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As to Deposits of Tin Ore

Wm. Thomlinson hands us the following letter, which will be of unusual interest to prospectors and miners. Mr. Thomlinson has given the matter of tin deposits much study, and his opinion on the question is worth a great deal, and will be appreciated by mining men.

EDITOR LEDGE—DEAR SIR: As it is becoming evident that the mineral resources of Kootenay are not confined solely to ores of gold, silver, copper, lead and zinc, I take this means of starting a discussion or consideration of the possibility of finding ores of the rarer metals in this section of B. C.

If any prospector or miner can answer the query, "Do deposits of tin ore exist in Kootenay?" conclusively, and give evidence to support his statements, all Kootenayans interested in mining or otherwise will no doubt be pleased to hear from him.

Below I give all the favorable evidence I can find and as an aid to prospectors and miners who have never given the subject of tin ore any consideration I include a brief description of the principal ore of tin and also an outline of conditions known by practical observations to be favorable for the occurrence of deposits of the same.

The principal ore of tin is cassiterite tin stone, tin dioxide, $Sn\ O_2$, which when pure contains 78.6 per cent of metallic tin and 21.4 per cent of oxygen. It is heavy and almost as hard as quartz. Its color is brown to black, with shining "japanned" luster when crystalized and not crushed or water worn.

When found as stream tin in placers it is generally in grains, lumps and bean-like water worn forms of a dull brown or blackish color.

Crystals of tin stone are usually modified square prisms or regular eight-sided figures called octahedrons.

The bulk of tin ores are found in placers formed by the natural breaking up and concentration of tin-bearing rocks and veins, and such tin-bearing rocks or lodes are mostly found by "panning" the streams in or near the granitic areas, bosses or dykes.

When panning for tinstone, prospectors should avoid being fooled by other dark minerals which may be found in the pan, especially chromite, titanite, dark garnets, tourmaline or magnetite. A good pocket magnet will separate several of these from tinstone, which is not magnetic.

Tinstone can be determined by use of an ordinary blowpipe, if crushed very fine, mixed with sodium carbonate and steadily roasted in a reducing flame on charcoal.

The resulting fused mass when crushed again and carefully "panned" in a small saucer or watch glass will show small globules of metallic tin, malleable under the hammer.

Occurences of tinstone, other than placer deposts, are practibally always found in, near or connected in some manner with granitic rocks.

When bosses or dykes of eruptive granites intrude into clay slates or other sedimentary rocks the contacts are specially favorable for the occurrence of deposits of tin. The granite intrusions are usually much altered along the borders or contacts with the sedimentary rocks and this altered portion often forms or becomes a peculiar secondary rock called greisen. Greisen is described by Prof. I. F. Kemp as "an altered granitoid rock composed of quartz and secondary white mica, or some related mica, rich in the element flourine. It is the characteristic mother rock of the ore of tin, cassiterite, and is in most cases a result of the contact action of granite and its evolved mineralizers. Where greisen is formed the feldspars of the original granite appear to have been destroyed or removed by some chemical action and replaced by such minerals as tinstone, tourmaline, topaz, tunsgten, flourite, etc.

Quite a number of the economic minerals have their special mineral "chums" or associates, and cassiterite has this habit. Its special associates are one or more of the following—crystalline quartz, tourmaline, topaz, tungsten, molybdenite fluorspar, and secondary micas.

Wherever any of these are found in a granite mass or near its border, tinstone may also be present; therefore prospectors should endeavor to be able to recognize these associated minerals as well as the tin ore itself. Besides being frequent associates of tinstone, topaz and tungsten are themselves of value, and there are also certain kinds or colors of tourmaline saleable as gem stones.

Of the above associates of tinstone nearly all have been already found in West Kootenay, but not in all cases in or near granite.

A large area of tourmaline bearing granite occurs on the east side of Kootenay lake at or near the mouth of Fry creek, several miles from the north end of the lake, and the granite areas, intrusive dykes and bosses along or near the east shore, south to about Hendryx creek, are worth prospecting for tin ores.

These granite masses and intruded dykes, also the tourmaline granite near Fry creek, are referred to in G. W. Dawson's geological report on a portion of West Kootenay distrct, 1889, page 39 B.

Scheelite, calcium tungstate, a very common associate of tin ores, is found in granite at the Meteor mine, Springer creek, Slocan City mining divison, and molybdenite, another associate of tin, occurs at several places, in granite, in the same district. Fluorite is found alongside of a granite dyke near New Denver, and I believe it has also been found in the granite areas around Nelson.

Quite recently deposits of tinstone have been found in the Transvaal, South Africa, at Cape Nome, Alaska, and Las Vegas, New Mexico, and there are, I believe, no known reasons why it may not be found in Kootenay, if looked for intelligently. Yours very truly,

WM. THOMLINSON.

New Denver, B. C., 16th Dec., 1903.

LOCAL CROPPINGS

Ore is being rawhided from the Black Prince.

D. D. Robertson has left Slocan for Kamloops.

A dance will be given at Silverton this evening.

Parson Smith is holding church services at Poplar.

Ore sacks were sent up to the Bell the past week.

Mr. and Mrs. Palma Angrignon will spend Xmas at Phoenix.

A carload of dry ore was shipped to Nelson from the Kilo this week.

Ralph Gillette left Slocan for Spokane last week to have his eye treated.

The Foresters are preparing for a crowded floor at their dance New Year's eve.

The days are growing longer, and the spring boom is drawing nearer. Egad!

A requisition has been circulated and numerously signed in Slocan City calling upon David Arnot to be a candidate for the office of mayor. His supporters want the city to establish and operate water works and an electric light system.

Rawhiding has commenced on ore from the Comstock, and a shipment will be made from Silverton this week.

Let your Xmas be merry and your heart be glad, for we are all mighty fortunate that turkey spreads the gravy over pork and——

Divine service (Matius and Holy Communion) will be held in St. Stephens church on Christmas Day at 11 o'clock—Rev. C. Arthur Mount, Vicar.

Not every mining camp in the world will close down for the Xmas holidays, but the mines of the Slocan City division are all-same House of Commons.

The Wakefield is opening up large ore bodies and it is anticipated when the Spring opens that they will have ample reserves to keep the concentrator running.

F. F. Liebscher is the busiest man in Silverton. He has a fine line of suitings and is kept busy spreading them over the anatomy of Slocanites who like good things and have the price.

The mines of the Boundary expect to produce one million tons of ore next year. The mines of the Slocan will go them one better. They won't try to produce one million tons of ore next year.

John Cory was down from the Cinderella-Medford mine this week, and reports that they are taking out considerable ore in the course of development. A car shipment will be made as soon as rawhiding is possible.

It is reported that J. Frank Collom will be in the Slocan shortly from California, and that he will at once install a plant for the treatment of the Arlington ore by the Parks process. He will also be in a position to place small reduction plants at the low-grade mines to treat $10 ores and prepare them to be sent direct to the refinery, thus enabling many properties now idle to be successfully worked.

Fifteen men are employed at the Hewitt. A rich body of ore was struck in the upper works last week—some of the richest the property has produced—and shipments will be resumed in the near future. In the lower levels the Hewitt has immense bodies of concentrating ore blocked out, but to successfully work this, a mill will be required and the oil process of treatment adopted.

It is felt certain that the Galena Farm will be worked in a few months. Five hundred tons of ore is to be run through the Wakefield mill, and if satisfactory results are obtained, the property will be worked regularly. The body of ore at the Galena Farm, proved and partly blocked out, is 200 feet deep, 196 feet long and has a thickness of nine feet. Even if no other ore bodies are uncovered, it will require at least two years to work this out.

Miss L. T. Locock, of Bath, England, and Miss Agnes Pattison, of Braxbourne, two of the lady tourists, who in company with Mrs. and Miss Walker and Mrs. Wilson, on their tour round the world, called at New Denver last summer and stayed over a few days, in a letter to New Denver friends, send their Christmas greetings to the good people of New Denver with kind remembrances of their visit and entertainment, and they express the hope to come again.

