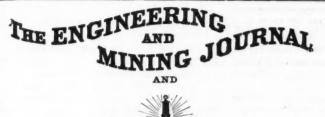
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We have received a pamphlet from Messrs. MacFarlane & Company, of Vancouver, B. C., as agents for British Columbia, of the National Ore and Reduction Company. This company has its headquarters in an obscure quarter of St. Louis, Mo., and we regret to say it is simply a reproduction of the well-known Hartzfeldt furnace humbug. This matter we have denounced for at least 10 years past in the Journal from time to time, whenever it cropped up under any recognizable name. Our object in referring to the matter now is to warn our contemporaries and readers in British Columbia and other points west and northwest against this often exposed fraud.

It is quite true that the kingdom of Denmark does not possess a very extended area, but the government by building railroads and buying those built by private enterprise have now succeeded in giving to its inhabitants a very cheap means of locomotion, and at the same time owns a very valuable asset for a large amount of its national debt.

The freight rates are already the lowest known. A bill introduced by the Government proposes to abolish return tickets and only to issue direct tickets between all stations. One will be able to travel the whole length and breadth of Denmark third-class for a sum not much exceeding \$1.50, and the distance covered is about 300 by 200 miles. This is a reduction of 50 per cent.

An interesting statement has been issued by Director of the Mint Preston on the subject of silver coinage. It would naturally be expected, from the fact that the Republic of Mexico is the largest silver producer in the world and that her mints are open for coinage at a fair charge, that the largest amount of silver would be coined in Mexico. Yet this is not so. According to actual returns, Mexico gives a return of \$24,832,350 ; Japan, \$23,883,500 ; China, \$9.253,340. This, however, gives no idea of the real silver currency and practical coinage in China, for in 1895 there were imported into the port of Shanghai alone 44,000,000 oz. of silver. There is no doubt that China is the largest absorber and coiner of silver to-day as she has been for many years, but most of her coinage does not pass through the mints and is put into circulation in form of taels, "sycee" money, etc.

Mining interests in Rhodesia are at a low ebb at present, and the prospective developments promised 12 months ago are removed at least a few, possibly five years. The cablegrams from that country give a most lamentable account of the conditions of affairs.

Practically speaking, so far as profit or safety is concerned, there is no longer a colony or colonists, every one having evacuated Matabele and Mashona Lands that had the means to do so. It is quite true that the Matabele have not gained any substantial advantage, but the result is that the population of Rhodesia is no longer an earning community, but simply a fighting one. Of course business with ,Rhodesia is at a standstill, agents who had been sent out are recalled and negotiations commenced in London or Paris are adjourned "sine die."

The colonists are rushing out toward the Transvaal, Cape Colony and Natal, and the only traffic into this vast region is munitions of war and provisions for the fighters. It will take a most thorough subjugation of the Matabele, and a better organization of the powers that be, before Rhodesia is a desirable abiding place for colonists or prospectors.

Though the gold winners in South Africa have many disadvantages to strive against such as monopolies of railroad freights, price of explosives etc., it is wonderful how in an almost entirely treeless country fuel should have been provided sufficient (and at a low cost) for all industrial needs. Mr. Lajuerre, a French scientist, has given an account to the Societé de l'Industrie Minerale as follows :

The impure coal of the Karoo District contains from 20 to 25% of ash ; and the coalmasters, acting as if they were persuaded the collieries would only last as long as the gold mines, take out the coal by the pillar and stall method, leaving the pillars. The seams worked are thick, the roof is very strong and work is carried on without timbering. The mean depth of the deposit is 50 meters-54 yards-and the coal is raised by rectangular shafts, divided by partitions, parallel with the short side of the rectangle, into four compartments, one for the ladders, one for the steam and compressed air pipes and electric conductors and two for winding. The coal raised is screened, the slack being thrown out to spoil, and the lumps, nuts and peas being alone utilized. The plant comprises a 40 to 50-horse winding engine, one of 20 to 30-horse power for the screen, and another for the dynamo. The cost of putting out the coal varies from 5s. to 6s., and the sale price is 9s. per ton. The Brackpan Colliery, started about six years ago, now puts out 1,200 tons daily, and earned £64,000 during the last working year.

New Zealand Gold Mines.

We have heretofore referred to the interest felt in London in New Zealand gold mines, which has found expression in the organization of numerous new companies and in the extension of operations of several old ones, so that a large amount of new capital has already been put into the industry, while more is promised. The colony has long been a gold producer, though less prominently known than several of the other Australasian colonies in that direction. Mining was begun in 1857 and the maximum production was reached in 1871, when the output was valued at \$13,937,600; but from that time it fell off rapidly and in 1890 the total value reported had fallen to \$3,867,000. This decrease was partly due to the working out of the placers, which furnished a large proportion of the gold turned out in earlier years; and 'partly to the fact that in many of the mines as greater depths were reached the ores were found to be complex and difficult to work. In short, New Zealand mines came to have a bad reputation and it was not easy to obtain the capital necessary for their exploitation on a paying scale.

Since 1890 there has been a gradual improvement, though the increase was not marked until last year, when the production reached a total value of \$5,459,815, showing a gain of 32.5 per cent. over 1894. The increase was chiefly due to greater care in working and to the introduction of improved methods and of processes adapted to the nature of the ores; and in this respect the industry shared in the advance which has been going on all over the world. The movement was aided by the action of the colonial government in granting aid from the public funds to companies which undertook deep level workings. There are now four or five mines in which, with this assistance, gold-bearing deposits of value have been proved to exist at depths from 900 to 1,000 ft.

It was not, however, this gradual increase in gold production which attracted the attention of English investors so much as the phenomenal success of two mines. The first of these—the Waihi, in the Ohenemuri District—has for three years paid 30 per cent. a year on its capital stock of \$800,000, and is this year continuing its success. The ores of this mine are comparatively low grade, the return for the first six months of the present year showing receipts of \$311,330 from 18,020 tons of ore, or an average of \$17.27 per ton. The large dividends, however, indicate that the ore must have been worked at a moderate cost. The other mine referred to, the Hauraki, last year paid 360 per cent. on its capital of \$200,-000; and for the first nalf of 1896 reports the production of 12,827 oz. gold from 2,056 tons of ore, an average of 6:24 oz. per ton. Though its ores are richer, the Hauraki is a much smaller mine than the Waihi.

It appears probable from what has already been accomplished and from the explorations already made, that there are many mines in New Zealand which can profitably be worked. The conditions are generally favorable for mining; the islands produce a considerable quantity of coal, timber is abundant, the climate is very good and work can be carried on throughout the year without interruption from the weather. The supply of labor is sufficient, though wages are high, as is the case in all the Australasian colonies. Moreover, there is an abundant sapply of water and the colony has never suffered from the drouth and scarcity which have proved such drawbacks in many parts of the Australian continent.

The present danger appears to be in the "boom" element, and in the activity of the promoters who have taken hold of New Zealand mines and are repeating the methods which they practised in Western Australia. As an instance of these methods we take half a dozen properties which are referred to in a recent number of the London *Economist*, in which not only is the capitalization very high, but in every case an excessive amount is to be paid to the vendors of the claims. The total capital and the purchase price of each of these mines are given below :

Claim.	Capital.	Purchase price.	P. c. of price to capital.
Monowai Consols	\$750,000	\$625,000	83.3
Maori Dream	650,000	150,000	23.1
Waitekauri Consols	600,000	400,000	66 . 7
Britannia	500,000	375,000	75.0
Hauraki South	450,000	325,000	72-2
Irene	400,000	325,000	81.3

In only one case out of the six is the vendor's share limited to anything at all approaching a reasonable amount; especially when when we consider that they are all new and untried properties, and for at least three of them the only recommendation seems to be that they are "near the Hauraki."

Such methods may be of temporary benefit to the promoter, but they are sure in the long run to injure the country permanently and to bring it into disrepute. For the sake of our New Zealand friends we hope that "boom" financiering will be discouraged in every form, and that their gold-mining industry may be left to work its way upon its own merits. These are, we believe, sufficient to secure its continued growth and prosderity.

The Model Report of the Alaska Treadwell Gold Mining Company.

The Engineering and Mining Journal has so often performed the disagreeable duty of criticizing and condemning the unsatisfactory and dangerous reports of mining companies which give no information to their stockholders, and may well, and generally do, cover in their vague statements, the grossest extravagance, and sometimes absolute dishonesty, that it is a great pleasure to turn to an example that illustrates what a company report should be, and that proves, by extraordinary economy in operation and in administration, the salutary effects of publicity on the cost of productiou.

The Alaska Treadwell mine, as our readers know, is a low grade gold mine, situated on Douglas Island, Alaska. The ore body is immense; the ore hard quartz, and its yield only about \$3 a ton, while wages are high being per diem for miners \$2.50: for laborers, \$2; drillmen, \$2.50 in summer and \$3 in winter; millmen, from \$65 to \$100 per month, and all these employees are furnished free board and lodging by the company in addition to their wages.

Coal costs \$8.25 a ton, wood \$4.15 a cord and other expenses are in proportion, yet the entire cost of mining, milling which includes concentrating and roasting and chlorinating the concentrates, administration at the offices in London, Paris, etc., and all construction and other expenses at the mines, amounted in the year 1895-96 to only \$1.16 per ton on the 263,670 tons of ore milled. Since the ore yielded \$2.97 per ton, this would leave \$1.81 per ton net profit, or, adding the profits from the store which amounted to about 8 cents per ton of ore milled, the total amount of profit amounted to about \$1.89 per ton, or a total of \$497,342.29 which was all applicable for dividends.

We commend with great satisfaction this admirable example in which the whole receipts, after deducting dividends, are counted as cost of production. There are here no increases of vast "improvement accounts" or "personal" and "real estate" accounts figuring as assets which are as worthless and misleading to the shareholder as is the mirage of a lake to the thirsty traveller on the desert. What is not dividend is cost is an axiom that should be constantly borne in mind by shareholders as well as directors, for when the brief life of a mine is ended its real estate and improvements, however much they may have cost, are then worth nothing.

ALASKA	TREADWELL GOLD	MINING	COMPANY BALANCE-SHEET.	MAY 31ST, 1896.
Dr.		CAPITA	L AND LIABILITIES,	

Dr.	CAPITAL AND	LIABILITIK	18,	
To sundry	stock-200,000 shares of \$25 each			\$5,000,000.00
Dough	e cash account: as Island		\$21,775.97	
Current	accounts-Douglas Island		31,996.98	
	San Francisco		20,802.00	\$79,575.45
Tó surplu To profit a	-Balance carried over from the y nd loss account, year ending May	ear 1895 31st, 1896 .	\$130,286.27 497,342.22	
			\$627,628.49	
Less divid	ends paid during year	*********	450,000.00	177,629.49
io ar praio				
				\$5,257,203,94
By mines	PROPERTY AN canals and reduction works			Cr. \$5,039,01 3,34
By store s	upplies:			\$0,000,014,08
Merchan	ndise at Douglas Island in transit	•••••	\$77,157.24	
			\$87,182.93	
Wood or	hand		$\dots 11,382.00$ $\dots 2,459.59$	
Extra m	ill machinery		8,254.32	
Potato a	ccount		116.13	
Repare	claims in adjustment		660.26	110,055,23
By cash a	t San Francisco ouglas Island			
				108,134.87
				\$5,257,203.94
Dr.	PROFIT AND LOSS ACCOUNT FOR M	EAR ENDE	NG MAY 31ST, 1	896.
To operati	no conto s	Per ton		
To operati Mining	263,670 tons ore	of ore. \$.5491	\$144,787.68	
Milling	263,670 tons and concentrating 4,3 liphurets	7310 3476	01 671 94	
Chloring	ation of 4,397 fo tons sulphurets		91,671.34 30,012.80	
General	experses, Douglas Island San Francisco	0819	21,597,51	
	San Francisco	9218	5,727.46	
London,	office expense	0112	2,946.48	
Paris,	charges, freight, insurance, etc		174.12 9.807.12	
All cons	truction charged directly to operat	ting.	3,007.12	
	ating costs for year			\$306,724.51 497,342.22
rice prone				
		\$3,0494		\$804,066.73 Cr.
		Per ton		01.
		of ore.		
	sold			\$782,829.67 174,13
By interes	rofits, 12 months			21.062.93
by store p		0139		
		\$3.0494		\$804,066.73

This Alaska Treadwell report not only charges up every expense to cost, but it gives in the utmost detail the items of expenditure, so that anyone can see with what remarkable economy the work has been carried on.

