lispensations which ned, and he is pure as a soldier without n d'office, it is tech. e case of the conbefore it-and they ity-the council are physically fit to service, and proissability of in to be dispensed of service, to serve hree. The question settled, of course ation, an experience cript his first taste

barrack life, for , he has to strip to his turn, it may be in a common room If the health of a the decision with adjourned, and he gain in six months hould be mentioned ight accepted is 1.5. feet three inches ged Classes.

ly serving one year st place to certain whose family cir. tional. Thus the elda widow, the eldest phans, the eldest son more children and who happen to e year are entitled This dispensation is men whose earnindispensable to family and to the who have died or led while on active largest class, how oldiers is furnished ssions. The young g to be barristers. nd engineers or for have to serve but ssion is conditional eir examinations. them they must rend complete their umber of dispensais very consider of the 250,000 or rm the annual con-

sion takes notes of occupation or proas his physique alare taken into conng him to this or rvice. The labors of results are sifted war office, and the onscript settled. He the receipt of his marching orders, an amanding him to ich he had been aty. If he is penniilway fare is given his district. Should is expense the sum his joining his regiomply with the in in the "feuille de an act of insurborthe "insoumis" to he incorporation of as a rule, in Noipt has become a to the munificent per day. Pall-Mall

NIAL BOOK

s Magazine, the assigned to "The Books," by Mr. J. hich deals with a istory that the risbut little about. he mining industry on a smaller scale. that brought about South Africa. A etween the miners h this result: was stormed and

th and 40th Regileader of the "rebof the book) was ret the slain. Newsnumbered him nd one of them define, well-educated vorite. e assault, although

escapes and excitile helping to bandne of his friends he a government spy. of the leaders of the a dozen other prisned to the Governsearched, knocked ng, and thrown in is crammed to sufnot room enough at with the vermin, ace, and the heat nidsummer, he beexclaims, in recalne:-"Oh, days and , 5th, and 6th of remembrance will in my grave! vestigation at Bal-

discharge of 160 Thirteen, of whom ere committed for aken down to the vait their trial. Beng the thirteen were dress, placed in a ained in couples. aptain Thomas read ect that they were or transit to Melany one of them moved a lip when d, the transgressor spot. On hearing astically exclaimed, n!" a piece of prethe tightening of his being placed in cart as a further

he day in the law followed the exten-

used of complicity in ouse frauds, were acthe president of the bree judges, has inon a clause to the four of the accused he taken before the decision holds with ppraisements, and it that goods have been here the goods can-

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KASLO.

The C. P. R. engineering department awarded the contract for the Sandon New Denver depots to D. J. Macof Kalso. The building at Sanwill accommodate passengers and sht, and is to cost \$2,500. The New over station is for passengers only nd will cost \$500.

GREENWOOD.

At the last meeting of the Retail Clerks' Association, held last week, the lowing officers were elected: J. Thos. Williams, president; E. B. Birk, vice-E. Dill, secretary, and M. Berger, B. F. Petch and J. Thos. Wildelegates to the Trades and Labor

NEW WESTMINSTER. The New Westminster Liberal-Con-

cted delegates to the forthcoming conpublic meeting was held on Tues-

celebration in connection with the vincial exhibition. The first business ne was the election of His Worship Mayor Scott as permanent chairman, and as vice-chairmen, His Honor Judge Bole, Sheriff Armstrong and Messrs. F. Anderson and G. D. Brymner. A ommittee to draw up a programme of events was appointed.

KAMLOOPS.

At a meeting of the directors of Kamloops Agricultural Association on Saturlay afternoon last it was decided to invite the following gentlemen to act as ed by wire with the outside world. adges at the Kamloops exhibition on 26th, 27th and 28th: Jos. B. kling, of Carman, Man., on horses and an eight-hour day. They got it, sheep: Jas. Bray, of Longburn, Man., on attle and swine; Prof. Marker, superendent of creameries, Calgary, Alta., on dairy produce; T. H. Sharpe, superdent of experimental farm, Agassiz, and F. Hutcherson, of Ladners, on fruit; and George Eldon, of Vancouver, on vegetables, roots and field produce. 'The same gentlemen are to act as judges at the New Westminster exhibition.

ROSSLAND.