Slocan City is having a deplorable time trying to keep its municipal offices filled. Here is a shining example of the office seeking the man. It is even promised by those who won't act themselves that there will be no more squabbling, and that everything will be harmonious in the future. But even this assurance will not induce anyone to act as city dad. A public meeting was held last week and a committee appointed to find somebody who would be a martyr on the aldermanic altar.

A. C. Allen, a pioneer of '93, and one who has spent all his time since then in the hills of the Slocan locating and developing mineral claims, and never made a "stake," died in his cabin back of the old Central hotel Saturday evening of consumption. Allen and John Cory were associated as partners in many valuable mining properties, and their holdings have often promised to make them wealthy, but just when they went to cash in the slip came, and they were forced to wait. Allen was in the Ainsworth division as early as 1889. He was an expert mill man, but of recent years his health would not permit him to work in that capacity. He was buried Monday afternoon at New Denver.

WILL DISBURSE LEAD BOUNTY.

The Nelson News says G. O. Buchanan has been appointed to administer the lead bounty recently authorized by the Dominion government. It is stated by those in a position to know that Mr. Buchanan will move to Nelson and make that the distributing point for the Bounty. This will be welcome news to the silver-lead operators, who have been waiting for some definite steps to be taken in the matter. There were a few, who for reasons best known to themselves, stated that they believed the bounty would never be distributed and who endeavored to induce some of their colleagues in the industry to cease operations till the disbursement of the bounty was commenced. How such a story could have obtained credence is singular. The bounty was a part of the law of the land, had been regularly passed by the Dominion parliament and an order-in-council had been made providing for the putting of it into effect and it was just as certain to be paid as it is that the sun will continue to shine.

The delay has been doubtless caused by the large amount of dedetail work necessary to put it in operation.

Mr. Buchanan is thoroughly conversant with the mining industry, has made close study of the subject and is, therefore, well fitted for the duties of disbursing agent.

SCHOOL CHILDREN'S EXERCISES.

The visitors who casually dropped in at the closing exercises of Miss Wilson's primary school room on Friday afternoon enjoyed a treat in noting the apt and ready manner in which the pupils went through their various lessons and exercises, as well as maintaining a quiet and cheerful discipline. Mr. Morrison, with his pupils from the senior school, took a half-afternoon holiday and swelled the list of visitors. Mrs. Shannon, Mrs. Pyman, S. T. Walker, Ed Angrignon and W. D. Mitchell were also present. The decorations of the school room were neat and artistic, chains of paper links in red and green and white and yellow and blue festooned the borders and corners and ceiling, while on the walls were prints, pictures, paintings and chromos. The blackboard was filled with Christmas and New Year greetings, mottos and lessons with appropriate illustrations in fine hand drawings, all reflecting much credit on the work of Miss Wilson and her pupils.

SILVER-LEAD QUOTATIONS.

Dec.17	Silver, 55¾	Lead, £11 5s
Dec.18	Silver, 55¼	Lead, £11 6s 3d
Dec.19	Silver, 54¾	Lead,
Dec.21	Silver, 54½	Lead, £11 5s
Dec.22	Silver, 55¾	Lead, £11 5s

Send your friends a case of beer and buy it from the New York Brewery at Sandon.

Sandon News Croppings

Hockey and curling are in full swing at the rink.

Chas. McLachlan and family left for Fernie this week.

Alex. Crawford is spending the holiday season in Sandon.

Mr. and Mrs. Creech are spending Christmas at Victoria.

The Reco and Blue Bird are each shipping a carload of ore this week.

Jno. McCully had two ribs broken at the Ivanhoe last week. He is at the hospital.

Rev. Mr. McIntyre held services at the dedication of the new church at Salmon Arm on Sunday.

The Payne has installed a new 90-horse power engine and a new boiler for heating purposes.

The wire was stretched over the Idaho-Alamo tram this week. In a short time the mill will be in working order.

A hockey match by local teams is billed for Xmas day. There won't be any moss on the puck when the boys get through.

The Christmas tree entertainment to be given in Bosun hall on Christmas eve, promises to be of unusual interest to old and young.

The 500 tons of coal that is being laid down at the Payne this month is for the season's burning. Sixty tons a month is burned at the mine.

A. Peterson left the hospital this week, having sufficiently recovered from the operation underwent last week for an ulcerated cheek bone.

The Presbyterian Sunday school will hold the annual Xmas tree servives in the school room at the court house this (Wednesday) evening.

The Star is shipping the ore that has been tied up at the ore house on account of no snow, and will swell its total for the year a few hundred tons before the month is out.

Sandon Knights of Pythias have always had the name of doing things well, and they are putting forth every effort to make their New Year's dance the best ever held.

The good people of Three Forks are going to spend an old-time Xmas. Xmas tree exercises are to be held in the school house and a dance in the town hall will entertain the grown-ups.

The sparring match to be held in Union hall on Xmas eve will be the hottest "mill" ever put up in the Slocan. Billy Williamson and Billy Mills will put up a ten-round fight for the gate receipts.

Frank Pepin came down from the Star Saturday and went into the hospital. Sunday Dr. Gomm, with Dr. Hartin, of Kaslo, consulting, operated upon him for appendicitis. He is recovering from the operation.

The Idaho-Alamo Consolidated mines is the name of the company that succeeds the Scottish-Colonial Gold Fields as owner of the Idaho mines at Alamo. The new company has a capital of $130,000 and will operate the properties to the limit next year, and Alamo will again be an important shipping point.

Enquiries are being made by the provincial police as to any relatives of the late Charles Hewett, a young man who committed suicide on the beach near Kaslo last summer. The body was found some months after by J. W. Cockle, of Kaslo, and although badly decomposed was identified by the clothing and a scarf pin worn by the deceased.

Fire started in the bunkhouse at the American Boy about 5 o'clock Tuesday evening and in a short time the whole structure was destroyed. The loss to the company and to the men is severe, coming at this season of the year, and will entail considerable expense to rebuild, if, indeed a temporary shut-down is not forced upon them.

SLOCAN ORE SHIPMENTS

The total amount of ore shipped from the Slocan and Slocan City mining divisions for the year 1902 was, approximately, 30,000 tons Since January 1 to Dec. 19, 1903, the shipments have been as follows:

	Week	Total
American Boy	21	883
Antoine		210
Arlington		43
Alberta		7
Black Prince		10
Bondholder		2
Bosun		1057
Blue Bird		52
Capella		32
Cripple Stick		2
Dayton		12
Dolly Varden		20
Empress		30
Enterprise		835
Fisher Maiden		28[illegible]
Hartney		42
Hamilton		4
Hampton		5
Highland Light		2
Idaho	33	453
Ivanhoe		840
Jackson		37
Last Chance		40
Lucky Jim		103
Mercury		146
Monitor		760
Mountain Con		20
Meteor		52
Nansen		2
Ottawa		126
Payne	33	2047
Queen Bess		204
Rambler		250[illegible]
Reco		153
Republic		76
Ruth	82	843
Rio		8
Red Fox		119
Rouse		26
Sapphire		5
Slocan Star		2132
Slocan Boy		16
Silver Glance		55
Sunset		41
Surprise		5
Vancouver		20
Wakefield		180
Wonderful		23
Total tons	169	14,979

WAR AT ROSEBERY.

Rosebery is going to have a Xmas tree. Sixty-five dollars were subscribed toward it, and some time ago a large order was sent to T. Eaton for presents. But trouble arose in the meantime; not among the children, but among the grown-ups. The squabble developed into a war, and finally the superintendent of the Dominion express had to step in. The party in whose name the goods were shipped from Toronto refused to take them out of the express office, unless certain conditions were complied with. The opposition refused to comply. On Tuesday, express orders were received by the agent to sell the goods for the express charges. This was done and Santa Claus will be able to do business tonight at Rosebery.

LOCAL PICK-UPS.