The report goes on to give a detailed statement of receipts and disbursements which are also carried out in detail to the ton of ore. It may appear to some who read this report that there is too much detail in it, but this is a far safer side on which to err than is that of lumping items, which reaches its limit in giving no information whatever, as in the case of our greatest Michigan copper mine. Moreover, many of these details have great professional value. It would, indeed, be of the utmost benefit to the industry were all companies to follow this admirable example, and it would undoubtedly lead to an enormous economy in their operating expenses. No manager wants his extravagant practice made public, and he will diligently strive to reduce costs when he knows that his figures will go before the world in detail.

The report of the Superintendent, Mr. Robert Duncan, Jr., gives the satisfactory information that the reserves of ore amount to 2.745.900 tons. or say a nine years supply and that the bottom of the mine, which indeed is only 220 ft. from the surface, is fully equal to the level above it. The ore body is 420 ft. wide and some 300 ft. long. Great credit is due to Mr. Duncan for his careful and economical management. What higher praise could be given to him than to state that he has mined 263,670 tons of ore during the year at a total cost of 55c. per ton, and that he has milled this ore at a cost of 35c. per ton.

While \$1.16 per ton is unquestionably a marvellously low cost, there is one item which we are convinced will still be lowered. The chlorination of the concentrates cost \$6.82 per ton, and in this figure about \$4.50 per ton is the cost of roastin", presumably in hand rabbled reverberatories. We are convinced that these figures will be reduced materially by the adoption of the latest improvements in roasting and chlorination, though any reduction in them can affect the total cost per ton of ore milled to but a very small amount.

There is but one notable omission in this excellent report, and that we hope to see filled in the future reports. It is nowhere stated what the assay value of the ore milled was, nor consequently what percentage was saved by free milling nor by chlorination. It is true the superintendent says that the ore developed in the lower levels assays \$4.19 per ton, and that it is of about the same quality as that in the levels above. If we assume that the ore milled averaged \$4.19 per ton, the total saving amounted to about 71 per cent of the gold, but as the saving in chlorination should have been at least 90 per cent of the gold contained in the sulphurets, the saving by amalgamation or free milling must have been 60 per cent, a fair return for ore of this character. Evidently, however, the place to look for better results in this admirably managed concern lies in saving a higher percentage of the gold contained in the ore, for it is scarcely possible to imagine any reduction in costs beyond that in chlorination already alluded to.

It is to the modest consulting engineer in London, Mr. Hamilton Smith, whose name nowhere appears except in the title page, that the chief credit for this model report and for the results so satisfactory to the shareholders is due. He it is who has inaugurated the system of reports and who follows the execution of the work and the expenditures with that ceaseless care and attention that are essential in the attainment of economic success.

NEW PUBLICATIONS.

THE MINERAL INDUSTRY; ITS STATISTICS, TECHNOLOGY AND TRADE IN THE UNITED STATES AND OTHER COUNTRIES TO THE END OF 1895. VOL-UME IV. Edited by Richard P. Rothwell. New York and London; the Scientific Publishing Company. Pages 880; illustrated. Price \$5.

When the first volume of THE MINERAL INDUSTRY; ITS STATISTICS, TECHNOLOGY AND TRADE made its appearance three years ago, there were many who, while acknowledging the merits and the usefulness of the work, doubted whether the plan outlined could be carried out. The first issue was all very well, said these doubters, in the old familiar strain of their class; but it will be impossible to keep up so great a work, and it must fall off in interest and become a mere compilation of dry statistics of but moderate value of but moderate value.

The best refutation of these predictions has been found in the succes-sive volumes of the work, each of which has been a distinct advance upon its predecessor. Instead of decreasing in interest they have grown in value as well as in size, and the appearance of the book has come to

It is no easy task to review in a limited space this volume of over 800 pages, and comment must be restricted to a mere sketch of its varied contents, though some of the articles really deserve separate reviews of their own as monographs on their special topics. To begin first with the general plan of the book, it may be said that even if it ware limited to a computation of statistics it would be no small

even if it were limited to a compilation of statistics it would be no small benefit to the miner, the manufacturer and the merchant to have at hand in compact and accessible form the figures of the production not only of our own country, but of all the world; to be able to ascertain at once what each nation has produced and to what extent it has exchanged its product with others. This has a black the basis of the last whether the second What each nation has produced and to what extent it has exchanged 16 products with others. This knowledge is the basis of all intelligent oper-ations in trade and industry; but until the present work was undertaken it existed only in a scattered form, in voluminous official reports and other documents, appearing often a year or two behind time, from which it could only be extracted with great labor, and in which it was prac-tically out of the reach of the ordinary man who needed it. I confess that I can hardly understand how so complete a presentation of facts

can be secured in so short a time. I can partly appreciate the great labor that must have been required, and I am much more ready to labor that must have been required, and I am much more ready to acknowledge the editorial intelligence which has directed, and the capable assistance which has carried out, the work, than to undertake any such colossal task on my own account. In most of the articles I find also that the running comment in the text gives one an idea of the changes in production and methods which have occurred during the year, and which are likely to affect the future supply or cost of the par-ticular substance under consideration. It may be said also that a general review of the statistical tables is needed to give one an adequate idea of the enormous extent and variety of the mineral industry, which constitutes, with agriculture, the basis of all human existence and progress, and which is, to even a greater degree than agriculture, the foundation of what we call wealth, both national and individual.

and individual.

and individual. But besides the statistical portion, I find in these pages a record of technical progress made during the year, of changes and improvements in methods and machinery, and of scientific investigations and experi-ments which will be certainly of great service to the miner, the millman and the metallurgist. If there is any criticism to make on this division of the work it is that the purely scientific and theoretical has been rather set aside for the more directly useful and practical. There is a limit, however, to the size of books as well as to everything else, and I suppose that the readers who want information which they can use and apply directly to their own profit in their own business far exceed in number those who, like myself, have a leaping toward purely scien-tific discussion, and the majority must be considered accordingly. Not that the scientists have been neglected entirely ; for I must acknowledge

tific discussion, and the majority must be considered accordingly. Not that the scientists have been neglected entirely ; for I must acknowledge with gratitude such articles as those of Professor Kemp and Professor Vogt on the "Origin of ores," with several othere. There are many people to whom the history of the mineral industry is quite as interesting as its theory or even its practice, and such readers will find here the paper of Mr. John Fritz on the "Iron Trade," of which no other man could write more fully and authoritatively, and that on "The Evolution of the Anthracite Coal Trade," which is modestly pub-lished without the name of the author, but which I take to be the work of the editor-in-chief. Both of these articles are gems in their line, and that on anthracite coal especially brings together a mass of material from old reports and other documents of the past which have never before seen the light or been put before the public. Another historical article which is of great interest is Mr. James Douglas" "Copper Smelting in the United States," in which many facts are grouped with which few of us were before familiar. If we go through the articles on production the chief fault to be found

If we go through the articles on production the chief fault to be found is that some of them are rather too brief and too much condensed; but here again I must remember that the editor must have regard to the space limit, and hope that some of the products which are but briefly treated here may have more space allotted to them another year.

Among these articles I must call especial attention to that of Mr. Howard on "Asphalt"; to the description of "Chrome" and its various uses; to the copper article, with its very full statements of production; to Mr. Hobart's "Gold and Silver," which is a model of condensed statement and information; to the various technical annexes to the "Iron and Steel"; to Professor Hofman's clear and precise statements on the progress made in treating lead ores and bullion, and to the descriptions of the treatment o quicksilver ores in Spain and Austria. From this last-named paper our own metallurgists have much to learn in the way of economy and close-working of low grade ores.

own metallurgists have much to learn in the way of economy and close-working of low grade ores. Two, or rather three, articles have struck me as of especial value, since they contain technical information which I have never seen published before, and which I do not believe is in print anywhere else. These are the papers on the "Manufacture of Chromates," on the "Utilization of Petroleum Products," and Mr. John E. Rothwell's excellent paper on "Lead Burning." This last named paper especially puts on record most practical directions with regard to an art which many need, but few know; and it has hardly a superfluous word in it. Other chapters to which I must call attention are that of Professor Richards on "Progress in Ore Dressing." which gives all of us some new points, and an excel-

which I must call attention are that of Professor Richards on "Progress in Ore Dressing," which gives all of us some new points, and an excel-lent article by Mr. T. Ulke on "Parting and Refining Gold and Silver." Still another chapter which is most timely and interesting is that on "By-Product Coke Ovens," showing, as it does, what has already been done in a direction to which the attention of coal and iron men has been lately called with most promising results. We are undoubtedly behind our Eu-ropean competitors in this direction, and this clear statement of what they have done will be of great service in showing not only how we can overtake them but elso on what lines we can work to surpass them.

they have done will be of great service in showing not only how we can overtake them, but also on what lines we can work to surpass them. The sharp competition of these modern days has made the closest economy imperative in all industries ; and it is evident that both now and in the future our mineral industries, if they are to succeed and be profitable, must be conducted with close attention to the saving of all possible by-products and the prevention of waste in any direction. We hope to see this "Coke Oven" article followed up by others in the same line, such, for instance, as an account of what has been done in the way of utilizing blast furnace slags: a topic. I believe, on which something might be written with advantage to all concerned. Other articles might be specified, and several of them, indeed, seem to claim special attention ; but the limitations of time and space, before referred to, prevent it. The reader, however, will be able to find quickly those papers which may have practical value for him, or which may fit in with his particular line of work or study. It is perhaps the best com-

those papers which may have practical value for him, or which may fit in with his particular line of work or study. It is perhaps the best com-mendation that the book can receive—certainly it is no small praise—to say that every reader will be able to find something which he needs. My friend, Dr. Raymond, last year found fault with the red color of the cover which has been chosen for THE MINERAL INDUSTRY. I do not agree with him. Apart from the fact that it is distinctive and readily seen—excellent points in a book to which one must often refer—it seems to me that the cover is in accord with the contents, being bright, strik-ing and sure to attract attention. It is not only better but more appro-priate than the modest and somber brown in which the first volume made its appearance.

made its appearance. To put it in a paragraph, Volume IV. of THE MINERAL INDUSTRY is not only fully up to its predecessors; it is a distinct advance, and so shows that there is to be no falling off from the high standard which the editor

and the publisher have set. Its publication is a great service to the in-dustry which it represents, and this fact is very fully appreciated by its readers. C. T.

OORRESPONDENCE.

We invite correspondence upon matters of interest to the industries of mining and metallurgy. Communications should invariably be accompanied with the name and address of the writer. Initials only will be published when so requested. Letters should be addressed to the MANAGING EDITOR. We do not hold ourselves responsible for the opinions expressed by correspondents.

