

CERTIFICATE OF IMPROVEMENTS

Notice.

Take notice that I, F. W. Rolt.

Notice.

C. B 31,110, acting as agent for Ed Ham-lin F. M. C. B 31,056, Fred Lange, F. M.

C. B 31,055, and G. A. Paulson, F. M. C.

41,031, intend, sixty days from the date

hereof, to apply to the mining recorder

for a certificate of improvements, for the

Notice.

purpose of obtaining a crown grant of the

situate in the

West



MINE TIMBERING.

Methods in Vogue Are Far From Bei Economical.

From necessity mine timbering is lar y a matter of "rule of thumb," a follo of tried methods which experier has demonstrated to be safe, says Canadian Mining Review. It is seld spible to calculate the loads which thrown upon timbers below groun ince data are unavailable, but very oft t is feasible to determine the direction the strains, and in such cases much gained by setting the timbers in acco ance therewith. A truly scientific disc ion of the subject can probably not iven. Certainly none has yet appeared rint. The treatment of this question orks on mining is distressingly vag and there is usually a confusing rep sentation of good and bad systems, o d without comment. We do not find the paper on mine timbering Wilbur E. Saunders in the Mineral dustry, Vol. VIII., any exception to ustry, vol. vill, any exception to trule, though it is altogether the best its kind in the English language. It is be hoped that Mr. Saunders will m good this defect in his forthcoming be on the same subject.

The methods of timbering employed most mines is far from being econom The criticisms we would offer may stated under several heads. First, t is a tendency to use too much mater that too many sets, or tulls, Not used, but they are very generally large, and of improper cross-section. example, square columns are about fourth stronger than round ones of same diameter, and yet round tim are far more commonly seen in mi Again, with increased length of tim the area of cross-section is usually creased also, despite the well known that, where the longitudinal strength the timber is availed of, the compreetrength per unit of area remains' Letant for the first 20 to 30 feet, bey which there is a decrease amountin about 40 per cent at 70 feet. The safe on a timber column is taken at 600 por per square inch for heights under 20 nich will apply to all the varietie timber in general use. Cedar (arbory and aspen are the weakest of the mon woods, showing an ultimate stre endwise of 4,400 pounds per square while red pine gives 6,300 pounds, pine 5,400 pounds, black spruce pounds and white spruce 4,500 po Another point which the timberma prone to disregard is that the stre of the stick is proportional to the are cross-section over which the load is tributed. For instance, if a post his area of 12 inches by 12 inches, and bearing on its head is confined to a s of 6 inches by 6 inches, the timber carry no greater load than if its cross-section were only 6 inches the inches. Only 25 per cent of the po realized by such faulty application of material. It is coming to be under that the old method of square-set ti ing for weak stopes, which was intr ed in the Comstock mines by Philip desheimer, and which subsequently into wide use all over the world, longer economical; save in except cases, since the means of providing for filling have been enoromusly ened. Even where rock must be qu on the surface for this purpose, and ed below by rock mills, its cost i stope will raely exceed 35 to 40 cent cubic yard. Where the cost per set of volume, using timbers, will re to \$6 or more, the same space can be with rock at a cost of less than \$3. An error of great importance is t freshly cut timbers. Not only is strength from 25 to 50 per cent less seasoned timbers, but their life in ground situations is apt to be as as 50 to 75 per cent shorter. The subject to rapid decay, and are per



WINNIPEP REORGANIZED.

2

Additional Plant Purchased-The Development Work, Etc.

At the meeting of the Winnipeg Mining & Smelting company, held at the mine on development has been done, the . eepest Saturday last, the resolution passed at workings being 300 feet below the surface the meeting held on Nov. 16 was ratified According to the last report maic la and confirmed. This resolution provides Frank Robbins, M.E., at the time when that the company shall be reorganized he was in charge of the development i the mines, the average of a ninger of and that the stock shall be assessable to the extent of 5 cents per share. One cent of this shall be levied on the first call. assays of the ore gave \$11.70 a ton allowing 13 cents a pound for the corper cc:. essment will be called in as soon tents, which run from 3.5 to 4 oer ceut as the new company, called the Winnipeg The Brooklyn and Idaho are up.1 the Mines, Limited, has completed' its incorsame lode, and the Stemwinder porat arch upon another, while the Raw 1 le

