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## REPORT

ON
Blocking off Land along the
Railway Line
ALSO
Mineral Statistics for Current Year

By JAMES P. HOWLEY, F.G.S., for the Year 1898


ST. JOHN'S, N.F.
Robinson \& Company, Limited, Press.

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## Name of Specimen．

L．ow Nhty of Mine

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11 Coppur lyittes，Green ore and
Copper ingot ．．．．．．．．．．．．．Tilt cove a． 1 little biay
15，Gialron ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．aver Manth．Mine


Tlit Cove，Labrador
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A．Wrestos．Agnimatolite
Hurf Henil and lox Tray
（irand lake \＆Bay St．Georgo
21）Three（：3）thoeks of rough dress．
－1 Three（3）hocks of rougl iress．
（e）sranite ．．．．．．．．．．．．．．．
phottes．Shomallir and Turra Nova
Gaultols，l＇attes and Tarra Nova．
Se Four（4）blocks of rough dress． ed erante

Rese Btanche．Cambo，llare 1 ：
and Petitns

3：Onc（1）bloek Var．Pollshed Marble
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？s coal from $3 \mathrm{ft} ., 8 \mathrm{ft}$ and 13 ft ．
eg Coal from Jukes＇．Murray， Howley and Shears＇seams
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liay St Gearpe ＇kajGrand Lake
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11 leeroleum，hed and Yellow Orhre，Red Granite and Sye－ nits bocks

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：if One（1）block White Pine
ain，ine（1）block Red Pine
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Tht Cove Ofl ：：and．Forture Bay，Laty ：Aht Fing，latam
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other nations, ate. In ackumbenging the letter. surb figmes of
 hat thees. I regret to saly. were of al megrer deseription. I would here herg to draw attention to the fact that there is mose of the Lacrivature making it compulany men thone engarel in mining pursuits to furmish details of their oprations or ontput, sum as wists in all other mining rewions. nor is there any anthority restine with ally persm to collert such tatisties. For some vears past I


 thanks are mow temberel. Fortmately. only last spring I had the
 the May momber of the ('amatian Wining lectien.

In preparing this paper exere effort was made to ohtain the
 of mining in the comatry. 'To Mr. Beatty, of Pilley's lalamb, amt Mr. Williams al 'Tilt Corr. I am mond imdetod for the full and ar-
 took the tromble to semela hack ammerst the books of the former eompany and :mply me with data of the carlier yars operatioms.

 arouracy bet publishad.

A comparivon ol some of the figures, as arion helow: with
 comere some idea of the imutility of the lattor lor arrimg at comred comblusions with rederd to mur mineral wealth.
('ompinitive Retches of Minerish.


## FIELD WORK,

In July Iast, as you are aware, when it was domed to erommenee the Wocking of of the lambs along the line of laidway, in aceordaner with the new Contract. and for the purpese of facilitatmot the selection of the said lands. I was apponted to sipprintent the work. A plan was prepared and submitted to dhe Government for approval. showing what was demed the hest mothod of carrymer out the provisions of the Contract. It was propered that all lands borde rine on the line of Railway be heneked ofl is eneaty as possible 10 conformaty with ite general trend. hat at tite sime time. athd in urder to avoil subsequent confusion, wery hant ins to be Immoded liy true North. South, East and West hnes. A- difereat pertions of the Railway assume entirely diferent emoree. it was fommed hest to separate it into three main divisions of hearty apaid hemeths. Whidh, for ennemiene, were alled the Eastern, fie trat and Wertern sertions. The first, bermaing at Hall: Hay jumcthon, extends to Gambe River. The second from thenere the the month of the Humber, and the thard from Bay of $\mathbf{i}$.lan! to Port-amx-Basques. 'The remeral trend of the first and last evetions approaches more nearly a Northerly and southerly direston than
any other, consedpontly the lands along pach were to be bounded hy true East and Wies lines, while the trend of the Contrat sertion beine more nearty Easterty and Westerly, trur North and Som th lines were fomme bext adapted to this sertion.

