Assembly
JAN 13 1911
VICTORIA, B.C.

# The Phoenix Pioneer

TWELFTH YEAR — PHOENIX, B.C., SATURDAY, JANUARY 7, 1911 — No 7

# Boundary District Mines and Smelters

## Fire at Rawhide.

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The British Columbia Copper company, which now controls the property, is to be congratulated on their expedition in erecting temporary buildings and having the mine continue operations without practically any interruption. Although a blacksmith shop is the backbone of any mining work, operations underground were resumed at the Rawhide 24 hours after the fire.

The loss by fire will total about $100,000, the plant being up-to-date and a large supply of fittings having been on hand. The loss is partly covered by insurance.

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| Number Seven | 240 |
| Total | 38,897 |

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Outstanding features in the past year's Boundary mining progress have been the completion of the enlargements to Granby's large smelting works; enlarging of the British Columbia Copper smelter's capacity by 33 per cent; new equipment and resumption of shipments of the Number Seven; resumption of Rawhide mine; construction of aerial tramways from the Lone Star and Number Seven mines to Boundary Falls; new 15-stamp mill at the Jewel mine; driving two exploration tunnels near Greenwood, and the commencement of coal production.

The total ore shipments from the Boundary mines during 1910 exceeded the previous year's output by 100,000 tons; Granby's increase was about 50,000 tons; Mother Lode, 15,000; Rawhide, 48,000, while the Snowshoe and Oro Denoro show decreases. The tonnage returns for 1910 were:

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### Granby Company

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The detailed report of the superintendent, O. B. Smith, concerning operations at the mine for the last fiscal year were published in these columns in October. Summarized: Sinking, raising, drifting and crosscutting, 80,072 feet; diamond drilling, 46,626 feet; ore blocked out, 6,429,169 tons, containing (estimated) 1.25 per cent. copper, gold .043 oz., and silver .250 oz. per ton.

GRANBY SMELTER.

The Granby smelter is the largest copper reduction works in the British Empire, and among the biggest in the world, second only to the great Washoe works in Montana. It has eight rectangular water-jacketed blast furnaces—six 44 by 266 in., and two 48 by 260 in., at tuyeres, depth 15 ft. 8 in.—having a total capacity of 4,000 to 4,500 tons of ore per diem; 12 Connersville blowers with a total air capacity of 239,000 cu. ft.; specially designed mechanical charging system; slag haulage by 14-ton steam locomotives and 44-cu ft. slag cars; three converter stands 84 by 126 in., operated by electricity, and one stand 72 by 100 in., for which hydraulic power is used, converter capacity being 36,000,000 lb. of copper per annum; three blowing engines, total capacity 19,700 cu. ft. of air per min., and much accessory plant and machinery.

Conditions at the Granby company's works are different to those obtaining at other copper smelters outside the Boundary district of British Columbia, in that the Granby company has to treat an ore giving a very low percentage of sulphur on the charge—as low as two per cent. On the other hand, the ore contains silica, iron and lime in such favorable proportions that no barren flux, neither iron nor lime, is required. If it were necessary to use an iron flux in smelting Boundary district copper ores, it would not be practicable to mine and treat them at a profit, unless the price of copper was much higher than it usually is, for the iron ore obtainable in the district in considerable quantity does not contain any marketable value. The slag from the Granby furnaces runs from 45 to 48 per cent. silica all the time, while occasionally it has contained as high as 52 per cent., which has been the maximum reached. The ore is smelted as it comes from the mine; as a rule it ranges from 40 to 48 per cent. silica. Smelters in other parts generally have ores running higher in sulphur than they require; but they have the advantage of low silica content in the ore.

The low average value of Granby ores makes it imperative that labor costs shall be kept down as much as possible; consequently, wherever it is practicable to use them, mechanical devices are substituted for the labor of men. This is especially the case in feeding the furnaces, there being no mixing of the charge or other handling of materials between the ore and coke bins and the furnaces. Cars, pushed by electric locomotives, receive the ore and coke direct from the storage bins and dump them into the furnaces, the mechanical arrangements being such as to admit of this being done quickly and effectively. The company's engineers have devised many appliances for labor saving, so that economy in working methods is general throughout both mines and smelter.

It is probable that in the early future changes will be made in the smelting practice that will admit of a further saving being made in cost of treating Granby ores. The company has lately secured under option of purchase mines that it is believed will yield largely of heavy sulphide ores. Heretofore it has been, and still is, the practice at the company's smelter to produce a 35 to 40 per cent. copper matte at first smelting, which involves a loss in the slag of about 5 lb. of copper to the ton of ore. With the sulphide ores, above referred to, as an aid to the proposed change, it is believed a saving will be effected, and as a consequence more profit be made out of the ores from the company's big mines in Phoenix. The ore will be smelted to a 10 per cent. matte, which will be regraded to a 45 per cent. matte for converting. It is thought that not only will the cost of converting to blister copper be less than at pre-

(Continued on Page Seven)

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# FIRST SEMI-ANNUAL STATEMENT OF GRANBY

### Is Sent By President With Dividend Checks, Dec. 31

The publicity policy which the new management of the Granby Consolidated Mining, Smelting & Power company decided upon at the stockholders' meeting last October has taken concrete form in the first semi-annual statement which was mailed with dividend checks.

George Martin Luther, president of the company, in this statement says: "Pursuant to a resolution passed at your last annual meeting the directors beg to submit the following brief summary of events since that date.

"Until very recently we have been running at about half capacity and the profits have naturally been small, but sufficient in the opinion of the directors to justify the payment of a small dividend in December.

"The tunnel connections and machinery which were destroyed by fire last August are now fully replaced, and by Jan. 1, 1911, the entire smelting plant will be running full blast at lower cost per ton of ore than at any previous time.

"Development work has been pushed vigorously. Diamond drill operations at the south end of the Knob Hill and adjoining claims at Phoenix have disclosed a considerable body of ore, and it is expected that the drift from the present workings which is now being run will add materially to our reserves.

"Two options on new properties have been taken on attractive terms, one on the Cliff Consolidated St. Elmo properties at Rossland, B. C., and one on those of the Hidden Creek Copper company on the coast of British Columbia, both of which are considered by engineers as likely to prove important. If the developments now in progress confirm our expectations in these cases, the question of actual purchase will be referred to a special meeting of the stockholders. Everything indicates an energetic and successful campaign during the coming year."

At a cost approximating 10.20 cents a pound, Granby produced in November 1,410,261 pounds of copper as compared with 1,184,234 pounds in October. Precious metal contents totaled 36,228 ounces of silver and 2,587 ounces of gold.

In November six furnaces of the smelter were in blast. Early in December another furnace was blown in and in a few days the eighth and last will be started, so that the entire battery will be in operation.

For some time earlier in the year the smelter was running but half capacity but in October orders were wired to blow in immediately two additional furnaces. When the entire plant is running 4,500 tons of ore can be treated daily.

The company's total product for the first 11 months of this year is reported as 18,373,435.