The necessary papers have been forupon a third. On the surface the Rough warded to Victoria, and the return is lyn Hode has been crosscut, showing a width of fully 100 feet. On the linus the about due. 'The intention of the company is to push the work on the Winnipeg from same vein measures 150 feet in width. The Stemwinder has a mineralized capping that can be traced for a width of 250 teet. now on vigorously. A 30-horse power boiler, a 16-horse power horst, and a 100gallon a minute pump have been purbut there are several faults and all hachased at a cost of \$2,000, and will be tions. The two big lodes are para at and nmediately installed. This in addition the side lines of the group are not ever 200 feet apart. The Rawhide is almost a immediately installed. This in addition Winnipeg for some time to come mile distant from the ot crs and has a

The intention is to develop the rich find on the 300-foot level on the second vein in the north drift, and a shoot in the east drift. This drift is 210 feet in length, and for 140 feet of this distance is in shipping ore. This body will be sunk on. The intention, too, is to develop some surface finus which have re-cently been made.

HIGH-GRADE ORE.

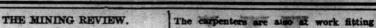
Some That Is Very Rich Extracted From the Slocan Star

Mr. Oscar White, manager of the Slocan 150-foot level a crosscut has been driven 100 feet, with drifting from this crosscut Star, has been in the city for several days, and early in the week he purchased totaling 375 feet. On the next level down from the Jenckes Machine company a 250 feet there is a crosscut totaling 375 150-gallon a minute pump. The water was coming into the workings of the Slocan of drifting. The drifts are largely in pay Star at a rapid rate and the pump was ore. needed there just as soon as it could be Though it weighed 1.2:0 on the Stemwinder besides the main in-ordered it sent by express so cline shaft, down 290 feet. At a depth of forwarded. pounds, he ordered it sent by express so that it would reach the mine at the earli- 115 feet a crosscut was driven a little over est possible moment. It cost quite a sum 100 feet, with 80 feet of drifts. prepay the express charges, but this a 400-foot tunnel driven towards the cut but little figure, as the company could better afford to pay the express charges ledge, but work was suspended before it than to have the workings fill up. Mr. reached its objective. Another 75 to White reports that the Slocan Star mine feet will be required to encounter looked better than at present. A vein. shaft is being sunk. In sinking 11 feet On the Idaho a shaft has been started of this shaft 14 carloads of ore was taken and is down 40 feet. The other claims out that netted \$1,600 to the ton. Dur- have but little prospecting work done on ing the past few days in going eight feet them. the shaft five cars of ore which is E. R. Wood, of Toronto, secretary of the as rich as any hitherto extracted, was Dominion Copper Company, J. E. Boss, sent to the smelter. The returns from who managed the mines at the time they latter carloads have not yet been received. were under bonds to McKenzie & Mann, Mr. Byron White is the chief owner of and W. T. Smith, a heavy shareholder, the Slocan Star. have visited the properties. Mr. Wood has returned to Toronto and Mr. Boss to

SPITZEE IS LOOKING WELL.

Shaft Is Down 40 Feet-All the Ore Is of Shipping Grade.

Mr. Alexander Sharp, consulting engan- will be absolutely necessary to supp! men eer for the Spitzee, examined that prop- that already at the mines, will be given crty yesterday, and reports that the shatt on their arrival. At the time of the close has a depth of 40 feet. The vem in the ing down the mines employed in the bottom of the shaft is engitt teet n neighborhood of 50 men. - Midway Adwidth, and carries ore of a shipping grade. vance. The full width of the vein as not yet known, and the values on the



house on the upper level for the the miners coming off shift. Be-work is proceeding . While there is little of moment this week in the purety development part of the work in the camp, during the past week in the completion of the scheme of railway week the completion of the scheme of noment or any new departure to reshipping on an increased basis, together cord.