At first it was contemplated rmming out all the lines to the full extent of ten mites on rither side of the track, where the land area wonld permit of toine so, bit this idea was subsequently modified, and it was decided for the present to traverse the railway track and distinctly mark the motersections of every mile hork with posts driven into the grombt on either side of the right of way, which poste were alse to imlicate the direetion of the lomndary lines. At every fifth mile interseetion a more permanent mark or hul was to be inserted in the erentre of the roal-bed, and marked with a cross-headed uron spike on the top. These were to serve as fixed points, from which a departure conld at any time be taken if required to run out any of the hines, or to estalulish the position of any point of inters: or importance in the vicinity.

The sritem having horen approwed of ly the fowernment. Hesers. White and Noel were given charge of the fiehl work, and instribeted to proced with the survey forthwith. Written intractions and trachuss showing the proposed sytem were furnishol sach for their ghidance.

Mr. A. Whate was havedet tommence at Port-anx-Basques. Western termims, and from thene work northerly along the Railway toward: Bay st. George. Mr. Noel's instractions were to take his starting fenat at the moterseretion of the Little Barachois
 bay of hatals. Finch in turn, hatme fimished his section, wouht mowe on ahead, amb make a new Aleparture from some well defined print on the line.

Buth partise prowered be mil to their respertion destinations. hat $\quad$ bwase to the abdener of regular freight arrangements in the "arly part of the season, it was derided to semb their provisions and
 and myedf abon took pasalge he her. We met Whitos party at Portalux-Basques. where all their stores were lameded, and at sands Point we fomme Noel amb party awaitme us. With as hittle thehy as pessible. the remainter of the out fit was landed and transported
ly hat ane me to the Main titit. at the hem of the Bay, where our first amp was pitched.

Before tarther work hore, Mr. Now and myelf took separate


 ballation of :30 $83^{\prime}$. Which was subicumently confirmed by a third



 ins- whinet. I left him th prosulnte his traverse along the railway trark northward.

In the meantime. two men wh the neinhbremod were hired to arompally. Mr. Thothurn and myerli in an exploration of those pate of the a jainent muntry wot finly examined previonsly. The land: in the immeliate vielinty of the track heing tirst inspented, we then matc at ex-ursion up combtry from the head of the extuary of the Matin liver, hy mentic of a stream known as Bottom Brom. 'This dine strem mabled ns to pelletrate, with eanoe, a
 wh the eomitry lyine hetwon its waters and those flowing into the wrotorn eme of the orand Lake.

On mir retnrn to the coast we moved to Seal Rocks and examined the comotry wh lke sonth side of Flat Bay. We next proandenl hy train to Middle bamohois liver. and made a simitar examination alomiz the track in "alch direction. Here we met White's party arain, comine my from lort-anx-basques. They hat romfleted thoir traveras to ('rabls: Brook, making rapid progress, and


Whale in this viemity the opportmity was availed of to take a finther took at the cail seathe mowered in-1889, some ten miles "1, comatry and also to explure and survey some of the tributary
 wr fombl them completely whiterated by landslides and debris fatlen from the clits abore, su moll so. indeed, that withont a previnus knowlentere of their whe"e.ahomts whe might pass along entirely minspurions of their existeme Noi a restige of them could he
well, exept at one point, where, after some considerable lalwe, we were able to uncower a part of the Jukes' seam.

On again reachiug the railway track wr moved to Fishel's River, and examiued the rometry in this vicanity. An excmrsion was made inland over the Long Range Monntains, taking in : wide range of eomutry between Fishel's and Flat Bay Wiaters. brimering us ont again near Cairn Momatain, and thenee hack to Sal laorks.

In the mealtime White's party, having eompleted their traverse up to where Noel commencell, had moved on to Grand Laki aud taken up a new section, commencing at Junction lrook.

Our provisions now rumning low we had to seml for a further supply, and go on to lay of Islands to await their arrival from St. John's.

During the delay here I proceeded on font to Derer Lake. where Nocl's party were then encamped. I foumd them !eroeressing most farorally with their work, whieh was faithfully performinl throughout.

Hasing ohtained our fresh supplies we went back by traill to St. (icorere's I'oul, where a cousiderable time was spent in an examination of the surromuling cometry. Those portions towards the morth and west not having hitherto received much attention were now traversed in several directions. Portious of the Lewis and Bho-mi-don ranges were also iucluded, and a visit paid to the York Harbor Copper Mines.