Playa de Oro Mining Company. Sir: The last mail brought your issue of May 30th. In a prominent place in it an item is published in regard to this company which is liable to mislead your readers and do injustice to the company and to the pres-

A very decided change was made in the officers and employees of this company about the beginning of the present year. The new management took charge in Ecuador on the last of February, and a complete reorgantook charge in Ecuador on the last of February, and a complete reorgan-ization of every department was at once commenced. At present, the general timekeeper and one bookkeeper are the only persons holding posi-tions of any importance at the mines who were in the employ of the company in February last. New men have been brought from California and other States as engineers, miners, foremen, etc., who were carefully selected for the positions they were to fill, and as it is not possible that you have received any reliable reports as to the manner in which these men are performing their duties, your statement that the work is being done in an unskillful and extravagant manner is unfair to them and to the company. the company

I think that your sense of justice will impel you to make a correction, or at least to state plainly whether your criticism is intended to apply to the present managements and methods, or to those that were in force previous to March 1st of the present year. ARTHUR PEW, General Manager and Chief Engineer.

PLAYA DE ORO, Ecuador, July 1st, 1896.

Treatment of Zinc-Lead Sulphides.

Sir: In your issue of June 20th under correspondence, Mr. Longmaid asks some questions relative to the treatment of zinc-lead ores as follows 1st. What proportion of high-grade zinc ores are used in the charge? 2d. What per cent, of zinc is contained in the furnace mixture?

3d. What per cent. of zinc is contained in the furnace mixture? 3d. What per cent. of zinc do the resulting slags contain? In reply I will say that we use as high a percentage as we can get in our charges, even in some cases up to 45% and 50% zinc. In the furnace mixture the zinc runs from 15% to 30%, average about 22%, and the slags run from $2\frac{1}{2}\%$ to 9% in zinc.

22%, and the slags run from $2\frac{1}{3}$ % to 9% in zinc. It is true that we buy other ores and smelt with the zinc, but this is not essential to the process, and the ores we purchase are those contain-ing copper; mainly, not for the purpose of diluting the zinc, but for better extraction of the gold and silver value. The process in use at Canon City is not all incompatible with the con-ditions existing at the Broken Hill mines. The process can be modified to meet the conditions in almost any case. The lead and zinc after re-covery as pigment, can be shipped in that form, or be converted back into metallic zinc and lead at slight cost. A small supply of copper ore is essential, and this, I understand, can be obtained in territory contiguous to the Broken Hill District.

to the Broken Hill District. The writer takes the ground that if the conditions will warrant the treatment of the Broken Hill ores by any process at moderate cost, nothing has been discovered up to this date which will equal in completeness and cheapness the process in daily use at Canon City. Furthermore, of all the different processes described and contemplated for the reduction of the Broken Hill ores, none is so cheap and com-plete as the one in use here. That the advances in the treatment of zincy ores have, here in Colorado, reached for hey ond that of any other country is evidenced by the fact

That the advances in the treatment of zincy ores have, here in Colorado, reached far beyond that of any other country is evidenced by the fact that all such ores, when they contain fair value, and are not too far from market, command a ready sale at good prices. There are, it is true, thousands of tons of zincy ores in this State which contain only slight values in gold, silver and lead which are not handled, but this is simply due to the fact that the value is too little to pay for freight and handling, no process having been found yet which will extract something from proting.

something from nothing. We are frequently asked to bid on low-grade zincy ores 1,000 or 1,500 miles away, when the freight alone would cost more than the entire gross value of the ore.

So far as the writer's knowledge goes, the Broken Hill people have not yet taken the trouble to thoroughly investigate the process in use at Canon City—certainly not in recent years. Hence the assumption that it cannot be used there is premature. CANON CITY, Colo., July 20, 1896.

Gyanide Copper Assay. Sir : In your issue of July 18th, Mr. Flynn brings against us a charge of inaccuracy in the description of the cyanide copper assay as given in our text book of assaying. In defence, I need not dispute the accuracy of Mr. Flynn's experiments, nor, as far as it goes, of the inference drawn from them. In fact, 15 years ago we proved the same thing in a paper which was reprinted in the *Chemical News* September 7th, 1883. Moreover, I claim that in our book we insist, with ample emphasis, on unvarying conditions as regards *ammonia salts*, ammonia, water, temperature and manner of working. If Mr. Flynn had kept in mind our statement, "Probably there is no method of assaying where a slight deviation from the conditions so surely leads to error," he would not have tried to upset our results by ex-periments in which the deviations from our conditions are not slight. He used a stronger ammonia (how much stronger?) and a weaker cyanide (how much weaker?), and he says nothing as to the strength of his acid or the quality of his cyanide, this last a rather important factor in the matter. Again, he gives experiments with 5 and 10 c. c. of acid. Why

has he suppressed that with 15 c. c., which I am sure would have proved instructive.

In the assay as we give it there is a probable variation of something less than 1 c. c. up or down of the 10 c. c. of nitric acid we aim at. Our statement that variations in the quantity of nitric acid are unimportant we expressly limit to such variations as are likely to occur under the con-ditions of the assay. Mr. Flynn 's fair enough to quote this qualifica-tion, but why does he ignore it? I have had the three experiments re-peated. The work was done by Mr. H. W. Hutchin, who has not only had experience in the laboratories of two of our most important chemical works, but has also received four vears instruction in the laboratories of the Royal College of Science. This strong ammonia was 33%, his nitric acid 70%, his cyanide a freshly opened sample of commercial 95% stuff, the the temperature about 18° C., the manner of working most careful and deliberate. The results compared with our former ones and Mr. Flynn's are as follows : are as follows :

Mr. Hutchin's 20.84 20.78 20.67	Acid used Former results	5 cu. cm. 21.60	10 cu. cm. 21 70	15 cu.cm. 21.50
Mr Flynn's 35'40 36'40 not reporte	Mr. Hutchin's.	20.84		
MAL TITUE D	Mr. Flynn's	35.40	36.40	not reported.

It is beyond the powers of arithmetic to bring Mr. Flynn's results into line; but in the others I see no reason for believing in an error exceeding 'l c. c. in any one of the six results. The question of the relative effects of ammonia and ammonium salts

on the assay is worthy of fuller treatment, and I propose to deal with it in a separate article. J. J. BERINGER. CAMBORNE, Cornwall, July 11th, 1896.

International Bimetallism.

International Bimetallism. Sir: President Francis A. Walker, of the Massachusetts School of Tech-nology, has just published a work on "International Bimetallism," com-prising in substance the contents of a course of lectures, delivered by him at Harvard University, and constituting one of the most candid, temper-ate and forcible presentations of the argument for bimetallism available in the English language. In the political "campaign of education" upon which we are now entering, the utterances on both sides are likely to be colored by passion and confused by haste. President Walker's book, written before the issues of the pending election had been defined, and without direct reference to them, is therefore likely to be peculiarly timely and useful. As an additional claim to authority, it may be mentioned that Presi-

As an additional claim to authority, it may be mentioned that Presi-dent Walker was a pronounced bimetallist nearly a quarter of a century ago, when most of the present advocates of that cause had either never heard of the subject or were on the other side, at the time, for instance, when Senator Stewart, of Nevada, pronounced his famous panegyric on cold on the other states and the states of the subject of

when Senator Stewart, of Nevada, pronounced his famous panegyric on gold as the only true monetary metal. On the other hand, it must be frankly said that the "free silver" party of to-day, while it may draw from President Walker's book strong argu-ments for bimetallism, will not be able to claim him as an adherent to its doctrine : for he takes pains, in his preface, to reiterate the opinion he had previously expressed that the independent free coinage of silver by the United States would be a serious mistake, and an injury to the cause of bimetallism throughout the world. It is not my nurose however to state or to weigh President Walker's

It is not my purpose, however, to state or to weigh President Walker's views on this or any other aspect of the subject. I wish simply to point out two errors into which he has fallen, and which, while they may be of no great importance to his general argument, are unquestionably blem-ishes, likely to impair the confidence of his readers.

In great might an of the general inguiner, are undertoined by both ishes, likely to impair the confidence of his readers. I refer to the mention, in his historical and general introduction, of the special points of precious-metal mining, among which he specially names the danger of explosions of fire-damp, and to his summary statement that statistics prove this occupation to be notably unhealthy. Upon the first of these assertions comment is scarcely necessary. Any professor or graduate of the School of Technology would have told its president that explosive gases are not encountered in gold or silver mines. As to the unhealthy character of gold and silver mining, I know of no statistics which support this proposition. Those who desire to see a summary of the evidence may consult my paper on "The Hygiene of Mines," in the *Transactions* of the American Institute of Mining En-gineers, Vol, VIII., p. 97. I presume that President Walker fell into both of these errors by hastily confounding coal mining with metal mining. However they

hastily confounding coal mining with metal mining. However they may have originated, the elimination of them from his book would im-prove it. R. W. RAYMOND.

Spanish Imports and Exports of Minerals.—Imports of coal into Spain for the six months ending June 30th were 717,627 tons, a decrease of 144,724 tons from last year. Imports of coke were 120,409 tons, a gain of 48,340 tons. Imports of iron and steel for the six months included 7,072 tons of pig iron, 6,741 tons of wrought iron, and 10,420 tons of steel, the latter being chiefly in the form of rails. The exports of miner-als for the half-year showed large gains, being reported as below, in metric tons: metric tons:

	1895.	1896.	Changes.	
Iron ores	2.361.426	3.320 678	I. 952,252	
Copper ores		342.546	1. 69,940	
Lead ores	4,572	4,002	D. 570	
Zinc ores	15,004	16,321	1. 1,317	
calt	102,823	145,327	1. 42,504	

Exports of metals included 7.930 tons pig iron, a decrease of 2.926 tons; 12,956 tons of copper, a decrease of 1,974 tons; and 78,601 tons of lead, an increase of 3.850 tons.

Production of Tungsten.—According to researches on tungsten by M. H. Moissan, the pure metal is readily obtained by the reduction of tang-stic acid with carbon in the electric furnace. With a large excess of carbon the carbide CW_2 is formed, which, in the fused state, readily dis-solves more carbon, graphite crystalizing out on cooling. Pure tungsten can be readily filed and forged, it welds easily, has no action upon a mag-netic needle, and has a melting point higher than chromium and molyb-denum denum.

AUG. 22, 1896.

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THE INTERNATIONAL GEOLOGICAL CONGRESS AT ST. PETERSBURG, AUGUST, 1897.