with the railway facilities involved as de-Kootenay Mines-The shaft is now down veloping some interesting features. It is 420 feet from the level of No. 6 tunnel inderstood that the chief want of the understood that the chief want of the camp is the smelter end. The proposed outcrop on th esurface. There was a litse in the smelter facilities is a tle trouble with the engines on restart uestion that is for the time being in a

ing work which has been successfully otic state. The only advance recently overcome. The crosscut to the north is nade is an application heard before Judge also in hand. This is from the No. 6 tun Walkem that the city should not be made nel at a point about 1.200 feet from the

party to, a suit over a recent grant portal. In other parts of this mine there The holdings of the Dominion Coppe party to a suit over a recent grant of water rights given in Nelson to the British Columbia Southern rail-road. This was discussed and the case will now come up for hearing with company consist of the Brooklyn, Sten-winder, Idaho, Montezuma, Staudard and Rawhide, situated in the heart of l'hoenix camp, on the north side of the gulch that traverses the incorporated limits of the city the city of Phoenix. A large an unt of by the the city as a party in the suit institutd ting, sinking and raising.

by the mining companies concerned against the validity of this grant some War Eagle.-The general manager, Mr. Kirby, who is daily expected, has not time next week. In the interim the Le as yet arrived. Nothing has been done Roi reduction works are completing the with the head works of the gravity tramadditional facilities which are to be proway. A small ore shipment was made dur vided not alone for the treatment of ing the past week, which was encountered larger quantities of ore, but for the more in the progress of developmnt on the perfect refinement of the matte.

lower levels. The work going on in the Some discussion has recently arisen in mine is the prosecution of the shaft tow-Great Britain regarding the reason why ards the ninth level, which will be made the Le Roi mine was shipping less ore the Le Roi mine was shipping less ore to the reduction works at Northport than bottom of the sinking, which is now now the capacity of the smelter there could en about 1.195 feet from the surface. Also The balance has been taken from tertain. there is some development work in prog-ress on the seventh and eighth levels. the Le Roi No. 2. This is purely a mat.

ter of flux. It may be said that for the Velvet-Work continues along the usual procural of proper fluxes the North-port smelter is going as far as Colorado. nes. The shaft is being straightened and drifting along the ledge on the lower With regard to the shipments from the Le Roi No. 2 those for the last week in levels continues. The roat has become so soft under the influence of the secent November showed gold values at \$15.95, thaw that Mr. Fred A. Lindburg has silver at \$2.16 and copper, 4 per cent., at taken off his teams which were hading \$12.05. As the percentage of copper in supplies to the mine entil such time as the Le Roi has lately not shown more than about 11-4 to 11-2 per cent., and there is more snow and the frost has hardened it. Just as soon as this condithe gold values have been about half an ounce or rather less, it will at once be tion of affairs prevails the intention is to seen that the fluxing of the No. 2 ores begin the hauling of ore to the railway.

Mon

ably

the

vein 80 feet wide. Mr. Roman in his in his report said of these imm as showings

Never have I seen greater sitte -to w

ings than those of Phoenix, and none of

these-I make no exception-is better than any of the three lodes I have described.

It is further my opinion that with more

development, pay shoots and deposits of great profit will be uncovered in all of

The development work in brief is as

follows: On the Brooklyn a double com-

partment shaft was sunk to a depth of 275

feet, and is all in ore except for a 25-foot

orse 60 teet from the surface. At the

There are a number of prospecting shafts

The Rawhide development consists

Rossland. When Mr. James Breen and

will be laid out for the resumption of de-

velopment work. It is more than likely

that orders for additional machinery which

J. L. Parker, of Rossland, arrive, plans

will at once give better copper percentage ontinues. Evening Star .- The winze last evening in the matte to be shipped, and also give a heavier percentage of gold. Thus it will be seen that while the additional, in ad reached a depth of 296 feet. It has been decided by the managefent to start the sense of separate, smelting accommocrosscut early during the present week

daion is being shelved, pending the outnd to develop the ore bodies cut by the come of the litigation now before the winze. There is a fine showing of ore in the bottom of the winze. The ore has courts, the Northport smelter is improving along the lines indicated as far as the been continuous from the top to th tom of the winze, except where a dike in circumstances will admit. The additional railway facilities are taktervened. The ore is of a pay grade,

ing the form of more yard accommodation and the management is fully satisf ed that west of the baseball grounds and immethe Evening Star will make a mine. diately adjoining it. A fill will be made Le Roi No. 2 .- The sinking of a shaft at this point from the waste dumps on