The remainder of the season was devoted to a further examination of the roal areas of the Grand Lake region, aud an inserction of the coal mining operations now being conducted by the Messrs. Reid at Coal and Goose Brooks.

Mr. White, haviug eompleted his serond sertion to Joe (iloadi: Pond, (now Millertowu Junction), was employed surveying a line of road to connect White Bay with the railway uear Sandy Lake liver. Noel, having also completed his second seetion, had commeneed a third between Gload's Pond and Norris' Arm, and was now working lown the Exploits Valley. Subsequently both parties took up another section each, Noel working from Gambo to Clode sumbl and White from the latter plae to Come-hy-Clanee.

That portion of the country lying hetween Norris' Arm aul

Gamlo having been previously surveyed, the hocking off of the land along the entire line of railway from Port-aux-Basques to Come-hy-Chance is now completed. The total number of nile blocks laid off amounts to three humlred and eighteen (318), but the actual traverse of the line is cousiderahly more, the measurements of the past season alone theing three hundred and ninety-four (394) miles.

I have the honor to he, Sir,
Your oledient servant,
JAMES P. HOWLEY.

Report on the Mineral Development and Statistics of Newfoundland for the Year ending December 31st, 1898. THOMAS C. DUDER, Esq.,

Minister of Agriculture and Mines.
Sir,-In view of the rapidly growing importance of the mineral development of the country, the time seems to have arrived when it would be a matter of great public interest to have a regular and reliable annual record of the niming statisties kept for general information.

The placing of an intelligent and satisfactory review of this important industry before the world at large each year could searecly fail to have a bencficial result, and to draw attention, such as actual figures are lest enlculated to do, to the mineral possibilities of the country.

I had previously made several attempts to get at the facts with regard to this branch of industry in the past, and had inet with a fair amount of suceess, but not heing fortified with the necessary autl:ority to demand information from those engaged in mining. pli:suits, I had to depend entirely upon the courtesy of those par ies which, in most cases, was freely extended to me. Still a certain amount of reluctanee or indifference on the part of a few made it all but impossible to ohtain full and acmrate figures in every case.

Upon presenting to the Government the importance of such statisties, and the difficulties binder existing eircumstances of collecting the necessary data, ete., I am now happy to inform yon
the is to milu bint ure four
that he a commmiration received from the IIon. Colonial Secrer! of dute Fehruary 3 ral , 18:9, my request to be authorized by the Government to collect and arrange such information has reenced their sanction. Since then I have used every effort to eet at the most correct and reliable figures possible.

There are many difficulties, however, still to be overeome heforre ill $a^{\prime}$;olutely satisfactory statement can he promed. Nothing :hort of al personal visit and inspertion of each mining locality and the obtaining of direct information on the spot, during the working ramorn. wombl, it appears to me, acomplish the desired result.

In previons: publications on this subject recourse was had to -Hilh roturns as were purblisied in the Customs: Blue Book or the Cinr Buok of Newfomdland, etc., but these were sulsequently found to be unrelialle.

In $18: 12$, in a panplilet entitled "The Mineral Resources of Newfommilam," I male the first attempt at presenting to the public. statistical figures of this important industry, depending almost "utircly non the above mentioned sources of information. Subsefurntly an anpeal was made to the mine managers and those interested in the mineral development for more direet information with frool results. A much more satisfactory statement was producel and pullished in the May number of the Canadian Mining lieriew for 18:38. This, with the information obtained latterly, "hablic: me now to present the fullest and most complete returns wer vet plared before the publie on this head, as the accompanying rables will attest.

It may he necessary to state, that in the following tables the ithir ton of 2240 pounds is used throughout, except where otherwise tatril. The value of the ores are chiefly only approximate, hut wherever pessible the correct figures are given. The ealendar year (ombing on Demember 31st, 18!)8, is used instead of the fiseal year, because the information obtained referred thereto, and it was not feasille to arrive at the proper proportions of the shipments for the year ending June 30th.