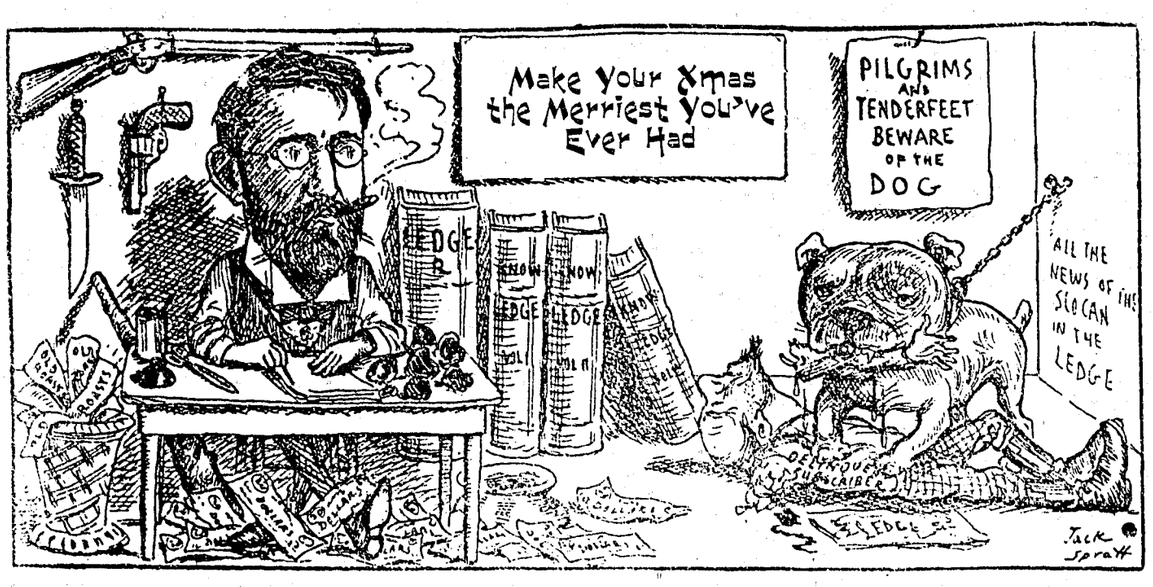
Holiday drinks are now in sight at the Kootenay in Sandon.

D. J. Robertson & Co., at their store in Nelson, carry a large and varied assortment of furniture suitable for the demands of mining camps. Orders solicited from any part of the country and prices sent upon application.

Apples—Northern Spies and the famous Greening first prize apples, Swift's hams, butter, Roquefort cheese, Tom Smith's confectionery, fancy groceries. The trade and mines supplied. Drop us a card or call us up by phone. J. F. Delaney, wholesale and retail, New Denver, B. C.

EXCITEMENT AT POPLAR.

The town of Poplar is wildly excited over a find of gold rock made last week on the Swede group, across the creek from the Gold Park group. The find was made at a point where a rich stringer joins the main lead, and is easily four feet wide. The quartz, of which immense chunks are on exhibition, is almost one-half gold, the yellow metal being netted and strung all through the pieces of ore.



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Fellow Pilgrims: THE LEDGE is located at New Denver, B C, and is traced to many parts of the earth It has never been raided by the sheriff, snowslided by cheap silver, or subdued by the fear of man It works for the trail blazer as well as the bay-windowed, champagne-flavored capitalist It aims to be on the right side of everything, and believes that hell should be administered to the wicked in large doses. It has stood the test of time, and an ever-increasing paystreak is proof that it is better to tell the truth, even if the heavens do occasionally hit our smokestack.

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Address all communications to—

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A pencil cross in this square indicates that your subscription is due, and that the editor wants once again to look at your collateral.

CHRISTMAS.

Tomorrow the civilized portion of this world will rejoice, and extend an invitation to indigestion, while every parson, not a rabbi, will mention Christ until there is a lisp in their speech. Christmas, or at least the 25th of December is not the birthday of Christ, if He ever had a natal day. At some time in the past His birthday has been celebrated in almost every month of the year, although to our mind December is the best month. It is during this month that the sun quits going south, and ages ago primitive man discovered the fact and organized a festival which is the real origin of our modern Christmas. But it cuts no ice about the origin of the happy day. Let us all rejoice, and fill the lives of those around us with good cheer, even if some of us in the Slocan have more than one tunnel in our socks.

TOM WARD.

Death is sure to hold the cinch hand sooner or later and take us all into the great camp beyond the grave. It is a trust which none of us can break. While its operations are carried on at a distance we look on with indifference, but when its icy grasp clutches a friend in sight, we are made to sit up and wonder why the great power behind all things does not cut misery out of life's formation and save our hearts from the frost that comes when the voice of a loved one is stilled forever. We are but shadows animating a body of clay for a few short years, and then a plunge in the dark to where angels push clouds with the angels or the imps shovel coal with the devil for shift boss. Personally we do not believe that any soul shovels coal after it flits from this mundane sphere, hence when any of our friends cross the divide we never worry about their occupation in the spirit land and think they will all do well. We feel grieved to have Tom depart from our midst at such an early age. The world quits loser when such men die. Tom was one of the trail blazers of this country and a partner it was safe to bet on. He was kind and generous, while through his entire formation ran a vein of humor that necessitated his being taken out. Tom's voice is stilled, but the days will be long indeed before the sound of his merry laugh dies from our memory. In company with the time scarred veterans of [illegible] we shall place flowers that nestle on Tom's grave, and trust that, as one by one we cash in Tom will help us over the river that flows between time and eternity.

SLOCAN MINES AND MINING.

In the year book of B. C. just issued by the provincial government, and which, by the way, is an excellent document, the following is said of Slocan and its mines:

"The Slocan mining district is in West Kootenay, on the eastern side of Slocan lake. It is about twelve miles across in an east and west direction, and about eighteen miles long from north to south. Part of it on the east is really in the Ainsworth mining divison, but there is no natural line separating the Slocan from the Ainsworth mining division. It is merely an arbitrary line for record purposes. The entire area is mountainous, ranging in altitude from about 1,700 to 8,500 feet. The mountains are not only high, but steep. Usually they are very uniform in outline, a result of the slight variation in the hardness of the rock out of which they have been formed, over a great portion of the area.

"The solid geology is relatively simple, the greater part of the area being occupied by dark argillites or clay slates, occasionally interbedded with calcareous quartzite and dark-colored limestone. Traversing these rocks are numerous igneous dykes and intrusive sheets, some of great thickness. Many of them are closely associated with ore deposits, as will be seen hereafter. A number of these igneous intrusions may be seen in the neighborhood of Three Forks, along the line of the Canadian Pacific railway.

"The aqueous rocks are known to geologists as Slocan slates. They seem to occupy about the same geologic horizon as the upper part of Adam's lake series, which has been provisinoally classed by the Dominion geological survey as silurian or cambro-silurian.

"The following table shows approximately the level at which some of the more important mines occur, disregarding the range of altitude in the several properties.

Mine	Feet above the sea
Payne	7,100
Idaho	6,700
Alamo	6,700
Reco	6,200
Whitewater	5,000
Slocan Star	5,000
Ruth	4,700

Nearly all the deposits known in the Slocan, and certainly those of greatest importance commercially, have the form of veins often called, here and elsewhere, "fissure veins," or "true veins," but a few are bed-like in form—that is, occur along the bed planes of the strata.

"In most of the Slocan mines some very high-grade ore can be found, if only small samples be taken; but that, it need scarcely be said here, is not the way to judge of the product of a mine. The yield of large quantities shipped in the ordinary course of business is the only reliable guide. The following assay results are averages derived from smelter returns relating to the quantities standing opposite the names of the different mines named in the table:

	Shipments, tons	Silver oz. per ton	Lead, per ct.
Payne	11,675	112	56
Whitewater	5,610	113	33
Ruth (galena)	1,010	105	65
" (carbonates)	957	48	25
Idaho	1,531	152.6	16.5
Alamo	4,782	129	11
Slocan Star	10,012	89	67
Enterprise	1,051	177	22
Reco	1,600	239	39
Washington	1,600	95	55
Dardanelles	255	265	23
Monitor	127	179	38
Antoine	230	246	14
Cambo land	253	78.9	58.1

"This table shows better than many words the highly argentiferous character of the Slocan ores. It includes probably the highest and lowest grade yet found. When we compare these results with those [illegible] the importance of the silver contents of the Slocan ores is at once evident. A considerable amount of the silver found in these ores is in the galena, which occurs in three principal forms—cubic, wavy and granular (coarse and fine). From a number of assays of ores of different mines, made with the object of learning in which of these forms the silver was most abundant, the following results were obtained.

