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 And MIining Tit-Fits.VoI. I.——VANCOUVER, B. C., DECEMBER, I899-No. I2.

RFVIEW OF a 899 .
$\mathrm{D}_{\text {uring }}$
Several branche year a new impetus has been given to
nhind mining. Inches of mining, more particularly in Copper $0_{\text {wing }}$ to $_{\text {In }}$ I 898 copper rose considerably in value, Plurposes. the immense increase in demand for electrical tica ses. Early in this year the great mines of Ame-
rise inalgamated, with, as a consequence, an immense
prices; Lake coppers going up to io cents per
some demand for properties in B. C., but as there has been no market heretofore the prospector has passed it by as useless. The same applies to antimony, which is very largely used in the manufacture of type, and as a means of hardening other metals. Some excellent properties have been located lately in the Yale district, containing extensive veins averaging over 40 per cent. of t!nis mineral. Japan has hitherto been meeting

${ }^{\circ}$ Whadiderab throughout the year the demand has been to $\mathrm{king}_{\mathrm{in}}$ of in excess of the output. Owing to the to $17 \mathrm{l} / 2$ of the combine there was a decrease in October ween thats and from then till now has fluctuated beof this that figure and 8.50 cents. The natural result pening nense demand and rise in valne has been the bitish Colp of whole new districts, more specially in ${ }^{1}$ und Columbia: in the Smilkameen, East Kootenay, Lardeary Camp, Rossland and Revelstoke I ivision and all be ascert as far as indications go, and from what hexhe ascertained from work done, the supply is almost Molstible.
inereasindentinn has come largely into use and is
tered ing in value, as the mineral is rarely encounany considerable bodies. There has been
the demand in this line. There is only one company handling the reductions of the ore; this is operating at San Francisco and New York.

Within the year, ores, containing what has hitherto been a deleterious quality of zinc, are being bought up for treatment at Manchester, England, by a company that has brought out a process by which the zinc is saved. As the demand is at present, and likely to be, far above the supply, mining for zinc itself is likely soon to become extensive in the Province, and as there are few of our ores which do not contain it in considerable quantities, it may be expected that reduction plants will be erected in the Province.

Discoveries of other minerals, of more or less value, Discoveries of other minerals, of in the Soda Lakes,
have been reported : as instanced in
near Asheroft, tests of the deposit proving it to bo equal to the best manufactured washing powders The area of this deposit is very considerable.

Gypstum has also been discovered in several places Butge bodies, and alum in the Fast Kootenay and on Bute Inlet on the Coast.

Althongh the ore shipments siderably during the year, owinave fallen off conlockont in the Slocan, owing principally to the progressed with enormons seneral develomment has opened on every side and strides. New camps have out in all directions, the with railroads branching of great prosperty. the coming year should be one events of the year Amongst the most notewortly alien labour and work heen the legislation on have had a beneficial eight hour law bialal effect on the country, and the capital which dias raised dissent between labour and entertained that an arrexist formerly. Great hopes are and the working of the slome will shortly be arrived at, The immense developments in Camps be resumed. generally, in the Bound in the Greenwood, and special note. A year ago the Camps are worthy of unk nown; to day, hundreds of district was practically considerable output and only awaitingerties are making a smelter being built in the locality to shi completion of of prominent mines lave changed to ship. A number agement, and many improvements hands and manon them. The use of electricity in connection made mining operations has made great connection with ises still greater ones during the strides and prommany charters are being granted for coming year, as operate in different districts.

## MINERAI, BEI,TS OF BRITISH COI,UMBIA.

by c. r. Graves, m.f., f.i.m.
The Quartz mining regions of the interior of British ment hia, in which any great extent of development has been done, are the East and West Kootenays The minerals in these portion of the Yale IDistrict. distinct belts, that rose districts are contained in three of the Eastern Bound Rossland, 'Irail and a portion ed in an eruptive points toward the west of dioritic rocks. From these ward on the Rossland ward, passing outwards, northside, the valuable mind side and westward on the Yale of crystaline metamorph belts are contained in a series miles in thickness, (mostly talcose aud consisting of layers of schists slates and silecious sh graphitic), limes, carbonaceous lime of great thickness ints overlaid again with a belt of and dioritic and porphorterlaid with belts of quartzites dykes of the same nature the intrusive rock and some passes through the Slocan and bending therly direction runs on through the I and bending to the westward trending more to the Lardean district and on, always stoke division, and on ward, through the RevelKamloops division of the Yale District Lake in the comes almost lost being broke District, where it betrusions of trap, which form a miny a series of inThe same series of crystaline mineral belt apart. ayain on the south side of the district encountered the Okanagan district and of the district and ocenr in ed as passing westward from the with those mentionand Trail Creek districts. It the border of the Yale that they form a circle, irregular in outline from this broken through at two nearlyar in outline, which is very extensive intrusions; $i$. $\varepsilon$, pposite points by two intrusions; i. $\epsilon$., that at Rossland and

Kambops, the centre of this irregular circle is con ed of intrusive granitoid and syanic rocks, these ${ }^{\text {a }} \mathrm{t}^{\left(0^{\circ}\right)}$ have in places, such as in the shocan and at Reve ts dt broken through the crystaline rocks but have not placed them for any very extensive areas. The th of this circle will be at a point not far west fro ${ }^{11}$ head of the Upper Arrow Lake. The dip of the ${ }^{\text {th }}$ taline rocks is, generally speaking, away fro centre of the circle, and the reason for this can be simply demonstrated by closing ones fist and pas the kinuckles through a sheet of news paper allog the paper to hang down, the knuckle representill intrusion of the granites and the paper the crys it formation. The East Kootenay mineral belt lies th same formations but, is mostly due to more the cent disturbances, which show themselves ${ }^{11}$ manmer of porphyritic and felsic dykes, of great ex fin A series of these run at almost straight lines, sig , in diverging in a sonth-asterly direction, and for ${ }^{10}$ b the ranges of mountains lying between the Coln $\mathrm{l}^{\text {li }}$ 他 and Kootenay Rivers, and West Kootenay div th line, the most northerly of them, cutting over into prit Rockies for some distance beyond the Winde ${ }^{\text {ple }}$ le Lakes, these dykes occur mostly through Fort ste ith Golden and Donald divison. The formations. be pin much folded and tilted by the intrusions and carred by dykes with great alterations in their structure consequent fissuring. It has been found also that in ${ }^{\text {tit }}$ th Rocky Mountains, running nearly throngl the ce of the range, there is another series of similar dy ${ }^{\text {te }}$ about the same age and apparently creating and mineral belt, but there has not been sufficient exp ation as yet to fully determine this. The other minile belts throughout 13 . C. are consequent on distinct al ${ }^{\text {a }}$ separate volcanic waves which apparently occured the same period but only in places found their through the earth's crust. This description and $^{\text {ar }}$ clearly demonstrate that the ores of the country , itite their origin from the mineral charged gases emathat $\mathrm{fl}^{2}$ from the interior below the earth's crust, filling ${ }^{\text {fis }}$ by intrusionsequent on the cooling of the rocks ces.itt primarily and essentially of a coupe, they are of nec

## HISTORY OF MININO IN B. C.

The discovery of the mineral resources of $\mathrm{Br}^{\mathrm{rit}^{\text {j }}}$ Columbia has been known for many years-nnor than what is generally supposed and dates back the the early occupation of Cinada by the Briti.s. I older french ocen of Canada by the Britishl. west, crossing ocipants, heing pushed ont, inngran ing and trapping the Rockies, in search of new of gold for ormame fields; they reported the $\operatorname{csin}^{2}$, wh they had come intation by the Indians, with water. the missionaries of the Roman chartering furs. wir a saries discovered the Roman Chtureh and their e ${ }^{\text {a }}$ of mountains, but their finds were too far afied in $t^{0^{0}}$ days to canse any excitement. Gar afield the same time, the spaniards discovered gold the coast line of B. Cpaniards discovered gold time, with what result is not know the same for so thome ence of their workint is not known, thongh the end of the (inlf of Georgia still exist amongst the 1 sh ${ }^{\text {per }}$ traders of the Hudson's Iater again, the pion ered placer mines in may Co., in the forties, distion and also reported the exintence rivers of the inter fith of lead and copper and went ex extensive depor sinking prospect hole went, in some cases, as fat ${ }^{\text {dab }}$ fornia and Montames. In 1856 , the miners of those conntries. ina, following the mineral belts of a

Kold, crossed the border, and penctrated the wilds of
Sritish ine isht of Columbia, with the result of the gold exciteBend of the early days, in the smilkancen, in the Big dented the Columbia, and later, in 1864 , the muprecetoo well gold rush of the Cariboo. The old placers are Tittle or known to need our dilating on them at length. thede or ory no thought was given in those days to the About of quart/ mining, nor till a mucl later date. ${ }^{3} \mathrm{H}$ g Parties, 18 , the Doninion (Government had explor-
thortsties out in British Colnmbia makng general $\mathrm{h}_{\text {as }}$ refts on the colutry. Mr. Moberley, C.E., who theyesided of late years in Vanconver, was one of What explorers, and alont mis\% discovered galena in ${ }^{\text {reporp}}$ is to 10 ow known as the slocan district. In his Conseque the Government he mentioned these, and in In the thence some small amount of work was done Smilk ensuming year by the covernment. In the same thluen ciamp, some work was done alout the
cone, or a few years, later, on a copper ledge, but

## DIEVELOPMENT COMPANIES.

A great want is felt just now of good substantial development companies, to take hold of the many undeveloped prospects in the Province.