# PROBABLE DIVIDEND THIS MONTH.

### Regular Dividend Basis for the B. C. Copper.

The British Columbia Copper company has practically decided to place the stock on a regular dividend basis at the meeting of the directors in New York this month. The rate will be either 10 per cent. or 12 per cent., which on $5 par means the yearly disbursement of 50 cents or 60 cents a share.

The company paid its first and only dividend in September, 1907, amounting to 40 cents a share, but conditions following this disbursement did not warrant their continuation. At the present time there are about 2,000 stockholders in the British Columbia Copper company.

A dividend fund exceeding $300,000 has already accumulated, and with the smelter in full operation as at present, and no further decline in copper prices, this surplus should be further augmented by $40,000 each in December and January.

The final figures for November production at the British Columbia smelter show that during that month 917,994 pounds of fine copper, 2,846 ounces of gold and 10,794 ounces of silver were produced. Net profits for the period amounted to $35,221. The copper production seows an increase of more than 200,000 pounds over October and represents a record month for the year. Based on the figures for last month British Columbia is prodncing at the rate of more than 10,000,000 pounds per annuam.

The large additional slag locomotive arrived at the property on Dec. 11, and now the furnaces are being run to capacity aggregating from 2,100 to 2,500 tons of ore per day. The company has been greatly handicapped by not having this slag locomotive, which was ordered in July, and has been required to operate the blast furnaces at reduced capacity. Had it not been for this, and to some extent to ore lower than average grade having been treated, owing to some of the residues, which resulted from the sliding off of the walls in one of the mines, becoming mixed with the vein material and finding its way to the smelter, November profits would probably have been around $55,000. During the month approximately 600 tons of ore per day were taken from the New Dominion and from 1,500 to 1,600 tons from the Mother Lode mines.

### Option on Alpha Group.

A 30-day option for $50,000 for their half interest in the Alpha group of mineral claims, adjoining the Standard silver-lead mine at Silverton, has been given by N. F. McNaught, of Silverton, and James McNaught, of New York, to D. B. Wilcox, of Port Arthur, Ont. It is 17 years since the property was worked.


**WOOD**

First-class Fir and Tamarac Wood, $5.00 per cord
Pine Wood, $4.50 per cord.
Pine Wood, double cut, per cord, $6.00.

**WOOD DELIVERED ON SHORT NOTICE.** 'Phone B 32

**Johnson & Anderson**

Love's Iron, Quinine and Wine; its a genuine bracing tonic—just the thing for this time of year. Price 75 cents.

**WE WISH**

To extend to you the Compliments of the Season.

Our

**Special Brew**

Is now on the Market. Nothing anywhere else like it.

Phone Orders early to No. 23

**PHOENIX BREWING CO., LTD.**

**DRAYING**

Of all kinds promptly attended to. Rapid Express and Baggage Transfer. Careful attention to all orders Phone A65

James G. McKeown

E. A. Black, Agent.


## NOTICE.

PUBLIC NOTICE is hereby given that the Canadian Pacific Railway Company (as Lessee of and exercising the franchises of the Columbia and Western Railway) did deposit, in accordance with the provisions of the Railway Act, on the third day of December, 1910, in the Kamloops Registry Office, Province of British Columbia, as number 836, plan, profile and book of reference showing the location of its Wellington Camp Branch from Mile 0 to Mile 3.15 proposed to be constructed from point Mile 5.5 on the Phoenix Branch of the said Columbia and Western Railway, and that thirty days after this notice or so soon thereafter as the application can be heard, the said Canadian Pacific Railway Company intends to apply to the Board of Railway Commissioners for Canada for approval of said branch.

Dated this 10th day of December, 1910.

E. W. BATEMAN,
Local Right of Way and Lease Agent, Canadian Pacific Railway Company.

## Nomination Notice

### City of Phoenix.

PUBLIC NOTICE is hereby given to the electors of the Municipality of Phoenix, that I require the presence of the said electors at the City Hall, Dominion Avenue, on the 9th day of January, 1911, at 12 o'clock noon, for the purpose of electing persons to represent them in the Municipal Council as Mayor and Aldermen, and School Trustees. The mode of nomination of candidates shall be as follows:

The candidates shall be nominated in writing; the writing shall be subscribed by two voters of the municipality as proposer and seconder, and shall be delivered to the Returning Officer at any time between the date of notice and 2 P.M. on the day of the nomination, and in the event of a poll being necessary, such poll will be opened on the 12th day of January, A. D. 1911, at the City Hall, Dominion Avenue, of which every person is hereby required to take notice and govern himself accordingly.

Persons qualified to be nominated for and elected as Mayor for the Corporation of the City of Phoenix, B. C., shall be such persons as are male British subjects of the full age of twenty-one years, and are not disqualified under any law, and who have been for the six months next preceding the day of nomination the registered owner in the Land Registry Office, of land or real property, in the City of the assessed value, on the last municipal assessment roll, of one thousand dollars or more, over and above any registered judgment or charge, and who are otherwise as municipal voters.

Persons qualified to be nominated and elected as Aldermen for the Corporation of the City of Phoenix, B. C., shall be such persons as are male British subjects of the full age of twenty-one years, and are not disqualified under any law, and who have been for the six months next preceding the day of nomination the registered owner, in the Land Registry Office, of land or real property in the City, of the assessed value, on the last municipal assessment roll, of five hundred dollars or more, over and above any registered judgment or charge and who are otherwise qualified as municipal voters.

The qualification by law required to be possessed by the candidates for the office of School Trustees is as follows:

In every School District, any person being a householder in the School district, and being a British subject of the full age of twenty-one years, and otherwise qualified by this Act to vote at an election of School Trustees in the said School District, shall be eligible to be elected or to serve as a School Trustee in a School District.

Given under my hand at Phoenix, B. C., the 3rd day of January 1911.

H. HARTLEY,
Returning Officer.


**A. S. HOOD**

Fire, Life and Accident Insurance. General Agents.

**Bank Block, Phoenix, B.C.**


Advertising is simply the voice of the market-place speaking to all men in the highways and byways.

# WHAT A C.P.R. FIREMAN OWES TO ZAM-BUK.

George H. Duffus of Robertson St., Fort William, a C. P. R. fireman, says: "The water gauge of my locomotive burst and scalded the whole left side of my face terribly. I had a box of Zam-Buk in my pocket, which I was using for a sore on my lip, and when I had recovered from the first shock of the accident, I produced the balm and had it applied freely to the scalded parts. I was suffering acute agony, but within a wonderfully short time Zam-Buk gave me ease. I was able to continue my journey and upon reaching home, I obtained more Zam-Buk and continued the treatment. Zam-Buk acted wonderfully well, and in a few days had the wound nicely healing. I don't know anything so fine as Zam-Buk as a healer of burns, scalds, cuts, and similar injuries, which workers are so liable to, and, in my opinion, a box of Zam-Buk should be kept handy in every worker's home."