	Silver oz. per ton			
Wavy	165	average	11	assays.
Cubic	117.1	"	16	"
Granular fine	[illegible]	"	7	"

"The facilities for mining in the Slocan are great—a good climate, abundance of timber, the contour of the ground such that the deposits can be reached and worked by tunnels without the necessity for shafts and their accompanying costly machinery, a moderately hard country rock, and abundance of surface water for dressing purposes, in addition to numerous fine veins of high-grade mineral, forming a combination of circumstances that could not easily be excelled in any part of the world.

"When the ore reaches the surface it is concentrated either by hand or by means of machinery. The hand-sorted ore is usually referred to in the smelter returns as "crude ore," that which has been machine-sorted as "concentrates." The machinery employed in dressing is of the usual kind. There is often considerable loss of silver with the tailings, which is unavoidable, and can only be saved by treatment in other ways. So long as the silver-bearing minerals thrown off from a mill have a value less than the cost of freight and treatment, etc., they are recovered in other methods and in a concentrated form that can be shipped at a profit.

GREAT OPPORTUNITIES IN CANADA

Writing his impressions of Canada, an English journalist who made a tour of the Dominion the past year, says: "The settler who selects land wisely can count upon still further progress, and, if there be this upward tendency in the prime industry of the country, the stimulating effect of it will be seen in every other branch of trade. In an old country a man sows, and it is his son who reaps. In Canada a man has the prospect, the sure prospect, of enjoying the fruits of his own foresight. As an ordinary farmer he will not amass a fortune. He will, however, earn a competency far beyond anything that is possible in the old country, and with ordinary diligence he will find himself better off here in ten years than he will be in a lifetime in Scotland. It will be easy, too, for his children to start in life. In a country like this, where men predominate, no girl need wait long for marriage, and his sons can take up land for themselves. The difficulty, in fact, for the settler is to keep his children at home as long as he would wish, for this is a land where everyone, young and old, is imbued with the ardent determination to "get on," and where the son does not wait till he comes into his kingdom, but goes out and makes his kingdom for himself.

"A feature of Canadian life—and it is one shared in by all new communities—is the freedom with which men move from one occupation to another. It is well to premise this in discussing the openings which Canada offers to skilled artisans and others who may not intend to start farming work, for it constitutes one of the great advantages of the country. The distinction between trades and between occupations are not so rigidly drawn as in England or Scotland. In a rapidly developing country like Canada, endless opportunities present themselves to a capable man of bettering his condition, and he will turn from one occupation to another without incurring the charge of shiftlessness which would be levelled at him in older and more conservative countries. Therefore, though a man may go out today as a carpenter, he will have exceptionally hard luck and be unusually wanting in energy if he does not twenty years hence find himself at the head of a business of his own or in possession of a farm or in one way or another in a settled and comfortable position. The life of Canada has not yet fallen into ruts and grooves. No one can complain that he has been condemned to a particular walk of life. In a very real and true sense the world is open to the Canadian, and splendid opportunities are his if he be prompt to seize them."

Send 50 cents to this office and get a copy of Float.

FLOAT.

Float is a handsome annual, written, compiled and published by R. T. Lowery. It contains much that savors of life in the west and mining camps. Many of the articles are singly worth the price of the book. It is sent to any address upon receipt of 50 cents Send orders to R. T. Lowery, New Denver or Nelson.

William F. Osterly, of Indianapolis, son of a prominent zinc mine operator of that state, has patented a new zinc smelting device, by which it is said that four men can do as much work as 100 with the present clay method. Osterly uses elecricity to charge the ore.

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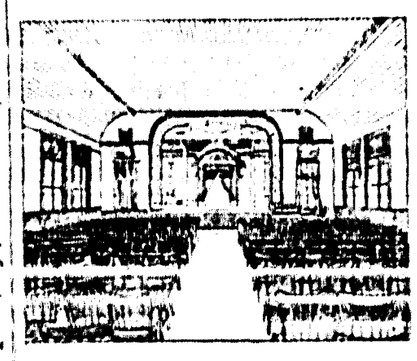

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Broncho Jim's Salvation

James Tibbets went away from Musselwhite in 1873 as a well-behaved agriculturist, seeking the cheap lands and boundless opportunities advertised in the railway stations. He came back in 1883 as "Bronco Jim,' wearing the white hat of the western cavalier. For nearly twenty years thereafter he picked out the soft spots in Musselwhite and sat upon them, sighing for the wild life of the west.

Except for the ten years during which he was the scourge of the border, James Tibbetts' career was an open book to all of Musselwhite. He had grown up in the hazel brush away back in the muskrat days. He had a war record, to which he seldom reverted, inasmuch as there were remaining in Musselwhite three men who distinctly recalled the circumstances under which he was drafted. The story was one that shed no glory upon the name of Tibbetts. It ran to the effect that Jim, by happy coincidence, went fishing on the very day that drafting began at court house. Fishing was so good that he remained in the woods for a week. When they finally sought him out, in order to give him an opportunity to serve his country, he was found in an improvised teepee, two miles above the Sewell ford, subsisting on catfish and blackberries. Some people were sufficiently cruel to say that Jim tried this aborignal mode of life in order to harden himself for his Indian fighting, which came along some ten years later.

His brief service at the front, which won for him the title of "hospital inspector," and his uneventful years in and about Musselwhite were matters of record, but his ten years in the west were enveloped in mystery, which Jim sought sometimes to deepen rather than dispel. It was known that during the greater period of his absence the Weekly Messenger had been mailed to a town in Northern Nebraska, but Jim explained that this town was merely a starting point for numberless excursions fraught with danger—a base of supplies, as it were, from which he radiated in all directions at the stern call of duty.

The tantalizing part of it was that no one in Musselwhite could successfully contradict any of the tingling narratives with which Jim whiled away the long winter evenings and the long summer days at Talbot's store There was no denying that Jim had been "out west" somewhere, for ten years, and that he came back with a white hat and a revolver of prodigious size; and immediately installed himself as chief story teller. It was well enough for the environs to suggest that he had bought the hat and revolver at a Chicago department store on his way back, but they had no proofs to back up their doubts.

For fully a month after his return, in 1883, "Bronco Jim" chafed and champed for the open range, the swish of the lariat and the cheerful bark of the six shooter. He felt himself confined and cramped in Jefferson county, for there was a fence every half mile or so, and the clumps of soft maple trees shut out the sweep of the horizon which at the best would have shown as a ragged fringe of corn stalks. No doubt the nomad of the plains would have returned to the hunting grounds had it not been for two large and restraining circumstances. He was called home to assist in the settlement of his father's estate. In the divison of the property he found himself possessed of a good quarter section. Then he married a quarter section owned by the Widow Evans. The revenues from three hundred and twenty acres were sufficient guarantee of a living that would be free from toil and worry. So, he moved into the Widow Evans' cottage, and became one of the fixtures of Musselwhite, a domesticated warrior who dwelt musingly upon the dangers that he had encountered in gulches and foothills, holding the younger generation spellbound for hours at a time.

Sometimes the fever would get into his blood, and he would have to go into the vacant lot back of Fredericks' livery stable and shoot at a mark. This blazing away at inanimate objects was but a poor imitation of the royal sport of killing redskins, and usually he went at it with an apologetic and half-hearted lack of enthusiasm To the boys on the fence it had the semblance of real warfare, inasmuch as "Broncho Jim" would make believe, in order to revive happy memories, that the target was a skulking Indian

Very often he would say to the line of admirers perched behind him "Boys, s'posin that door was a Sioux." Then he would fire six shots in rapid succession at the inoffensive door propped up about fifty feet distant, each shot taking immediate effect.