Fire last evening destroyed the sawmill of R. Miller, six miles below Rossland on the Red Mountain railway. The n the mill building and caught a pile of ing destroyed. Half a million feet of umber was burned. A car and carload of dressed lumber were also consumed. There was no insurance; estimated loss, \$20,000.

A quiet wedding took place on Friday the Baptist parsonage, when Edward laston, a miner at the Centre Star, and Lily May, daughter of John and Sophia Boyd, formerly of New Brunswick, and now of this city, were joined in the bands of matrimony. Mr. Maston comes from Intario, but is now making his home in lossland. The ceremony was performd by the Rev. W. T. Stackhouse,

A branch of the International Printing Pressmen and Assistants' Union has just been formed in this city. The following are the officers: Thomas E. Abbott, of Cathurs, of the Stunden Printing Company, vice-president; J. H. Fletcher, of the Rossland Record, secretary-treasurer; S. Durkee, S. Sherlock and Frank

McKenna, executive committee.

zens was held in the city hall on Monday evening to make preliminary arrangements for the reception of the Governor-General on September 5th or Judge Nelson moved that the meof procedure be as follows: The train to be met at the depot the Rocky Mountain Rangers, Trades and Labor Union and the City band, salute and escort the visitors to hotel (torchlight procession.) General reception later at Miners' Union hall, when and where an address will be presented. Next day visit the mines: luncheon at The secretary was instructed to communicate with the secretary of the school board inviting the school board deem best.

NELSON.

John P. Froom, the recently appointed customs officer at Waneta, was marstrong of Greenwood. The ceremony by Rev. William Munroe.

Nelson had a mild edition of the Johns

town flood on Saturday evening, when

the electric light dam burst, allowing the entire contents of the reservoir to rush down the valley with a roar, which startled half the city. The loss of the reservoir shut down the power house, and the lighting system will probably be disjointin an instant until there was a gap of 30 rangements with W. H. Keary, the manfeet, through which the water rushed ager of the exhibition. with a roar. The reservoir is estimated eased at once. The great wave passed Switzerland and the United States. through the gorge leading to the flats

work by torch light to effect repairs .-Tribune.

Rev. Coulter White, who has acting as pastor of the Baptist church for the past six months, is about to resign his position owing to the failure of his health. It is not known who will succeed him. Mr. White and family will continue to reside in Nelson.

VANCOUVER.

W. C. Ward, the general manager and a director of the Bank of British Columbia, and S. H. Plummer, assistant general manager of the Canadian Bank of Commerce, arrived here on Tuesday from Toronto in connection with the arranging of the details for carrying through to completion the amalgamation of the two

The sockeye run has come to an end, and a great many of the fishermen are agreed by all the canners present that, on the Nickel Plate. tive Association on Tuesday night | considering the number of canneries in record. each cannery getting less fish ship on the first of next month. than in any other season in the history lay night in the city hall to organize the of the industry in the province. The pack past week and year to date: citizens' committee to carry out for the present season will be 125,00

cases J. B. Charleson, who is superintendi the construction of the all-Canadian tel graph line to Dawson, says that the As croft end is completed to a point 1 miles north of Hazelton, and the Daws end to a point 100 miles south of Te graph Creek. The two ends would ha been joined by this time if it had no been for the difficulty of getting pa horses to handle the wire and supplied It is expected, however, that by Octob 1st the Klondike capital will be connect The bricklayers and masons on the

Will MacLain, the labor socialist and one of the leaders in the fishermen's ore bodies located. On the 500 level a strike, has been asked by the white pump station is being cut out to the east-

for the House of Commons.

fishing in prohibited hours. A telegram has been received by the tist church from Rev. Roland D. Grant, umber on and near the skidway, all be- Grant, who is a talented man, as pastor of the church here.

At the last meeting of the board of license commissioners Commissioner Martin gave notice that he would move the following resolution at the next meeting: "To amend the Liquor License By-law, by providing that there shall be but one entrance to all hotel bars and

saloons.' The striking C. P. R. machinists held a public meeting in the city hall. Among the speakers were G. R. Maxwell, R. G. McBeth and J. H. Baint in: Will McCain, the Socialist leader; Ald. Foreman and Baxter; L. Melrose, Chicago, and H. F. Ross. Mr. Maxwell said that the government should be appealed to to bring the disputants together to have the strike settled as soon as possible. Rev. J. H. Bainton said he believed the men were striking in a good cause, and hoped they would win, because they had justice on their side.