Zam-Buk will also be found a sure cure for cold sores, chapped hands, frost bite, ulcers, blood-poison, varicose sores, piles, scalp sores, ringworm, inflamed patches, babies' eruptions and chapped places, cuts, burns, bruises, and skin injuries generally. All druggists and stores sell at 50c. box or post free from Zam-Buk Co., Toronto, upon receipt of price.

**FREE BOX**
Send this Coupon and a 1c. stamp to Zam-Buk Co., and free trial box of Zam-Buk will be mailed you.



# EASTERN TOWNSHIPS BANK

**Capital and Reserve, $5,250,000**

**Head Office - Established 1859 - SHERBROOKE, QUE.**

WM. FARWELL, President. S. H. C. MINER, Vice President. J. MACKINNON, General Manager

**82 BRANCHES IN PROVINCE OF QUEBEC**

AND AT

WINNIPEG, MAN.
COLEMAN, ALTA.
LETHBRIDGE, ALTA.
TABER, ALTA.
VANCOUVER, B. C.
GRAND FORKS, B. C.
PHOENIX, B. C.
PRINCETON, B. C.

Savings Department at all Offices.

CORRESPONDENTS ALL OVER THE WORLD



# GREENWOOD LIQUOR CO.

We furnish the trade all over the Boundary with the Choicest Imported and Domestic

**Wines, Liquors and Cigars**

As we ship direct in carloads, we can make prices right, and give prompt shipment

**JAMES McCREATH & CO.**
GREENWOOD, B.C.



# Royal Billiard Parlors

**POOL TABLES AND BOWLING ALLEYS**

Complete line of PIPES, TOBACCOS, CIGARS AND CIGARETTES . . . . . Always in Stock
Finest Secection of CONFECTIONERY, Try the FAMOUS - KOHINOOR - CHOCOLATES

**New First-Class Barber Shop** In Connection.

AN EASY SHAVE, STYLISH HAIRCUT, REFRESHING MASSAGE . . . . . INVIGORATING SHAMPOO.

**COSGROVE & McASTOCKER, Proprietors**


## W. H. ALDRIDGE GOES TO NEW YORK FIRM

### Which Controls Many U. S. Copper Mines

Referring to the resignation of W. H. Aldridge as managing director of the Consolidated Mining and Smelting company, announced in last week's PIONEER, the Rossland Miner has the following to say:

Since the inception of the company, his has been the guiding hand in directing the development and growth of its properties, until the various mines are to-day in splendid condition, and the old Trail smelter has been transformed from an incomplete and primitive plant to one of the most modern and successful institutions of its kind on the continent.

As the executive representative and metallurical expert of the C. P. R., he has done more for the opening and developing of the mining industry of the province than any other individual. Coming here in 1897 he immediately set about opening and developing both the metal and coal mines of the province. While his direct work was more particularly confined to the Kootenays, yet it had an important bearing on the whole province. It was largely through his instrumentality that the C.P.R. built into the Boundary country in order that that district might have access to smelters, and through his efforts the Dominion government was induced to grant the lead bounty which has been the means of keeping alive lead mining in the province. From a very small beginning he has gradually built up at Trail one of the finest smelting industries on the continent, handling as it does both silver-lead and gold-copper ores. He was the first to recognize the merit of electricity in the separation of lead ores and the first electrolytic process for the refining of lead and silver on this continent was established at Trail. This has proved an absolute success, producing perfectly pure lead and silver bullion at a minimum of cost. It has from the very beginning been his desire to establish the mining industry on a stable and permanent basis. With this object in view, works have been added for the manufacture of lead-pipe and the by-products of sulphur, copper, antimony, etc. It was also through his efforts that the alteration in the duty was made enabling them to establish a large lead corroding works at Montreal, so that now there is being produced in Canada, white lead and manufactured paints made from ore mined and smelted in the Dominion.

These are but one or two examples of the way in which his influence has been felt throughout the whole Dominion. Probably no man has wider acquaintances or is more respected by business men than Mr. Aldridge and any proposal that he is prepared to submit always has the ear of financial men. His departure is a distinct loss, not only to business and industrial interests, but to the many hundreds of men in his employ, who bear to him a feeling of loyalty and good will, actuated by his disposition to be at all times fair, courteous and considerate of their welfare. Concerning the change Mr. Aldridge said:

"While it is true that I am giving up the actual control of the Consolidated company's operations, yet I expect to remain as a director and in an advisory capacity, and intend to keep in as close touch with the various questions involved in the company's general policy as in the past.

"My decision to give up the general management was made in order to enable me to becom associated with William B. Thompson, of New York, who is a director of several of the largesr copper producing companies in the United States, and who, with Gunn, Thompson and company, have control of a number of the leading copper mines of Arizona and Nevada.

"R. H. Stewart, who has for several years so ably managed the Consolidated company's mines, has been appointed general manager, and S. G. Blaylock, formerly metallurgist at Trail smelter and lately superintendent of the St. Eugene and Sullivan mines, becomes assistant general manager."


## 6 Year Old Girl

### Cured of Kidney Trouble

Mrs. Alex. Moore, of James Street, Oxford, N. S., says: "Booth's Kidney Pills cured our little daughter Christian, age six years, of many symptoms of kidney weakness. She complained of a sore back, the kidney secretions were frequent and uncontrollable, especially at night. Her stomach was weak and her appetite poor. This caused her to have frequent headaches, and the least exertion would tire her. We had tried many remedies, but she did not improve. Finally we heard of Booth's Kidney Pills and procured a box. In time she was well and does not now complain about her back, the kidney secretions have become normal, and she plays around the house with no apparent fatigue. We always recommend Booth's Kidney Pills."

Booth's Kidney Pills

Booth's Kidney Pills carry a guarantee that if you derive no benefit your money will be refunded. Booth's Kidney Pills are a specific for all diseases of the kidneys and bladder. Sold by all druggists, 50c. box, or post-paid from the R. T. Booth Co., Ltd., Fort Erie, Ont. Sold and guarenteed by JOHN LOVE, Druggist, Phoenix.


It is announced the Grand Trunk Pacific railway will bring five thousand Scotchmen to this country to work on railway construction. Such a contingent should make excellent settlers for the "new north" when the railway is built.

# Announcement

WE beg to inform the public generally, that we have taken over the DRY GOODS, GENTS' FURNISHINGS AND HOUSE FURNISHINGS DEPARTMENTS of the Hunter-Kendrick Co. Ltd., and will in future conduct these lines in connection with our Grocery and Hardware Business.

You are no doubt aware that the Hunter-Kendrick Co. controlled all the leading lines of Dry Goods and Men's Furnishings for the city of Phoenix.

We are taking over all the agencies such as Fit Reform Clothing, Slater Shoes, etc., so that in the future you will get the same high quality merchandise.

Mr. Dewar, who for so long had charge of these departments for the Hunter-Kendrick Co. will continue his services with us.

We would ask for a continuance of the patronage extended to our predecessors, and trust that we may always prove worthy of your confidence.

**Morrin-Thompson Co.**

**FRESH GROCERIES AND PROVISIONS**

# Hotel Brooklyn

The Only First-Class and Up-To-Date Hotel in Phoenix. New from cellar to roof. Best Sample Rooms in the Boundary, Opposite Great Northern Depot. Modern Bathrooms.