Only the feverish imagination of a small boy could transform a discarded door into a painted savage, yet this dramatic performance had a wonderful charm for the boys of Musselwhite. They, at least were free from the doubts and small jealousies which pervaded the adult portion of the community. Every one of his full quota of chiefs moldering on the plains, while his half-guarded and rather modest admissions as to the taking of life suggested many harrowing adventures in which he had taken part, which for some mysterious reason, he did not choose to relate

Conceding that he may have left much untold, there is no denying the fact that what he told, in detail and fortified by the records at Washington, if they could be examined, made up a series of perilous events worthy to be put into an epic poem. For instance, think what it must be to win the passionate affection of a chief's daughter, thereby incurring the deadly hatred of the chief, and being compelled to make a desperate ride for life right through the hostile country with bullets zipping all about!

Could anyone blame "Bronco Jim" for repeating many times certain words spoken to him by Nelson A. Miles: "I want this here dispatch to git through on time, Jim, and you're the only one I can trust to git 'er through."

Those who sought to belittle the achievements of of "Bronco Jim" said that he claimed to be present at every engagement during the seventies with the exception of the Custer massacre, and the only reason he missed that was that all the whites were killed. However, it came out at Talbot's store one evening that he had warned Custer. Sitting Bull he had known intimately, but he had always mistrusted him, and whenever he had an interview him, in the Sioux language, he invariably sat with his back to a tree and his faithful Winchester laid across his knees. Bill Gunning, who had a gift of cross examination, wanted to know what he did if there was no tree handy. "Doc" Clevison volunteered an explanation—"no tree, no interview."

One name studded most of the narratives—the name of Choctaw Bill. Jim did not say that he and Choctaw Bill had slept under the same blanket every night for five years, but that such a degree of intimacy existed was to be inferred from the easy and familiar manner in which he made reference to the famous scout. As, for instance, "Whenever I started out on a ticklish job, it allus made me easier in mind if I could have Bill along, and Bill didn't much care to tackle anything out of the ordinary unless I'd agree to stay by him."

Jim had purchased from a traveling agent Choctaw Bill's book, sold by subscription only, entitled "Personal Recollections of Life on the Border." He had made marginal notes all through the work, mostly corrections. He did this in no spirit of carping criticism, but with a friendly desire to make the book accurate. For instance, Choctaw Bill, in telling of the massacre at Butler's ranch, writes: "The Indians approached from the east just at sunrise, in full paint and feathers, chanting their battle song." Jim had underlined this passage, and then written on the margin: "Wrong, Bill; they came from the west" It was a small point, to be sure, but why not get everything right while you're about it? So argued James Tibbetts.

When Jim was not present at the daily gathering in Talbot's store or on the store boxes in front, "Doc" Clevison, the town homœopath, frequently would express the conviction that Jim was a liar. Not an ordinary garbler of facts, but a collossal liar, all of whose operations were in the realm of pure fiction. "Doc" Clevison remarked upon the fact that "Bronco Jim" often told of the breaking of Indian ponies that went ten feet into the air at every buck, and yet no one in Musselwhite had ever seen him riding horseback. Jim told of desperate missions right into the heart of the hostile territory, and yet the Grand Army veterans were witness to the fact of his eating soap the day before Chancellorsville and being carried to the hospital groaning audibly. He loved to tell about hitting a silver dollar two times out of three at a hundred paces, and yet when he indulged in target practice back of Frederick's livery barn he invariably selected the old door as a target

"Doc" Clevison had but few ambitions in this life One of them was to show up "Bronco Jim"—to show him up to all Musselwhite as a fraud and a pretender This desire was somewhat actuated by an intense personal jealousy "Doc" Clevison had a private stock of narratives. He had killed two hundred brant and geese in one day with a commou muzzle-loader, and he had landed the largest blue cat ever taken out of the Kankakee river But what were fishing and hunting stories when measured alonside the scalpings and tomahawkings? Why should a company listen to duck stories when it could get bear stories from a man who was willing to remove most of his clothing, if necessary, in order to show the scars?

On various occasions "Doc" Clevison had tried to trip up Jim and cover him with confusion. One evening (again at Talbot's store) after Jim had concluded a story about Rain-in-the-Face, "Doc" Clevison looked across at him seriously, and asked:

"Jim, did you ever run across a Sioux chief by the name of Blue Thunder?"

"Never knew him very well," replied Jim. "Saw him once or twice in the Snake River country. I bought a buckskin pony once from Blue Thunder for eight dollars and afterward sold it to Cap Dillon for forty."

"What kind of a looking fellow was he?" asked 'Doc."

"Tall and light complected," said Jim. "I think he wuz a half-breed."

"It's funny that you'd remember him so well," said "Doc," deliberately, "becuz there never wuz any chief of that name. I thought the name out myself."

A painful silence ensued, with "Bronco Jim" looking very hard at "Doc" Clevison.

"There wuz a chief by that name, an' I knew him as well as I know you," said Jim; "but he wuzn't a Sioux—he wuz a Brule."

How was "Doc" Clevison to demonstrate, being put upon the defensive, that there never had been a chief named Blue Thunder? The victory lay clearly with "Bronco Jim."

At last "Doc" Clevison's chance came Choctaw Bill's Wild West Show and Traveling Exposition of Life on the Plains was billed to appear at Logansport Excursion rates were being offered on all converging railway lines. "Doc" Clevison's plan was to take Jim Tibbetts into the presence of Choctaw Bill and demand verification and corroboration. When Jim learned that Choctaw Bill was to appear in Logansport and that the Panhandle had made a round trip rate of $1 50, including a ticket for the grand stand, he did not manifest the keen enthusiasm that might be expected of one who had the opportunity to renew hallowed associations.

"Goin'?" asked Bill Gunnin

"Nope—don't believe I will," replied Jim. "It's an old story to me. Besides it's a mighty poor imitation of what we went through out there. I don't see no particular fun in gallopin' around in front of a lot of women and children, an' breakin' glass balls, an' so on."

"Won't Choctaw Bill be expecting you?" asked "Doc" "He knows you live here, don't he?"

"Last time I saw Bill we had a few words," said Jim; "Nothing very serious, but I don't know as I'd care to make up with him unless the first move come from him"

"Jim, he'd be tickled to death to see you," said "Doc." "I'll tell you what I'll do I'll pay your way over and take you into the show if you'll agree to go."

"I'll think it over," said Jim, cautiously; and that evening, for the first time in years, he seemed distinclined to tell of Choctaw Bill and life in the Indian country.

By diplomatic persistency "Doc" induced Jim to promise to go to Logansport. But when the fateful morning came and "Doc" stepped in to get Jim and escort him to the station, the veteran trapper and scout was found to be indisposed, with a sort of a dizzy feeling and a strong conviction that it was his duty to remain at home and "take it easy

"Git out! You're all right!" exclaimed "Doc," hitting him on the back. "Never seen you lookin' better Let me examine you. The examination showed that pulse and temperature were normal and digestion unimpaired. Jim put on his Sunday suit as in a walking dream, and permitted Clevison to lead him to the station Jim made no outward sign of being happy. Not even when he arrived at the station platform and was loudly greeted by Bill Gunning and Henry Talbot and Baz Williamson, all of whom seemed to be in condition of almost hysterical gayety. They were overjoyed at the prospect of being witnesses to the meeting of Bronco Jim and Choctaw Bill Jim stood apart from them and gazed meditatively at the long line of freight cars on the siding. He had the appearance of a man who lacked a plan of campaign.

Fortunately for James Tibbetts he had a nephew—a ripening attorney with a local reputation for shrewdness and the deft use of the English language. Some of his more hopeful friends were predicting that he would develop into a Beveridge or a Voorhees Homer Tibbetts was at the station to take advantage of the excursion rate. He overheard the gleeful comments of the conspirators and saw the unmistakable look of gloom on his uncle's face, and understood the situation

All the way to Logansport "Bronco Jim" evinced a pensive interest in the growing crops, but was in no mood for conversation. They arrived at eleven o'clock, and the show did not begin until two

At 11:30 the great Choctaw Bill, seated in his private tent, received the card of Mr. Homer Tibbetts, attorney-at law. He suspected that Mr. Tibbetts wanted two free tickets, but he consented to see the gentleman.