A canner, who is interested in the salmon packs on the Coast, gives the fol-A well attended meeting of the citi- 130,000 cases, one-tenth of what was belowing figures as official: Fraser river, ing figured on; Columbia river, 260,000 cases, average pack 500,000 cases; Puget

Central Park Orange Lodge, No. 1727. was formally inaugurated on Wednesday evening at Central Park, A special car from Vancouver took about 75 prominent Orangemen to assist with a contingent from New Westminster in the opening ceremonies. Deputy Grand Masters D. Donaldson, Past Grand Masters J. Jackson and T. Cunningham and County propriate speeches being made, besides the election of the following officers: F. reception in the manner which they may Cunningham, chaplain; Fred. Thrussell, Reid, F.S.; R. J. Johnston, D. of C. Cook and W. H. Toxton, committeemen. tions of Vancouver, New Westminster, was performed in the Phair hotel parlor | Victoria, Nanaimo and elsewhere in the province, to take immediate steps for the formation of a Lord's Day Association, on such lines as will enable the clergy and good citizens of all Christian denom inations to co-operate in the preservation of this precious heritage, and pledging the

A meeting of the executive committee of the Forestry Association was held ed until the temporary dam will be com- on Wednesday night in the mayor's room pleted and the lights once more in use, at the city hall. A letter of apology for A man named Williams had an extreme- unavoidable non-attendance was read ly narrow escape. He lived in a shack from Thos. Cunningham, who suggested at the rear of R. R. Hedley's residence, that the association should consider the and exactly at the point where the water possibility of establishing pulp mills in burst through. At the time he was eat- the province. Colonel Warren deemed ing supper. When the rush came his effective organization the first thing shack was swept away, the roof torn off needful. On Mr. Philip's suggestion the and Williams just managed to avoid go- association was declared to be "provining down the gulch by grasping the limbs | cial," the word being added to its title. of a tree on the bank. He was badly It was also resolved that a sub-combattered and bruised, but thinks himself mittee draft a constitution and by-laws lucky in having escaped death. The dam Col. Warren and Messrs, Beecher, Boak was being repaired and strengthened. In and Ross being appointed members of he course of the work dynamite had this. On the motion of F. Carter-Cotbeen used to break buolders, and this is ton, seconded by Mr. Beecher, it was said to have caused the trouble by loosen. resolved that a public meeting be held ing the sand on which the structure was at New Westminster during the fair built. Once started the break widened week, the secretary to consult as to ar-

sociation to such efforts.

The proportion of divorces to marriage to have contained about a million gallons in Australia is very much higher than of water, the whole of which was re- those in other countries, except Denmark, General Buller has been described as the where it spread out and covered most of strongest man in the British army, and it the valley. A party of club members is interesting in this connection to remem were playing tennis and ran for life when ber that, in a discussion on the military they saw and heard the water. The big heroes of the Bible, Mr. Gladstone, in Wave entered the Chinese laundry on the challenging a statement that no general in flats, piled up the furniture in a corner modern history could match Joshua, exand carried the porch off the house. The couldn't hold a candle to Redvers Buller as city officials immediately put men to a leader of men."

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Rossland Camp.

The Rossland Miner in its weekly mining review in Sunday's issue says: The chief matter of importance this week is the starting of regular shipments 3 a sump was cut of about 16 feet in depth from the Le Roi No. 2 which in the three days ending this week shipped 12 cars of ore giving an approximate tonnage of 360 tons. This rate of shipment will in all probability be kept up for the present, but within a few weeks it should be banks. After a stay here of a few days doubled. The management have stated Messrs. Ward and Plummer will proceed that the only limit to the amount shipped to Victoria and from there to San Fran- within certain bounds is the amount of air that can be had.