The seventh triennial meeting of the International Geological Congress, will take place in August, 1897, at St. Petersburg, by invitation of the Russian Emperor. The programme proposed by the committee, will en-able the members of the congress to take advantage of this opportunity to study the geological and topographical features of Russia in Europe, the Emperor himself offering all the visiting geologists free transporta-tion, first-class, over the Russian railways, before and after the sessions of the congress, including the excursions.

tion, first-class, over the Russian railways, before and after the sessions of the congress, including the excursions. Membership in the congress is open not only to professional geologists, but also to other persons interested in the science, and may be obtained in accordance with conditions which may be learned by addressing the secretary. The meeting will extend over eight days, and the sessions will be devoted to discussing general principles of geology and the pres-ent state of the science in the effort to bring about harmony among the geologists of the world. Much time will be given to the exposition of the geological work being done in Russia, especially in those regions covered by the excursions. The usual facilities will be given for the display of instruments, maps and books pertaining to geology. The principal four proposed before the meetings is from Moscow, east-ward to the Ural Mountains, crossing that chain and visiting several famous mineral and mining localities, including Ekaterinburg and Tagilsk and returning by wav of Perm to Moscow. Persons especially interested in historical geology will, however, take the excursion into the province of Esthonia, while those who prefer crystalline rocks and glacial geology will spend six or seven days in Finland. An excursion which will occupy a month is proposed for the time immediately following the close of the congress in St. Petersburg. After visiting Moccow and its environs in a body the party will split up into three divisions, one section going by way of the Donetz Valley to the baths of Vladikavkaz, the second going by the Volga River, and the third by the Daieper Valley to the same rendezvous. Thence the route leads over the Georgian military road to Tiflis, stopping on the way to visit some of the glaciers of the caucasus Mountains. From Tiflis a visit will be made to Backu the head. the same rendezvous. Thence the route leads over the Georgian military road to Tiflis, stopping on the way to visit some of the glaciers of the Caucasus Mountains. From Tiflis a visit will be made to Baku, the head-quarters of the petroleum fields of the Caspian Sea, and afterward to Batoum, on the Black Sea, whence ship will be taken for Kertch, where a study of the Crimea will be begun which will end at Sebastopol, where the congress will finally dissolve. Six alternative and supplementary trips are offered in connection with the great tour, for those who are par-ticularly interested in mines, in glaciers, in the ascent of Mount Ararat, etc. etc

Persons expecting to attend the Congress are requested by the com-Persons expecting to attend the Congress are requested by the com-mittee to notify the general secretary of the congress by next October, as to which of the excursions they propose to take. The president of the congress is A. Karpinsky, director of the geological survey of the Russian empire, and the secretary, to whom all communications should be ad-dressed, is Th. Tschernyschew, St. Petersburg. The last meeting of the congress was in 1894, at Zurich, and the one preceding that was at Washington, in 1891, in connection with the Amer-ican Association for the Advancement of Science and the Geological So-ciety of America.

ciety of America.

A NEW METHOD OF DETERMINING CARBON IN IRON.*

By E. Volmer.

By E. Volmer. Mr. Peipers, an engineer at Remscheid, has introduced a method of de-termining carbon in steel which is similar in principle to the assay by bouch in use for gold. A series of test-bars of known carbon contents, and varying from each other by about 0.2% between the limits 0.2% and 1.2%, form the touch needles, while the touchstone is represented by a slab of hard-biscuit porcelain. The bar is haramered and filed to a blunt onical point, which leaves a black mark when rubbed on the porcelain slab. The sample to be examined is rubbed upon the center of the plate to form a patch of about the breadth and length of the finger, a similar one being made on either side of it with two of the bars whose to form be readily done with a little practice. The marked slab is being index on either side of it with two of the bars whose to form of copper-ammonium chloride in water, which dissolves away the iron from the immersed portions of the patches, leaving the private as before immersion, while that with 0.25 gives only a very all shade when the iron is removed. If the metal were perfectly marked shade when the iron is removed. If the metal were perfectly marked shade when the iron is removed. If the metal were perfectly marked Arkansas stone, hard glass, and feldpar, but none of them has being on a long to algo the process. In this ordinary state, however, hat the to and the amerked porcelain. In its ordinary state, however, hat the to an our on glazed porcelain. In its ordinary state, however, hat the to an our on glazed porcelain. In its ordinary state, however, hat the to an our on be readily done with a barker on the surface sufficiently in water, but a more satisfactory method is to clean the slab by immer-sion and stains, and restors the original white surface. The method is to the of the markings may be nearly completely removed by washing in the top to marker be original white surface. The method is to the top the original white surface. The method is to the top to the o

in water, but a more satisfactory method is to clean the stab by intiner-sion for 15 minutes in nitric or hydrochloric acid, which removes rust spots and stains, and restores the original white surface. The method is capable of indicating differences of 0.05% or 0.025% of carbon under fa-vorable conditions. The cost of the apparatus is about £1 2s.

German Iron Production.—According to Stahl und Eisen the production of the German blast furnaces for the month of May was 559.991 metric tons, showing an increase of 21,595 tons over April, and of 70,362 tons, or 14-3% over May, 1895. The production this year was made up of 88,819 tons foundry iron; 149,838 tons forge iron; 45,123 tons Bessemer pig and 276,211 tons Thomas pig. The total number of furnaces in blast in May was 144, against 141 in April; the average output was 3,889 tons per furnace. For the five months ending May 31st the total production was 2,658,742 metric tons, showing an increase of 293,270 tons, or 12-4%, over the corresponding period of last year. The production is now at the per furnace. For the five months ending and 293,270 tons, or 12.4%, was 2,658,742 metric tons, showing an increase of 293,270 tons, or 12.4%, over the corresponding period of last year. The production is now at the rate of about 6,600,000 tons yearly.

* The Inst. C. E., Vol. CXXII. (Stahl und Lisen, Vol. XV., 1895, p. 199.)

French Movements of Iron Ore.—The following table shows the French imports and exports of iron ore during the first six months of the year as compared with the first half of 1895:

	January-June.	
Imports. Germany. Spain. Italy. Algeria. Other countries.		1995. Tons. 20,44? 611,841 J63,454 5,417 21,444
Total imports Total exports	913,530 109,506	822,598 97,919

Oleaning Oastings by Sandblast.—An experiment made by Howard A. Pedrick, locality not stated, in order to determine the practicability of cleaning large castings by blowing sand against them under steam at a pressure of sixty pounds per square inch, is described in the *Iron and Coal Trades Review*. It was found that the steam wet the sand, causing frequent clogging of the pipes, and made it next to impossible for a man to stand the severe rebounding of sand from the casting ; but after a time compressed air was substituted for steam, and the proc-ess was improved until at present ornamental and fancy cast-ings can be thoroughly and cheaply treated in this way, producing an article which would otherwise require much labor to finish. In ordi-nary classes of work it is practicable to clean thoroughly 6 sq. ft. per minute, no matter how much ornamentation covers the casting; steel is very hard to clean in the usual manner, but yields readily to the sand blast. The outside appearance of the sand box is like that of a vertical boiler; it is fitted with feed valves and sand chambers, so arranged that an air pressure of about 10 lbs, per square inch forces the sand through a rubber hose, which must be kept free from kinks. Cleaning Castings by Sandblast .- An experiment made by Howard A. rubber hose, which must be kept free from kinks.

Coal Mining in the Ourals. —Carboniferous deposits are found on both sides of the Oural Mountains. On the western side they run almost con-tinuously along the chain of mountains. On the eastern side, the carsides of the Oural mountains. On the western side they fun almost con-tinuously along the chain of mountains. On the eastern side, the car-boniferous formation is met with in the form of thin bands with numer-ous interruptions, and interposed in the mass of crystalline rocks. The composition of the deposit on the eastern side is almost identical with that of the Moscow basin. Mining operations on the western side of the Ourals are concentrated within a small area in the north. The thickness of the seams varies from 3*2 ft. to 16*4 ft., with occasional swellings. The coal obtained is of the unin-flammable kind, and only rarely gives, after washing, an agglomerated coke. The principal coal deposits worked on the eastern side of the Ourals are distributed in the direction of the meridian over a distance of about 100 km. They are divided into two parts, the north producing uninflammable coal and anthracite, and the south giving a coal which produces an agglomerated coke, while at certain points, by the side of the anthracite, a graphitic coal is found, and even deposits of graphite. Al-though coal-mining operations in the Oural basin were at first carried on on the eastern side—from 1851 to 1861—and also that good deposits of coal have been met with in recent years, the principal seat of operations is on the western side. The coal produced in this district is principally consumed by the railways, the iron and steel works, and the salt works.

The Mineral Wealth of Victoria, Australia. — The acting secretary for mines, Mr. J. Travis, in his report on the condition of the mining indus-try for the year 1895 states that the gold yield for the colony for the year was 740,086 oz., which was the best since 1884. The highest yield was in 1856, when 3,053.744 oz. were obtained. From 1851 to 1895 the aggre-gate yield was 60,186.321 oz., valued at £240,745,284. Last year Ballarat headed the list with 166,215 oz., Bendigo foliowing closely with 159,414 oz.; Beechworth contributed 96,409 oz., Gippsland 92,280 oz., Mary-borough 81,376 oz., Castlemaine 66,087 oz., and Ararat 32,052 oz. Bal-larat headed the alluvial yields with 75,584 oz., and Bendigo the quartz yields with 153,924 oz. The dividends paid by gold-mining companies during the year amounted to £438,507, the Bendigo District being easily first with £130,842. Ballarat came next with £86,061; Beechworth, £60,882; Gipps-land, £56,240; Maryborough £40.800; Castlemaine, £35,255, and Ararat, £28,425. During the year 194,226 tons of coal were raised, the value being £118,400. Altogether 111 accidents occurred in gold mines during the gas 9,897. During the past 20 years 30,642 men have been employed on an average. Accidents number 2,559, of which 896 proved fatal, the total killed and injured being 2,791. on an average. Accidents number total killed and injured being 2,791.

Ohanges in Mexican Patent Law, —The Mexican Consul in New York has received information from his government of a change in the Mexi-can patent law. The amendments affect only Article, capter 5 of article 33d of Law of June 7, 1890, on Patents of Invention, aud also the Tran-sient Article of that law. Article 33d, as amended reads : "The owner of a patent invention or a patent of improvement is com-pelled to prove before the Department of Fomento at the end of every five years of the existence of his patent, and in order to keep it in his pos-session for the following five years, that the payment of an additional tax has been entered into the Federal Treasury, as follows: At the end of the first five years, \$50; at the end of 10 years, \$75, and at the end of 15 years, \$100. All these payments must be made in Mexican dollars. "To prove that these payments have been made at the end of the said period of five years a term of two months is allowed, which cannot be extended."

extended." The Transient Article, as amended, reads: "The persons concerned who, on the date of the publication of this law, have incurred the for-feiture established by section 3 of the 37th article of the law of Jure 7, 1890, may avail themselves of the dispositions of the present law to be exempted from the forfeiture penalty, provided they make the due pay-ment of the taxes within three months after its publication, it being understood this concession will take place only in case that a third per-son will not suffer in his rights after the forfeiture may have been estab-lished." lished.

ELECTRICITY DIRECT FROM CARBON.*

By Dr. Alfred Coehn

The problem of the direct production of electricity from carbon would find its simplest solution if we could succeed in dissolving carbon in a fluid, just as we do metals. This question is formulated thus by the of electrolysis : Can carbon form ions?

theory of electrolysis: Can carbon form ions? In attempting to find an answer to this question, I started from an observation made by Bartoli and Papasogli, that when dilute sulphuric acid was electrolyzed between carbon electrodes, the carbon anode takes part in the electrolytic processes, in such a way that, besides oxygen, both carbonic oxide and carbonic acid make their appearance at the anode. I commenced my experiments by varying the important factors, viz., concentration, temperature and current density, in order to discover whether it was possible to obtain the products of combustion without admixture of oxygen on the anode. I have not succeeded in obtaining carbonic acid or csrbonic oxide alone, but a mixture of the two, contain-ing only 1% of oxygen. In this mixture about 70% was carbonic acid and ing only 1% of oxygen. In this mixture about 70% was carbonic acid and carbonic oxide.

30% carbonic oxide. In these experiments it was observed that at low temperatures a disin-tegration of the carbon anode took place, small particles of carbon being seen suspended in the acid. At higher temperatures, on the contrary, no such disintegration of the carbon took place, but a distinct coloration of the acid was produced, at first yellow, then later dark red and red-brown. If this is a solution of the carbon brought about by the current, the carbon is proceeding the first particular to find the form camble It this is a solution of the carbon brought about by the current, the carbon is presumably contained in it, in the form of ions, i. e., in a form capable of being influenced by the directing power of the current. Such a solu-tion must be capable of giving up carbon to the cathode, since carbon does not decompose water. (A series of platinum plates, coated with

soluble electrode. The element supplies, a strong and constant current. Through an external resistance of 100 ohms it shows an e. m: f. of 1.93 volts

There arises here the question whether any share in the production of There arises here the question whether any share in the production of the current is due to the reaction on the carbon. and if so, what share? Platinum also, when placed opposite a peroxide plate under the same conditions, shows a current in the same direction as the carbon. But it never comes to a visible development of oxygen; as soon as the platinum is charged with oxygen the current becomes exceedingly small. If the carbon was an insoluble electrode it would behave in the same way. But this is not the case. The current lasts till the accumulator plate is discharged. A second charged peroxide plate may then be substituted, and the current is again produced as strong as before. The results of my investigation may be summarized as follows: 1. It is nossible by electrolysis to produce a solution of carbon.