The future United States senator seated himself on the camp stool pointed out by the remarkable character with the overflow of hair and eagle eye.

"I'll come right to the point," said Homer Tibbetts. "Did you ever know a man named Jim Tibbetts?"

"Tibbetts? Tibbetts?" repeated Choctaw Bill. "It seems to me that a fellow by that name used to work on my ranch in Nebraska."

"He's my Uncle Jim, and he knows you a good deal better than you know him He has talked you up for years, and he sleeps every night with your book under his pillow I don't suppose that any other man in the United States has given you half the free advertising that you've got out of my Uncle Jim. We will admit, Mr. Choctaw Bill, that my uncle is the infernallest liar that ever drew the breath of life; but he has been a good liar—a consistent liar, and in all of his lies you have appeared to advantage. Well, he's up here today, and he's got a lot of doubting Thomases with him who expect to bring him around to see you and thereby show him up. So I'm appealing to you to be a good fellow I want you to recognize him when you see him Call him by name Recall a few incidents of the Sioux war, and then offer to give him a ticket to the show. It's all right. He's got his ticket."

Choctaw Bill smiled a grim and sympathetic smile

"I never went back on a friend," he said.

"Uncle Jim is getting on in years," continued Homer. "His whole future as a liar is now in your hands. You can save him from disgrace and humiliation"

"Give me a few pointers," said Choctaw Bill, picking up a pad of paper.

While Homer was giving the renowned scout and buffalo-killer a few hitherto unsuspected facts concerning his own career "Bronco Jim" was standing in front of a large billboard, making a most important discovery. He was gazing at a colored three-sheet poster of "Choctaw Bill" and shaking his head doubtfully.

"'Doc,' do you know what?" he asked. "I don't believe this is the real Choctaw Bill at all. This one that I seen out West had a knife mark down one side of his face, an' allus wore a goattee."

"Well, if this one's a fake, you ought to face him and tell him so," said "Doc" "But I don't believe he is. Anyway, we'll go out and hunt him up"

They loaded "Bronco Jim" on to a trolley car, and he rode out to the show lot, overburdened with the dull horror of the impending crisis. Homer Tibbetts was waiting for them at the main entrance.

"I got separated from you down there and came out alone," he said. "I've fixed it so we can go in to see Choctaw Bill before the show opens up."

Ashen pale, a helpless thing carried along in the maelstrom of Fate, "Bronco Jim" approached the private tent of his old friend and camp mate, Choctaw Bill.

The flaps of the tent parted, and the buckskin hero, at a swift signal from the attorney-at-law, was holding "Bronco Jim" by the hand

"Jim Tibbetts, put her there!" he exclaimed. "It's good for sore eyes to see you again. Miles was asking about you the other day. I told him that probably you'd run up from Musselwhite to see me You saved my life more'n once, and I figured that you'd be here today if you had to walk the whole distance"

Jim stood and listened with a ghastly smile, but "Doc" Clevison and the others were too much stunned and blinded to observe his confusion.

To this day "Bronco Jim" will sit apart from the others trying to explain to himself the miracle. It is all a vast mystery to him. But he has the satisfaction of knowing that any story he may choose to tell has the hallmark of authority. He was identified by Choctaw Bill

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The manager of the May Lundy mine at Lundy, Mono county, Cal., has adopted a novel method of drying ore tailings from the mill before submitting them to the cyanide process, says the ghost of Jim Townsend in the Virginia Report The cost of getting hay and feed to the mill is very expensive, and instead of using horses and plows to loosen the tailings in the slum pond, the company has purchased forty head of hogs and turned them loose in the pond, scattering feed on the tailings, and in rooting for the feed, the tailings are stirred up thoroughly and dry much quicker than by plowing and harrowing them.

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Refinings.

Gold was discovered in California on January 19, 1848, at Coloma.

Tungsten ore is said to have been found by Siems and Ehrenback, Rollinsville, Colorado.

Iron is not affected by mercury, but copper when placed in mercury will slowly absorb a quantity of the metal.

In 1873 there were but 7,300 tons of spelter made in the United States, extracted from zinc ores mined in the country.

Pyritic smelting is a process of smelting applicable to any raw ores not carrying lead, but especially to sulphide ores carrying copper.

The Ontario mine at Park City, Utah, has to date paid $15,000,000 in dividends, the record dividend payer of the country in silver-lead mines.

Colorado in 1902 produced $28,468,000 in gold and California $16,792,100. Colorado retains first place in gold production, California being second.

The Bement collection of meteorites now displayed in the American Museum of Natural History, New York, comprises 500 specimens, most of them rare.

The monetary commission of Mexico reports that there are employed in all the mines of Mexico 98,196 employees, of whom 414 are women and 5,595 children.

There is but little silver mined in South Africa. In fact the small amount of silver produced is extracted from the gold, as all gold carries a percentage of silver.

To date Brazil has added to the world's gold wealth one billion dollars. Gold was first discovered in 1577. Most of the total represents the production of placers.

Mexico produced in 1902 60,176,604 ounces of silver, with a commercial value of $31,893,600. The United States in 1902 produced 71,477,575 fine ounces of silver, of a commercial value of $29,415,000.

Brazil has produced 12,100,000 carats of diamonds, these in the rough having a valuation of about $100,000,000. Diamonds were first found in Brazil in 1746. Of late years her production of diamonds does not exceed 15,000 annually.

The Mollie Gibson mine at Aspen, Colorado, now practically abandoned, was in its day one of the greatest silver mines in the United States, it having paid almost $3,500,000 to its stockholders. At one time its stock sold at $11.50 per share.

The original partners owning the Bessemer patents for the manufacture of Bessemer steel, received 81 times their capital in 14 years. Bessemer's royalties produced for him no less than $2,500,000 yearly eight years after his great discovery.

The term mesh, as used in wire cloth, means the number of openings per lineal foot, measured from center to center of wire. Thus, four-mesh, No. 12 wire implies four openings to the lineal inch, or 16 openings to the square inch, and the size of wire No. 12.

Slimes is that portion of the crushed ore that, mixed with water, is so impalpable, it floats away. At times slimes contain quite considerable gold and consequently slimes are saved by the water being led to settling tanks or ponds. The slimes are then precipitated, gathered and treated again.

While the Standard Oil company asserts that the supply of oil is decreasing, the Geological Survey reports that in 1902 the production was 80,000,000 barrels in this country, an increase of 11,000,000 barrels over the preceding year.

The big gold dredge on the Moreno, Colfax county, New Mexico, which cost $100,000 for construction, earns for her owners $100,000 per year, the cost of operation being $50,000 per year. Of the expenses of operation it is said that the fuel costs $10,000 a year.

Graphite occurs at a number of places in the United States, and in quantity sufficient to warrant exploitation in New York, South Dakota, Rhode Island, Wisconsin, and Pennsylvania. The deposits in and near Ticonderoga, New York, have been worked for a number of years, these mines being the best in the country. A good grade of graphite commands a good market, particularly if it be found near transportation and industrial centers.

Carbonado or carbon was first found in Brazil in 1845. It is a form of carbon closely related to the diamond and occurs in small irregular crystalline masses of a dark gray or black color. A few extraordinarily large specimens have been found. The carbon's density is not as great as the diamond, but it is very much harder and is understood to be the hardest known mineral, thus its use for cutting rock in core drills. Present prices of carbons range from $40 to $60 per carat. When first discovered they sold for 25 cents per carat and were considered of no particular value.

Amber is not a mineral. It is a vegetable gum. It occurs mainly along the Baltic coast. It is found associated with mineralized wood underneath a covering of sand and clay that in places is 50 feet deep. Amber is found in rounded or stalactitic forms, with sulphate of iron. Along the Baltic are really mines of amber. The amber bearing deposits vary in thickness and the quantity found varies considerably. Dredging and diving is sometimes resorted to. Masses of amber are picked up along the south shore of the Baltic after heavy storms. Amber in its crude state it sells for $3 per pound.