STEAM HEATED. ELECTRIC LIGHTED

James Marshall, Prop. **Phoenix, B.C.**

# QUEEN'S HOTEL

R. V. CHISHOLM, Prop.
DANNY DEANE, Manager.

This is the Largest and Newest Hotel in the city, heated by steam, and well furnished thoughout for the accommodation of the public. Everything Neat, Clean and Up-to-Date. Meals served at all hours.

**Bar Stocked with Choicest Liquors and Cigars**

**CENTRALLY LOCATED ON CORNER BRIDGE AND KNOB HILL AVENUE**

**Steam Heated, Electric Lighting.**
**Telephone 48 and 26**



**THE PHOENIX PIONEER**
**and**
**Boundary Mining Journal**

ISSUED WEEKLY
AT PHOENIX, BRITISH COLUMBIA
Subscription, 2.00 per year
2.50 to United States.
T. ALFRED LOVE, Publisher.

SATURDAY, JANUARY 7, 1911


The dawn of the new year broke auspiciously on Phoenix. Never have mining conditions and business generally been more satisfactory than they are at present. More men are now employed in the mines of the camp than ever before and the aggregate payroll on the tenth of this month will be a record one. The producing mines are all on a substantial basis, there is promise of new producers during 1911, while diamond drilling now in progress on two of the properties may add still greater life. Phoenix has experienced ups and downs during the year just passed, but its citizens were all in a position to enjoy the luxuries of the festive season, and with the price of copper—with which the life of the camp is so intimately connected—strengthening, there is every reason to look for increased prosperity during 1911.

The annual review number of the Nelson DAILY NEWS, issued last Tuesday, overshadows the excellent review editions of previous years. Many larger editions have been issued by provincial contemporaries, but it is doubtful if any have contained an equal amount of authentic information with that which is to be found in the twenty-eight pages issued by the DAILY NEWS. Its review of the progress of British Columbia mining—the leading industry of the province—is comprehensive, authentic and complete, while the successes in agriculture and horticulture are equally well presented. In presenting the glowing possibilities of the Kootenays, the annual reviews of the NEWS have become factors in the upbuilding of the favored district of which Nelson is the centre.

Who is the home merchant? He is the man who helps pay for the streets upon which you walk; for the schools in which your children or perhaps you were educated; he helps to keep up the church in which you worship. He is the man who builds a home which enhances the value of property. Every subscription paper has his name on it; he is the one who can't afford to swindle you. Self interest, if nothing else, would prevent this; he bears his share of the burden of good government and stays with you in sunshine and darkness; in the days of prosperity and adversity. These are but a few reasons why our patronage should be given to the home merchant.

Sir Montague Allan, president of the Merchants Bank of Canada, discussing the outlook for business in Canada, says: "Regarding the coming 12 months, a fair result is hoped for, business being generally good at present. There is still much railway construction in prospect, and more and more land is coming under cultivation. The tide of immigration turned this way is altogether likely to continue, and generally prospects for the next 12 months' business may be considered as bright."

Vice-President Whyte, of the Canadian Pacific, says: "Canada is going on splendidly, and will continue going on splendidly, unless one thing happens; and that one thing will be a change in the tariff. So long as the line is across Canada from east to west, so long will things progress and bring prosperity to the country; but once let the line be from south to north, then Canadian prosperity will vanish.

In lieu of world's fair in New York city in 1913, which failed of approval, it has been proposed to invite all Christian bodies of the world to meet in New York city in 1913 in interest of Christian unity.

Accidents on the Boundary branch of the C. P. R. are becoming entirely too frequent, and it is time for investigation.


**King Edward Lodge No. 36**
A. F. and A. M.

Regular communication at 8 p.m. Second Thursday of each month. Emergent meetings as called; Masonic Hall, McHale Block.

J. J. STRUTZEL, Secy. J. S. BOYCE, W.M.

**I.O.O.F.** **Snowshoe Lodge No. 36**

Meets every Monday Evening at Miners' Hall. Visiting brethren cordially invited.

J. P. McKenzie, Noble Grand.
W. A. Pickard, Fin. Secy.
T. A. Bean, Record. Secy.

**FRATERNAL ORDER OF EAGLES**
**Phoenix Aerie No. 158**

Meets in Union Hall, Friday evening. Visiting brothers are always welcome

J. Thornton, W. P.
Orrin D. Bush, W. Secy.

**K. of P. Lodge, No. 28**
**Phoenix, B.C.**

Meets TUESDAY EVENING at 7.30. Sojourning brothers cordially welcomed.

Gordon Thompson, K. of R.S.
J. W. Hannam, C.C.

**Lumber and Wood**

When in need of LUMBER, LATH, SHINGLES, CORDWOOD or SLABWOOD I can fill your order promptly.

**C. A. ROSS** **Phone A44**

## Don't Blame Him?

An irritable man is a hard man to get along with, but don't blame him till you find what's the matter. It may be an ill-fitting Suit, a troublesome shirt or a pinching pair of shoes that is the cause.

We sell only reliable goods. This is our hobby. Every suit in our winter stock was made specially for us, the kind that will please you. Come in and try one, and buy one. It will ease your mind and your body, and not disease your purse. If you have ever had to endure misfit clothes, you will appreciate our kind move.

**Thomas Brown** "Everything a Man Wears"

## HEAVY DRAYING

If you require any Heavy Teaming or Hauling done, let us do it for you. That is our business, and we have the equipment to execute all orders satisfactory.

## First-Class Wood

We also have a supply of first-class Cordwood, short or long, and can deliver it on short notice. 'Phone your order to

**McElroy Bros.** PHONE 34 **Phoenix, B. C.**

**D. J. MATHESON** FIRE, LIFE AND ACCIDENT

.....Insurance Agent

FIDELITY BONDS, PLATE GLASS, COMMISSIONER FOR TAKING AFFIDAVITS.

PHOENIX, B. C.

## Books and Magazines

Now that the excitement of the festive season is over you will have time to do some reading, and would enjoy a good book these long evenings. We have a big range of books, including the latest fiction, and also carry all the popular magazines, as well as newspapers and periodicals.

**Al. Almstrom,** Cigars and Tobacco

The Finest Quality in MILK AND CREAM at.....

## The Dairy

J. W. Hannam, Proprietor

Strictly - Fresh - Eggs

## Watch

THIS SPACE FOR

SPECIAL ANNOUNCEMENT

NEXT WEEK

E. A. BLACK - - The Jeweler


## Notes of the City

Dillard Read visited his parents at Marcus, Wash., last week.

Werner's orchestra supplied music for a dance at Eholt Monday evening.

Grand Forks Curling club has 22 rinks drawn for the home competition.

The school of advertising experience knows no vacation. Keep everlastingly at it.

L. Mattice of the Great Northern returned Monday after a trip to Montana.

The death of Mrs. Arthur Nichols, aged 56, occurred in Grand Forks last week.