The average prospector is a very poor man, who camnot afford to do much of this class of work himself, and the average British Columbian did not come out here because he was overburdened with wealth and wanted a change of air, but are of the "Young-man-go-west" sort, and there is not capital available here which can be put out for two or three years without being missed. To make a success, a company should obtain, at least, twelve claims to work on, and these shonld be chosen with the greatest care, and obtained on the lowest ternis possible. I do not mean that the prospector, who has gone to considerable expense and risk, should be squeered; but that fair valuation be made of the property, in comparison with similar ones


${ }^{\text {in }}$ tho these days, there was no means of getting the ore
 of hained Mine, ins not montil foe that anything but placer mining sevented any prominence, and only within the past tone years has any amount of derelopment been diffechalties this line, and, until four years ago. the com culties of getting the ore from the mines to railroad Were sonication, and the distance to smelting points, ilyy so great, as almost to preclude their working on Chladig like a paying basis. Now, however, the theirdian Pacific and (ireat Northern have pushed Crop ines into the principal centres, and as new ones intes 4 p and show siyns of ralue and pernanency,
 thg ince has, within the past three vears, beell openTamps lip connection with these from the individual beillg and trails to the various claims. simelters are position erected at central points and the country is in a
 thlet itable and almost everywhere, where man has Hent trated. Those belts.s which are of real and perma"ht brolue have belts which are of real and pernaa
which are developed in the neighborhood, and that no more cash should be paid than will compensate the man for his risks and expenditure until sufficent be done, in some degree, to prove the property. Deposits slonould be made to cover all engagements, and everything done to give the prospector (who is naturally of a suspicions nature, having been considerably "had" in the past) faith in the people he is dealing with, and he should be given an option to work on the property himself, when at all competent to do so, and no properties should be tied up or bonded on which it is not fully intended to do work. Large groups should not be taken hold of in one vicinity. There have been many Development Companies in British Columbia, and there are still a few in existence, whose main ain and object seems to have been, either to get hold of propertics on bond, at nominally very high figures, really paring only small sums for them, and fl at them for still larger ones on the London market or else to carry on business on the following lines:I. To open up big and elaborate offices; 2. To gather together as many as possible of their friends and togetler as many as possible of their mining, or
relations. who know nothing at all about minige
any other business comnected therewith, and give them billets, with big salaries attached, and to pay the prospector as much as possible for claims. 3. To get as poor prospects as they possibly could, in the most unlikely positions. 4. To do the work on them where there was least possibility of finding anything, and to do the same in the worst possible manner, and generally
to carry on what is known lere as "gophering", to carry on what is known here as "gophering," or sinking pot holes all over the surface, picking, or
little pockets of surface ore any that looked the least bit promising and ho at once those which were no good. 6 To expend hold on to of their capital in the erection of rend the balance
utterly inalences, and utterly inadequate plants on these of residences, and wind up their business and circulate reports then British Columbia was no good. We don't want any more of these. What we want are good, strong meny with business principles, men who have money enough to allow them to put some of it aside for these uses, and to be in a position to wait for a few years for a return, and men with sense enough in thew years for a what they are going into. and to choose competent, experienced workmen to do the work, and capable ment, to look after their interests here, and who do not have
to go out to sell their shares to and servant girls to make up their capital. In clerks, cases good promising properties can be had on easy terms, and often the prospector will be found willing to turn over a half-interest in his property, for the sake of getting sufficent work done to Crown-grant it,
holding his remaining half-interest holding his remaining half-interest at a moderate figure, with the option of receiving payment, either in part or as a whole, in stock. He will be generally
found willing and wishing to have found willing and wishing to have option to work himself, on the property, and often wanting to be paid at
a valuation for work he may already have done terms as these should he may already have done. Such terms as these should be reasonable enough to induce Some expenditure on the part of capital. But the cry
is: "We want developed properties," pay far more thant developed properties,', for which you along the lines above laid down, and by expenditure should, with reasonable judgment, obtain an anich you creasing return for your primary expenditure. indoes not require any very parge amount of capital It undertake such an enterprise as this. A syndicate with $\$$ roo,ooo should be able to make an almost sute success, using $\$ 75$,ooo for a working capital, and hold ing the balance in reserve. They need not employ a whole regiment of officials and clerks. One compey a business man with a clerk, an engineer and assistant and a good working superintendent for each claim worked on, are all the officers required for the first couple of years until the properties are sorted down and larger gangs of men are set to work on one or more of the claims, when it would of course be neces. sary to have officers at such mines in order to look
after the camp economies. Such few officers be carefully chosen mens. Such few officers should men who have worked in it and know it, and they $\$$ should be well paid. It would cost in this way, $\$ 13,000$ to Crown-grant the properties, leaving a balance of $\$ 62,000$, say four claims might be found of the twelve which were looking promising, $\$ 20,000$
might be expended to further prove these balance of $\$ 42,000$ would be left to place any such work which might have proved good, and in a fit condition for flotation of subsidiary companies.

## NOTES FROM THE OMENICA AND PEA ${ }^{\text {d }}$ RIVER COUNTRIES.

BY J. B. ROWLEY.

I have been working in the Omenica country ${ }^{9 y^{4}}$
 My partuer and I have a section of land on Mile Creek, near the B. C. boundary. I left hoilitiv the r th day of March this year, and in my perig Eatel tions, crosscut British Colimbia from the Eat Ely boundary on the l'eace River to the Coast, reach Port Essington about the middle of October. nit partner and myself, during the last six years, dit

 \$I per day. The bulk of our supplies we oftain tit Fort St. John and Fort Fraser, Hudson's Bay stal ${ }^{\text {de }}$ and were very expensive, sugar costing us as things mostly in prop 65 cents per pound and other things mostly in prop tion.

Quite a few companies are working up there, bette most are very badly managed and might do muchl be the than they are doing. The miners doing work ong all own hook are mostly doing pretty well, averag se ${ }^{112} a^{5^{90}}$ round $\$ 4$ to $\$ 5$ per day. The opening of the se fial varies a great deal according to the height at frow claims are situated, the lower ones being workable til April, whilst some higher up are not workable ${ }^{\text {ber }}$ nearly a month later and can be worked till Nover walle The country is a good one, and in the lower raile vegetables can be grown; horses and cattle can win whe out there. The principal pay area extends from McLeod, on the S.E., and Stewart Lake, on the San to the Big Canyon on Finlay River, on the N.E., 100 Thutage Lake, on the N.W. is 250 miles long and and $^{10^{\text {t }}}$ miles wide, consisting of two belts of slates, in all ab il 40 miles in width, and a belt of granite, 10 miles ${ }^{\text {dit }}$ width, the later lying between the two slate belts ${ }^{\text {dich }}$ a series of schist. On the McCoy Bros.' bar, wh ${ }^{\text {b }}$ is 300 feet long by 50 feet wide, values averag cents to the pan, $\$_{4}$ a day, under favorable conditio On Fort St. John Bar, 300 feet by roo feet, with a and $^{19}$ 12 feet of pay dirt, an average of $1 / 2$ cent to the pat to $\$ 6$ obtained ; the ground is easy to handle and froll $\$ 3$ is $\$ 6$ a day is being made. In the slengh the gron will very rich but owing to amount of water cannot be wititic
 and the bars from Fort St. John to Hudson's ${ }^{\text {and }}$ is and will average from $\$ 2$ to $\$ 8$ per day; the goliver just with blanket can be saved without quick being worked betwankets. Several good bars are didivg from $\$ 3$ to $\$ 12$ per day per mant, there is lots of groul and deep wash, 20 to 30 feet.

Findlay River and Gold River are about the same ${ }^{\frac{29}{9}}$ the main river-Peace; from the mouth of Big Canl $45^{0}$ gold is found on all, every bar carying from $\$ 1$ to $\$^{5^{0}}$
 is not found in paying quantities for 15 miles frotil arl mouth; it is very fine, but from this point values ${ }^{\text {and }}$ got from $1 / 2$ cent to 5 cents per pan, $\$ 4$ to $\$$ to per day the richer the wash the stickier and harder it is to wo

 around ist North Forks as this is in the granite bedt nor for nealy 20 miles above, at this point pay calle ${ }^{\text {e }}$ again in slate wash.

The deposits of the Omenica are similar to those $e^{8}$ Ingenica River, but have been worked to a greater ${ }^{\text {es }}$ tent ; mostly the creeks between Germansens and ${ }^{N^{N}}$
broved the the north side of the river itself have good to be good. There are many bars that carry and coarse gohd, but the conntry is full of wind falls and from standing timber, logs piled up in every shape reached I 3 to 10 feet high, at the farthest point Foin I I got $\$ 6.25$ out of 9 or to shovel fulls of wash sago, sliy bed-rock. The gold was about the size of Misionle, time here, however, drove me out. I had a very hard Even here, and had to kill my horse for grub, and later Slpplify dog to enable me to get out. There were no peoples to be had in the country, the Hudson's bay Tiphe having run out, and the people working on Wright Creek, would not sell me any, Colonel Johnison Th was particularly conspicuous in this way.
atriferous Parsinip River is much the same as regards ${ }^{\text {rallhes}}$ lis deposits, but the surface wash carrying ind as is very shallow, only from six to twelve inches, as a rule occurs on top in the bars.