The Tennessee Copper company, operating mines in Ducktown, Tennessee, is producing 100,000 pounds of copper monthly and which is laid down in New York at a cost of eight and one-half cents per pound. The company has been experimenting with the pyritic process of smelting and has equipped one of its three furnaces for this method. So successful has been the pyritic system, that the company proposes changing its remaining furnaces and installing a fourth. The company is in position to produce during the coming year fully 18,000,000 pounds of copper. The mines have attained a depth of 400 feet and work is progressing in ore bodies 160 feet wide. The property is controlled by the Lewisohns.

Mining Reporter says that at the Val Verde smelter, Yavapai county, Arizona, where the iron blast is employed in smelting, the matting furnace has operated for 11 months of the year on 5 per cent coke in the charge. For several days the coke consumption ran low as 3 per cent in the charge, which indicates a pretty general utilization of the sulphur in the ore. This is done by means of a hot blast that does not reach above 400 or 500 degrees Fahrenheit, as it was demonstrated that raising the temperature did not materially save fuel. However, it is deemed that smelting with a cold blast the low grade refractory ore of this section would be out of the question, because the extra consumption of coke would make the operation expenses prohibitive, and because the lead and arsenic, which are burnt out in the present operations, would be retained in the matte, making it less marketable.

MERGER IN MINES.

A new era in the annals of Lardeau mining district of B. C. is inaugurated through the organization of the Kootenay Consolidated Mining Company of B. C. Limited, with headquarters at Minneapolis, says the Rossland Miner. The corporation is a merger of half a dozen well known Lardeau gold-silver-lead mines, and ranks with the most important mining deals in the province. It is easily the biggest merger ever put through in the Lardeau-Duncan country, and has within it potentialities of the greatest importance to the whole district. Judge J. M. Miller has been instrumental in putting through the deal.

The Kootenay Consolidated merges the following Lardeau properties: Old Gold, Primrose, Mountain Lion, Treadwell, Black Warrior, Lardeau-Duncan, Guinea Gold Extension, Spring Group, Silvery Moon, Comstock, Rio Grande, Baltimore and Amazon. The Old Gold and Primrose have already shipped ore giving returns of over $100 per ton, and a large tonnage is stored at the mine awaiting shipment. The Black Warrior, Mountain Lion and Treadwell have considerable ore bodies blocked out and ore in transit to the smelter. The remaining properties have remarkable surface showing, requiring only judicious development to make them important shippers.

Minneapolis capatalists are behind the merger, among the men thus interested being Dr. C. S. Dudley, Colonel H. L. Archer, H. S. Dudly and M. C. Miller. All are experienced mining investors, having interests in Colorado, Nevada and California. After thorough examination of the Lardeau-Duncan properties just merged, the Minneapolis people pronounced them equal to any of their holdings in the states specified.

Why Paradise was lost.—The First Woman: "I'll get Eve'n with you!" The First Man: "Not by A-dam sight!"

Capitalists can procure a working bond upon an excellent silver property by sending their address to box 452, Nelson, B. C.

The Canada Drug and Drug Co., Nelson, pay strict attention to mail orders

A BOUQUET FROM THE MINERAL KINGDOM For $1 will send by mail ten sample specimens of Silver-Lead-Zinc ores of the Slocan, from mines in the vicinity of New Denver. Five for 50 cents one large piece (a unique paper weight) for 25 cents. W. D. MITCHELL, Mines & Real Estate New Denver, B. C., Dec. 9, 1903.

FRANK FLETCHER

Provincial Land Surveyor

Lands and Mineral Claims Surveyed and Crown Granted.

P. O. Box 553 Office: Kootenay St., Nelson.

COLIN J. CAMPBELL
ASSAYER
P.O. BOX 36 NEW DENVER.
Terms on application.

Merry Xmas and A Happy New Year to all

We wish to thank our many friends for their liberal patronage of the past year, and we take this opportunity of extending to you the Happy Season's Greetings; and wishing you, one and all, health, wealth and happiness for nineteen-aught-four.

W. R. Megaw, Sandon and Vernon.

Love in Nelson.

This picture represents a nightly scene in Nelson and shows that the old story is ever new. The young man is happy because his best girl fans the delicately perfumed atmosphere, while he sits serenely, well knowing that his immaculate shirt bosom was done up at the

Kootenay Steam Laundry

and will not break even if the situation becomes critical.

ETIQUETTE IN MEXICO.

Children kiss the hands of their parents.

The hostess is served first at a Mexican table.

The bridegroom purchases the bride's trousseau.

Female friends kiss on both cheeks when greeting or taking leave.

Gentlemen speak first when passing lady acquaintances on the streets.

The sofa is the seat of honor, and a guest waits to be invited to occupy it.

Men and women in the same social circle call each other by their first names.

When you move into a new locality it is your duty to make the first neighborhood call.

Young ladies never receive calls from young men, and are not escorted to entertainments by them.

Dinner calls are not customary, but upon rising from the table the guest thanks his host for the entertainment.

Mexican gentlemen remove their hats as scrupulously upon entering a business office as in a private residence.

H. GIEGERICH

Staple and Fancy

GROCERIES

Agent for

GOODWIN CANDLES
GIANT POWDER

AINSWORTH SANDON

HOTEL SLOCAN

A name that is familiar to old-timers as the name of Three Forks—familiar because it was there in days of boom and in days of depression that they enjoyed the hospitality of the genial proprietor, and partook of the hostess' bountiful table. The same conditions prevail today that have won for the house its enviable reputation and the name of its proprietor is—

HUGH NIVEN

It has lately been renovated throughout, and is first-class in everything.

Chadbourne & McLaren
SAMPLING AGENTS
Ore shipped to Nelson will be carefully looked after.
NELSON. - - - B. C.

CANADIAN PACIFIC RY.

Change in Train Service on Nakusp and Slocan Section

Commencing November 15th, the following schedule will be in effect. Trains will leave and arrive at Nelson as heretofore, the change in time being between Sandon and Nakusp. Following is the new schedule:

Read Down Mon Wed Fri	Read Down Tues Thur Sat			Read Up Tues Thur Sat	Read Up Mon Wed Fri
8.15	8.15	Lv Sandon	Ar	16.35	17.15
8.20	8.20	Three Forks		16.20	16.50
8.55	8.55	Alamo		15.45	16.5
[illegible]	[illegible]	Duncan City'n		[illegible]	[illegible]
9.30	9.30	Ar Rosebery	Lv	15.00	15.30
9.15	9.15	Lv Nelson	Ar	15.40	15.40
15.40	11.00	Ar Rosebery	Lv	12.00	16.00
	10.00	Lv Hills	Ar	11.30	
	10.25	Summit		11.05	
	11.00	Ar Nakusp	Lv	10.05	

NOTICE.

Thirty days after date I intend to apply to the Chief Commissioner of Lands and works at Victoria, for a Special License to cut and carry away timber from the following described tracts of land, situate on Wilson Creek, in West Kootenay District.

FIRST LOCATION.

First commencing at a post planted on the North side of the third east fork of Wilson Creek, about four Miles from the main Creek, thence North 40 chains, thence East 160 chains, thence South 40 chains, thence West 160 chains, to point of commencement.

Located November 12th, 1903.

Mrs. S. Prestley.

SECOND LOCATION.

Situated on Wilson Creek in West Kootenay District. Commencing at a post planted on the East side of second West fork of Wilson Creek, about 7 miles from the main Crhek, marked Mrs. S. Prestley's S. E. C., thence west 40 chains, thence north 160 chains, thence east 40 chains, thence south 160 chains to point of commencement.

Located November 10th, 1903.

Mrs. S. Prestley.

NOTICE.

TO DELINQUENT CO-OWNER.

To H. EUMMELEN, or to whomsoever he may have transferred his interest in the Soho mineral claim, situated in the McGuigan Basin, Slocan Mining Division, West Kootenay Mining Division

YOU are hereby notified that I have expended $102.50 in labor and improvements upon the above mentioned mineral claim under the provisions of the Mineral Act, and if within 90 days from the date of this notice you fail or refuse to contribute your proportion of the above mentioned sum, which is now due, together with all costs of advertising, your interest, in the said claim will become the property of the undersigned under Section 4 of the "Mineral Act Amendment Act 1900."