250 feet there is a crosscut totaling 375 at this point from the waste dumps of the dust of the bost has not as you are being put in which the No. 2. It was for this purpose that is about the last preparatory work to be their stored ore. The railway will prob- accomplished. The other development begin work this week. The main work of the mine is going on under the will be the southernmost, thus lines already laid down, and there will dition. track will be the southernmost, straightening out the bend in the line be little alteration in this until such time

just beyond the Black Bear. Three yard as the increase of smelter accommodation tracks will be laid inside this, and bewill admit of work on a larger scale. tween the outermost track and the ter-Rossland Great Western-The shaft is minus of the No. 2 gravity tramway. This now down some 645 feet and is still be will give greater loading facilities to the Le Roi and to its subsidiary mine. The ing continued daily. The raise on the tifth level on the body of ore near the C.P.R., it is understood, are in conjuncshaft is still in progress as are also the tion with the Great Northern in this imother development works noted last week.

provement, and the present track being On the surface the new compressor buildgraded along the side of the Le Roi hill ing is much as it was last week. The will come into this yard toward its westpiers for the foundation are about framed ern end. It is expected that this new yar and several carloads of cement were de livered last night for use upon this work. Homestake .- The force of men driving the tunnel from the Gopher ground in under the Homestake shaft is a under the Homestake shaft is at work. About 35 feet additional driving

however, be a matter of ten or eleven weeks at this rate of progress before the point under the shaft aimed at will be gained.

Hope claim, which was recently purchased

Douglas-Hunter-'I'be work on the lower

tunnel continues. Recently a crosscut was made from the end of the lower

tunnel and the ledge was found to be 23

feet wide. Of this nine feet was solid

copper-gold silver ore, and 14 feet of con-

Northrn Belle,-The crosscut tunnel i

in for a distance of 270 feet. The face

by the Rossland Bonanza company.

centrating ore of the same kind.

tion and perhaps to the westward beyon Centre Star.-The completion of shops on the surface is still in hand. The

the confines of the White Bear. The Output. ig reserve ore pile is about half shipped The output for the past week include but will not be cleared up at the presix shippers, and the aggregate total, 6,634 rate much before the end of January. The The tons, is well up to the average. shaft is still being sunk. Development shipping from the Le Roi No. 2 is in exwork is in progress at the three lower cess of the usual amount. This resulted levels, the stoping still being done upon from a clearance made of the bins upon the se

emounted to a couple of carloads a day. Then it was that the bulk of the freight came in by way of the Red Mountain from Spokane. The business of the Red Mountain railway has with each year, but that of the Canadian Cruiser, mineral claim, situate Trail Oreck Mining Division of Pacific has shown a still greater increa Cooteney district. Where located: About

ALL READY TO SHIP. four miles couthwest of Rossland, to the west of Little Sheep creek, south of London Con. and Richelieu Have Comple

ted Their Arrangements

miner's certificate No. B 41071, acting as Mr. A. C. Galt, barrister, returned yes agent for the owners, viz., J. W. Thorn terday from a visit to the mines of the London Consolidated and Richelieu minton, F. M. C., B 45075; D. F. Johnston F. M. C., B 41073, and M. A. Graves ing companies. He reports that the pro-F. M. C., B 31187, intend sixty days perties of these companies are very well from the date hereof, to apply to the mining recorder for a certificate of improve ents, for the purpose of obtaining crown grant of the above claim. And further take notice that action

enough snow for good sleighing and there under section 37, must be comme fore no ore has yet been shipped. The ore the issuance of such certificate of ore is rawhided down the mountain, a improvements distance of two miles and from them Dated this fourteenth day of Novem.

will be hauled in sleghs to Crawford Bay. er, A. D. 1900 a distance of nine miles. There is plenty F. W. ROLT of ore ready for shipment. A

40x25 feet, has just been completed at Crawford Bay, from which the 'ore will CERTIFICATE OF IMPROVEMENTS. be shipped.