Colonel Jonhua Wright, on Manson Creek, has put in an elevator, and is vainly endeavoring to force 16-in. boulders through a 12 -in. pipe. He is working on Kildare Gulch. The ground had not been tested at all and they are working utterly in the dark. The shareholders need not look for a return. Right across from him, on Black Jack Gulch, Mr. Black, manager of another company, has got the best ground in the country; it will average over $\$$ I.oo per yard. Most of their water, however, is going to waste in the ditch which, for about a mile, runs through chickenfeed gravel, and they are only getting about 60 inches in consequence and only working about 30 to 40 yards of dirt. There is a sawmill just below the ditch, and plenty of timber. The property is a valuable one, and the company should most certainly construct a flume in place of their defective ditch. They are working ten men. It ought, if properly handled, to be a paying concern.


Nom the river is its longest tributary, and runs in the the west, and carries much heavier gold than Per dayenica, averaging from $\$ 2$ to $\$ 10$ and $\$ 15$ Harface bars. The workings have only been of the creekash (locally called skimmings), on any tave creeks, as the gravel is loose and deep workings sheh had to be abandoned on account of water, until nels rume as pumps can be got in, or drainage tunWhd is in to drain the lower levels to bedrock. Coarse Wels found on the following creeks: Robinson, Ruby, bortationile and East Log. The high cost of transfry of all a great drawhack and has precluded the Whyd dead work, such as deep drifting, etc. A Wromy youlic companies are doing a little desultory like or Germansenscreek. The St. Anthony Co., of lesty to are, however, going in extensively and are ahted their make a success. They have thoroughly $f_{\text {foll }}$ loe. ground by drifts, the ground averaging are Germber yard. They are getting their water of obtainingsens Lake, about is miles distant, and their gring 5 ,000 miners' inches of water. Some baystreat ground goes as high as $\$ 100$ per yard in the reaks, which are pretty extensive.

The Indians have run the Chinamen out of this section of the country, as the latter were interfering with the natural state of happiness in their domestic affairs.

Decomposed shales are being worked by Charles McKimon on Lost Creck. In one week, while I was there, he took ont $\$ 14.00$; in three days, the week before, $\$ 65,00$. The creek is small, with just sufficient water for sluicing, and the gold is very coarse.

The formations I met with in coming through to the Coast were: commencing at the eastern slope of the Rocky Monntans, extensive coalfields, seams averaging from 14 ft . to 20 ft . in thickness; and from here on line belts, lime shales, schists and gneises, slates, with granite intrusions, shate agan, shales and conglomerates predominating from here on till the Coast range was enconntered. I also saw several minor coal areas in Parsinip River district. There are numerons very extensive quart\% vems, of great width and considerable mineral showing, in many parts of the country, but of what value these would be I an unable to tell you as I have no knowledge of quarty nuable to tell yon as I have no who seem to know say
mining ; but I have heard those whol

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OPEN CUT AND TUNNEI, BTUF, BEI.L, MINF;.

MINING.


STOPF ON KOTIL MINE.


CONCENTRATOR PTANT, NOBLEF FIVE:.


HAI, MINEG TRAM.


RAW-HDING: ORE VROM RLCO MINE:

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## SMELTING.



NHEGON, B. C.


TRAIL, B. C.


HALI. MINES SMFITTHR-INTERIOR.


TRAIS, RHFINERY,


TRAII, SMEI,TER.
that they are very valuable. One very large vein on Selwyn Monntain is now being worked by Chicago
people; the values are suan They have taken in annall, about $\$+$ to $\$ 8$ in gold. Edmonton, at very much extensive plant by way of have been got in for via Quesuelle cond than it conld

The country would be a very and Nation River.
the Government one to open if the Government would construst one to open up coast, as all the rivers are navigable ford from the dred miles from their nouthable for over a hunsteamers, and once in, on to Tom for light-draught the whole country can be reached by meanc crecks, waterways. The creeks are peculiarly means of its to dredging. I left Man of October and reacek for the Coast about the middle my stuff on my back, and thencen tellays, packing Lissington, where Mr, and thence by canoe to Port they were going to reduce the cum informed me that Hazleton from 3 c. to $2 c$ charges on freight to stuff in froa there to Manson fors are now taking they were charging last year and 7 c ., or half what

From Hazletong to Tonn Creck, the year before. tion, is ios miles, and an excellent the head of navigaover the ronte at comparatively small cost can be made to the summit, between 5,000 to 6 ,oos feet The grade level, is very gradual and hanting would beet above sea is about time something wast done. The be easy. It Quesnelle mouth would be 360 miles, The ronte from I believe, open up a good country. 360 miles, and would also,

I am going back in the spriug. arrangements for working on a larger intend making a great deal of difficulty about staking scale. There is mostly left undone, owing to the ring claims and it is gone over to reach the only Gold Comulance to be Manson.

## Choosing prospects for developmient

In the choosing of prospects for developmint. order to make it a success, greater care in in topment, in in the ordinary mine where developis needed than carried on and the property to some extent has been on, and canter case one has something definite to wed. on, and can judge approximately of the amount of work ing hold of a prospect nature of the walls. Int ore, a pig in a poke." prospect one need not necessarily "buy
poke."
paid to the general geologiticular attention should be or district in which the property is ion of the conntry there, generally throur property is located, and wheand extensive; then, should a good-looking traceabte vein, showing signs of the outerop-looking traceable be found to exist on the proteropping of ore chutes, look for: for the existence of rty, a cause should be relation to the various formations vein itself and its passes (should it appear to be through which it those with which it is in relation a true fissure), and be a contact, and if in relation, should it appear to or dykes ; whether its contact with volcanic rocks formation or cut the same conforms to the general thoroughly investigated.

Having thuss ingated. that it is properly staked the property and ascertained have been complied with, it will be the mining laws some little time going over the be necessary to spend order to ascertain whether the same cond popertics in there; to examine other mines in the conditions exist out if veins, having similar conditions to that and find
property you have becn examining, are proving of manent and carrying values to any extent ; mand $^{\text {m }}$ nature the generality of the ore is and in what on it is distributed in the veins; if the conditions itity surface are similar to those on yours ; if the con below, with some work on the others, indicate sp mprovement and permanency, and the results ${ }^{\text {m }}$ satisfactory. Should these conditions exist yo safely expend a little money to test that whid have examined. High surface assays should be suspicionsly; rather look for low values with extern traceable veins. There are scarcely two call ${ }^{1}$ ? ${ }^{\text {til }}$ British Colmmbia where the conditions or the of the ore are the same ; and it is only after ext experience in the country that one can know the ious conditions under which veins of real worth ${ }^{\text {d }}$ and the nature of the ones to choose.

Hitherto it has been customary for would be ${ }^{\text {in }}$ vestors in properties to send into this country (many fresh from college), with munerous attached to their names, who when they cane were utterly at sea. Hardiy a mining engineer into the Province and visited the Rossland Canlp did not condemn it. yet the work there proved he judgment to be astray. To-day men cone in itiolt from South A frica and other places where cont it the are completely at variance with ours, and - with fool
 nearlontana, Idaho and Colorado camps, which in nearly similar conditions- -either go away and ratl ${ }^{\text {di }}$, colutry down, because they do not understath file else pick out utterly worthey do not the becatise ${ }^{\text {the }}$. are like those the worthess properties becat Theth again, mose they have been accustomed to. or other, obtaine sent here who have, by some tation and who have membership of mining associan rud of mining $n o$ knowledge of the merest juto the Cariboo by an English syndicate, to exanine sh the placer properties there, who did not even know meaning of the terms' "bed-rock" and "rimt rot who, when he was informed that bed-rock wat deep in most cases in that district, remarked, and
 surely if it is deep there ought to be all the more gere in it." Not dreaming that "deep" neant core with a heavy deposit of waste.

When such men are sent out here with authorit ${ }^{\text {lad }}$ is surely not surprising that we have failures, and oll $^{\text {p }} \mathrm{p}^{\text {e }}$ tent comes in so slowly. There are many cone tent minning engineers of good schools, of some ye in siperience in British Columbia and many mor all $^{\text {l }}$ similar camps, who have now the exigencies and ${ }^{c^{c^{n}}}$ ditions of the various districts at their fingereld They are reliable and can give anthentic infornation and it is only right to recommend that the advice such should be sought before investurent, nore $\mathrm{p}^{\text {ar }}$ ticularly when properties of a prospective nature ${ }^{a^{\text {d }}}$ to be chosen.

## THI; BOIER CAMPAIGN.

"Trantity int Soldiers of the Queen" are attacking ate proving our men cape which, as we anticipated, art that has built men to be of the same sterling quat lill pire which stands will maintain the glories of an and $^{\text {b }}$

The reverses mivalled in the history of mation then onr brave fellows in the will only tend to strents forward, to victory the in the determination to $c^{\text {ap }}$. thousand years the battle flag that has "braved represents to humanity at large all that has mat $^{\text {a }}$
life worth living. The same British pluck and stolid throrance will carry the Soldiers of the Empire sunshin the chequered shade of reverses to the bright stashine of glory and success.
Our great fault, which experience has not remedied,
fincieen too little care in forearming against continWould such as these, and which to any other nation $S_{\text {and }}$ be of an overwheming character. The Anglo$h_{0}$ wever history, tradition and characteristics will not, thent. atid at Britons have never fought but under difficulties $\mathrm{backs}_{\text {s. }}$ great odds, hence we must expect initial setWe have, however, the same spirit dominating our
soldiers Priorts as in the days of David Gam, whom Henry, Hemy the battle of Agincourt, sent to recnonoitre the the Fir and on being asked concerning the number of there's ${ }^{\text {French, answered, "An't please you my liege; }}$ enough enough to be killed, enongh to run away and of $\operatorname{lgh}$ to be taken prisoners." The whole history $G_{\text {alnl }}$ ir struggles compose a galaxy of such heroes as the goldich stand out the most brilliant settings in $t_{\text {lat }}$ golden circlet of British renown. We are confident shperior crisis will produce the men equal, nay, He for to the occasion. Our earnest hope being that act decine Covernment, will grasp the situation and the Qusively, The Empire is with them. God save tss froeen and the Soldiers of the Queen and deliver "is astrots an overdose of red tape, which has proved so rotus in the past.