Hardly inferior from a point of view affecting the welfare of the camp, is the putting their nets into winter quarters. news that the B. A. C. have decided to At a meeting held by the canners at their give a 40-drill compressor to the Great Vancouver offices yesterday, it was Western mines, erecting the machinery The general manager of the War Eagle

operation, this year is the worst on states that the Centre Star will begin to Apended is a list of shipments for the

page week and year to dat	C.
	Week.
LANCE TO BE A STATE OF THE STAT	Tons.
Le Roi	. , 5,565
War Eagle	
Dentie Star	
Iron Mask	
Le Roi No. 2	360
Evening Star	
I. X. L	
Monte Christo	10° 14'
Iron Colt	- Comment
Giant	1. 2. 1
Spitzee	90
(%) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20
Total	5.945
A STATE OF THE STA	-,010

Great Western Mines.—There is the drill hall building struck yesterday for usual amount of development work in progress upon this mine. The levels are being extended at the 600-foot level and the fishermen to contest Westminster district | ward of the shaft. It is expected that to-day the ore body located at the pump One hundred summonses were served station at the 460-foot level will be again on fishermen yesterday at Steveston for cutcointo, establishing it thus in four places, the 400, 460, 500 and 600. This is the same streak as discovered last March, board of management at the First Bap- and is one of the best bodies of ore in the mine. On the 200 level the workings to that he is considering the call that was the east of the shaft are being straightentendered him, and that he would send ed out so that it will be possible to stope a decisive answer in the course of a out the ore without fetching it out on a day or two. The board consider this circuitous route. Also connections have ause of the fire is unknown. It started a very favorable reply, and are quite been made with the workings at the old hopeful of ultimately securing Rev. Mr. shaft near the Golden Charlot. It is probable that an upraise will be started on the eastern side of the Nickel Plate which will come through to the surface so as to secure a proper ventilation to the mine in these portions.

Kootenay Mines .- The work on the Columbia-Kootenay presents no unusual features this week with the exception that the management have determined to renew work on the crosscut to the north from the No. 6 tunnel, which was started some time ago from a point about 1,000 feet in from the mouth of the tunnel with the intention of cutting the Tip Top vein. The when it was stopped in order that other ledge should be encountered Sound, 150,000 cases, about one-fifth of is also being undertaken to the south with vein, which is identical with that of the present time, 60 tons of high grade ore both to the east and to the west. The raise from No. 6, which is to connect with | ledge at depth.

a winze from the No. 5 is in progress. was an interesting one, a number of ap- just as soon as the management is ready to participate with the children in the Wilson, W.M.; W. Colter, D.M.; Thos. still in progress. On the fourth or lowest R.C.; H. B. Connacher, treasurer; E. H. from it to the level above is in hand, and fair progress is being made. Between the mediate level which is opening more backs ried on Saturday night to Mrs. Arm- adopted urging the Ministerial Associa- neath the big stope above which, now nearly completely timbered up, has shipped so much ore. The first level west is being continued to the side line of the property, and is still in the fine body of ore which was located there early in the

steadily throughout the week on the lines hearty support of the Loyal Orange As- usual in the mine. About 700 tons daily have been stoped and shipped. The principal levels being stoped at the present are the sixth and seventh, although a little has been taken out of both the eighth and ninth. The development work is proceeding abreast of the stoping. The shaft is being sunk below the 800-foot level and there is to be an upraise from the station being cut on the 900-foot. . This will connect through in a short period.

Le Roi No. 2.-Since the commencement of shipping from this property there has been a slight increase in the staff employed, although not nearly all the additional help contemplated has as yet been put on. Up to the present not a single stope has en started with the exception of that on the Poorman, from which a part of the ore sent from the Josie was obtained. There are just now 11 machines at work, of which seven are doing development and four are occupied otherwise. On the Josie the attention is centred on the widening of the shaft and the cutting of a station at the 100-foot level. A fine body of ore has been located on the 500-foot level, where an upraise is being made to connect with the winze above from the 300 level. On the No. 1 the usual work is in progress but arrangements are being made to start one or more stopes this week. On the Annie, the joint shaft is down about 140 feet and is in ore, and very good ore at that. The values found above have been preserved below and have increased. The ledge has also widened out and the floor

of the winze is in ore. Evening Star.-Manager Chamberlain reports that he has now reached the 200-foot

crop. The upper levels are respectively those at the 55 and 94 feet, which are upon these the ore taken out was shipped, but the mine is not at present endeavoring to do any shipping; it is confining itself to the exploitation of the property by thorough prospecting. Sinking from No. 2 level, the winze ran into a dyke about 12 feet in width, which was found to have displaced the ore body. In arriving at No. and a station was also opened. From this crosscuts were run, as the lower wall of the dyke had been reached just at the Boulder creek are sacking ore preparatory station level, and it was necessary to lo- to making a trial shipment. The lead on cate the exact position of the ore body | this claim can be traced for 3,000 feet. after the distortion occasioned by the in-