Mr. and Mrs. Silas Smith, of Mother Lode, spent New Year's with friends in town.

R. V. Chisholm of the Queen's Hotel spent a few days of the past week in Spokane.

James Hunter arrived from Spokane Tuesday on a visit to his brother, C. D. Hunter.

Geo. Pattinson of Vancouver was in the Boundary last week, having been called to Eholt by the death of his father.

The sensible advertiser is not a gambler, but a provident investor buying solid insurance of a safe and successful future.

The marriage of William Oxley to Miss Susan Jane Wilkinson took place in Phoenix on Christmas Day, the Rev. S. Lundie tying the nuptial knot.

P. T. McCallum, immigration officer of Grand Forks, was in town Tuesday coralling an undesirable that had sneaked his way across the boundary line.

George W. Rumberger returned to town Saturday after a visit of three months at Regina, Sask. The prairie has become too cold for him at this season.

Every public school in the Dominion will be provided with a manual of physical exercise, through the generosity of Lord Strathcona in his recent gift to Canada.

The Scandinavian Aid and Fellowship Society of Phoenix have elected the following officers for the current term: President, Oscar Larson; vice-president, John Floren; recording secretary, Louis Carlson; treasurer, Albin Almstrom; marshal, Ole Nordin; chaplain, Ed. Dhal; inside guard, John Erickson; outside guard, A. O. Johnson; trustee, A. O. Johnson.

F. E. Simpson, well known through the Kootenays as "Old Man Simpson," formerly of the Cranbrook HERALD, is now located at Kamloops. Mr. Simpson has acquired the Beckman addition, a promising section of the rapidly-growing city of Kamloops, and will place the lots on the market. When the "Old Man" issued a paper he gave his subscribers big value for their money, and he will no doubt now give customers big value in realty. He expects to visit Phoenix in the near future.

Archie Bishop, the noted hockeyist, arrived in town last week. Although his cleverness as a hockeyist is well-known throughout the Kootenays, it is Archie's expertness as a marksman that has made him famous through the West. In competition with continental trapshooters at Seattle, Spokane, Calgary, Nelson and Revelstoke during the past year he gathered in a large range of handsome trophies as well as considerable prize money. At Seattle he broke 485 birds out of 500; at Calgary he made the biggest run ever made on the local traps, and at Nelson he broke 99 out of 100.

Fresh oyster cocktails at the Brooklyn Hotel bar.

Dry wood in car lots for sale; apply to Jos. Trombley, Phoenix.

O. B. Smith leaves shortly for the Hidden Creek property on the northern coast.

Knights of Pythias installation of officers takes place next Tuesday evening.

Miss G. Hunter returned Wednesday from spending the vacation at her home in Kelowna.

Jos. Ouelett and F. Lynn arrived in the city Saturday and have joined the local hockey seven.

Don't forget the hockey match in Phoenix rink next Monday evening, Grand Forks vs. Phoenix.

Arthur H. Napper arrived from Grand Forks last week and has taken a position with the Morrin-Thompson company. Mrs. Napper will arrive later.

The Morrin-Thompson company have taken over the dry goods, gent's furnishings and household furnishings departments of the Hunter-Kendrick company.

The nominations for mayor, aldermen and school trustees of the city of Phoenix will take place at the city hall on Monday. An election, if necessary, will be held the following Thursday.

The installation of the officers of Snowshoe lodge, No. 46, I. O. O. F., for the current term will take place next Monday evening. G. Rutherford of Grand Forks, D. D. G. M., will be the installing officer.

W. O. Miller, C. P. R. divisional superintendent; C. S. Moss, resident engineer; and P. Wade, roadmaster, inspected the spur to the Phoenix Amalgamated on Wednesday, and arrangements will be made to have the spur put in shape at once.

Following are the officers of Gateway lodge, No. 45, I. O. O. F., Grand Forks, for the current six months: Noble grand, Carl Wolfrom; vice-grand, Harry Chapman; recording secretary, A. Lindley; financial secretary, Harry Swain; treasurer, J. N. Currie.

The company of J. Y. Griffin & Co., limited, will from January 1st cease to do business under that name and will hereafter be known as Swift Canadian Co., Limited. The new company will make a specialty of handling beef, mutton, pork, veal, and general produce.

Harmony lodge, No. 37, A. F. and A. M., Grand Forks, has installed the following officers for this year: Worshipful master, John McKie; senior warden, W. F. Huffman; junior warden, William Bonthron; treasurer, G. D. Clark; secretary, W. J. Cook; tyler, G. R. McCabe.

J. S. Birnie, J. A. Russell, D. A. McDonald, and Rev. J. A. Petrie composed a rink of curlers from Greenwood that tried conclusions with local curling experts on Monday. Three games were played, Greenwood winning two out of the three but losing to Phoenix on points. G. L. McNicol lost to J. A. Russell and J. A. Morrin to Rev. J. A. Petrie, but O. B. Smith won from J. S. Birnie with a good margin.

The Knights of Pythias dance at Greenwood Monday evening proved a great attraction for Phoenix young people. The following attended: Miss N. Webster, Miss C. Dawson, Miss M. Biner, Miss N. Ingram, the Misses Bell, Miss C. Hart, Miss E. Murray, Miss Squires, Miss Nelson, Mrs. Johnson, and Messrs. R. Kerr, D. L. McElroy, W. X. Perkins, W. S. Van Waggneh, A. Bishop, A. McQueen, W. Williams, F. Bell, Geo. Rogers, N. Dewar, J. Patterson, G. Biner and Prof. Marks.

## Masonic Officers

The following officers have been installed by King Edward lodge No. 36, A. F. and A. M. for the current term: W. M., J. S. Boyce; S. W., W. J. Prendergast; J. W., J. F. McDougall; chaplain, Thomas Oxley; secretary, J. J. Strutzel; treasurer, D. W. McKenzie; S. D., P. J. Cook; J. D., J. G. McKeown; S. S., G. Johns; J. S., W. J. Pierce; J. G., W. Ross; tyler, J. Pierce.

## Eagles Instal Officers

At the regular meeting of Phoenix aerie, Fraternal Order of Eagles, Thursday evening, officers for the current term were installed as follows: Worthy president, John Love; worthy vice-president, Quitman Work; chaplain, C. F. Wilson; financial secretary, T. B. Cosgrove; treasurer, James Weir; conductor, Danny Deane; I. G., Thomas Madure; O. G., J. McEachern; trustee, John Love

## Pythian Sisters Officers

The semi-annual installation of officers of Mountain Temple, No. 17, Pythian Sisters, took place on Tuesday evening, the ceremonies being conducted by Mrs. Emma Gardner, D.D.G.C. Following are the new officers: M.E.C., Mrs. Mary Bateman; E.C., Mrs. Sarah Reed; Manager E. J., Mrs. Jennie G. Pickard; M. of R. C., Mrs. Mary A. McKenzie; M. of F., Mrs. Edith Elkins; Prot., Mrs. Elizabeth Pope; O. G. Mrs. Mable Johns; P. C., Mrs. Effie Marshall.