Crown Silver Ledge Found

Caroline mineral claim, situate in the News reached here yesterday from Grand Forks mining division of Yale wood to the effect that the ledge had been found in the Crown-Silver. The listrict

Where located: Near the head of tind was made in the shaft which reached a depth of about 200 feet. McCrae creek in the Christina Lake sec The Urown Silver is close to the Mothe tion. Lode in the Deadwood camp and is sup Take notice that I, K. L. Burnet, F. M.

posed to have the same lead. The Northport Smelter.

The reduction works at Northport are now well nigh complete, there being onsome machinery to wait for and a which should be at hand very short-

ly. Mr. D. Fotheringham, the chief acabove claim. And further take notice that action ntant, has left on a well-carned vaunder section 37, must be commenced becation, his place being temporarily filled fore the issuance of such certificate of im by Assistant Manager Thompson, of the British America Corporation. provements.

Dated this 1st day of November, 1900. THE LARDEAU. 11-8-10t K. L. BURNET. Working Under Difficulties-Snow under

CERTIFICATE OF IMPROVEMENT. On the Black Bear and on Wide West.

One of the late employees of the Black Bear mine arrived lately from Fish creek reports that three successive snowslides

"Golden Terra" Fraction mineral on the mountain to the north of Comaclaim, situate in the Tran Creek mining plux on Bear creek has caused the man division of West Kootenay district. agement to shut down the mine for the Where locates: Un Iran Greek, about time being, at all events until such time wo mles eat of Rossand, between the as the snow is in a less dangerous con-"Palo Alto" and the 'Jo Jo" mineral

On the mine above on the same creek laims. Take notice, that I, Wm. B. lowns West-a end, F. M. C. No. B 30938 agent for ! men are still working, W. Doud, F. M. C. No. B 41234, in-This avaend o, days at er date to apply to M ning Recorder for a certificate of m provements for the purpose of obtaining "Crown grant" of the above clasm. And further take notice, that action under section 37 must be commenced be-

D., 1900, at Rossland, B. C. WM. B. TOWNSEND

IN 10 MINUTES

one application. Cures quickly and permanently. "I have used Dr. Agnew's Catarrhal Powder with best results. It

twenty feet of packed snow at the portal of the tunnel. Mr. S. Thornton Langley has returned from a visit to the Similkameen country. Mr. Percy Godenrath, press correspon

Or it will develop into Chronic Catarrh Dr. Agnew's Catarrhal Powder stops cold in the head in 10 minutes, and relieves most acute and deep seated Catarrh after

work. About 35 feet additional driving was completed the past week. It will, STOP THAT

a gre

Notice. HEAD COLD Velvet Fraction No. 1 mineral claim, situate in the Trail Oreck mining diviion of West Kootneay district. Where located: On the west slope of

ophie mountain Take notice that I, Kenneth L. Burnet (agent for the Velvet (Rossland) Mine, Limited, F. M. C. No. B 45,340), free miner's certificate No. B 31,110, intend, sixty days from the date hereof, to

mprovements.

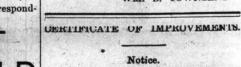
Notice.

and situated still further up the mountain side-the Wide torce of despite a recent snowslide. lanche, coming down the side hill, came in such a direction as to block the mouth of the adit in which the shift was work-

ing. Before the buried miners could extricate themselves they had to dig through

fore the issuance of such certificate of mprovement.

Dated this 27th day of September. A.



hanging wall are just as good as anywhere, in fact all of the vein that is being gone through is being sent to the smelter. One car has been sent to the smelter this week, and another will be shipped today. Mr. Sharp left last night for the First Thought mine, near Bossburg, or which he is the manager for P. Burns and others, who are operating it.

Intend to Let a Contract.

he fact that the ledges in the White Bear have been located by the diamond drill has encouraged the management of the Big Four to renewed efforts. A contract is to be let for 200 feet of work. The property of the Big Four consists of 52 acres located to the west of the White Bear, the San Francisco and the Mariposa mineral claims intervening. It s claimed that the main ledge, located in the White Bear, runs through the San Francisco and the Mariposa and the Big Four.

DOMINION COPPER CO.

A Fourth Smelter to Be Built in the Boundary Country.