Kaslo, B. C., October 15, 1903.

J. C. RYAN.

NOTICE.

TO DELINQUENT CO-OWNERS.

To THOMAS M. RAE, or to whomsoever he may have transfered his interest in the Royal Five, Lake View, and Jennie mineral claims, situated on Goat Mountain, Slocan Mining Division, West Kootenay District

YOU are hereby notified that we have expended $555.00 in labor, improvements and survey, upon the above named mineral claims, under the provision of the Mineral Act, and if, within 90 days from the date of this notice, you fail or refuse to contribute your proportion of the above-mentioned sum, which is now due and payable, together with all costs of advertising, your interest in the said claims will become the property of the undersigned under section 4 of the Mineral Act Amendment Act, 1900.

EDW'D HUNT,
DUNCAN D. MACDONALD,
DAN J. MATHESON.

Vancouver, B. C., Sept. 10th, 1903.

FOR SALE.

One of the Prettiest Places in Kootenay

The New Denver Market Garden, Sixth Street. Seventy fruit trees, nearly all bearing; all kinds small fruits, strawberries, raspberries, gooseberries, red currents, etc. Flower garden with choice varieties of roses and other plants for cutting—good market. All under thorough cultivation, and perfectly irrigated, with comfortable dwelling house, woodshed, storeroom and out buildings. For further particulars apply to WM. ANDERSON, New Denver, B.C.

CERTIFICATE OF IMPROVEMENTS

FLORENCE Mineral Claim.

Situate in the Slocan Mining Division of West Kootenay District. Where located: On Goat Mountain, north of "Turri."

TAKE NOTICE that I, Herbert T. Twigg, as agent for Thomas W. Fitzgerald, free miner's certificate No. B 69269, Noah F. McNaught, free miner's certificate No. B. 64,387, and William R. Will, free miner's certificate No. B 64404, 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 3d day of December, A. D. 1903

HERBERT T. TWIGG.

DUM DUM FRACTIONAL Mineral Claim

Situate in the Slocan Mining Division of West Kootenay District. Where located: On Payne Mountain, south of "Big Timber."

TAKE NOTICE that I, Herbert T. Twigg, free miners' certificate No. B 64392, 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 19th day of November, A. D 1903

CLARA MOOR Mineral Claim,

Situate in the Slocan Mining Division of West Kootenay District. Where located: On Gold Creek, about one-half mile from Slocan Lake

TAKE NOTICE, that I, A. R. Fingland, F. M. C No. B 69293, 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 Sec. 37 must be commenced before the issuance of such certificate of improvements.

Dated this 22nd day of October A. D. 1903.

A. R. FINGLAND.

KOOTENAY RAILWAY & NAVIGATION COMPANY, LIMITED.

OPERATING
INTERNATIONAL NAVIGATION & TRADING COMPANY LIMITED
KASLO & SLOCAN RAILWAY.

9:00 a. m. Lv. KASLO Ar. 3:15 p. m.
11:25 a. m. Ar. SANDON Lv. 1:00 p. m.

INTERNATIONAL NAVIGATION & TRADING COMPANY, LIMITED.
KASLO-NELSON ROUTE.

5:00 a. m. Lv. NELSON Ar. 7:15 p. m.
8:40 a. m. Ar. KASLO Lv. 3:35 p. m.

Tickets sold to all parts of the United States and Canada via Great Northern and O. R. & N. Company's lines.

For further particulars call on or address

ROBERT IRVING, Manager, Kaslo.

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HOTELS.

THE KING'S HOTEL in Ferguson is a cheerful home for all travelers to the Lardeau. JAMES CUMMINGS, Proprietor.

TREMONT HOUSE, NELSON European and American plan. Meals, 25 cents. Rooms from 25c up to $1. Only white help employed. Nothing yellow about the place except the gold in the safe. MALONE & TREGILLUS.

MADDEN HOUSE, NELSON, is centrally located and lit by electricity. It is head quarters for tourists and old timers. Miners or millionaires are equally welcome. THOS MADDEN, Proprietor.

THE ROYAL HOTEL, Nelson, is noted for the excellence of its cuisine. SOL JOHNS, proprietor.

BARTLETT HOUSE, formerly the Clark is the best $1 a day hotel in Nelson. Only white help employed. G. W. BARTLETT proprietor.

THE MAZE, in KASLO, is just the place for Slocan people to find when dry or in search of a downy couch. REUTER & LATHAM.

WATCHES.

J. G. MELVIN, Manufacturing Jeweller, Expert Watch Repairer, Diamond Setter and Engraver. Manufactures Chains, Lockets and Rings. Workmanship guaranteed equal to any in Canada. Orders by mail solicited. Box 240, Sandon.

Wholesale Merchants.

STARKEY & CO., WHOLESALE DEALERS in Butter, Eggs, Cheese, Produce and Fruit. Nelson, B. C.

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F. L. CHRISTIE, K. C. L. R., Barrister, Solicitor, Notary Public. Vancouver B. C.

M. L. GRIMMETT, L. L. B., Barrister, Solicitor, Notary Public. Sandon, B. C. Branch Office at New Denver every Saturday.

Insurance & Real Estate

THOMPSON, MITCHELL & CO. Fire Insurance Agents. Dealers in Real Estate. Mining Properties, Houses to Rent and Town Lots for Sale.

NOTARY PUBLIC.

C. [illegible] NOTARY PUBLIC. NEW DENVER, B.C. Real Estate. Mineral Claims for Sale. Claims represented and Crown Granted.

DENTISTRY.

DR. MILLOY, ROSSLAND, B. C. Has had 17 years experience in dental work, and makes a specialty of Gold Bridge Work. Visits made to the Slocan regularly.

General Store.

J. T. KELLY, THREE FORKS, dealer in Groceries, Dry Goods, Etc. Goods shipped all over the Slocan.

SECRET SOCIETIES

SILVER CITY LODGE NO. 39

I.O.O.F.

SANDON, B. C.

Meetings in the Union Hall every Friday evening at 7:30. Visiting brethren cordially invited to attend. DAN HURLEY, Noble Grand; J. E. LOVERING, Vice Grand; JAS. H. THOMPSON, Secretary.

A.F. & A.M.

ALTA LODGE NO. 29

SANDON, B. C.

Regular Communication held the first Thursday in each month in Masonic Hall at 8 p. m. Sojourning brethren are cordially invited to attend. JAMES M. BARTON, Secretary.

Sandon Lodge No. 24, K. OF P.

Meets every Wednesday evening at 8 o'clock in the Pythian Castle Hall, Sandon. Sojourning brethren will receive a Pythian welcome. R. H. GORDON, C.C. ALFRED J. HALL, K. R. & S.

SURVEYOR.

JOHN McLATCHIE, Dominion and Provincial Land Surveyor. Nelson, B. C.

A. R. HEYLAND, Engineer and Provincial Land Surveyor. KASLO

SANITARIUM.

HALCYON HOT SPRINGS SANITARIUM. The most complete in the Continent of North America. Situated midst scenery unrivalled for Grandeur. Boating, Fishing and Excursions to the many points of interest. Telegraphic communication with all parts of the world: two mails arrive and depart every day. Its baths cure all nervous and muscular diseases; its waters heal all Kidney, Liver and Stomach Ailments of every name. The price of a round-trip ticket between New Denver and Halcyon, obtainable all the year round and good for 30 days, is $3.35. Halcyon Springs, Arrow Lake, B. C. **HEALTH RESORT**

HOTELS

THE SILVER KING HOTEL, Baker St., near Ward St., Nelson, B. C. THE DOLLAR A DAY HOUSE.

THE HOTEL FERGUSON is the home of Slocanners when they are in Ferguson. McDONNEL & BLACK, Proprietors.

THE BRITTANNIA HOTEL offers old ale and the best in the Lardeau. Gold seekers always welcome. ULVINETOS.

THE QUEEN'S HOTEL in Trout Lake has undergone complete renovation throughout. ABRAHAMSON BROS.

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