## Chinamien in mines.

Abritation has been going on for some years to in $_{1}$ the legislation against employment of Chinamen they coal mines. It has always been contended that $f_{t}$ In igere a great source of danger to others, both honithorance and carelessness. Within the past few and a the matter has been placed before arbitraters ${ }^{1}$ lithe very large number of representative miners and of the enses were examined on the subject. The bulk han evidence addaced went to show that the China${ }^{\text {it }}$ is was not a detrimental, but rather the reverse. testimonions to note that many of those who gave by Chony had not known of cases of accidents caused these when, and that they were not careless, and aholish were men who had been red hot agitators to miner them. The truth of the matter is, that the and wos himself become an employer of cheap labor "ision hould not like now to do withont him. No dethoth has been reached as yet by the arbitraters, gh the evidence is all in.
 This now well-known goldfield is part of the Kiver West Territories, lying west of the Mackenzie the rind covers a distance of about $65^{\circ}$ miles along H ${ }^{\text {river }}$ from the coast range of monntains. The hto the V Bay Company were the first to penetrate thout Yukon in their search for fur-bearing animals Il 1840.
of the 1847 they established Fort Yukon at the month at the Porcupine. In i848 Fort Selkirk was opened rigy junction of the Pelly and I ewis Rivers. In ised by experdition to explore this region was organtol to the Cana lian Government, which was entrustI)r. (a. M. Dhwson and Wm. Ogilvie.


This work occupied some two years and covered the country adjacent to the i41st meridian of longitude, designated as the Boundary line, from Mount St. Elias to the Arctic Ocean, between Alaska and the British

The explorers found that close to the Boundary line, there existed extensive and valuable placer gold diggings, where even at that time some, three hundred miners were at work. The number of persons engaged assumed the charg has increased year by year till it all parts of the world were rush in 1897-8; men from the wonderful wealth of the attracted by the reports of

The transcontin of the district.
most to contend with the lines were taxed to their utwar intensified for the traffic, which a railway ratedaily in three and four time, trains leaving Montreal the seekers after gold sections, so numerons were the C. P. R. and the shipncouver, the terminus of for the goldfields, jumped ing and outfitting centre of stagnancy to that jumped immediately from a state prosperous period that of extreme activity. In fact, a fic Coast centres generally, it may be said for the Pacilasting qualities of therally, and continues. Since the there is little doubt e diggings are fairly ascertained, result, governed by the annual ena of prosperity will of the diggings. In 1894, the output of the clean-up) that season was some $\$ 300$, value of the output for the short time the ground could which, considering and the difficulties to be overcome, wase been worked large sum

In 1898 , some $\$ 10,000,000$ of the precious metal was taken ont and this season it is estimated that at least double this amount was produced

Dawson is an example of the growth a mining town. Just over two years since it was nonexistent, and now it has a population of between twenty and acres, and is situated townsite covers an area of 160 and Yukon rivers. It contains thence of the Klondike three newspapers, sawnills, large number of general sit, churches, hotels and a and money order offices.

The Yukon and White Pass Railway is at present terminal at Bennet, but is pushing on during the presont winter to Cariboo Crossing and I, ewis River, pects to have this beyond Bennet. The company exAugust, igoo. The devpleted and in operation during years have broken the velopments of the past two the pioneers had to the back of the difficulties which the corridor trains at Encounter. One can jump into pool and journey throuston or St. Pancras for Liver-Twenty-knot saloon to the diggings in luxury. other day during the vessels leave Vancouver every you journey by rail season for Skagway and thence steamers to Dawson. to Bennet, again boarding saloon

The immense interest centered in the district today assures the value of the ground, as these associations would have been impossible had not the character connections ment during the futur result in satisfactory developthat some of the future. We are in a position to state properties on some magnates have secured large thorough examinat of the principal creeks, after than satisfied with the by experts, who were more may look for considerab tests they made. Hence we the London market in the near future. " Klondikes" on


## Victoria.

the Heldest the capital of the Province, is ho "hedson's laving had its origin in He, with to bee a city in is43. It has hr 30,600 a population of great importthe 00 , and ration of between 20,000 tres an minion. It is the fourth port कhimene, and the It is the seat of the for Mingest the hatarliament buildings the thy, mathe handsonest in America, heys upe steadily ining and trading inmon const and mining industries on the fle shatily largely ind of the Island will proaling it is the centre of trate, ats fort Hion fleet ounf centre of supplies. bholls. heing the klondike cind a large of the It is the melied by victoria merflyat hevince military headquarters wh who furters of the North Pacific Whading he natural beauties of the
hted thentiontry are too well known ${ }^{\text {Has }}$ Buthon here.
 ing in the amongst the oldest instiTh mince rovince, having been in Whe Officers, for 1899 to incorgorated in Pidecident; F. It ; I. (i. McQuale, dre G. A, F. Elworthy, secretary. Jhy dinge, Hesehell Cohen, A. (;. Me d. J. Shall. A. Hohen, I.R. Kerr, C. Plumbross, C. F. rodd, J. ( thitite, Jas. Thomphe W. Patterson, Mon: J. R. Kerpson. A. Board of
 hif Pigye, M. Hahame, J. G. Cox, the ${ }^{\text {tol }}$, C. Faywood, G. Gillespie,
 nuly he in recepte of
$\mathrm{H}_{\mathrm{l}} \mathrm{J}_{1}$ of the the bue Twentieth Anhif Shey he lusiness of containing a fe foles at ist, 1898 , to of the I Province thitest length, to June zoth, 1899 , What. Widustries of the progress of "Hy We With regard to the Mining ho thitht the increase following:-
thes, valued at only the output of twi (eldenthg to $\$ 6,529,420$ in in 1898 , is fit fif feesseri insult, disapposintment has In
h. hirg this of the conditions onder that he Wh decrease was the price of ho If The $h$ an ingerease early in 1898 . This sheh the United in the daty on lead Whe ored mited states, where nearly hnt cont deterred some insh Columbis 4i) 1 PD ateding operatione mine owners Gise topd lew operations, and some Ir hif aped. The price of silver in-
 fyf a lls. The to profit by the changed If ifse, erease in result of the foregoing thly uff of the output of iner output of Whe of $\$ 3$ I $2,9.36$ cont of lead shows a is ite outus year, 9 compared with that prerequat of
1 try whed, whilst copper-gold mine: i. in ${ }^{\text {its }}$ confined work on many pro${ }^{4}$ in $r$ is ut hew ore bodies. "in thoulduate that the
of the Iew be distatured by a regislature reducing the
dime of miners working underground in metalliferons mines from io hours to 8 hours per day. It is too early to even forecast the ultimate result of the new regulations, but at present a most undesirable sense of uncertainty is experienced, not only in the mining districts, but also effecting the coast supply centres."

## VANCOUVER ISLAND.

The principal Mining Industries on the Island heretofore have been coal mining and some placer mining, considerable quantities of gold having been taken out of some of its rivers. Of late years, however, considerable quartz prospecting has been carried on and some properties have been opened up which are proving mines. There was a great deal of excitement some years ago when gold-bearing ledges were struck in the Alberni districts, and a good deal of development was done on a number of clains, and, although no results worthy of note have so far been obtained from that point directly, yet it led to the further prospecting of the Island, and the finding of properties of great apparent value, a number of which are now being worked, so far in many cases with grood results.

The supposed rights of the E . \& N. R. Co. over the minerals have prevented any systematic prospecting in the Railway belt. As a result of what little has been done, we have the Mount Sicker and Tyee Mines, near Duncans, in the Victoria listrict. Both these properties are turning out well and have now developed considerable good ore. The values are in copper and gold. On the West Coast a number of properties, mostly copper, have been developing this year, and in most cases the results of work done have been satisfactory.
The great drawback to development has been the scant capital invested, and heretofore the improper management of the mines. Now, however, several good strong conpanies have taken hold of properties and some good results may be looked for.

The proxinity to the water-front and the facilities of shipping directly by water from the mines-with only, in most cases, the necessity of putting down short tramways to the shore-to the smelters at Van Anda, Tacoma, or Everett, and consequent low freight charges, should induce the expenditure of considerable capital in proving these mines. With proper and systenatic development there can be no doubt that they will turn out to he good paying mines,
The Coalfields of the southern half of Vancouver Island are of great dimension, extending from near Chemanius to beyond Comox, a distance of 75 miles, and average many miles in width, stretching out uuder the Gulf of Georgia to an extent as yet not ascertained. The belt is apparently mbroken, at least to any great extent. Several seams exist of from 3 ft . to foft in thickness. The coal is bitumintous and of good quality. These fields were first prospected and worked by the Hudson's Bay Company, at Fort Nanaino, during the fifties, and were purchased by the old Vancouver Coal Company in 1862 . Later the new VanComper Coal Company was formed, and now owns these mines together with a large area since acquired, in all about large area soo acres of coal lands. Their output is over 500,000 tons yearly, and about ${ }_{1}, 200$ men are employed. The same company is working five pits, Mr. Samuel
M. Robins is the manager. The Wellington Colliery is owned by Robert Innsmuir $\&$ Sons. They were first discovered by Mr. Robert Inansmuir, who obtained a large tract of land from the covernment north of the New Vancouver and Fast Wellington Colliery lands, about twentyeight years ago. In isgi permanent work was started and has been carried on con tinuously since.