## City and District News

Greenwood's new rink opened yesterday.

The municipal pot in Greenwood is bubbling up lively these days.

F. E. Willet of Victoria has taken a position with the Morrin-Thompson company.

Prof. Marks will give a dance in the Union hall after the hockey match on Monday evening.

The district meeting of the Western Federation of Miners takes place in Nelson on Jan. 10th.

The laying of steel on the Kettle Valley grade west of Midway commenced this week.

BORN—In Phoenix, on Saturday, Dec. 31st, to Mr. and Mrs. W. Whittacker, a daughter.

H. Browning of Greenwood has gone to Victoria, where he will be purchasing agent for the C. N. R.

Mrs. J. G. McKeown and Miss Annie McKeown returned Tuesday from a visit with friends in Spokane.

Work is now going along preparing the moving picture theatre in connection with the Phoenix club.

Dan Buchanan, of Canyon City, an old-timer of the West Fork, was in the city yesterday, and says Paul Meacham is making a fortune at trapping.

The thermometer dropped to within eight points of zero on Sunday—the coldest this season. It was below zero in Greenwood and Grand Forks.

The Ladies' Aid of the Methodist church will give a "parlor social" at the home of A. F. Geddes, lower town on Thursday evening, Jan. 12th, and invite all their friends to meet for a social evening and make the gathering as successful as previous occasions. Games and refreshments. No admission will be charged but a collection will be taken.

**Bargain in Real Estate.**—The owner, who is removing from Phoenix, will sell valuable property on Knob Hill avenue at a great bargain. House on rear of lot rents for $10 to $12 per month, and front suitable for business premises. Terms easy.—Apply to A. Hood, agent for owner.

## Hockey at Grand Forks

The first scheduled game in the Boundary Hockey league took place last night between Phoenix and Grand Forks, at the latter city, and resulted in a tie, each team scoring three goals.

The teams were fairly evenly matched, though Phoenix was more aggressive and the play was largely in Grand Forks territory. The home team captured the first two goals, but the visitors had evened up before half time.

This was the postponed game scheduled for Jan. 2. There were spasms of live hockey, but as a whole game was rough. Much credit is due Referee McDonald for his efforts to stamp out rough playing; penalties were numerous.

A special train was run from Phoenix and a hundred supporters accompanied the team.

Following are the line-ups:

| Phoenix | | Grand Forks |
|---|---|---|
| Lang | goal | Boland |
| Ellis | point | Quinn |
| Neil | c. point | Miller |
| Sanders | rover | Mann |
| Lynne | centre | Demuth |
| Ouelett | l. wing | Mercer |
| McQueen | r. wing | Reid |

## Boundary Hockey Schedule.

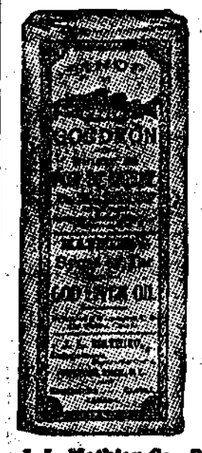
| | | |
|---|---|---|
| Jan. 2 | Phoenix | at Grand Forks |
| Jan. 9 | Grand Forks | at Phoenix |
| Jan. 12 | Greenwood | at Phoenix |
| Jan. 16 | Grand Forks | at Greenwood |
| Jan. 20 | Greenwood | at Grand Forkg |
| Jan. 24 | Phoenix | at Greenwood |
| Jan. 27 | Grand Forks | at Phoenix |
| Jan. 30 | Phoenix | at Grand Forks |
| Feb. 3 | Grand Forks | at Greenwood |
| Feb. 6 | Greenwood | at Phoenix |
| Feb. 9 | Greenwood | at Grand Forks |
| Feb. 13 | Phoenix | at Greenwood |

THE PIONEER acknowledges receipt of handsome calendars for 1911 from the Western and Union assurance companies, through their agent, D. J. Matheson.


**Cold Feet.**

A famous physician once gave his rule for health, "Keep the feet warm, head cool and bowels regular."

When the feet get cold or wet, a cough or sore throat usually follow.



**MATHIEU'S SYRUP**

of Tar and Cod Liver Oil

taken at once, wards off all colds. It is the most successful Cough Remedy.

Large bottle 35 cents; all dealers.

J. L. Mathieu Co., Prop's. Sherbrooke, Que.

Distributors for Western Canada

**Foley Bros. Larson & Company**

Winnipeg Edmonton Vancouver Saskatoon



**Wanted**—Men and Women to learn barber trade. Have opened one of our famous colleges in Calgary. Positions furnished; wages from $20 to $30 weekly; 10,000 graduates placed last year. Illustrated catalogue free. Write Moler Barber College, 609 Centre St., Calgary, Alberta.


## Consolidated Company

The Consolidated Mining and Smelting company, which yearly adds to its holdings, and has made remarkable progress during the past few years, operates three properties in the Boundary, the Snowshoe and Phoenix Amalgamated of Phoenix and the No. 7, a few miles south.

NUMBER SEVEN

The Number Seven mine was acquired by the Consolidated late in 1909. The mine was already developed by a shaft 300 feet deep, with drifts on the 60-foot, 120-foot, 200-foot and 300-foot levels. The Consolidated company has considerably extended these drifts on the 60-foot and 300-foot levels, and is now running a tunnel from lower down the hill to connect with the 300-foot level. From the portal of this to the shaft, the distance will be about 800 feet. The greater part of this distance will be a drift on the vein, and already very good ore has been found in this tunnel.

At the mouth of the tunnel is a 150-ton ore bin with sorting table. An auxiliary surface tramway constructed this year, brings ore from the 60-foot level tunnel to this bin, which also receives ore direct from the main tunnel. From this bin an aerial tramway has been built during the year, a length of 17,000 feet, to a 200-ton ore bin beside the C.P.R. tracks from which a short spur has been built to the bin. A crusher and picking belt are now being installed at the lower tunnel of the tram, and second class ore will be sorted out and dumped in a spot convenient to the site for a concentrating mill, the construction of which is contemplated, as the ore is easily amenable to concentration, and will yield a concentrate of high grade and good fluxing qualities owing to the iron contained in the ore. In a convenient location below the main tunnel, a compressor plant has been installed, connected with the mine by a 4-inch pipe line. This is operated by an electric motor connected with the power line of the West Kootenay Power & Light company at Bonnington Falls by a branch pole line some 1½ miles long. The necessary transformers, switchboards, etc., were also in place early in the year. Forest fires during the summer seriously injured the compressor plant and building, but they were promptly repaired, and put in commission again. A wagon road six miles long was built by the company last summer from Hartford Junction, near Phoenix, to the mine, giving a practically level haul for wagons.

