each winter a great stock of blankets, shoes, potatoes, Bibles, and so forth that he would distribute to the needy. One day he gave a Bible to a newsboy. He would not have ventured upon such a gift as this had not the newsboy asked for the book. 'I am glad,' Mr. McKinley said to the lad, 'that you want a Bible. Are you not happy now that you have got one?' 'Yes, sir,' said the boy. 'I know a place where I can trade it off for a fiddle.'"

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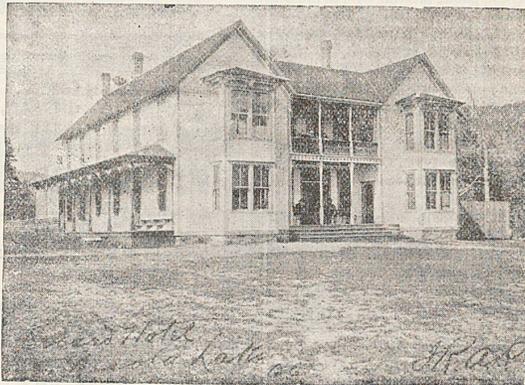
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Imported Mining Machinery.
Imports of mining machinery into Canada during 1903 were very large, the total value being \$1,281,185. Most of the machinery imported was supplied by manufacturers in the United States, the value of the imports from this source being \$1,206,405, while from Great Britain machinery to the value of \$61,425 was imported. Great Britain, however, supplied Canada last year with nearly double the quantity of wire rope as that furnished by the United States.

Taxation of Mines.
The Mining World of Chicago has this to say about the taxation of mines: "The system of taxation of mines and output as in vogue in British Columbia is hardly just or equitable to the miner or company. Assessments should be made on the net output after deducting freight and treatment charges. Inducement should be made to get capital to invest in mining. Tax the profit and not enterprise. Where such laws are in force in our western states the results are most satisfactory."

Great Northern Will Tap Phoenix.
Work on the Phoenix branch of the Great Northern will start as soon as the snow is off the ground, according to the promises of J. J. Hill to A. L. McMillan, managing director of the Le Roi mining company. The Boundary mines are still 20 miles from the railroad, which has been building toward them for a number of years. Mr. Hill has been sought by both the mining people and the Northport smelter owners to complete the line and at the last meeting of the Le Roi stockholders held in London Mr. McMillan reported to them the promise of Mr. Hill to begin the work at once.

Toronto Globe's War News.
The Russo-Japan conflict has commenced in earnest, and that part of the world is now the centre of interest. In order that our readers may be kept in the closest touch with the situation we have made special arrangements whereby they can have the Weekly Globe for the year 1904 on specially liberal terms. The Globe, with its usual enterprise, has made arrangements with the London Times whereby it is able to publish simultaneously the reports sent direct from the scene of action. The London Times has established its reputation as being the greatest and most reliable news-gatherer in the world, and its readers can have full benefit of its excellent staff of correspondents by reading the Daily or Weekly Globe. The Globe has the exclusive control of this service in Canada, and these reports will not appear in their original form in any other Canadian publication.

Humorous.
Never yet was strain of music
But 'twas matched by solemn hush;
Never yet an hour's snowfall
But it brought six days of slush.
The woman was doing her shopping. The counterjumper handed her a package and she slowly turned away. "Do I need anything else?" she absent-mindedly asked. "You have just bought some lawn," ventured the clerk. "Don't you think you will need some hose?"
"Folks say you only married me because I had money." "Nonsense! My principal reason for marrying you was because I had none."
"Bansai" is the Japanese word for "hurrah." The Russian equivalent is "Kzestrovkosoffbrisky," and it may be truly said that when a band of Muscovites shout it they can make the welkin ring.

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