- It is possible by electrolysis to produce a solution of carbon.
 From such a solution carbon may be separated as a cation.
 An element may be formed of which carbon is the soluble electrode.

BRITISH COLUMBIA MINES.

Written for the Engineering and Mining Journal by H. M. Beadle.

What are called the East and West Divisions of Kootenay District of British Columbia are destined to be among the greatest mineral-produc-ing districts of the world. The discovery of the mineral character of the country and the opening up of the mines are owing to prospectors of the United States Rocky Mountain region. The writer does not know who were absolutely the first prospectors to find mineral-bearing veins there, but a party of Montana prospectors, of whom Hon. Jee Oker, of Helena, was one, found ore in the Slocan country in the summer of 1889. The



TRAIL CREEK BEGINNINGS, "LILY MAY" TUNNEL.

carbon, was shown, and a dish, such as is used by Classen for quantitacarbon, was shown, and a dish, such as is used by Classel for quantita-tive electrolytic analysis, was shown coated inside with a dense layer of carbon.) The solution and precipitation could readily be obtained with different kinds of coal as anode. Ordinary coal ground smooth, and arc lamp carbons, were found specially suitable; the experiment also suc-ceeded with coke.

That the precipitate was really carbon, and not metal derived from im-purities in the coal, was shown by treatment with acids. It was not attacked by hydrochloric acid; in hot nitric acid traces were dissolved attacked by hydrochloric acid; in hot nitric acid traces were dissolved— as in the calorimetric test for carbon in steel. In the flame, even the densest precipitates completely disappeared immediately. Finally, a direct proof was obtained by oxidizing the precipitated carbon by chromic acid, and absorbing the resulting carbonic acid in alkali. A number of analyses were made, and these always showed, in addition to carbon, a little hydrogen. The residue—reckoned as oxygen—was suf-ficient to convert the hydrogen found into water. Either, therefore, in addition to the carbon, a solid, conducting carbohydrate was separated, or some kind of crystalline water which adhered strongly to the carbon was produced. The presence of water in the precipitate is indicated by its behavior with concentrated sulphuric acid. If the acid is dropped on the precipitate it is immediately loosened and Iblackened, reminding one of the behavior of sulphuric acid with a carbohydrate. It was now of interest to attempt to construct an element whose soluble

It was now of interest to attempt to construct an element whose soluble electrode consisted of carbon. The only question now was to place a more electro-negative element opposite the carbon. The peroxides stand still nearer even than carbon to the negative end of the potential scries. Lead peroxide was used in the practical form of a charged accumulator plate. If this is placed opposite a carbon in sulphuric acid of the proper concen-tration, temperature, etc., an element is formed of which carbon is the

*Abstract of a paper read before the Berlin Elektrot. Verein. Industries and Iron aron

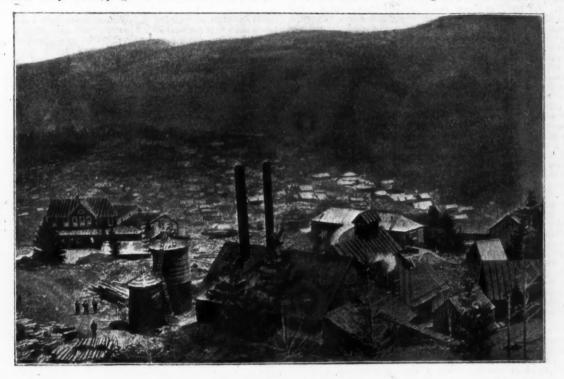
party was driven out by a terrible snow storm, which was so heavy that they found great difficulty in getting out. They went down the Koote-nay River from Bonner's Ferry in a canoe to Kootenay Lake and re-

While the same way. While the silver-lead mines of the Slocan country are attracting great attention, the greatest interest centers in Trail Creek. This stream is only seven miles in length and flows almost due east into the Columbia River in a direct line. Trail Creek is about five miles north of the inter.

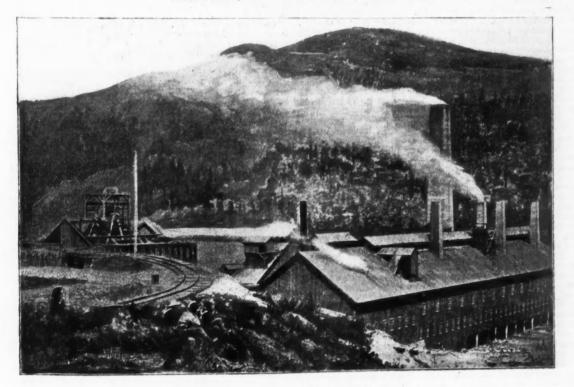
only seven miles in length and flows almost due east into the Columbia River in a direct line. Trail Creek is about five miles north of the inter-national boundary line. Mineral-bearing veins have been found along the western side of the Columbia River from the mouth of the Koolenay to the mouth of Kettle River, in Washington. The most noted districts are Boundary Creek, some 20 or 25 miles west of the Columbia, and Grouse Mountain, which rises almost out of the Columbia, and which the international boundary crosses. With few exceptions the character of the ore is the same on the west side of the Columbia, and will be described when the Trail Creek ores are spoken of. On Waterloo Creek, and other places immediately east of the Columbia, the ore is much of the same character. On the east side of the the character of the ore is much the same as at Slocan and Ainsworth. The country rock of the region west of the river is very much the same, except where the line occurs along the river. At Trail Creek it is called diorite. Some assert that it is syenite. Whether the feldspar in it is orthoolase or oligoclase, there is evidently considerable lime in it as well as in the horablende. It is a tough, hard rock, very difficult to drill, therefore every company as soon as it feels able, puts machine drills at work. The writer was only six days in the country, and it was impossible for him to see a great deal of it. Near the Columbia, espe-cially, lime is seen in many places, and it is said there is quite a body of slate some three miles northwest of Rossland. A great many granite boulders are scattered over the surface of the country, and there are

undoubtedly bodies of granite and granite dykes found in the country rock, as well as coarser-grained diorite and syenite. On the west side of the Columbia the mountains are very rugged and broken, but none are probably over 6.000 ft. above the sea. The altitude of Trail is 1,400 ft. and Ros-land 3,800 ft. In the vicinity of Trail Creek the mountains north of the creek are called the North Belt and those south are called the South Belt. Roseland lies in the North Belt. Bodies of lime have been found in the South Belt. The principal veins in the Trail Creek country have a strike in an easterly and westerly direction, but if it is true that iron capping marks a vein, they may be found running in almost every direction. It is be-lieved at Rossland that every iron capping covers a vein and that if the

into one great shoot, over 300 ft. long. It is generally believed that the ore shoots incline to the east; it is certain'y so in the Le Roi. The ore is iron and copper pyrites, white and magnetic iron. The pro-portion of copper is from a trace to 20%. It is estimated that the copper in the whole camp will average 3%. In a general way, it may be said that the 'igher the value in copper the richer the ore is in gold. But this is not always the case, for often very rich copper carries but little gold. The ore needs no concentration. The iron in the ore is con-sidered very valuable as a flux, and it has been treated at the smelters very cheaply, so cheaply that there has been a profit on ores that yield \$20 a ton. There is a little silver in the ore, but so little that it is seldom taken account of in estimating its value. The ores of the War Eagle



LE ROI MINE, KOOTENAY, BRITISH COLUMBIA.



TRAIL CREEK SMELTER, BRITISH COLUMBIA.

vein is explored more or less good ore will be found. Inquiry in regard to large ore bodies always being found under the iron capping were an-swered in the affirmative. It seems to an observer that it would be foolish to expect that every vein was mineralized sufficiently to pay for working, even if every such capping covered a vein. The east and west veins, the only ones that have been explored to any great extent, dip to the north. So far every vein explored has proved to be larger at depth and the ore richer. The ore shoots, however, do not seem to grow in length. In the War Eigle, there were four ore shoots on the surface, but in the lower tunnel, some 250 ft. below the apex, these shoots had grown

mine carry about six ounces of silver to the ton. In the other mines the average will not be three ounces. The ore bodies of the several mines of the camp are very large, as will appear from a description of them. Much of the ore is of low grade. So far as developments go there is probably more tons of ore below \$20 in value than there are above that amount. The Le Roi is probably the largest mine in the camp; at any rate it is the best develo ed. The shaft has been sunk to the 450-ft. level on the lead which inclines between 50 and 60° . The perpendicular depth is about 300 ft. A shaft is being sunk from the lower level and has prob-

ably reached a depth of 500 ft. on the lead. The ore in this shaft is richer than the ore above, and it has been characteristic of this mine, and all others in the camp, that the ore has increased in richness as depth has been attained. A diamond drill has shown that there is 10 ft. ot good ore a short distance from the hanging wall, and other small veins have been encountered. The mine is working about 120 men, and will soon have an air-compressor plant of sufficient capacity to operate 40 machine drills, and there is so much ore blocked out that it could not be stoped with the present force in three years. The net value of the ore will amount to over \$3,000,000. There is at least 10,000 tons of ore on the dump. While there

present force in three years. The net value of the ore will allount to over is considerable low-grade ore in the mine, there are bodies that will run very high, much of it yielding \$70 a ton. Next to the Le Roi, the War Eagle is the best-developed mine. The lowest tunnel is 250 ft. below the apex. The ore shoot in this tunnel is over 300 ft. long. The average of the richest part of the ore (in the whole camp the richest ore has been found on the hanging walls of the verous) is over 14 ft. wide, and its value is very great. Mr. James Clark, superintendent, informed the writer that a large body of it would run 8% cooper and carry \$80 gold to the ton. A very conservative estimate puts the net value of the ore above the bottom of this tunnel at over \$1,000,000. A shaft has been sunk on the Iron Mask mine, belonging to the same parties that own the War Eagle, though organiz-d in a different company, and it is said that the War Eagle will be worked through this shaft below the present tunnel. The Iron Mask is proving to be a good property, and some are claiming that it will prove to be a greater pro-ducer than the War Eagle. The former is bonded for \$1,000 000 and the War Eagle for \$.00,0.0. Unless the present stockhold-rs retain part of their stock, the mines are very cheap at the figures stated. There are 95 men employed on these properties. The Contro Store theough it has ship one one is the next hest-developed men employed on these properties.

men employed on these properties. The Centre Star, though it has shipped no ore, is the next best-developed mine in the camp. The tunnel is driven about 850 ft., and at its face is probably 250 ft. below the apex of the vein. which is 70 ft. wide, and dipping to the north at an angle of about 60°. There is a small ven, some three feet in width some distance south of the foot wall, and two somewhat larger veins north of the hanging wall. There are several shoots of ore in the immense vein. There are ore bodies on the hanging and foot walls as well as in the center of the lead. The richest ore is on the hanging wall and is over 12 ft. wide. One body is over 140 ft. long and 35 ft. wide. and it will yield from \$35 to \$50 a ton. The net value of the ore above the tunnel is at least \$2,000,000. The losie was the first mine to shup ore in the camp. It is developed

The Josie was the first mine to ship ore in the camp. It is developed by a tunnel in some 540 ft. There was a good body of ore at the mouth of the tunnel, and the next body was 140 ft. long and the third 40 ft. long. The lead was about 7 ft. in width. There are four veins on the property, two of which are being worked. The ore has been very

The Nickel Plate is down 150 ft., and is being worked through a shaft. The Nickel Plate is down 150 ft., and is being worked through a shaft. A crosscut was driven north from the hanging wall and at some 12 ft. a rich streak of ore 1 ft. wide was cut. At 100 ft. a second vein was struck some 4 ft. wide, and at 220 ft. a third vein was struck, but the ore was of little value. At the surface the vein upon which the shaft was sunk was only about 8 in., at 150 ft. it is 4 ft., and it is believed that three of these veins will come together at depth. The ore in the Nickel Plate is the richest in the camp, much of it running over \$100 to the ton. The Jumbo, on Spokane Mountain, some three miles from Rossland, is probably the larcest muse in the camp and contains bodies of one that

The Jumbo, on Spokane Mountain, some three miles from Rossland, is probably the largest mine in the camp, and contains bodies of ore that run well. All these mines are in the North Belt. In addition to these there are many others, the most prominent of which will be found in the list of producing mines given below. The Great Western is the most prominent prospect in the camp. It has nine distinctly marked veins on the surface, some of them very large. In several shafts ore has been en-countered, and if these should prove to be as large and rich at depth as those already developed, a great property, probably the greatest in the world, would be the result. world would be the result.