point about 60 feet west of the station on of men all winter. No. 3, connecting with the level above. drifting is going on eastward on the north vein, while in the south the work is confined to the exploration of the new vein encountered. The crosscut will be pushed on to the point where the south vein, if not displaced, should be found. The work on the upper levels is proceeding on the same lines as those detailed last week. is at present chiefly confined to the push-

ing of the tunnel under the North Star vein. It is expected that the vein will be cut inside the next couple of weeks, when the ledge, which has proven of shipping value at a depth of 65 feet below the outcrop, will be cut at about 400 feet below the surface.

California .- Development work on this property is confined to the drift on the 200-Toot level, which is now in about 70 feet. The exploration work in the tunnel, which is an independent proposition and which starts some 400 feet east of the shaft, is still being continued. The expectation is to cut the northern vein of the property. This ought to carry some of the values which have been found upon the Le Roi No. 2.

Columbia-Kootenay Mountain. One of the very first properties in the tain, just outside the city limits to the dertaken on the side of the hill, and a shaft was sunk upon the ledge and a depth was attained of about 70 feet. At that of the proposition, the one being the lack of water, and the second the high price of the rates of freight and treatment. The latter has, through the natural course of events, become considerably lowered and to a lower point on the same hillside where was then turned along the vein on the foot-

less expensively be obtained. Under new management permission was obtained from the Alberta owners to use their tunnel, which ran northerly into the hill towards the vein lying east and west and more important work should be pro- the work under the old shaft about 320 ceeded with. The face of the crosscut feet below the surface. Here a station was when left was in mineralized rock, and it cut and prospecting drifts run east and and from the usual dip of the vein ledges on the northern half of the and if it should only approximate those the Columbia and in the Kootenay. The values which have already been found in ore was there and though of commercial ably enhanced. A crosscut from the No. 5 bethought themselves of the North Star nels. From the shaft at the 1,000-foot | 66 feet. The ore was carefully tested, and spring. level drifts are being run along the vein from the results obtained the management came to the conclusion to seek for the

Accordingly the Alberta-Iron Colt cross Centre Star .- The finishing touches are cut tunnel was continued, and at a furbeing put to the compressor. There are ther distance of about 400 feet came to Grand Master Thomas Duke were the about 8,000 tons of ore on the Centre Star | the northern side line of the Iron Colt. one of the mines; banquet in the evening, installing officers. The opening session dump which are available for shipment About 100 feet separated this point from the North Star, the intervening ground beto recommence the output. Below, the ing the property of the Evening Belle. the initiation of 12 new members and work is preceeding on its usual lines. The Permission had already been obtained work on the side line of the Iron Mask is from the owners of the property to run the tunnel through, and this was accordlevel the drift to the east and the upraise ingly done. Another 300 feet has brought the tunnel, now over 1,300 in length, under the vein of the North Star. It has not as and H. Plester, A. Mahony, H. H. third and second level there is the inter- yet been cut into, but there will not have to be very much more work done before Later in the evening a resolution was for stoping. This is almost directly under- it is reached, always supposing it to be

in place. Before this a shipment was dispatched to the Trail smelter from the dump on the surface of the North Star obtained from the shaft. This proved to be of satisfactory grade, but to make assurance of the matter a further shipment was made Le Roi.—The Le Roi has been working with similar results. This body of ore should shortly be cut at a depth of 400 week from the Iron Colt itself, which came from the bottom of the winze. The results of this have not as yet beek returned, but from the assays taken they should prove of commercial value.

property and on the Columbia-Kootenay, together with the vast development work lishes that of the northern ledge known ern ledge, that marking the Mascot and horse power as required. may, have already been found in the dissection.-Rossland Miner.

East Kootenay. The Kootenay Queen, on the north fork of Toby creek, is showing up well. level, which is known to the workings of The Silver Tip group is said to be very

the Evening Star as the No. 3 level, but promising. The owners have prepared a wide, and all the batteries are set in line which is really but 194 feet below the out- winter camp and are employing three men. on one long concrete foundation. The Diamond C. group, situated on Spring creek near the Paradise, has a good surknown as Nos. 1 and 2. In the sinking face showing. It is the intention of the owners to work all winter.

The Kootenay Queen is under bond. Three men were employed all summer doing development work, which was proving very satisfactory.