The mining people, as a rule, make up their returns extending wer the whole shipping year, so that I could not expeet them to take all the trouble to divide up their yearly output and furnish returns including the last half of one year and the first half of another

## 14 GEOLOGICAL SURVEY OF NEWFOUNDLAND.

With regarl to the diseoveries and development of the pant rear, the information given is derived chiefly from those parties angagel in mining whose statements may be considered reliable; my thanks are esperin!ly due to the following gentlenen:-Mr. Wilians: unnayer of the Tilt Cove copper mine: Mr. Beatty, manusur of Pilley's Island purites mine; Captain Toms, of Little Buy mine: li. F. Chambers, M.E., manager of the Bell Island mine: Hon. P. Clenry, proprietor of Sunday Cove Ishand mine; Mr. John Currie. of Wilton Grove slate quarry; the Messrs. Reid, John Browning, R. Remlell, Thomas Cook, R. Sleater, P. Molden: and to Mr. J. C. Lenver, Secretary of the Cape Copper Co.: and Mr. Rothwell. Filitor of the Mining Industry, New York. From these and other sources an amount of valuable information has: heell gathered which, when properly formulated, cannot fail to lee of interest.

In this commection, if I might offer a suggestion, I think it would be advisalile in the future, should the publication of annual Mining Statisties be approved of, to have a set of printed blank forms prepared to be furmished to parties engaged in mining p irsuits, with a request to have them filled in and returned to the Ihpritment.
'These hank forms might be arranged somewhat as follows:NO. I.
Mines and Minebals Statistics.

| Name of Mine <br> and Char. <br> of Product | Quantity <br> of Ore <br> Raised | Manuf'd <br> or used <br> in <br> conntry | To What Market |
| :---: | :---: | :---: | :---: |$|$| Value of |
| :---: |
| Crude <br> Material <br> at Mine |

NO. II.
Numbeif of Peisons Employed in ani About Mine.

| Alove Ground | Below Ground | Totals |
| :--- | :--- | :--- |
|  |  |  |








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 intorested in this whture, informs me that thoir mumal motput to

 some bew and expensive phat this season and expert, if ciremmsta. as powe favoralile. to prolno at leat ane million brick.

The manfarture of brick is the only imlnatry as yet establish-


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 duct of the mine where salue (1) the world at harere outweigho that of this conamonhater material. The value of the day alded day pro-
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 pertunce and value to that of froll, silver athel ceat.

## Building Stone, etc.

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(iranites and maniond rowse of minnte variety of color and














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## Iron ()rr.






















of Bell Island. It is to be hoped this information, also, is correci, and that the coming summer may witness still another iron mine opened, which should afford quite a lot of employment for ons: people.

In the IDistrict of Bay-de-Verle last year, prosperting for iron was proseented with vigor, and resulted in the applieation for liemses of search coverime ahmost the entire area of the peninsinla Wetween Conception and Trinity Bays.

The "Newfondland Iron Ore Company, Limited," having acenired the leasehold of some fonrteen square miles of this territory in comsentive order, throngh the entire length of which the rontinuity of the main hematite lode of the district is said to have heol proven by means of shafts and trial pits, and commenced last rear to prepare for artive mining operations. A main shaft was sunk vertically at Workington, near Lower Island Cove, to a depth of one handred and twenty (120) feet, which is expected to intersert the lode at about 200 feet below the surface. In all, seven holes have hem sunk at intervals along the lode, ranging from forty ( 10 ) to one hundred and twenty (120) feet in depth, and it is reported that some four humbed (100) tons of ore have been raiserd to the surface, aud about half a million $(500,000)$ tons are salid to be in sight (?). The ore is a red hematite, of a higher wrade than that of Bell Island, and freer from injurious ingredicuts, such as sulphur and phosphorus. The Company have built a railroad from Workington to Old Perliean in Trinity Bay. seven ( $\mathfrak{i}$ ) miles in extent, and at the latter place constructed a smbstantial loading wharf, so that everything will be in readiness to ship ore the coming season.

Another Company, kiown as the "('oltuess Company." has: just leased a second area of nineteen (19) square miles in tho same district, near the Ochre Pits, said to rever the contimmation westward of the same deposit of ore.