Last week mention was made of the

fac. that work was likely to be resumed on the Dominion Copper company's prop erties in Phoenix camp at an early date. Information recently received confirms the report, and a fourth smelter is now to built in the Boundary country. The exact location for the new smelter is as yet not decided upon, but it is most likely ment work on claims owned by Mr. E. that Midway will be the point, for already Baillie and Judge William Newton. Mr. it is the intention of the company to Finnell reports that an important shoot

head office in Toronto. It is capitalizes ated by the Douglas-Hunter Mining comin the sum of \$5,000,000, in 5,000,000 shares pany. The mine has been developed by of the par value of \$1 a share. Of this number at the time of the incorporation of the concern two million were set aside shoot of gold copper ore, carrying considfor the development of the mines, and one erable gold and silver, was encountered. million shares for the construction of a in the middle tunnel this gold copper melter. Of the treasury shares it 's understod that only 100,000 have been 1'-rosed which is now in for a distance of 560 feet, of, and these were sold at 60 certs per share. Of the two million shares or open driven for a distance of 510 feet. For the stock, which is held in the han's of a past fifty feet the drift has been in the few, the directors and heaviest riders rich ore shoot. At the breast of the drift have agreed to pool the same until July 1. a crosscut was made and the ledge was The principal owners are Senator found to be 23 feet, and of this nine 1901. George A. Cox of Toronto, Hugt .utherland of Winnipeg, Messrs. McKenzie & Mann of Toronto, Mayor George Rumber ger of Phoenix, E. J. Roberts of Nokane, and W. T. Smith of Greenwood. When resumed, some time dur re this work is month, James Breen will be in 'u" charge and J. L. Parker, a well known mining engineer of Rossland, is to be made mine mintendent.

The Lardeau Country. Mr. A. B. Clabon has just returned from the Lardeau country, whither he went last week. He reports that there is con-

siderable activity and that deals are be ing frequently reported. The Nettie L. the Tribune and one or two others are shipping. A good deal of development work is in progress and much of this is in anticipation of the railway which is to be built in there next week. The C. P.

R. railway survey party which has been surveying in that district has retained to Trail. The outlook in that section for the coming season is very good indeed.

Le Roi Headworks.

Great progress is being made with t Le Roi headworks. The main part of machinery are already in position, and smaller portions alone remain for asset bly. The foundations for one of the ha dozen electric motors which are to be us for the minor machinery in connect with the crushers, sorting belts, sampli mill, etc., is now ready, and the othe

will be proceeded with immediately.

IMPORTANT FIND.

A Fifty-Foot Shoot Encountered in the Douglas.

Mr. Ben W. Finnell has just returned from an extended trip to Sophie mountain, where he has been doing the assess width treat silicious ores of Republic camp, mix-of ore was recently uncovered in the drift ing and crosscutting was done during the month of November. This was done in the drift ing and crosscutting was done during the three tunnels. In the upper tunnel a shoot was not met. In the lower tur was clean solid ore of a shipping grade, while the remaining 14 feet consists concentrating ore of a good grade. Mr. Finnell says the management is greatly pleased with the find, and say that it is the most important that has ben made in the mine.

Mr. A. F. Bulmer left yesterday for Stainer. Ont.

the gravity tramway belonging to this Big Four-A contract has been let for min in order that it might be used for

60 feet in the lower tunnel and arrangethe carriage of waste. The Le Roi 18 below ents are under way to let another conits usual mark, which could only be extract for 150 feet more of work. The manpected, seeing that so large a shipmen ent intends, if arrangements can be made went from the No. 2. The War Eagle or power, to use the diamond drill in has shipped a little more ore ,but this order to prospect the property for a dis is only on the lines of the few shipments tance of 400 feet. made during the past few weeks, ore be-

Rossland Bonanza-Work on the drift ing encountered on the newer developmen tunnel is making good progress and is now in for a distance of 80 feet. Mr. Appended is a list of the shipments for F. A. Wilkin left the city during the

the past wek and the year to date: past week for the purpose of going to -Tons-St. Thomas mountain to survey the Our Wook