At the Sullivan mine they are still pegging away and shipping 25 tons daily. This output will be increased when the new compressor gets in its work. The owners of the White Cat claim on

The Mineral King has been idle for some trusion. When discovered, drifts were time past. The work consists of a 50-foot run upon it both east and west. The tunnel, which, however, did not strike the ledge had been satisfactorily located, and ore body. The owners are now taking it t will now be prospected between the in hand again, and have put in a camp two levels, and a raise is to be run from a with the intention of working a small force

On the Pretty Girl group this year's War Eagle.-The shaft is nearing the work consisted of a deepening of the shaft eighth level, and should break into what about 40 feet, and in a crosscut from the will be the station at that point in the main tunnel. The showing at the 60-foot sinking this week. On the seventh level level in the shaft averages two feet of clean ore (tetrahedrite) assaying 22.5 per cent. copper, 40 ounces silver and \$3 gold. J. R. McLeod has completed the assessment work on the Baby Mule, Boulder creek, and reports that the ledge has widstreaks of galena and grey copper. It is his intention to start a 200-foot tunnel Iron Colt.-The work on the Iron Colt which will give a depth of 300 feet. He has now gone up Boulder creek again to do some work on the Equitable group, situated on the south side of the creek and near the White Cat.

J. McKinley has a contract to sink 40 feet on the Tilbery and B. C. group from the owners, Messrs. Kimpton and Forester. The group is situated on the north fork of Toby creek, just above the Delphine. Already Mr. McKinley is down 28 feet and has encountered a ledge about 20 inches wide, which has some of the prettiest galena and grey copper ore found in this district. It is the intention of the

owners to sink 200 feet on this shaft. On the Dragon, development work consists of an open cut and some 41 feet of tunnel. This intersected a mineral seam 26 feet from the mouth, and passed through it, the ore dipping beneath the inner part of the tunnel, being seen camp to come to the front was the Iron again near the junction of the tunnel, and Colt, situated on Columbia-Kootenay moun- a winze sunk from it at 40 feet from the mouth. The ore streak on the winze has northeastward. The first working was un- an average width of 17 inches, dipping northerly towards the inner part of the tunnel; in the inner face of the winze the ore streak is 12 inches wide. A sample time, which was in 1896-7, there were two from both contained 8 per cent. copper, things which militated against the success 40 cents gold and \$1.20 silver. It is a good concentrating ore.

An open cut on the west end of the Paradise, 33 feet long, 6 feet wide and 4 feet deep, shows lead carbonate throughthe first was met by taking the machinery the same point, 32 feet long. The tunnel out. A crosscut tunnel has been run from the necessary water could more easily and | wall for 50 feet, and runs entirely in ore for that distance. "The lead carbonates, as greater depth is reached, contain a considerable quantity of solid galena. The lead can be traced at intervals over all the three claims, the country rock being lic. It is claimed that 18 per cent. of the of the Iron Colt. Four hundred feet in slate and lime (dolomite). The group is the crosscut tunnel crosses the side line at present under bond. A winter camp has crosscut was carried in about 567 feet, of the Iron Colt-Alberta, and a further exbeen put in, seven men being employed, tension of the tunnel for 200 feet brought with the intention, if the weather permits,

of working all the winter. The Delphine group, situated on the north fork of Toby creek, looks very prois thought, judging from the outcrop on west into the vein. A winze was also sunk mising. The owners did considerable the top of the hill, which is of no mean upon the ledge which, as is usual with the work themselves, shipping a carload of ore to the Trail smelter, which netted them a in this region of the country, that this land mining belt, dips to the north about handsome profit, and they have another within the 70 degrees in exactly the same way as is carload at Athalmer ready for shipment next 100 feet. It is thought probable that found in an extension of what is presum- when navigation opens. Subsequently, the vein is likely to be of some value, ably the same ledge to the eastward in they bonded the property to a Toronto company, and the development is now being pushed vigorously. Extensive quarters for the central vein of the mine the value of value was not to be mined on any small the 13 men being employed have been the Kootenay mines will be very consider. scale. Undiscouraged, the management erected close to the mine and fully provisioned for a long siege of winter. At the the intention of getting below a fine body Tip Top, the most northerly claim of the are in the bins, which will run over \$100 of ore which has already been located Columbia-Kootenay group. On this had to the ton, and it is estimated that there above in the No. 5 and in the No. 4 tun- been sunk a small shaft to the depth of will be several hundred tons out by the

The Granby Smelter.