Sowral other diseoveries of iron ore and a few attempts to open them 1 p were made during 1898. The Messrs. Reid commenced work upon a deposit of hematite near the (irand Fialls of the Exploits River, and took out abont one hmolred (100) tons: of ore. I am not in possession of the facts as regards the extent or thickness of this deposit. Mr. William Cook struck some porkets
"f' a rich hematite at his maneanes mine. Fortme Iarbor, Notre Whan Bay: Mr. Roluret hendell had some men at work on another somewhat similar deposit of homatite in White Bay. The value or "therwise wi these latter fimb has int to be estahlished ly actual expriment. So far at the ores are concerned, all the speeimens
 per cent. ill metallic iron.
 and winter by the disomery of iron ores at several points on the woth side of Lomatista bay. and a comsegnent rosh for lieenses of

() ther fints of iron ores both in this Istand and on the Lahradow were rummed hat fear. hut mothing reliahle combld he obtained res arding thes latter. They all orwo. howere, to emphasize the
 a 5 :rat . mure of Weath and rmployment for the peope in the futhre. 'The admatase of our proximity to the prineipal markets of the word domblerem ireatly in our favor in this respect.

## Man!fances.

Some work was done daring the smmer at Fortune ITarlor hy Ihr. Willian Conk on the manganiferoms irom deposit in that lowality. hat un shiment of wre was made. So far as I ean learn
 ket, and 1 amb mathe to tind what dispmas was made of it.

## Petroleum.

There was mo wotk thue wither at Parsoms' Pond or st. Panl's. on the N. $\mathbb{I}$. Cumst. last year in the way of further developing the wit reariom there.

Nequtiations were pellditur as rarame the former property whth in Vaglish simbliate. Which were finalized during the past winter, and it is understond the work of testing the property will asm be resmmet. with a mure thorough equipment, when it is ronfident! hoped by the Nowfomdland Oil Company that the results: will fulty come inf to their experetations. Mr. Andrews, of st. Ntemels. N. R., did a comsiderable amomen ol prospecting and loriter for permbem at the Midalle or shorl Point of Port-anPort Bay during the smmar months. Four hore holes were pat
down to varying depthe. curll of which whe imblations of oil. It has leen stated that quantities pumperd from theree wells indiatent a probmble yidel of 20 larrels per diem ( $\because$ ). I sammot round for these reports, as I had mo opportmity of cither visiting the spot an of acrguiring definite information of the work performed. cete. . A the formation is identical with that of Parsons: Pond, amd tha quality of the petrolenm quite similar, there serms reatom for the ophion that the ofluer emblitions are likely to prowe prette simitar also. I am informed extensise horing operations will be eondeted in this fied the coming seasom.

## Pyrites.

 ore, amominge to $: 82,35 \mathrm{~s}$ toms, all of which went to the Cnited States market.

A new pyrites mine was opened at Middle Arm, Bay of 1 slands by the Messrs. Reid last year, which gives promise of hecoming a large producer ere lomg. Alout 200 tome of ore high in sulphar were minel, hut mone has heen shipped away as yet. Snother deposit which hooks favorable for development was disonered near York Harbor, Bay of I Sands, on the foot hills of the Blomidon Mountain Range.

## Slate.

The slate industry of Trinity Bay is not. I rearet to saly, in as flomrishing a condition as the molonited excellent quality of the raw material and the facilities for operating the quarries in Smith: sound should warrant. V!r. John ('urrice. who is now the only persom empared in the manufarture of shate, informs me that there is an unlimited supply of tirat dase material avalable. but it Would require a large cappital and aresers to foreign market- to make a dood prying husines of it. Mr. ('urric can only lime a lecal demand for some 300 squates per anmum. valued at alont

 of slate for rouling and other purposes and the fact that in the United states this trake is erowing lapill! in importane owing to ann incransed export, it dones seem al pity that our slate cammot be turned to better acomint. sio fin as: 1 ,an learn nome of the ma-
terial used in the United States is of better quality than that of Trinity lay, which in point of excellence ranks fully up to the standard of the far-famed Carnarven slate. It is very proluble, alio. that it is situated in exactly the same geological horizon as the latter.

## Miscellineous.

Under this heading a few notes referring more partieularly to ores mentioned in Table II., hut not operated last yoar, may be of interest.