The ore of the mine is a white quartz, heavily mineralized with lead and iron, and carries good gold and silver values. The vein runs along with a volcanic dyke, and is remarkable for its uniformity and well defined character over an unusual length and depth. The ore in sight has been considerably increased during the year. Shipments began in

(Continued on page seven)


# House Furnishings

Life is all too short, and why not make your "few days" comfortable? We have many pieces of Furniture that will do much to make your home cosy and add to its comforts. An easy chair or reposing couch would give rest in the evenings and help you forget the troubles of a strenuous day.

Our Store is full of suggestions for making your home attractive and cosy, and our prices are reasonable.

**C. F. EDWARDS** Furnishings for the Home



**Phoenix-Greenwood Stage Line**

Leave Phoenix, upper town, 9.30 a.m.
" " lower town, 10.00 a.m. } Standard Time
Leave Greenwood 3.00 p.m.

PROMPT ATTENTION TO EXPRESS AND FREIGHT

**H. M. LAING, Proprietor**

## BOUNDARY MINES AND SMELTERS

(Continued from page one)

sent, but by utilising as fuel the heavy excess of iron and sulphur in the sulphide ores, the percentage of coke required in the charge will be reduced. It is expected, too, that the copper loss in the slag will be less by 1½ to 2 lb. per ton of ore, which of itself would mean an appreciably large addition to the profit to be made out of ores from the company's mines at Phoenix. Wakely A. Williams, superintendent of the smelter, has been with the Granby company ten years, during which time he has effected many economies in connection with the handling and treatment of ores received at the works.

### B. C. Copper Company

The net earnings of the British Columbia Copper company for its fiscal year ending November 30, 1910, were approximately $275,000, as compared with $204,973, which latter was the balance of profit and loss for the fiscal year to November 30, 1909. Cost of production, refining, and marketing per pound of fine copper, after crediting expenditure with the value of the silver and gold recovered from the ore, was estimated at 9.624 cents per pound, as compared with 9.829 cents for the year 1909 and 9.996 cents for the 1908 fiscal year The total output of copper was 6,908.780 lb. as compared with 6,325,000 lb. in 1909. Gold and silver production is not given but it will probably be found to have been about 25,000 oz. of gold and 86,000 oz. of silver.

The company pursued a progressive policy during the year, both by increasing the blast furnace capacity at its smelter and in acquiring and developing mining properties. At the present time three furnaces are in blast, part of the ore required being obtained from the New Dominion Copper Co.'s Rawhide mine. As regards control of the latter company, the B. C. Copper Co. has increased its holding of New Dominion Copper Co. shares to 155,000, which is 64 per cent of the whole. As the district offices are in the same building and J. E. McAllister is in charge of the operations of both companies, it is apparent that a merger of the two has been in large part effected. The gross amount of the payrolls of the two companies, including that of the B. C. Copper Co.'s Napoleon and Lone Star mines is $62,000 to $65,000 per month.

Mother Lode mine has well maintained its ore production, its output for 1910 having been placed at 364,000 tons. A larger tonnage is to be required from it, for efforts are being, and will continue to be, made to keep its production up to 36,000 tons monthly.

The Oro Denoro shipped 9,339 tons during the year, but has not recently been worked. The company has for years owned a three-fourths interest in the Emma mine situated near Oro Denoro, but production is not likely to again be made until a satisfactory arrangement can be made with the owners of the smaller interest.

The Jack Pot group shipped 16,783 tons of ore in 1910. The C. P. R. company during the year completed a three-mile spur from its Eholt-Phoenix branch to the mine, and since then ore has been shipped regularly at an average rate of about 100 tons daily.

From the New Dominion Copper company's Rawhide mine, Phoenix, about 600 tons a day has been going to Greenwood. An increase to 1,000 tons a day is expected from this mine.

The Lone Star has available a tonnage estimated at about 300,000 tons of gold-copper ore. An aerial tramway, 29,000 feet between terminals, is nearly completed.

At the company's Napoleon mine there is an estimated quantity of about 100,000 tons of oxidized ore overlaying the sulphide, and a 10-stamp mill has been erected and is being equipped to treat this ore.

#### B. C. COPPER SMELTER

During 1910 the British Columbia Copper company increased the total blast furnace capacity of its smelter by one third, thereby bringing its maximum treatment capacity up to about 2,600 tons per day. This was done by increasing the hearth area of two of the three furnaces by 50 per cent. Previously all three furnaces were 48 by 240 in. at the tuyeres, and their approximate average ordinary total capacity had been about 1,800 tons daily, with a maximum of nearly 2,000 tons. Now they will average between 2,400 and 2,500 tons per day.

The increase in smelting capacity has necessitated a corresponding increase in the plant for feeding the furnaces and taking away the molten slag; also an extension of the crane run at one end of the converter building. For slag hauling a large locomotive, capable of hauling two 25-ton slag cars at a time instead of one, as in the past has been put in. Heretofore there have been in use two 15-ton Baldwin-Westinghouse electric locomotives for slag hauling and three 7½ ton locomotives for furnace charging. An additional charging locomotive has lately been put in to meet the increased capacity. The slag cars are 52-ton lable-cars, side dumping, and each equipped with an electric motor having worm gear for tilting the car to dump its contents. This company was the pioneer in using this style of car for slag dumping; the design has since been adopted by many other companies.

In the copper converting department of the works there are two converter stands with 84 by 126 in. horizontal shells, these taking matte of 45 to 55 per cent copper tenor and producing blister copper 99.3 per cent pure, also containing 20 to 50 oz. silver and 5 to 15 oz. gold per ton. This product is sent to New Jersey for refining. The stands are tilted by hydraulic accumulators, and the shells handled by a 40-ton 4-motor travelling crane. Two more converter shells have recently been added, making a total equipment of seven.

Electric power, transmitted from Bonnington Falls, 80 miles, is used in the works, in which there are installed motors having a total capacity of about 2,000 h. p. Among the motors are three of 300 h. p. each belted to one of the three large Connersville blowers, which supply the blast to the furnaces.

The company obtains the greater part of its ore supply from its own mines and those of the New Dominion Copper company which it controls, and it endeavors to maintain an average monthly output as follows: From the Mother Lode, 36,000 tons; Rawhide, (New Dominion) 20,000 tons; Wellington group, 3,500 tons; Napoleon (at Orient Wash) 2,500 tons. Mother Lode and Rawhide are typical Boundary district copper ores—high in silica and low in marketable metals; Wellington group is chiefly oxidized and having little value other than gold; of the Napoleon ore, the sulphide goes to the smelter where it serves as a pyrrhotite flux to reduce the tenor of the copper matte, while the oxidized ore is to be treated in a mill recently completed near the mine. Provision is being made for increasing the ore supply from the company's mines, and thus render the smelter independent of custom ores, if these be not obtainable to advantage. The Rawhide output is to be increased to 30,000 tons a month, while 3,000 tons will be obtained monthly from the Lone Star, situated just south of the International boundary line and 8 miles from the works. The Lone Star mine is being connected with the Canadian Pacific railway by an aerial tramway 5½ miles in length. It has an available reserve of 300,000 tons of gold-copper ore, aside being a good matte maker.