The Granby smelter, Grand Forks, was blown in at 10:30 yesterday morning. Two hours later the ore had become thoroughly fused, and matte and slag commenced to pour from the furnace in a molten stream. The plant worked perfectly. At the outset only one furnace will be utilized, but the now being treated are those of the Knob

mines. The smelter will have a daily capacity of 500 tons. The advantages of good water- feet. power are obvious. The north fork of Kettle river will give 2,500 horse power at extreme low water. The smelter will use 15,000 miners' inches, under an actual head of 45 feet, after deducting friction 30 feet of this head, the rest being made gold and silver values. up between the dam and power wheel. The dam is 175 feet across the top, 75 gulch between Curry and Wallace moun long.

feet. Another shipment was made last Granby people becomes apparent upon a On the Washington there are two par little consideration. If steam power were allel leads, about 100 feet apart, and much per horse power per annum. Power has their extent. A vertical working shaft Bonnington falls, on the Kootenay river, crosscut was commenced, but water came The resumption of work upon the Iron for \$75 per horse power per year, but by in too freely to admit of progress being Colt and the favorable returns received generating its own power it will cost but made towards opening up the ledge on this from assays and shipments both on this the repairs, attendance, etc., and the in- level. terest on the investment. The saving, as compared with steam, will be from \$25,000 Wellington camp, where they are sinking on the latter property, has practically to \$75,000 a year, according to the amount a shaft, now down about 25 feet. There is proved the commercial value of the main of power used. At the start 350 horse already a four-foot ledge in sight. Devel-Kootenay vein, and in some degree estab- power will be sufficient for all purposes, but the smelter has a contract with the also shown some good ledges. As the as the North Star or Tip Top. The south city of Grand Forks to supply 250 or 350 properties are between the Golden Crown

Big Three properties, is known in a simi- A spur track, 2½ miles long, runs from The Hard Cash was bonded by John Rog lar way to be of great extent and consid- the main line to the north end of the ers a few weeks ago for \$20,000, to be erable width, although its ore is at pre- smelter works. The power house is withsent under the grade required for com- in 1,000 feet of the smelter buildings, and mercial shipments. This, however, is 100 feet below them. The main power, merely a matter of time, and the solution with which the blowers, sampling works, etc., will be driven is to be created by a covery of the May process, which is a duplicate set of 16-inch turbine wheels, laboratory success and may be found equal- operating under an effective head of 45 ly successful when applied to large quanti- feet. These wheels are connected with ties of ore. Holders of stock in the pro- the flume by a steel in-take pipe 4 feet 7 perties lying on this mountain claim, on inches in diameter. Both are directly conthe strength of these remarkable develop- nected with one Westinghouse rotary arm ments, that they have here as great and alternating current-generator. Another as profitable properties as on Red Moun- wheel is belted to a pump with a daily tain. Whether this be the case or not, it capacity of 750,000 gallons. The pump wil is inevitable that in the future there will furnish water and pressure to granulate be a large output from the mines of this the slag as it runs continuously from the tioned, namely, 16-inch wheels, to supply power house is 100 feet long by 30 feet cent. over 1898.

The smelter proper consists of two

double-decked, steel-jacketed furnaces, 160 by 44 inches. The gases pass off from the top in a 4-inch diameter down-take pipe, which is connected with the big flue dust chamber leading to the stack. The downtakes of the furnaces are connected with the big flue chamber, 10x10 feet on the inside and 500 feet in length. The stack is 11x11 feet inside measurement, and 150 feet high.

The blower room is 50x58 feet, and is 12 feet from the furnace building. It will contain three blowers-one for each flume and ore in reserve. These are connected with the furnace by a 54-inch diameter blast-pipe, all blowers being connected with the one main pipe. Each of these blowers is driven by an 88 horse power variable speed Westinghouse induction motor, which is belted directly to the

The main sampler building is 64x70 feet. and is surorunded on three sides by ore bins. The cre train, as it comes into the smelter, will be carried by an incline to a series of receiving bins, parallel to the front of the sampling works, 23 feet above the floor of the same and 33 feet distant. These receiving bins will have a total capacity of 1,000 tons. The bins are filled directly from the cars, which have a bottom dump. It is intended that the matte shall be shipped after being brought up to ened to four feet, showing throughout 45 or 50 per cent. copper. For the present it will go to some Eastern refinery. This shipping matte, after having been cooled, will be crushed by a 7x10 Blake crusher, which will be placed in one corner of the furnace building on the furnace floor. This crushed matte will be raised by an ordinary cup elevator to a special matte sampler. This matte can be sampled automatically or by hand. The lower part contains four bins, halding about one car of matte, and it will contain the matte after it shall have been sampled.