The Union Colliery, originally the property of the Baynes Sound Coal Co., is now owned by the Inion Colliery Com pany, and is situated about 12 miles from Union Bay, Barnes Sound, and about 58 miles from Nanaimo. A coal washing plant and 200 coke ovens are being operted at Cnion Bay, and first-class coke is being turned out. The wharf is nearly half a mile long and is provided with the latest equipments for the handling and shipping of coal. The coke is largely used in the smelters and other industries. A new shaft has been opened up and eoal

MINING ON VANCOUVIER ISLAND.
Win. Brewer, a conservative authority on mining matters, relative to the west coast of Vancouver Island development during the past year, says in the "coll onist' ${ }^{\prime}$ :-
Near the wharf at San Juan Harbor, and on the Cordon River, which empties nito San Juan, there has probably been about $\$ 2,0 \%$ expended in some shallow work on prospects.

At the W. W. W. a force of miners have been working since early in the Spring. About 30 tons of rich ore has been stoped down and packed io miles to the beach whence it was shipped to the Tacoma smelter.
On the Golden Lagle a force of ment have been working the entire year.
On the Consoliflated Alberni a test run was made in the Spring under a lease, after which the mine was closed down,

Considerable prospecting has bee did on (iranite Creek near the W. Wi Gote group, more especially on the Go slipper, owned by H S. Iaw and ot the of Alberni.
The owners of the Thistle group ${ }^{\text {pep }}$ Alberni were engaged in further prosper ing that property.

Near Chuchleset quite a little stir made relative to the discovery of gold ${ }^{\text {did }}$ black sand, and sevetal offers were $t^{\text {a }}$ to work the same and save the values.
Around Clayoquot sound more ester sive development work bas been carrip on than in any other camp on the wi coast. On Tront river the Helga Min ind Company has been workithg a force men under contract, contintiously:
The Castle group of mineral claitus Bear river, near the head of Bed $w^{\text {d }}$ Sound, and the New York group in $\mathrm{s}^{\text {b }}$ sam: vicinity, have hatd forces of employd contimuonsly since Febr ${ }^{\text {an }}$ last, promating develoment work.

of very good quality has been got out. The company also have prospectors out searching for copper, some very fine float having been found in the vicinity of the Union Waterworks. The Union Colliery Co. have openerl nip new mines at Extension and Alexandra, and have put intextensive wharves and bunkers at Gyster Bay. Considerable caving occurred during the early part of the year and a portion of the town was destroyed. In many of the old workings the seams have been worked out and the workings closed down.

The yearly output of coal from Wellington is about 400,000 tons, that from Vnion Colliery abont 300,000 tons.

A small force of men were engaged during a portion of the summer, prospecting the Blue Bell group, near Sing Basin, Wchuchleset Harbor.

PARLIAMENT BULDDNGS, VICTORLA. B. C.
although the test gave fairly satisfactory
results.
At the Regina the owners were engaged in prospecting work for several months. At the Lake Shore group, on Anderson Lake, about $\$ \mathbf{5}, 50$ was expended in development work during the Summer, and it is proposed to resume operations shortly.

On the Hanson group, adjoining the Hayes mine, a force of men have been engaged prospecting during the Fall, and are still at work.
On Sproat Lake several mineral claims were located during the year.
A small force of men were employed prospecting a gronp of claims in the same vicinity owned by a Nanaimo Syndicate, and locally known as the Stark group.
A small force of men were working during a portion of the year on the Pansy
Blosiom mineral claim Blosiom mineral claim, near the naw
townsite of Alberni.

Ont the satanita group, iu the gat $^{1 \mathrm{t}^{\mathrm{f}}}$
Camp, some devilopment work was do 'huring the fall.
Prospectors have also been perforn $n^{\text {in }}{ }^{1 / 2}$ their assessment work on other cala ${ }^{\text {and }}$ near the Bear river, and some exploration of the upjer river, to a point about ${ }^{23}$ miles above salt water was attemp $\mathrm{m}_{\text {dit }}^{\text {t }}$ during the summer. In that localis some rich quartz outcroppings were dit covered carrying free gold, but repor as being the outcroppings of very narro veins, the value of which is quite prot lematical.
On Deer creek, at the head of $T 0^{f^{11^{l}}}$ Inlet, the Jumbo mineral claim has bet andergoing development work since March.

Assessment work has generally be be $e^{e^{e t}}$ done on other mineral claims on Creek.
 into Tofino Inlet, a force of nen la ${ }^{\text {re }}$
been employed on development work on
astoup of claims knwon as the General Ashton of claims knwon as the General Min Kennerty. prosecuting Company has been vose Marie so insting developuent work, and has $h_{\text {aving }}$ installed a concentrating plant, 4 ceeded in a great deal of difficulty, lak the rapids betweorting the machinery bonte in
on Syd the Jones and English syndicate ${ }^{4}$ Sydrey Jones and Kincaid property Anatch syndict, and it is reported tha $O_{n}$ onda group, in the same district.
Companatsinu Sound same district.
mepany has been carrying on developSont Work in oeen carrying on develop-
ste of then op up coal seams. Ste of of this coal has been tested for C. P . N . purposes on the steamers of the perfectly Co. Cut the results were not thd shed satisfactory, because the coal Thd had was merely from the surface laterial mixed withe slate and foreign opened the fall that further work had pened ue fall that further work had
perior seams carrying coal of a su-
Nuality $N_{0 t}$ quality.
ceal sear from the workings of these ins, dereloping Spokane syndicate has Ons of trial shipment of some twelve At during was made from these proAt Seeching the summer.
of entrance to or Anderson camp, near the ten have to Beenclay Sound, a force O Year on deen employed nearly all some Copper Is velopment work.
hent further Island, in Barclay Sound, - has been done during the

## $M_{\text {MINLAND COAST PROPERTIES. }}$

At Philips Arm, the Dorothy, for some hill whin, has we find it impossible to he vinout.
the Van Anda Company are working
proponte Cristo ming position cristo mine, which is a copper tond $\mathrm{D}_{\text {ouglas }}$ Pine and is anising property. Wild be and it is expected that work Developumed in January or February. $4 t_{\text {the }}$ Cobblesdick work is being carried on the Properties property on Frederick comperties formerly owned by the hig worked w, on Stuart Islind, are Several properties have been developed sothe experties have been developed
atcouvent on Howe Sound, near $\$_{200}$, has One, apparently of great of theo ; it is reantly been bonded for Are in Inlet, near the mon the west side edge, opper and the mouth. The values fom fight opposite Vancouver, and Opper are a six miles from the wateron ther ledge. About a claims also on a Was bone of claims, on Lynn Creek, ${ }^{0}$ hads onded and work pushed. The perty have been taken up and the proAt also bonded outright. The company brore prent oonded other claims adjoining. Pplicommodious erecting a new and harication for a chap, and are making point ${ }^{\text {Woghange }}$ a charter to construct a bet on the line from the mine to a velopen Lynn and of Burrard Inlet.
Perty ${ }^{\text {Phent wn }}$ work is Capilano Creeks, de-
fry owned work is being done on a profom their by local parties. The lights Oth the city. camp can be seen at night


STATION IN SHAFT, MARBI,E RAY MINE.

Texada Island has been making great progress during the year. A smelting plant has been erected at Van Anda, with a capacity of 50 tons per day. It is now proposed to increase this to 100 tons. Development is producing good results on the Copper Queen, Marble Bay, Little Billy and others in that group.
Iron ore for flux is being obtained from the Raven, in the course of development of that property. Near the latter is the Dexter group, owned by Vancouver men. This has lately been bonded to Eastern This has a partly stock basis. On the parties on a pare being worked by a U. S. company.

Mr. Nowells is down from Princess Royal Island, in the Queen Charlotte group, and reports considerable development there, mostly on copper properties. of which there are about twenty. Veins run all the way from $I$ foot to 20 feet in width, the percentage of mineral is good width, the percen. As far as developmenand values he results have been very satis has gone the Work is being carried on, on factory. Work properties, during the winter some lant of the Rose Marie mine, on
The plant of the Vancouver Island, is the west coast of now whill ship from this on.