## Antimony.

A visit to the antimony mine at Moreton's Marbor last ipringr, and a close examination of the property convinced me that it was a valuable deposit. The census returns for 1891 give 80 tons of ore vahed at $\$ 6,100$, whereas the Customs returns only show a value of $\$ 1,000$ for the same year and $\$ 1,200$ for the year previous ( $18: 10$ ), or a total of $\$ 2,200$. These are the only figures I could prowure, and they are evidently not much to be relied upon. While at the mine last year I was informed that about 150 tons of ore had ben shipped therefrom altogether, and some eight or ten tons were then on the gromul in a dump near the entrance to the main drift and at the imer end of the same drift.

## Arsenical Pyrites.

Only one small lot of 125 tons was shipped in a schooner from Stewart's mine, Moreton's Marhor, in 1897, to some part of Nova Sootia, but I am told no return was ever made, as the purchaser of the ore declared incolvent about that time .

## Asbestos.

In 18:0 the Customs returns jut a value of $\$ 2,000$ upon some ample hars of aslestos sent to England, but the owner of the material, Captain Cleary, has not, su far, realized anything from this shipment

## Gypsum.

Considering the immense deposits of this material in the country, surrounding St. George's Bay and the Codroys, it is rather strange it has not been util eed to better advantage. Large quantites of sypsum are mined and shipped every year from Nova Scotia, Cane Breton and the Magdalen Islands to the United





 time.

## Litirudorite.


 quarry it and introdnee it inte the Ameriann matket. Fevedenty the experimedt did not prowe remmeratise at they have not eons-
 are responsilhle for ewoliting them with a shipment of $\$ 100$ worth.

## L.and.

Nothing has been dome of late in the development of our welena deposits, and 1 can only find the small simm of $\$ 200$, in 18.513 . credited to this mineral. From whence the shipment wat mate or what


 ed out. and did a little prosperting work there. hat mothing hater far come of it. Mr. li. Lemdell has some men at work on it walena
 rugimose quart\% rein, in combination with copper and iron protes.
 wi mold.

## lime.

There are un returns wither of linte-stone qualriad or lime
 That gear, it appeats, some 13.500 boshels of lime vahed at \$8, ,610, Were mamufactured in or hear st. Johns. it is well known that for a ereat namber of yars lime has heren rexulaty hmont at there or four kihns in sit. Jolnts and 'ropsail. Much of the stome used was of local product. quarried hear 'ropsail Itearl, Coneption
 larye ammont of lime-atome also was mied in thising the copper
wes at the emelting work in the latter Bay dhring their opera-


Prerions. . Mr mils.
Tlomer both











 -malting works at Britoll Farry, are obtaininis a tiok of ? roll of
 ;
 we. I further comfirmation of the profitahla extration of aroll
 lished is: New Sork. Which aredits Xewfomalland, for that and the
 at stie.010, amb 1,000 , hances of siker earh rear, all of which was derised from the same source.

TABLE 1.


| Name of Product. | Quantity. | Value. |
| :---: | :---: | :---: |
| Brick | 930,000 | 8, 8 ,010 |
| Building Stone | 100 Tons | 400 |
| Chrome Ore ... | 724 Short Ton. (1) | 15,500 |
| Coal.......... | 2,900 Long Tons (b) | 11,600 |
| Copper Ore.... | 66,798 Long Tons ( $\cdot$ ) | 274,452 |
| (iranite.......... | 4,000 l.ong Tons | 20,070 |
| Iron Ore. | 102,000 Long Toms. | 102,000 |
| l'aving Stone. | 1,700 l.ong Tons | 13,600 |
| Pyrites ..... | 32,335 Long Tons | 111,675 |
| Slinte...... ........ | 300 Squares | 1,350 |
|  |  | \$for8,087 |


 As every mit wer in per eent. inerense the valle from in erats
 - hijumbit.



















I have the hamer to bre. Sir.
Lour whedient servant.
(Sgl.) JAMES H HOWILEY.



* Based on the average percentage of metallic copper, and its marhet whue, during ear
+ Average estimated value at mine, after deducting all costs and charge. s: per ton of


## ABLE II.

OR THE PAST TEN YEARS, FQOM 1888 TO 1898, BOTH INCLUSIVE.

r ton of ore

$$
\nabla
$$