The South Belt contains some good mines, but none of them are so far developed as those in the North Belt. There is considerable galena ore in the mines of the South Belt, carrying silver and gold. The best-de-veloped of these is the Crown Point.

The only free-milling property in the Trail Creek region is the O. K. on a mountain of the same name. The vein i + in diorite. A 10-stamp mill is being erected on the property, which has already yielded largely.

Some parties aver that there are no venins in Trail Creek region; that there are only large and irregular deposits of ore. That they are mistaken is shown that by the fact that the ore is found in the direction of the indications; that there are walls found in which there is no ore, and that on these walls, as well as on many seams and slips of the rock, calcite gouge is found. The walls of the Centre Star, though 70 ft. apart, are as

gouge is found. The waits of the Centre Star, though 70 ft. apart, are as us clearly defined as the walls of any vein. The ores of the camp were formerly hauled to Northport by wagon, 17 miles, and shipped to the smelters both east and west. Since the smelter has been built at Trail all the ores the smelter can handle have been sent to Trail, especially since the narrow-gauge road to Trail has been built. It is stated that the Trail smelter will be enlarged, and that much of the ores from the Le Roi, War Eagle and other mines will be treated there. But if that smelter was twice its present capacity, it could not treat all the ores furnished by the L^a Roi mine alone. When the road to Ross-land from Northport is completed (and it will be before the snow falls sufficiently to interfere with its construction), the ores can be sent at con-siderably reduced rates to the United States smelters. If the smclters of British Columbia want the ores the Canadian Pacific must build branches No doubt several smelters will be erected in Rossland before to Rossland. this time next year

Coal is now used for the furnaces, but wood will be used as soon Coal is now used for the furnaces, but wood will be used as soon as there is enough seasoned on hand to keep the smelter running steadily. The product of the smelter is an iron matte, the value of which the man-agement would not state. This matte is shipped to Butte, Mont., and is used to flux the ore and enrich the copper produced in the smelter there, belonging to the same men. It is the intention to put in a refining plant at Trail, where the matte can be refined. The mines of the camp ready to produce ore, beside those already men-tioned. are; Cliff, St. Elmo, Consolidated St. Elmo, Virginia, Poorman, Columbia, Kootenay, and Iron Horse, in the North Belt, and Crown Point, Mayflower and Lily May, in the South Belt.

THE GOLD INDUSTRY OF BRITISH GUIANA.

Written for the Engineering and Mining Journal by David E. Headley.

The development of the gold industry of British Guiana may be said to have been started in the year 1864, and its start was somewhat romantic

It was at Bartica Grove in the year 1864 that Mr. B. V. Abraham came across some miners, who had come by way of the Cuyuni River from the Upata Mine in Venezuela, and in their possession was some black sand which was shown to him and in which he detected auriferous signs. He then placed the matter before some influential gentlemen, and sufficient money was subscribed for the purpose of testing the place where this black sand was found. Mr. Abraham then proceeded to the place, and on testing the quartz found that the pannings justified the expenditure of money. A company was then formed under the cognomen of the British Guiana Gold Mining Company, and which may be said to have been the pioneer gold company. But strange to sav, signs were apparent which left no doubt that the British Guiana Gold Mining Company was not the first to be on that spit in search of the precious metal. An iron mortar and pestle were found buried deep in the soil, and from the signs of age which they exhibited were said to be no less than three hundred years old.

old. On the same spot were also found some battle axes, evidently prehis-toric we pons of Indian warfare. After the formation of the British Guiana Gold Mining Company, the Government was then approached for a concession, which was granted, comprising fifty square miles of auriferous country, from the source of the Uari Creek to its mouth : nd two miles of land on either side. A first-class mining engineer was put in charge of the property, but the gold won during the first twelve months being output to the source of the large the start of the charached being only two ounces, great disappointment was caused to the sharehold-

Mr. B. V. Abraham, however, proceeded to the mine and assumed the

management, and the returns were infinitely better. In 1866 Mr. Abraham went to England, and succeeded in interesting some Australian capitalists in the mine. Arrangements for the sale of some Australian capitalists in the mine. Arrangements for the sale of the mine were concluded, but just as the agreement was on the point of being signed, the Venezuelan G vernment protested on account of the concession being in the disputed territory. This frightened off the cap-italists, and all arrangements for the sale of the mine were cancelled. The shareholders were disinclined to go on and the mine was abandoned,

The shareholders were disinclined to go on and the mine was abandoned, and all the tools, muchinery, etc., was left to rot. An idea may be formed from the price offered what the intended purchasers thought of the property; it was £15.000 in cash and £15.000 in shares. But it was not until about 20 years later that any systematic search for the precious metal was made, and the result of that search has made British Guiana one of the recognized gold-producing countries of the world. The recognition which the gold industry met at the hands of colonists was in a great measure due to the unremitting toil and explora-tion of the interior of the colony by such men as D'Amil Brown Breas tion of the interior of the colony by such men as D'Amil, Brown, Bre-mond and the veteran gold hunter Jules Caman, who made some lucky finds in his day.

During the years 1882, 1883 and 1884, the output of gold was not large on account of the few companies engaged in the work. Extensive pros-specting was impeded by the large advances demanded by laborers, cost of getting goods into the interior, and in getting reliable and practical men as prospectors.

men as prospectors. During this period there was no settled mode as to the location of claums, therefore each prospector who went into the interior occupied whatever land he found to be rich and started washing gold. The result of this was that any other company that came along and had a stronger force drove off the company aready located and enjoyed the fruit of their luck and labor. This state of affairs led to many disputes, and, in some intances, to the shedding of blo-d.

At this juncture (1887) the Government stepped in and made regula-tions. This necessitated each prospector arming him-elf with a prospect-ing license, which cost him 24 cents for a term of one year and gave him the privilege of locating any creeks found by him and the protection of Government. the

Many citizens during this time had bitter experience. Unscrupulous fellows would go to them with a couple of pennyweights of raw gold, declaring that they had found rich creeks. Scores of them got expedi-

fellows would go to them with a couple of pennyweights of raw gold. declaring that they had found rich creeks. Scores of them got expedi-tions costing several hundred dollars, departed for the bush, and, after remaining for a few weeks, would return without a grain of gold. and in some cases let in confiding partners for thousands of dollars. A favorite trick tried on by vagabonds on the uninitiated was the taking of spelter and hawking it around for gold, and many who bought thus stuff found to their cost that "All that glitters is not gold." The output of gold never-theless continued to increase year after year until the maximum output of any year was reached in 1893, the amount of gold won being 142,788 oz. This has been all achieved by means of the most primitive methods, and by local capital solely. During the years 1884 to 1892 the working of gold was prosecuted with the utmost coolness and equanimity, but the feverish excitement which takes place on every new gold field was only evinced in the colony with the advent of Messrs. Tennant & Connolly from London, 1898. On every side were heard tales of untoid wealth, only lying in the interior, to be won by the spending of capital in the development of quartz mining claims. Expeditions were sent out and numberless mining claims were located. On every hand could be heard the words, "Tennant, gold and shares," Company after company was floated, and many who had hoarded up their little savings took them out, and those who had none borrowed from friends or pledged securities, to procure shares, each investor vieing with the other to see who could sub-scrib: for the most shares. All were laboring under the delusion that everybody would be rolling crib : for the most shares. All were laboring under the delusion that everybody would be

rolling in wealth within the course of a year; but, alas! all the vast castles that were built in the air toppled over, and the golden dreams passed away, leaving nothing but disappointment and regrets; and it is the fate of prominductor which is not support to the support of the last of the support every industry which is not run on a firm commercial basis, but on

wild speculation. The outcome of this crash was that many who had invested in gold ventures suddenly ceased to do so, a want of confidence was felt in the

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industry, and expeditions to the interior were no longer sent out. Some of the companies died a natural death, and others are still lingering in expectation of better days. The industry is only now recovering from the blow that was dealt it.

Staring with 250 oz. in 1884, in 1889, 28,282 oz. were produced : 1890, 62,615 ; 1891, 101,298 ; 1892, 129,615 ; 1893, 142,788 ; 1894, 129,670 ; 1895, 122.023.

Output of gold from the different rivers during 1894 and 1895:

1894. Oz.	1895.	Oz.
1894. Oz. Barima 29,4	93 Barima	
Barama 3,8	48 Barama	4,618
Cuyuni		
Groete Creek 1		
Mazaruni		
Puruni 2.9		
Essequebo		
Potaro		
Domorupa	15 Demerara	21

The auriferous portion of the colony is divided into five districts for the convenience of carrying out the gold regulations. District No. 1. —From the left bank of the Corentyne River to the waterbetween the Demerara and Berbice rivers, with all the tributary

streams. District No. 2.-The Demerara and Essequebo rivers and tributaries ex-

District No. 2.—The Demerara and Essequedo rivers and tributaries ex-cepting those of the E-sequebo below Bartica. District No. 3.—The Mazaruni River and tributaries to the watershed b-tween itself and the Cuyuni River. District No. 4.—The Cuyuni River with all its tributaries and the tribu-

taries of the Essequeho below Bartica. District No. 5.—The northwest district, including the Pomeroon River and all rivers, creeks and streams to the north of the watershed of

District No. 5.—The northwest district, including the Pomeroon River and all rivers, creeks and streams to the north of the watershed of the Cuyuni River (left bank). District No. 1.—Very little has been done in the way of prospecting this district. A few expeditions have gone up the Berbice River, but they have all returned with reports of only having seen traces of gold. The general belief is, that gold some time to come will be found higher up the river, but on account of the almost impassable barriers, in the way of cataracts, very little of the upper portion of the river bas been explored. District No. 2; Demeran River.—A good many expeditions have been up this river and a little gold has been won by alluvial washings. From reports, time after time, colonists were led to believe that this would be the district of the colony for quartz mining. But the belief was scat-tered to the wind by the bursting of the Kanaimpoo "Bubble." After the arrival of Mr. J F. Connolly, M. E., and the subsequent arrival of Mr. R. Tennant (Mr. Connolly's principal) the Kanaimpoo mine was floated not a limited liatility company (Mr. R. Tennant being promoter) with a capital of £50,000. Development was continued under Mr. Mulford, who was sent out by Messrs. Fraser & Chalmers, of Chicago. A 20-stamp mill was erected, and after the expiration of about 12 months crushing was started, and the result of the first fortnightly crushing was dis-astrous, yielding 119 oz., 20% of which was copper. The mine was ultimately shut down and was bought by the Sproston Dock and Foundry Company. The collapse of this company brought universal consterna-tion and a want of confidence in mines and miners. Since then the only active operations that have been carried on in this river are at the Appa-num muse, the preparety of Mr. Larges Winter active operations that have been carried on in this river are at the Appa-paru mines, the property of Mr. James Winter. This river (Demerara) is destined to become the highway to the Potaro,