## THE: TRANSVAAL'S WEAL'TH.

The following figures, taken from the London Stock Exchange Year Book show the dividends, by percentage, on the capital stock, declared by some of the mining companies operating on the Transvaal, South Africa, during the year 1898:-

Per Cent.
Mines. Suburban $\qquad$
City and Suburban .............................. 55
May Consolidated ................................... 20
Windsor $. .221 / 2$
Riefontein 25
Drietfontein ...................................... 25
Glencairn ......................................................... $3^{\circ}$
Knights .... $4^{\circ}$
Rose Deep

Griesberg ...................................... 40
Roodeport United ................................ 45
Langlaate Estate ............................. 50
Angelo .......................................................... 50
Crown Deep ...................................... 55
Primrose ....................................... 65
Village Main Reef .......................... 60
Meyer and Charlton 60
Worcester
Geldenhuis Deep ............................ 75
Durban Roodeport ........................ 80

Bonanza ........................................ 10
Jubilee ............................................................
Heriot ....................................................... 125
Henry Nourse ............................................... $1471 / 2$
Gelenhuis Estate 150
Wemmer 150
Crown Reef ............................................. 240
Ferreira ............................................... 300
Joannesburg Pioneer . .675

It is well, however, to state that this list does not include all of the big companies operating in the Transvaal, and which have paid profits to their owners. Some of the very largest producers are not mentioned. As for instance: the Simmer and Jack, which is, by long odds the biggest gold producer in South Africa, its output for last August having been no less then 22,460 ounces, equal in value to about $\$ 403,680$, or at the rate of about five million dollars a year.
Besides the Simmer and Jack there are the Ferreia Deep, Glen Deep, Robinson Gold, Robinson Deep, and many others, all of which are producing from $\$ 200,000$ to $\$ 350,000$ a month in gold. $\$ 200,000$ what are mentioned above Nevertheless to furnish some idea of the vast amount of wealth the gold mines of South Africa are adding to the wealth of the world and all of which is the result of investment of British capital. The Boers never invested a dollar in mines in South Africa, nor would there be any mines there to day if it had depended on them. Yet these same Boers have grown fat, greasy and wealthy from them through the enormous taxes they have imposed upon the mines and owners of them.

The B. C. Mining Exchange and Itivestors' Guide—Mining Tit-Bits.


## CAPITAI, ANI BRITISH COLUMBIA

Many wonder on this side how it is that we filt so difficult to obtain capital to work our mines. following extracts from a letter from London, rety at our office, and written by the owner of ver $x^{2 b}$ interests in South Africa, and a man who had tion ago, to our certain knowledge, every intertion investing largely in British Columbia, throw ag of light on the subject:-
"I note all you say about British Colun mbia $^{\text {a }}$ " certain districts in which you advised Mr. ne wr turn his attention. I am afraid that not been able to make a great success of his compa $\mathrm{m}^{\mathrm{a}^{\mathrm{an}}}$ and, though I should have been willing to $\mathrm{pl}^{1 \mathrm{~m}^{\text {t }}} \mathrm{ct}^{\text {ch }}$ money into the concern, I found things in st the hopeless muddle in the office here and such ;ite incompetence on the part of the people on this that I made up mind it was useless to sink any ${ }^{\text {ath }}$ money, unless I was prepared to take the 1 bit actively in hand myself. no doubt there are good things in British Collut ${ }^{1}$ have made up my mind to keep my capital in sol Africa, and don't think it wise to be all over world."
 of a company with offices in Vancover, of will one time great things were expected. We are ${ }^{\text {ape }}{ }^{\text {te }}$ that this company can only rank amongst those
 elsewhere. The mismanagement and inconnp have been as much on this side as in the Lo thith o we expect shortly to have something furt to say with regard to their affairs.

## TIMBIER AND COAL I,ANDS IN STATE $0^{\text {F }}$ WASHINGTON.

There is a good demand for Coal and Timber tal ${ }^{\text {b }}$, in the neighboring State of Washington. One-fitt the a tract of coal lands in the southern portion of in il? state was recently sold for $\$ 40,000.00$, the re Tle $e^{a^{1 / 2}}$
four-fifth four-fifths are held for a higher figure. The of the bituminous, of a high grade, and is availabe fal Portland, Southern and Lastern Oregon and Francisco markets. The lands are thirty miles an from a railroad, which tends to show the great ${ }^{\text {a }}$ a a $^{\text {t }}$ of the property, or such high prices would not ${ }^{11^{1 / 2}}$ been paid for it. Other sales are contemplated fit coal lands in the neighborhool of Tacoma, also bit ${ }^{\text {th }}$ minous coal of a superior quality and fully equ ${ }^{1 a^{2}}$ the coal of Vanconver Island. The coal will sutp the Puget Sound steamship demand also the railt ${ }^{10}$ and California markets. The duty on British Coll bia coal is 67 c . per ton, which is inself a profit $w^{10^{2 l}}$ competing with the B. C. product.

The Northern Pacific R. R. Co. has sold the $\mathrm{tin}^{\text {per }}$ on $1,000,000$ acres of Washington lands to an Min ${ }^{11^{2}}$ apolis firm for $\$ 6,000,000$.

Major Halder has left Vancouver for Londond. Mr. M. Marks, superintendent of the Grand Fors of Bonanza Co., Itd., has left for St. Johns, N B., ${ }^{\text {d }}$ company business of an important and extensis nature.

Rambler Cariboo has declared another dividen $0^{d}{ }^{d^{f}}$ one per cent. per share, payable Jan. Ist, 1900 . The ${ }^{e^{t h}}$ is said to be ore in sight for three years operations.
B.C. Nining Exclange and Investor's Guide.
Is $_{\text {Pubilished monthly as a Guide to Investors }}$
generally to whome generally, to whose interests it
devotes itself.

, ${ }^{C} \mathrm{O}_{\mathrm{k}} \mathrm{K}_{\mathrm{LS}}$

Ahuldonornrs.-All correspondence
Minheatidressed to correspondence
lents Fxehange, and any correspon-
eference to sing atvice or information in
o, free of investments, we will reply
dhate of charse, provided they are

Orler or ces should be made by I'. O.
British cor certifiel check, and addressed,
I pestors: Combia Mining Lixelmange and
Vancors' Guide, 6,2 Cordova Street, Aricouver, B. C.
Jathes in Montreal-Gray \& Co., St.
Whese Stret. Hymperseet.
 ${ }^{\text {ahcolver, B. Cor, } 6: 2 \text { Cordova Street, }}$ $\mathrm{A}_{\mathrm{M}_{\mathrm{H}}}$ liver, B.C.

## Christmas and a Happy New Year.

A successifle company.
 What alers, and is an good news for the heted local comp is an exemplification of lthe a eapable manner
Are, onold Fields of British Columbia, of thene other hand, an example of the heveral of a london company (one (i) ${ }^{(1)}$ so very montinately) which have wher ba as much to damage british lifer incom a field for investment, by hif incompetent representatives, or Wrtherle Thetion. The B. C. Review that to be inngior Mine is again re"ru Matt in difficulies." Though for "hpanater we fear the unfortunate
"on thot enbats never boen entirely free hofiler, aftersments of some sort or Gidand ater spending of sonne sobably several biace-boring ponns "in gophering," or ifieng surneg: shaft work operations are the how, ho dod." 'lhe directors, recog() $i_{\text {in }}$ Fielpon wrong lines, and, as the hipleds of B . C C , give no sign, this ${ }^{\text {andig }}$ in fature has done moch harm to in British Columbia.

## from the camps.

## We have (inIENWOOD).

"rapese the following, from Mr. Jay inding of the Crinng, from Mr. Jay rks and Sinelting Co., Ltd., of Grand at and lhcenix, B. C. : "The mines Old Ir interested in as manager are ia, Pronsidest K in as manager are
Hill, The VicMhondx, Atna, Gray Fagle, and inf of July, All located in Greenwood a bart town of Phoenix being located Dip. Part of these claims. In White's ines, south of cireenwood about six aterested called Central camp, we are Md Montre the City of Paris, Oregon, Hants intreal. We have compressor bropernd necesion in these two canps, tor, perties are lessary machinery, and the bey to treat are being worked. Our snmeling lotat the ores from these mines, is in opated at Grand Forks and should oleration by the first of March.

## CARIBOO IJ, ACFRS.

The Ciriboo Hydratulic Co. have this year been benching offagain, thence they have been washing down to the sluices overgravel, consequently only a portion of the god reaching the shaices, the bat ance being held back in the gravels intervening. When they connmence to work off to bedrock a great increase in their off to bedro confidently be looked for. output mat for the year, as far as can be The output for the yom, oos

The Conbledick dredge is not yet constructed, Mr. Satchell Clarke, who came here fronn Now Zealand to construet the same, hats gone to the United States to take chatge of the dredging properties there. It is reported that his connection with the Cobbledick Syndicate has been severed.

The Horsefly Gold Mining Co. (Ward's) is an hodranfic elevator proposition, a Miller $\underset{\text { N F Fans clevator being used. }}{ }$ Gravel mased fo fect. Ground very rich in places. Ontput this year $\$ 80,000$; very promising property.

Miocene Company, Senator Camplell, namager, has a $5 \times 15$ foot triple compartment slaft down 475 feet in an old chanmed, ooo feet wide or nore. The shaft nel, r,000 feet witie or more. gold all the has been catry Ir. Cample hopes to strike way down. the bottom and he thinks be good pat ate botom now. Much interest is near manifested in the property and good work is being done.

## GOLDEN NOTES.

Several inportant mining transactions have taken place in this district within the last few months.
The Certainty Gold and Mining ComThe Certaint took up their option for pany, L,d, the Porphyry and Iron Hill \$8ooo cash on the Creek and development Mine on Canyon Creek and pushed on for work had been detior to taking up the over a nouth prior to whe work was option. 'lhe result of this work was to develop a pay-chute of she linew owners ore, four feet in whpping ore blocked out have 300 tonsilt a road ten miles in lengeth and have bunt a from Golden to the mine, by means of which it is intended to ship ore from this property during the winter months, an arrangennent having been made with the Hall Mines Smelter for the treatment of the ore.