	IT CCA.	T car.
Le Roi	3,690	154,488
Centre Star	2,152	36,070
War Eage	160	10,922
Le Roi No. 2	520	2891
lron Mask	90	2488
1.X.L		552
Giant	22	541
Evening Star		351
Monte Christo		273
Spitzee		89
Iron Colt		80
	1	

will have been completed about

time as the new machinery is the Northport smelter, and

of, the work on the headworks Le Roi, which is itself an inter of the scheme of shipping econom The finding of the ledge on th

important event, as it shows that

Black Bear ledge extends into a new

Bear by means of diamo

on the headwor

is still in the ledge which is being cross cut. The ore consists of a fine grained Total 6,634 208,745 Giant .- The road leading from the Giant pyrrhotite in a quartz gangue. The to the railway is soft, and hence only ent contract is for 225 feet, of which 55 feet has been completed. one carload was sent during the past week.

Stoping continues from the open cut. The Iron Mask .- The mine is shipping in ore is showing a good increase in value small quantities steadily. The principal work in the mine at the present is the connection between the ore bodies in the and the smelter returns are larger than those obtained nearer the surface. The last returns received from Trail for east and west of the mine. carload netted over \$17 to the ton, after

Spitzee-Work continues on the shaft paying the freight and treatment charges. and the showing of ore is growing strong-New St. Elmo .- The north drift is

60 feet, and the ledge is about five feet in The south drift is in for a dis one shift and with one machine ,and

the record for that mine if not for the camp. Had three shifts been working, as there are two working faces and therefor no time would have been lost through waiting for the powder smoke to away or for muckers, the distance run would have been 256 feet. In each working face there is a machive, bars, full set of wrenches, bars, and a full set of tools, but only one machine is run at a tim The cost per foot, including, air, super ntendence and everything is about \$14. The air power is costly for the reaso

that only one machine is run with it. Le Roi-The energies of the management are almost wholly concentrated upon the completion of the headworks. Dursorting belts are now complete and the Rossland and the Boundary

these is now in hand. The machinery of the sampling mill has still to be finished. over the Canadian Pacific railway only

ommending it."-John E. Dell, Paulding, O. 9. Sold By Goodeve Bros. claim. NOTICE

> Rossland, B.C., Nov. 9, 1930. To F. B. Salisbury: Notice is hereby given that I, Wm. Grit fiths, intend to claim the one-fourth (1-4) interest in the "Olive" mineral claim sit CERTIFICATE OF IMPROVEMENTS. uated on the west side of Sullivan ereck,

in the Trat Creek mining district, for merly held by F. B. Salisbury, on which I have done a'l the assessment work for the past three years, and for which the said F. B. Salisbury has not paid his

Bluebell mineral claim, situate in the Trail Creek mining division of West share of the expense. This also apple to a certain bill of sale of said interest Lootenay district. appl es Where located: On the west slope of given to other parties. The action in Sophie mountain.

taken under Section 4, of Chap. 45, of the "Take notice, that I, Kenneth L. Bur-Statutes of 1899 and amendments of 1900 net (agent for the New Goldfields of British Columbia, Limited, F. M. C. No. Wm. B. Towns nd. Agent for Wm. Griffiths.

B49,174), 'free miners' certificate No. B 31,110, intend sixty days from the date hereof, to apply to the mining recorder for a certificate of improvements, tor the

NOTICE

purpose of obtaining a crown grant of the above claim. Notice is hereby given that applicati And further take notice that action will be made to the Legislature of the Province of British Columbia at its next under section 37, must be commenced be-fore the issuance of such certificate of ion for an act declaring that und mprovements. and by virtue of three certain grants of Dated this twenty-fourth day of

water rights dated the 23rd day of Decem-ber, 1897, signed by W. J. Goepel, acting gold commissioner, in favor of F. Aug. Heinze; and another grant of water rights Jetober, A.D., 1900. KENNETH L. BURNET. 10-25-11t CERTIFICATE OF IMPROVEMENT.

dated the 30th day of March, 1893, signed by O. G. Demais, gold commissioner, in favor of the British Columbia Smelting & Refining company, all of which were sale sequently assigned by the said F. Aug.