Conswaruk and their tributaries, by the laying of a railroad connecting the Demerara River with the upper Essequebo. All pa-sengers, etc., will go by way of steamer up the Demerara River and by train across to s quebo. th

Potaro River (No. 2 District) is a tributary of the Essequebo, and, Fourier (No. 2 District) is a tributary of the Essequebo, and, standing about fourth in the list for gold production, has turned out a considerable amount of gold. The largest gold producing company has been the Rhodius Syndicate. Gold made by Rhodius Syndicate from alluvial washings: 1893, 3,564 oz.; 1894, 3,987 oz.; 1895, 2,510 oz. Very rich samples of gold-bearing quartz have been brought down from this river from time to time, which indicates that there are rich leads to be found in the vicunity. be found in the vicinity Conawaruk River (No. 2 District) is about the least known among the

Conawaruk River (No, 2 District) is about the least known among the gold-producing rivers, but its output is equal to any of the others. It was in this river some years ago that a Mr. Luckie, in the employ of the Sproston Dock and Foundry Company found a large piece of gold and quartz weighing 40 lbs., about 5% of this was quartz. Quartz samples, extraordinarily rich, have been brought down from this river which, if given good facilities in the way of roads and convey-ances, will I believe become the richest quartz mining center of the colony

colony

Situate on this river are the claims of the Garnett syndicate. put of gold being as follows: 1891, 5,302 oz.; 1892, 8,538 oz.; 1893, 15,839 oz.; 1894, 11,958 oz.; 1895, 9,153 oz. Upper Essequebo River (above Bartica).—This portion of District No.

Upper Essequedo fiver (above Bartica).—Inis portion of District And 2 has turned out a considerable amount of gold, all of which may be said to have come from the celebrated "Bonanza" Omai Placers, owned by Jacobs, Rosa & Carreiro. This has been the richest plot of placer ground found in the colony as yet. The output of gold, 27,231 oz., which was won with an average of about 100 men, between 1889 and 1893, will give some idea as to the enormous dividends it has given. It is at present lying idle idea as to the enormous drividends it has given. It is at present lying idle until some scientific process is brought into play to extract the enormous amount of gold which is contained in the tailings, and gravel which are too poor to be worked by the ordinary methods, not to say anything of the supposed rich leads that are around, and which I have no doubt but that future development will expose.

that future development will expose. District No. 3.—Mazuruni Raver was explored by Jules Caman, the veteran gold hunter, who located some very rich placers which he sold some time after for \$30 000 to a combination which was known as the Essequebo Gold Company. After some time the name of this company was changed to that of the Barnard Syndicate, and under the able man-agement of Mr. A. B. Barnard has turned out about three-quarter mil-hon dollars worth of gold, which gave the shareholders handsome divi-dends. There is a vast amount of land in this river waiting to be ex-plored which some day may yield up its treasures to practical miners backed by capital. Puruni River (No. 3 District) may be said to have been the "pioneer" acked by capital. Puruni River (No. 3 District), may be said to have been the "pioneer"

river of the colony, as all the first expeditions that were sent in search of gold explored its banks, an 1 it was on account of the rich finds made that the colony was believed to contain rich goldfields. Years gone by the production of this river was very large, but it has fallen off consider-ably on account of prospectors having been attracted to other rivers. District No. 4.—Cuyuni River—It is on one offhet tributaries of this river that the assault was made by the Venezuelan policemen on Inspector Barnes and his men and for which Venezuela has just had to pay £1,600. Gold washing has been pursued with a large amount of push and energy and has given satisfactory returns to a large number of investors. Chief among them may be mentioned Messrs. Duarte and D guar, the output of their placers being in 1893 4,075 oz. 8 dwt. 3 gr.; 1895, 3,753 oz. 2 dwt. 2 gr.

of their placers being in 1893 4,070 02.0 uww were at the placers being in 1893 4,070 02.0 uww were at the second second

well defined quartz reefs can be seen on every hand, many of them cross-ing the course of the river, and from the clayey substance by which they are inclosed rich pannings may be obtained. Chief among the men who have made money may be mentioned Mr. W. H. Goring, whose largest monthly output was 960 oz. Large nuggets have been found weighing as much as 80 oz. Barima River.—This is the "pioneer" river of the Northwest District. and is the one in which the destiny of the colony is bound up, as, should quartz mining here prove a success, the success of the colony will be as-sured. A large quantity of alluvial gold has been won from the Barima, which in 1894 and 1895 stood second among the gold producing rivers. Among the companies which have done most to push alluvial mining in the Barima are the Arakaka Piacer and Mining Company, Dragten and Ouckama, North West Syndicate, and Lewis, Winter & Garnett. The concern mentioned under the name of Lewis, Winter & Garnett was very prosperous until the advent of a Mr. George Dixon, from Eng-land, who made propes als to the partners to allow him to handle the property, promising to give them a return of \$.00,000 oz. in six months, and for these proposals he was given \$400 per month and taken in as a partner. The affairs of the company were managed in such an uppractical manner that Messrs. Garnett & Winter were let in for a matter of \$110,-000, and all the preparations made for working were abandoned and now

manner that Messrs. Garnett & Winter were let in for a matter of \$110,-000, and all the preparations made for working were abandoned and now stand as a monument to stupidity. With the advent of Messrs. Tennant and Connolly in 1893, much en-thusiasm was shown about gold in the Barima and everybody who was interested in the industry felt like being the owner of a mine, in conse-quence of which mining claims were located all along the Arakaka Creek. Although everybody's expectations were not realized, yet much must be placed to the credit of Messrs. Tennant and Connolly who so abiy baland to bring the industry to the provide of the Lordon murus company. helped to bring the industry to the notice of the London mining commun-ity, more especially the latter named gentleman, through whose indefatigity, more especially the latter named gentleman, through whose indefatig-able efforts the Sir Walter Raleigh Company has been floated and who is still among us laboring for the success of the mining industry. But to Michael Farraher must be placed the credit of being the first to attempt mining in the Barima. Messrs. France and Theobald located some min-ing claims and Michael Farraher was got to develop the same, and with their push and energy associated with that of Messrs. Connolly and Ten-nant, was floated the company known as the Barima Gold Mining Com-pany, and which, if handled properly, is detined to eclipse anything yet heard of and to amaze the mining world. I have had the opinions of practical men who have visited the colony and they all express their worder at what is seen on every hand.

wonder at what is seen on every hand. Float quartz can be seen scattered all over the district which gives ex-traordinary rich pannings. Large deposits of alluvial (wash) can be found on the hillsides carrying a large amount of gold which some day will be handled when practical men backed by capital come among us. Chief among the companies, is the Barima mine, with a capital of \$300 000 and a subsequent issue of 12,000 preference shares. This property has met great vicissitudes. After it was floated into a company a "Yanwee" known as Harris was selected as manager and sent up to the mine. His report was made, which meant anything else besides saying that the mine was good. He made the most determined eff. ris to ruin the company by putting in unnecessary work, and in one saving that the mine was good. He made the most determined eff. ris to ruin the company by putting in unnecessary work, and in one instance when his men struck a reef that was showing gold he deliberately blocked it in and drove the tunnel in another direction. Fortunately for the company his intentions were found out and he left the country in disgrace. Under the manage-ment of Mr. Spiers (who was sert up to report on the prop-erty prior to Harris being discharged) the company has come to the front and is destined to have no rival on any known field. From one of the reefs which is in a tunnel which has been driven for a cistance of 300 ft. can be got quartz samples, no matter how taken, that will average 29 oz, to the ton. The deepest shaft on the property is 200 ft. and the reef goes down into solid formation and gives an average of about 6 oz. per ton. Mr. Spiers, who was manager of the property, has now resigned and Mr. Watson, who was sent out by Mesrs. Fraser and Chalmers, is manager and under his management a 20-stamp mill has been erected. Crushing will be started this month.

will be started this month. New York & British Guiana Mining Company is a New York concern with a nominal capital of \$1,000,000. The New York folk bought some mining claims from Capt. E. T. White and others, and floated the above company. This company's claims have been pronounced by Mr. Watson, the mining engineer of the Barima Gold Mining Company, second to none in the Barima. Mr. Watson is the best authority we bave in the colony, and his opinion is regarded as correct, and always commands both re-spect and confidence. Mr. L. W. Adams, M. E., of San Jose, Cal., was sent out to the colony as manager, and under his able management the property has been splendidly developed, and if properly handled, will be-come one of the successful mines of the country. This property should have been more advanced, but matters have not been pushed with that amount of energy which is characteristic of American concerns. amount of energy which is characteristic of American concerns

Sir Walter Raleigh Mining Company.—This is an English company and is located on some of the best ground in the Barima. And I see no reason why it should not be a big dividend-paving concern later. That is my earnest desire, especially on account of its name, as should it prove a success it will help to perpetuate the name of one of England's greatest men who have helped to make her arms encircle the globe. Among the other many companies are development syndicates and private concerns which are all developing slowly. Mining in British Guiana is bound to succeed, as we have in the coun-try all the superficial signs that are liked to be seen by miners, and which undoubtedly show that the districts are rich in quar z veins. Here we have not to transport machinery, etc., over almost impassable mountains, nor have we to encourier the enormous charges that are made for con-veying machin-ry, stores, etc., in Western Australia and South Africa. Barring South American mining fields, I doubt if there is any other field where mining can be done so cheaply. Our industry now appears to be attracting attention from abroad. In January, 1896, Professor Aruzuni was sent to this colony by Rotinschild and two other Beilin bankers. He has been in all the auriferous districts of the colony, and his opinion of British Guiana can be gauged from the fact that after his arrival in Berlin, the agent of the Berlin combination, Mr. Jacob D Jonge, has made large moneyed offers for a six months' option on several of the mining properties in the Barima. properties in the Barima.

properties in the Barima. The climate of the colony has been roundly abused by many persons, and many of the trades that have appeared in the papers from time to time have been from European and Americans who come out to a tropi-cal climate and go in for a great amount of dissipation and very often trying to convert themselves into stills; they invariably go under and then it is put down to the climate of Bruish Guiana. But any white foreigner who is prepared after arrival in the colony to live temperately, and according to hygienic laws will find it as desirable a climate as he would like to meet anywhere would like to meet anywhere.

DIAMONDS.