Coke is obtained from Southwest Alberta, the railway distance between the colliery and smelter being 370 miles. With three blast furnaces running, the consumption of coke is 8,000 to 9,000 tons a month. A reserve of 10,000 to 12,000 tons is kept as an emergency supply in case of interruption in the regular receipts of coke from the colliery.

The approximate figures of production during 1910 are as follows: Material smelted, 456,000 tons. Contents: gold 25,640 oz. silver, 85,000 oz.; copper, 7,351,000 lb. Included in the ore receipts were the following: From the Mother Lode mine, 364,000 tons; Oro Denoro, 9,339 tons; Wellington, 16,200 tons, and Rawhide, 47,400 tons.

J. E. McAllister is general manager, and the number of men employed is 500 to 540, of which total 118 is the normal force at the smelter.

### Consolidated Company

(Continued from page six)

September, and to the end of the year (December estimated) 3,700 tons of ore have been mined, and 1,000 tons of first class ore sorted out and shipped, the remaining second class ore having been sorted on the dump.

#### PHOENIX AMALGAMATED

No development work was done and no shipments were made from the Phoenix Amalgamated property in 1910. The only construction work has been the final completion of the tramway, and placing things in order preparatory to making shipments.

#### SNOWSHOE.

Operations at the Snowshoe mine at Phoenix were along routine lines during 1910. A large amount of ore was mined by the open cut or glory hole system during the summer, and more underground during the colder months. No new construction of importance has been done, the mine having been thoroughly equipped with machinery prior to the present year.

Shipments were maintained steadily throughout the year to the Trail smelter, the total amount having been (December estimated) 142,500 tons. The working force averages upwards of 100 men.

### Rossland District

Mining in Rossland district has progressed slightly. The Granby interesting itself in the Cliff-St. Elmo group and putting a force to work has had a stimulating effect. The Blue Bird was also reopened by its Spokane owners, the Mayflower Nickel Plate, I.X.L, Lily May and other small properties worked, besides an increased production shown by the Centre Star-WarEagle, Le Roi Two and the Le Roi mines. At the Centre Star group work was carried on steadily all year. The ore reserves at the end of the year, after shipping an increased tonnage over last year, prove about 246,000 tons. A new rich ore zone was opened up in the War Eagle mine while development of the Iron Mask and Idaho claims of this company discovered new ore. At the Josie mine of the Le Roi Two Ltd., the work of sinking the main shaft from the 900 to the 1,300-foot level was completed and the continuation of the North Annie vein located. The company made a normal production and paid three dividends of 50 cents per share each. The year closes with eighteen months ore in reserves. Work was also started on the Surprise claim of this company in an effort to enter the ore zone existing on the War Eagle. The Le Roi mine was not worked steadily but will make an ore production of a couple of thousand tons in excess of 1909. The company has gone into voluntary liquidation and the mine and the plant is for sale. In November and December there were rumors it would be bought by a strong company.

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# SIMILKAMEEN MINING

Chas. Camsell, of the Geological Survey, Department of Mines, who has spent last summer in the Similkameen district, has given the Director the following review of mining progress in the district during the past season:—

"At Hedley the year just passed has been the most prosperous in the history of its producing mines. The Nickel Plate and Sunnyside mines, now owned by the Hedley Gold Mining company, are still the only producers of gold, and the output from these mines has only been limited by the capacity of the reduction works to treat the ore. Up to the end of October the number of tons shipped to the mill totalled 38,045, and it is estimated that the total tonnage for the year will be about 46,650. Most of this comes from the Nickel Plate. This ore averages about $12 to the ton. Prospecting has been carried on in advance of development, so that the ore reserves in these mines are greater now than they have been for several years.

At the Daly Reduction company's mill improved methods of treatment have been introduced, and the necessary machinery installed, so that the tonnage treated daily has been increased from 135 to 150 tons within the last year. It is stated that the other improvements contemplated will raise the capacity of the mill to 200 tons daily. The power plant also is being improved and added to, so that the operation of the mill will not be entirely dependent on the supply of water available. Electric motors are being installed everywhere and the steam boiler capacity increased from 250 to 700 horsepower.

Apart from the Nickel Plate and Sunnyside mines, the only other work done has been on the Kingston and Golden Zone groups.

In the Princeton region a number of new locations have been made in the coal basin and some exploratory work for coal undertaken. The Vermilion Forks Mining and Development company mined a good deal of coal during the last winter from their mine at the junction of the Similkameen and Tulameen rivers, but during the summer they have only been working intermittently.

The copper properties at Copper mountain, Roche river, and Five-mile creek have had some work done on them, but the majority of these claims have been idle. A carload of ore was to have been shipped from R. Stevenson's claim below Allison, where a force of men has been at work throughout the year.

The United Empire group of claims on One-mile creek, which was worked first as a copper prospect and later as a coal mine, was sold during the summer to a company which now proposes to manufacture cement on it. A bed of clay 40 feet thick occurring in the coal formation is found in juxtaposition with a stratum of very pure limestene with which the copper ore was associated. These two materials have been proved to be capable of being manufactured into cement, and a 5,000 barrel plant is to be erected.

In the Tulameen district very little has been done in the prospecting or development of metallic ores during the past year. The Great Northern railway has not yet laid steel beyond Princeton, though the tract has been graded up to Tulameen river within 4 miles of Tulameen village. The advent of the railway will probably stimulate the owners of mineral claims to greater effort.

The only metal production in this district must be attributed to placer mining. A few indivduals work annually on Granite creek, where both gold and platinum are obtained. Half-a-dozen Chinese also work the bed of the Tulameen river between Eagle and Champion creeks, where they recover gold and platinum in about equal proportions. The most serious attempt, however, at placer mining in this district within recent years was that undertaken by Lambert and Stewart on Granite creek. About $10,000 had been spent in three years on a dam and flume, and everything was in readiness to begin sluicing during the past summer. High water, however, again washed out the dam, which so discouraged the owners that nothing further was done.

The advancing price of platinum and the limited sources of the world's supply have induced several prospectors to stake out a number of placer claims on the Tulameen river, where a considerable quantity of platinum was formerly obtained. Much of the best ground on this stream and its tributaries is held as leases by the British Columbia Platinum company and other individuals, but nothing has ever been done by these owners to work their holdings, so that it is not known what amount of platinum they contain.

The most important developments in this district within the last year have been in coal mining. The Columbia Coal and Coke company owns virtually the whole of the coal basin lying between the Tulameen river and the north fork of Granite creek. A great deal of prospecting and development work was carried out by former owners as well as by the present company on the Granite Creek outcrop of the coal seams, but on account of the difficulty of transporting the coal from this side of the coal basin to the railway line on the Tulameen river this work was abandoned and prospecting was begun on the Tulameen side of the basin. The outcrop of the coal seams was found to approach nearer the Tulameen river at Fraser gulch than at any other point in the basin, so that work was concentrated here. A prospecting tunnel is being driven from the outcrop at this point towards the centre of the basin, and will run underneath the capping of lava. A drill hole is also being sunk at a point near the head of Fraser gulch. The results of this drilling will determine the course of further operations.


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