When the works are enlarged it is proposed to put in a matte-converting plant complete, and to ship converted copper. A roasting plant will also be installed. For the present 50 per cent. of the ore will be roasted in piles. This process, however, does not apply to the ores of the Knob Hill, Old Ironsides and Victoria mines controlled by the Miner-Graves syndicate. The works also contain a carpenter shop machine and blacksmith shop. There is a well-equipped assay office in charge of

W. A. Williams. The work of construction was directed by the superintendent. A. B. W. Hodges the well known metallurgist. The general manager of the Granby Consolidated Mining & Smelting Co. is Jay P. Graves. The assistant general manager is A. C. Flumerfelt, formerly of Victoria.

It is proposed to do custom work, but the ores of the Miner-Graves syndicate will have the preference. It is authoritatively stated that the treatment rate for custom work will not exceed \$5.50 per ton, and the figure in many instances is almost certain to be considerably less. The C. P. R. has built a series of spurs

from the main line, tapping all the camps, with one or two exceptions. Power is now being sought from the provincial government to build a railway 41/2 miles long to the frontier, there to con nect with the proposed railway to Repubvalues of the Republic ores are lost by the cyanide process, and that all these values

ed instead. The Boundary. The shaft in the Greyhound, Deadwood camp, is now down 120 feet and looking

would be saved if the ores could be smelt

berry, three miles from Eholt, the shaft being down 125 feet. Some rich copper ore was recently found at this level. The railway tunnel on the Snowshoe is

now in nearly 300 feet. Pipe for air has been laid to the tunnel and as soon as the new boiler is running, air drills will be used

The raise in the east drift at the 100foot level on the War Eagle is now up about 65 feet, and is showing excellent copper ore. It will be continued about 30 feet further to connect with the small shaft sunk in ore close to the blacksmith

The Washington has been developed by a 100-foot shaft and a crosscut from that level, but owing to water coming in too freely for the present facilities to cope with, work had to be abandoned in the shaft. Average assays run \$40 in all values. On the Bell there is a 100-foot tunnel

other will be started next week. The ores and two prospect shafts of about 15 feet. There are three leads on the claim running Hill, Old Ironsides and City of Paris parallel to each other. One of the leads is opened up by surface crosscuts for about 700 feet, and another for about 500

On the Mountain Bell, owned by Wood, Currie and Robertson, about \$500 has been expended in shaft work and open cuts. There are three parallel leads on the claim, one being 31/2 feet and the other and all losses. The dam will give about two feet each. The ore is galena carrying

The Highland Chief is situated in the feet from heel to toe on bottom, built out tains. A shaft has been sunk 45 feet, and of 12x12 inch sawn timbers, filled in with a crosscut from this depth showed the rock. The flume is 12x6 feet, and a mile ledge to be 30 feet in width, from which an assay of \$1,500 in all values was obtain-The value of the water power to the ed, the highest assay found in the camp. used, the cost would be from \$125 to \$150 surface work has been done to determine been offered the Granby Company from was sunk 103 feet and at that depth a

> Five men are at work on J. & R., in opment on the Hard Cash, adjoining has and Hartford, they are in good company. worked with the J. & R.

King Oscar has agreed to act as arbitrator of the claims for compensation for losses sustained by the British, Germans and Americans in Samoa.

A special cable published in Toronto confirms the dispatch as to Prince George's intention of visiting Canada. He will sail shortly in the royal yacht Victoria and Albert for Halifax, and will spend some time in Canada, and perhaps visit the United States.

The production of iron ore in the United States for the year 1899, according to the furnaces. There is yet another battery in annual report of the United States geothe power house equal to the first men- logical survey, which has just been compiled, amounted to 24,683,173 long tons, extra power should such be required. The an increase of 5,249,997 tons, or 27 per