Notice. Violet, Grey Eagle, Good Hope and North Star mineral claims, situate in the Heinze and the said British Columbia Smelting & Refining company to Messra Richard B. Angus and Thomas G. Shan-Trail Creek Mining Division of West

Kootenay district. Where located: On the northeast slope of Columbia mountain.

Take notice that I, F. A. Wilkin, acting as agent for the British Columbia (Rossland & Slocan) Syndicate, Limited, exercise and enjoy all and singular the rights, powers and privileges which the free miner's certificate No. B 41,161, insaid British Columbia Southern Railway tend, 60 days from the date hereof, to company would be entitl d to if the said apply to the mining recorder for a certi-British Columbia Southern Bailway comcate of improvements, for the purpose pany had been incorporated as a Power of obtaining a crown grant of the above company under part 4 of the Water Claus claim. es Consolidation Act, 1897, and had ob-

And further take notice that action tained under the said part 4 of the said inder section 37, must be commenced before the issuance of such certificate of improvements.

November, 1900. Dated this 18th day of October, A.D., DAVIS, MARSHALL & MACNEILL.

Dated at Vancouver this 3rd day

Solicitors for the Applicants 10-18-10t F. A. WILKIN.

licate of improvements, for the purpo susceptible to fungus growth. It is noteworthy that the longevity of t of obtaining a grown grant of the above is increased by maintenance of And further take notice that action, conditions of dryness or moisture. T under section 37, must be commenced be-fore the issuance of such certificate of Dated this twenty-fourth day of October, A.D., 1900. 10-25-11t KENNETH L. BURNET.

an ideal difficult to attain in a min in drifts and tunnels it is clearly sirable to set posts so that they wi sorb moisture from the floor, while may be dry above. This is deliberate viting speedy decay, and it is wholl necessary, for in such situations the can be remedied by setting the por foot plates with a ballast of broken beneath. Though it may add someth the first cost of setting the timbe will so greatly enhance is lasting p as to prove highly economical. It i practice in any cae to adopt this in all permanent gangways that r imbering, since it ensures a bearing the full area of the foot of the pos protects the ends of the fibres from ing, which weakens them and haste

lapse of the set. In placing the stulls which are to a load of broken ore or waste ro always desirable to determine the tion of the thrust which the wal may exert, and to set the timber this line will make a small angle w axis on the upper side. This the timber to have a tendency to upward against its load of super bent rock. A tendency to buckling counteracted, and greater stability cured. It would of course be be make the line of thrust coincide w axis of the timber, but as this lin not be determined with absolute ac the plan suggested is more feasible Attention to such details as we l dicated will lead to far more econ mining, and render the mines sa subject to less interruption of work by renewals of timbers. Th few points in mine management quire reform more than this one bering.

Stole a Baby's Robe.

A lady went into Goodeve's dru last evening at 5:30 o'clock, leav baby buggy outside. She took the with her into the drug store. W returned to the sidewalk she fou someone had stolen the baby's ro the carriage. This is about as theft as has ever occurred in this

Will Manage the Treadwell

Mr. Joseph Macdonald, for a lo manager for the Helena and Fr the Coeur d'Alene section, has b pointed general manager of the Tr mines in Alaska, and is now on to his new post of duty. Mr. M is a brother om Mr. Bernard M manager for the properties of th America corporation.

LARGE OUTPUT OF ORE. Kootenay and Yale Produced 57.500 Tons

in November. Canadian Pacific officials report that

ghnessy, and by them assigned to the British Columbia Southern Reilway company; the said British Columbia Southern which was sent to Northport. About Railway company is entitled to have, hold, 17.000 tons were sent to Northport, which

would bring the total up to 57,500 ton for November, which is the largest output for a month that the Knotenavs has ever produced. The incoming ton nage handled by the C. P. R. is very large. For the first ten days of Decem ending yesterday, 45 carloads of freight

per day has been handled between Kusing the past week the direct hoist has kanook and Nelson, making a total of 450 been assembled as far as the heavier por- carloads for this part of the month. This act records of mid water. tions of the machinery are concerned. The freight is distributed to Nelson, Slocan,

installation of the motors which will work There was a time, a few years ago, when

ever in the history of the Kootenays has the freight business been so good as at present. In the month of No 40.500 tons of ore were handled in the Kootenays and Yale, outside of that