The Certainty Company have also a winter camp at work on their property on winter canne where the results of the I5 Mile Creek where the result have been very season's dev
a sensation was recently created at A sensation by the discovery of a large Windernnete oy carbonate ore on Spring body of sand carbonate of Horse-l'hief Creek. Creek, a tributary of Honse-ger of the new W. (.. Mitchell-Innes manager on ened the Golden British Colnmbia, examais ex property with the restlit that annnation and the assays arranged with factory. An option Mr. A. C. Mitchell-Innes, of $\$ 150,000$ London, for the large sum of $f 50$, The develophnent work Mr. Mitchell-Inmes on, and if sathshating able to handle this is confident of being able on the London property
market.
$\mathbf{M r}$ F. F. de Varennes, managing director of the Certainty Company, took an option for $\$ 30,000$ on a copper property on Vermont Creek, and if the examinaon Verninont creek, satisfactory, arrangetion and reports are made to lake up the ments have been made HagGEN, M.E. option.

Many valuable discoveries of antimony have been made between Ashcroft and Lytton. The ore is stibnite, averaging in many cases $5^{\circ}$ per cent antimony From all accounts there would seem to be a warranty, with some further develpment for the installation of a reduction plant in British Columbia. Other districts contain large amounts of the mineral also, as for instance, the East Kootenay. There is at present, as far as we can ascertain, only one antimony reduction company working on the continent, viz., The Chapman Smelting Works, with branches in New York and San Francisco.

## ROSSLAND.

Work has been commenced on the Paris Belle. The claim is well within the city limits at the east end.
The output reached high-water mark last week, over 6,000 tons having bee ${ }^{n}$ sent down to the smelters during the past seven days.

Appended is the detailed statement, approximately, of the camp's output for the week ending November 4 th, and the year to date :-


## BRIDGE RIVER AND LILLOOET DISTRICTS

Mr. R. I. Ward, is taking in a ten Stamp Mill on the Lorne Croup, in Bridge River District. This is a free milling property on which considerable development work has been done, which so far has gone to prove the permanent free milling nature of the rock and also an increase of values with depth. An arastra has beev working on the property and the last clean up for ten days was $\$ 8000$. The Brett Bros. have also been working on McGilveray Creek with similar results. We understand that Mr. R.T. Ward is putting in the mill for a one-third interest in the property. Several other properties are reported as showing up well, as far as work goes. The great drawback to the district is the want of proper roads, and a petition is being made to the government in this respect. We hope Colonel Rives will be successful in his working of the Golden Cache property with cyanide treatment, cache prop will considerably help the district should he do so.
The Bend d'Or is turning out well, and at a recent meeting of the Company, the following statements were made public:

To cost of mining, from Aug. 23rd., to Oct. 3 Ist, inclusive ; $\$ 2843.50$; To cost of milling 1082 tons, and expenses in mill, from Ang. 23 rd. to Oct. 31 st, inclusive, $\$ 1326.00$. Powler, fuse, caps, etc., $\$ 770.00$ $\$ 1326.00$, 9.2 Estimate $\$ 34.00$ : Balance profits bus. per diem, $\$ 34$ Oct. 3 rst. $\$ 16,868$.oo. Total. $\$ 21,24^{1.78}$.

By proceeds of clean-up, Sept. 6th. $\$ 6,358.00$; Oct. 5th. $\$ 7,692.40$; Oct. 3oth. $\$ 7,191.38$; Total. $\$ 21,24 \mathrm{I} .78$. This speaks
for itself.

November. Ten stamps, twenty-four days and thirty-five minutes, 455 tons, 277.83 , oz. gold. This was the trial of a new vein struck on Oct. 3oth, average $\$ 10$ der ton. The vein is double the width of that originally worked on.

## ATHABASCA GOLI MINING COMPANY, LTD.

The secretary has forwarded to us the particulars of the November mill run, as ollows:-
Number of days run 29 and 3 hours.
Value of bushed, 378.
Galue of bullion recovered ...... $\$ 9,20303$ 2,385 25
$\$ 11,588 \quad 28$
Value of bullion recovered per
ton of
ton of ore crushed.
Gross value of concentrates $\mathbf{p e r} 2572$ ton of ore crushed...... per Total values recovered per ton of
ore crushed .............
2986
E. Nelson Feli, Manager.

Slocan shipments over the Kaslo and Slocan Railway for November were$544,220 \mathrm{lbs}$. of silver-lead, valued at \$18,56I, exported from Kaslo.

## KI.ONDIKE.

Mr. Williams, owner of 35 Hunker Creek, below Discovery, informs us that he is working his Hunker Creek property very successfilly. He has taken out as high as 95 oz . per day, 30 oz . being the lowest. Major Laing, in company with other experts, panned out during a day on 35 an average of $\$ 1.95$ per dish, of Williams has on the paystreak. Mr. Williams has bought some residental property in Vancouver and returns to the Klondike in the spring. He has the that when machines are more and thinks used the output will be more generally used the output will be enormously increased. In the past men have gone in inadequately supplied with cash and have of instances men totally and in numbers of instances men totally unsuited to conditions there, both as regards physique and character-the "ne'er-do-wells" of have found their level and these men benefitted by their absend the district is to make themselves usef. Men willing to make themselves useful there are alThese in demand at from a dollar per hour. they apply to the benefe brains, which and to the country benefit of themselves that are wanted in These are the factors do well-better, in fact. than elsewh they

## Jinance.

London, Dec., 1899
A most important new company was floated here last month under the name of It is a creation of Chd Soda Co., Limited. a result of the conquestick $\&$ Co., and is a conquest which has opened dervishes, territory to British commercial wonderful The new issue acquires most or all of salt and soda producing agencies in

Egypt, and 'has a capital of $\$ 1,50,0000$. It will greatly extend and develop the industry, and has been received with enthusiasm by home investors.

The largest recently limited liability issue is $R$. White \& Sons, Ltd., the famous manufacturer of summer and winter non-intoxicating beverages. Besides turning out the well-known lemonarle, ginge beer, etc. Whites make a large number of peculiar patent drinks; Kola, Kops ale, Hop ale, etc., which have a very wide sale amongst the working and lower middle classes. The profits for last year were $\$ 555,745$. The capital of the new company is four million dollars. This firm has been and is a most gigantic advertiser, and it has found publicity pay even in a trade with new and peculiar
drinks.

Numerous other new issues are out, and altogether the promoting world is as busy as it enjoys being. For a long time there has been a depression in cong timection with the flotation of new joint stock enterprises, but the war amongst others of its curious results seems to have others of
moving briskly doubt a lot lies in thesperously. No confidence lies in the enthusiasm and "hands off everybody", the determined hands off everybody "' sort of expression

## - •

Canadian Pacific is practically unchanged, closing to day at the same figure as last week, namely 95 . The fluctuations in the stock have been very narrow, and a most unusual occurrence was the absence yesterday of the stock from the list of sales, not one transaction having taken place during the day.
C. P. R. net profits for October were announced yesterday, and show an increase as compared with the same month of last year of $\$ 55,170$. The increase in the net profits for the ten monthe of thin year to the end of October is $\$ 1$ of this year to the end of October is $\$ 1,456,196$, or at the rate of over $21 / 2$ per cent. per was earned last year.

Trade is booming in spite of the war. As compared with October of last year. cent exports show an increase of 17 per cent., and imports $141 / 4$ per cent. Of tracted, but everywhican trade is contracted, but everywhere else there is
expansion.

Banking business is evidently flourishing, and the policy of expansion is being
pushed on all sides pushed on all sides. The London City and Midland Bank is opening four or five more local branches, and the I,ondon five example of banking prosperit; another Bank, Limited. In i 889 it is Lloyd's million dollars of the pubs it held $821 / 2$ to-day it holds over 206 millions money; is one of the oldest banks existingyds dates right back to one Hus existing. It who, in 1677 , occupied Humphrey Stocks, street, made plate ford a shop in Lombard handed down his sign, a black Pys. and the bank. A curious, a black horse, to where one of curious point is that just stands stood old Edank's entrances now house, from whence Lloyds' coffee underwriter. whence sprang Lloyds'

An interesting marginal note to the the the Transvaal war is in connection with rise in the shares of the land compap located over the Vaal. For exaple Oceanas have risen within a coupreth weeks from par to over $13 / 4$. These ${ }^{\text {ast }}$. $\mathfrak{d}$ shares that some years ago ran at las to 27 before the boom broke-this digious rise being consequent upon ace ${ }^{a^{11}}$ idea that got round that the or forl Company's land covered three or new Rands.

The principal public flotation in Lo $^{1{ }^{18}}$ lon during the past week has been Colt Gun end Carriage Company, a The Lancashire Finance Conpan putting this particularly up-to-date prop cern on the market, and the prop, capital is $\$ 2,500,000$ in $\$ 5$ shares. object of the issue is to purchase work fifty-two patents covering the ${ }^{\text {a }}$ of the Colt automatic gun in Europonald also the use of the Earl of Dundonsel" gun and ammunition carriage. nour Blane and Admiral Leicester b , pel are on the directorate, and bring of ${ }^{W}$ them a guarantee of the efficiency articles patented. The United used the Colt gun on Spain, and $\mathrm{E}^{\mathrm{i}} \mathrm{g}^{\mathfrak{a}}$ is to use it against the Boers.

Another big venture, but this time concerned with the peaceful industry, is the new combine facturers of machinery for texting, combing, spinning textile purposes. Covering a large tion of the West Riding of Yor ${ }^{15}$ the trust has a share capital of $\$ 85^{\circ}$, and an issue of 4 per cent. stock equal to another $\$ 60.000$. North of Fingland industries are rap concentrating into fewer and fewer especially as regards managenent.

The intensified trading in copper has been the result for the best part year uow of the attempt to corne world's supply on the part of Ame is operators is the chief reason of the isto of on important little book on the nist ${ }^{4}{ }^{4}$ ll and territorial location of copper. Brown and C. C. Turnbull, have orated in the anthorship. that from 180 to 1850 the price metal went down, ending by being $\$ 440$ per ton for "tough' that is, $p$ ally pure copper. It had been double this price when the cound opened. This alteration in price ${ }^{\text {pel }}$ been accompanied by a greatly acd ated production rising from nine tho ${ }^{\text {and }}$, in tons per year at first to twenty thousand about 1850 .

*     *         * 

The second half of the century down to 1898 witnessed a further dec in price to just under $\$ 25^{\circ}$ per ton, an increase in production to nearly Aundred thousand tons in the last line A temporary check to the decine ${ }^{\text {diad }}$ price was exercised whilst the Associa ${ }^{\text {coper }}$ Copper Sinelters of Swansea were ano ${ }^{\text {a }}$ dy monopolize the smelting. This monoduc of smelting was broken by the intro $A$. tion of smelting at the mines and th C. S. disappeared. The Secretall attenp later was a failure. The present attg ${ }^{0}$ at cornering is only an embarras of success so far.
${ }^{0}{ }^{0}$ the ${ }^{\text {points }}$ to Stock Exchange, everything Ophts to another boomange, everything
Merater Rodesians.
 Whif m, especially the Westralian. The highes, for inget is also fourishing, Rand ighest point instance standing at 43/14, the With. It is reached for the past yield twaterstrand reckoned now that the nield $\$ 3,500,000,000$. and deep levels will

## LONDON STOCK EXCHANGE.

## from b. c. review.

but Baring rate to 6 per cent. but happily crisis of nine years tend none of the dangent situation rendered the dangerous elements money is forced now upon the marbecause forced now upon the mar-
oyin and commerce are lother the resources usually available reserves direction. Certainly our metgreater have been reduced to a level , but the caution is necessary than al and it itflow of gold has been tates how now possible that the attract the obtainable in London in South Africious metal. The aitaricesth Africa, while stopping but aggravated quarter, has unStock if lower prices are the rule, losophically enange is taking events h Railroads, and American and CanBalti power partiplore and A remarkable advance rbilt to extensive buying by the Vanthy interests in thes Hill, in conjunction
Afall in Le Roi is the feature of the $B$. depart Le Roi is the feature of the $B$.
Selling of these shares veny be explained as a sympathetic terests. With other London and Globe int contraction weekly output showed We thaction, but this is not a attach ink, to which the public much lar importance, considering herally ly to becon before the output he rally has become. The tendency within principal descriptions have ered Hall fractions of their former figlet 1 at at 5 s., and thave, however, been kes remain the quotation for Ben-
C. AND KLONDIKE QUOTATIONS.
${ }^{4}{ }^{4}$ ask

## heabaskidfields, 1. <br> Brithish Lake.

C. Demerica CorpondikeNav. 2s. 6d. - Developmentorporation. 19s. 6 d .
and New Find Assoct. $13 / 4$
A hion Mining Goldfields, 58
, ${ }^{2}$ ney Mining Development
and
tal Minines, 1 and $x / s$
k Mondikes, 5 s .
Klondikes, $5 s$.
10 ndive
rerdike Minanza, 3/4
(illoit 5 and $/ 7 /$. Trading, \&c. $3 / 8$
Whatd, Fraser.
$M D_{0}$ and $B$ R. \& Cariboo 6 s.

fue Golds Bolds onza, I.
onc Bess Proprietary, 1 and $5 / 2$.
$V_{\text {el }}$.
White, $1 / 2$ and B. C., Gen. Ex. 12s. 6d.

Goldfields, 1 and $1 / 2$.
old Mines. I and

## RECENT REGISTRATIONS.

The Scots-Canadian Mining and Developing Syndicate (Glasgow).
Objects: to acquire and work a group of mineral claims in British Colnmbia. Capital, $\notin \mathrm{r} 5,000$, in shares of $\notin \mathrm{r}$ each.

L,OCAL STOCK MARKET.


Latest Points.-Bank Rate, 6 per cent Open market rate three months bank bills, $5 \frac{5 / 6}{}$ per cent. Sllver, $271 / 2 \mathrm{~d}$. per oz., (bar) standard. Copper, 6.74 per ton. Pig iron, 69s. 7d. Tin, $\not \subset 126$. Lead, $£ 17.15 s$. Consols, $103 / 8$. Canada. Three - and-a Half per Cent., 106. British Three - and-a Hree per Cent., inscribed sock, Columbia Three peific Railway shares, $971 / 2$. 95, Canada Pacific Rank of British Columbia, $171 / 2$. Bank of Bank of North America, 6I Bank of Montreal, 523. Hudson's Bay, 21 1/4.

## LATEST FINANCIAL NOTES.

NEW YORK, Dec. 18 .
Panic conditions developed on the Stock Exchange to-day, with the imperative need of money caused by the violent contraction of values. Stocks were thrown over without the slightest regard to the prices they would bring, and at a distresprices they would values. No end to the sing sacrifice of values. No end to the situation seemed in helplessness of the situation seem of the sight, when in the last half-hour of the market, some $\$ 10,000,000$ was offerted acStock Exchange, by the concerte force tion of Clearing House banks to cont. prices arbitrarily down to 6 per cent. without regard to the distracted bidene by at higher rates, which was being distressed operations. other brokers in the money rate checked the decline and drove the "bears" to the decline and Before the concerted relief by the Clearing House banks, the money rate
leaped to 50.70 , 100, and, according to the official records, 25 per cent. Credible reports assert that 186 per cent. was paid for money during the day. The official record of such a transaction was lost in tho excitement.
Money on call 8 to 125 per cent. Prime mercantile paper, $51 / 2$ to 6 per cent.

Montreal, Dec.i8.
While there was nothing approaching the proportions of a panic in the stock market this morning, the lowest range of values during the year attained in London, depressed Canadian Pacific, while New York did the same for others, and many local brokers, involved in Wall St. were compelled to sacrifice some local stocks to make good their losses there. Montreal Street Railway dropped twenty points to 290 ; Toronto Street Railway dropped to 102, and Royal Electric slumped 6 points, while in the mining Payne dropped to 97 cents, War Eagle to $\$ 2.50$ and Republic to 95 cents.

## Tbe Inetal תibarket.

Silver.-The market has been steady and dull, showing only small fractional changes during the week and closing at $263 / 4 \mathrm{~d}$, in London,

Copper.-Prices remain unchanged from those quoted last week. Lake copper, $18 \frac{1}{2}$ c. Electrolytic in cakes, copper, $18 / 2 \mathrm{c}$. wirebars and ingots, Casting copper, thode, $163 / 4$ a $16 / 8$ foreign market is 17c. nominal. still dominated and Transvaal. London tween England and Transvaa, 8 , is quoted, English tough, 67815 s . © 6795 s . Best selected, 6805 s . © $£ 8015 \mathrm{~s}$. India sheets, 683 (a) $\not \subset 83$ 1os,
Lead continues in good demand and no change in prices. New Xork being quoted at 4.55 c . © 4.60 c . The foreign market has been irregular but the tendency is upwards. Spot is quoted at $\bigotimes_{1517 s}$ @ 16l.2s.6d. for Spanish. and ל16 5s.@16l.7s.6d. for English, while futures are at a discount of 5 s . to los.
SPETER.-The disquieting news from the ore-fields stirred up consumers and a good business has resulted at stiffening prices, New York is quoted at 5.45 @ 5.50. The foreign market is also firmer, figher good qualities being quoted at 22l. 12s. 6d. Specials 22l. 175. 6d.

## AVERAGE PRICE OF METALS.

In New York per ioo lbs. from January 1st. 1899:-

| uary ist. | Copper | Tin | Lead |
| :---: | :---: | :---: | :---: |
| Month | Copper | 22.48 | 4.18 |
| January | 18.50 | 24.20 | 4.49 |
| March. | . 17.54 | 23.82 | 4.37 - |
| April. | . 18.03 | 24.98 25.76 | 4.44 |
| May. | 18.25 17.93 | 25.85 | $4.42{ }^{1 / 2}$ |
| June | . 18.33 | 29.63 | 4.52 |
| August | .18.50 | 31.53 32.74 | 4.57 4.58 |
| September | 18.46 | 32.74 |  |
| October | 18.00 |  | 4.60 |
| November. | 17.00 |  | 4.60 |

## Answers to Correspondents.

Johnston, Leeds,-Cannot advise you o put a penuy in. The basis of the proposition is entirely at variance with known facts.
Souton,-Yes; Klondike has given an impetus to Vancouver. We cannot say
that its inhabitants generally show the elements necessary to success as a mining people. They lack the enterprise which is indispensable under the conditions existing. The fact is, that, with one or two exceptions, the so-called representative business men are men of straw, carried either by eastern firms, or the banks Hence you will understand the position and why it is that outside capital can be utilized to advantage io the right direction and in the right hands.

Srock.-(I) The share market is limited. (2) 3-16 about.
J. White, Eng.-(I) We will endeavor to let you have particulars. (2) Why not call at the London office and ascertain.
African.-(i) Some sixteen years residence in B. C. should enable us to speak with authority re the matter you refer to. (2) You are probably correct and we can bear you out, no matter what the agency you quote avers to the contrary. (3) Yes, In England it would be decidedly actionable and heavy damages would result.

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