The first authentic discovery of diamonds made in the colony was on the property of Messrs Gilks and Kaufmann. Gilks, who was prospecting for gold, found 37 stones and on account of never having sten diamonds in their rough state was unable to decide whether the stones found by him were diamonds. On communicating with his partner, Mr. R. T. Kaufmann, who was in the city telling him of his find, he replied, asking Kaufmann, who was in the city telling him of his find, he replied, asking him to forward the stones and on receipt of them they were examined by Professor Harrison, who pronounced them to be diamonds. During the space of twelve weeks Gilks fr and 896 stones. The size of the largest stone found was 2_{15}^{15} carats. With these stones were also discovered topaz, white sa; phire and corundum. Mr. A. B. Barnard has also found some good diamonds at the Hima-racka Mazaruni River. The last find was made a few months ago in the Potaro at the Infl-xible Syndicare, and was shown to Professor Aruzuni, geologist, who pronounced them to be stones of the first water. It is evident from the above that diamonds are to be found in British Guiana in large quantities, and the colony may, with capital and scientific

evident from the above that diamonds are to be found in British Guiana in large quantities, and the colony may, with capital and scientific search made by men experienced in diamond mining, prove to be a lucrative field for diamond mining. The late gold commissioner, Mr. E. P. Wood, says: "There is not the slightest doubt that diamonds are to be found in the different rivers of the Colony, and it is possible a dry mine may be found in the neighborhood." The samples I have seen have been perfectly glassy octohedron stones of the beet quality, and I consider that the country has a possible future as a diamond-incolution country.

a diamond-producing country. The writer wishes to thank the following for information : R. P. Kauf-man, George Garnett, Patrick Dargan and D Guair, and the Demerara Daily Chronicle, for the statistics obtained from its columns.

DETERMINATION OF SULPHUE IN ROASTED ZINC BLEND.

Written for the Engineering and Mining Journal by J. George Heid,

The raw zinc blend contains in addition to zinc sulphide a large quan-tity of iron sulphide, as well as smaller quantities of other metallic sul-phides. Calcium and magnesium carbonates are also mos ly essential constituents of the biend. The roasting process should be for the purphides. Calcium and magnesium carbonates are also mos ly essential constituents of the biend. The roasting process should be for the pur-pose of volatilizing the total quantity of sulpiur, under the formation of sulphurous acid, whereby the metallic sulphides are transformed into oxides, and thus brought into a fusble state. The roasting process fol-lows, though by no means so smoothly that the total sulphur volatilizes as sulphurous acid, but it will be found that the total sulphur volatilizes ulphides, as also particularly calcium and magnesium sulphates.

sulphides, as also particularly calcium and magnesium sulphates. In order to determine if the reasting process has sufficiently succeeded, we must ascertain how much sulphur, yet in the form of sulphides, is contained in the ore, but the sulphur combined with hime and magnesia in the form of sulphuric acid must not be determined with it. As we know by experie, ce most chemists in determing the sulphur in the rousted ores, do not take the presence of the sulphur as su phates into consideration, and simply determine the total sulphur, whereby too high results are naturally obtained. In the following seven samples of reasted zinc blende we have de-

In the following seven samples of roasted zinc blende we have de-termined the total supplur contained, and have obtained the following results:

ſ.	II.	III.	IV.	v.	VI.	VII.	
2.15.	1.25	1.80.	0.95.	2.75.	1.10.	1.65.	

We have removed the sulphates contained in the same samples and then again determined the sulphur therein, which resulted as follows:

III. 0.13 IV. 0.25 I. 0.42 V. 0.36 VII. 0.12 VI. 0.07 0.55

By this means the actual quantity of sulphur was obtained, which alone can be the standard for the control of the roasting process. To determine the sulphur contained in the roasted blende as sulphide, proceed in the following manner:

Boll 1 g. of the finely pulverized sample in an Erlemeier flask of about 200 cu. cm. capacity with about 50 cu. cm. of a 5% sodrum acetate

solution, let it settle and decant the liquid resting above the precipitate through a fine filter, rept at this operation and boil in the same manner twice with distilled water. By this means all the sulphur occurring as sulphates is extracted. The filter is then placed into the Erlemeier flask, that which is in the flask with the filter is treated in the manner known with fuming nitric acid to transform the sulphur into sulphuric acid, and the sulphur determined according to practice as Barium sulphate.

PATENTS RELATING TO MINING AND METALLURGY.

United States.

The following is a list of the patents relating to mining, metallurgy and kindred subjects issued by the United States Patent Office. A copy of the specifications of any of these will be mailed by the Scientific Publishing Company upon receipt of 25 cents.

WEEK ENDING AUGUST 11TH, 1896.

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Great Britain.

The following is a list of patents published by the British Patent Office on sub-ects connected with mining and metallurgy:

- 15,656 of 1895. W. H. James, London. In dissolving gold by cyanide, the use of peroxide of byorogen to give the requisite supply of oxygen.
 15,729 of 1895. F. Hurd and J. J. Milar, Glasgow. Improved cutter bar for coal-cutting machines.
- cutting machines. 16,721 of 1895. J. Ffl g+r, Kaiser-lautrn, Germany. It electrolytic baihs for deposit-ing gold from cyanide solutions, forming the diaphragm of ramile
- 6,290 of 1896. D Pemakoff. Pierre Huy, Belgium. Forming double sulphides of aluminum and alkalı metals by acting on aikaline aluminates with sulphur or carbon desulphide.

WEEK ENDING JULY 18TH, 1896.

- WEEK ENDING JULY 18TH, 1896.
 6,009 of 1895. W. M. Mackey, Leeds, and J. F. Hutcheson, Glasgow. Making scdium cyanide by subjecting in a furnace a mixture of carbonaceous matter and a compound of sodium to the action of two blasts, one to dry the mixture before it is acted on by the other.
 12,692 of 1995. P. A. Gasse, Paris. Using czone for oxidizing sulphide ores.
 14,162 of 1895. L. F. Gowans, Joh-nnesburg. In cyanide tanks injecting air into the solution through pipes, thus supplying the necessary air and also keeping up the dirculation. Making zinc and chlorine by roasting blende to sulphare, treating with salt, and electrolyzing the resulting solution of zinc chloride.
 15,954 of 1895. Societ pour l'Extraction Integral et Economique de l'Ore Procédé de Rigand, Paris. The use of sulphur chloride as a solvent for gold in ores.
 16,737 of 1895. J. Pfleger, Kaiserelautern, Germany. In baths for the electrolytic deposition of gold from solutions, the use of an electrode made of into wile.
- iron wire. 10,097 of 1896. J. Jon s. Melbourne. Treating antimony gold ores with hydrochloric acid and electro-depositing the antimony. WEEK ENDING JULY 25TH, 1896.
- 14,060 of 1895. J. U. Askham. Sheffield. In crushing mills in which arms carry rollers, mecha³ ism for detaching the rollers and reversing them.
 14,682 of 1895. J. Dick. Glasgow. In frue vanners, using a contact surface for the travelling band. made of some fibrous material.

- travelling band, made of some fibrous material.
 WEEK ENDING AUGUST 1st, 1896.
 13,534 of 1895. E. A. Asheroft, rowen Hill, New South Wales. Certain modifications of the patentre's process for traving zit c lead subbides.
 17 707 A of 1895. N. G. Kuuberley, London. Improvements in jaw crushers.
 23,950 of 1895. C. Parnacott, Londo A white alloy of great strength and non-currodible, made of 14 parts copper, 20 parts inckel, 25 parts zine, 7 parts iron, 3 parts coalt and 1 part magnesium.
 6,999 of 1896. A Hussener, Essen, Germany. Improvements in horizontal by-pioduct coke ovens.
 12,519 of 1896. J. T. Penney, Adelaide, and J. Dungey, Melbourne. The use of kerosene to stop sickening of mercury in amalgamators.

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PERSONAL.

GEN. E. W. RUCKER, vice-president of the Sloss Iron & S'eel Company, Birmingham, Ala., has been elected president of the Alabama National Bank to succeed R. M. NELSON.

MR. GEORGE ZOELLER, who for the past five years has been superintendent of the Chattanooga divi-sion for the Pullman Palace Car Company, has re-signed and is now associated with the Kentucky Jellico Coal Company.

MR. JOHN BONSALL PORTER has recently been appointed professor of mining and metallurgy in the McGill University, and MR. HERBERT W: UMNEY appointed assistant professor of civil engi-neering in the same university.

MR. WILLIAM WARING, mechanical engineer of the Hidalgo Mining Company, Pittsburg, left there last week on a six week's prospecting tour through the Black Hills, Colorado, Nevada and Mexico. He was accompanied to Chrcago by MR. S. A. GILL, president of the company.

MR T. W. GOAD has resigned the active manage-ment of the Goid and Silver Extraction Company of America, his resignation to take effect on Septem-ber 1st. MR. GOAD has been in Colorado for 17 years, was prominently connected with early min-ing operations at Leadville, and other parts of the state.

MR. HENRY PENTON, now with S. F. Hodge & Company, Detroit, Mich., has been appointed super-intending and designing engineer of the Chicago Ship Building Company's new engine works, and will enter upon his duties September 1st. Plans for the new works are completed, and their con-struction will soon be begun.

MR. GEORGE LOWE, formerly general superin-tendent of the Pul.man Iron and Steel Company, at Pulman, Ill., has been employed to succeed MR. LEVI BIBBINS, resigned, as superintendent of the rolling mill of the United States Car Company, at Anniston, Ala. The mill was shut down for a few weeks on account of a strike, but has resumed oper-ations. ations

OBITUARY.

WILLIAM T. BULLIS, inventor of a process for re-covering gold from sand, died suddenly August lith at Glens Falls, N. Y.

WILLIAM GREEG died recently at Charleston, S. C., aged 39 years. He bad been engaged for many years in pho-phate mining.

J. D. REED, superintendent of the Woodward Iron Company's coal mines at Dolomite, Ala., died at his home in that place July 31st.

EDWIN J. DU VAL died near Petersburg, Va., August 1st, aged 82 years. He was largely inter-ested in coal mining, sawmilling and mercantile enterprises.

JAMES M CLARK died August 10th at St. Michael's, Md., aged 72 years. Mr. CLARK was formerly a resident of Wextmoreland, N. Y., where he held an interest in the malleable iron works.

ROBERT P. KEATING, superintendent of the Sav-age, Justice and other Comstock mines, in Nevada, and one of the best-known men on the Pacific coast, did at Virginia City, August 13th, aged 56 years.

did at Virginia City, August 13th, aged 56 years. ALEXANDER HENRY GREEN, M. A., F. G. S., F. R. S., died in London, England, August 20th, aged 63 years. In 1855 he was sixth wrangler at Cambridge and was elected Fellow of Caius College the same year. He was appointed in 1861 to a post on the Government Geological Survey of England and Wales, and became professor of geology and math-ematics in the Yorksbire College in 1875. In 1888 he became professor of geology in the University of Oxford. He was the author of "Physical Geology," "The Geology of the Yorksbire Coalfield," and vari-ous papers on geological subjects. PROF. JOSIAH DWIGHT WHITNEY of Harvard Col-

standard authority. Meanwhile, in 1865, he was ap-pointed professor of geology at Harvard; and in 1870 Yale conferred the degree of LL. D. upon him. He was one of the original members of the National Academy of Sciences, and a member of many learned societies at home and abroad. He trans-lated Berzelius's "Use of the Blow-Pipe," wrote "The Yosemite Guidebook," and contributed innu-merable scientific articles to different periodicals. Mount Whitney, the highest mountain in the United States, was named in his honor.

SOCIETIES AND TECHNICAL SCHOOLS.

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INDUSTRIAL NOTES.

The Shoenberger Steel Company, Pittsburg, Pa., is enlarging its steel plant.

The Tudor Iron Works of East St. Louis, Ill., have closed down pending more active demand for iron.

The Casey & Hedges Company, Chattanooga, Tenn., will add a foundry to their beiler-making plant.

The Bethlehem Iron Company has shipped two turret plates, weighing 80 tons, for the Iowa, to Cramp & Sons, Philadelphia.

The Big Stone Gap Colliery Company's coke plant at Norton, Va., has been sold to Oats & Company, of Knoxville, Tenn., for \$31,210.

The Pittsburg Forge and Iron Company, of Woods Run, Pa., has started files in 25 pudding furnaces, and will work them double turn.

The La Belle Iron Works, Wheeling, W. Va., ave ordered a duplex polisher from the Anderson have ordered a duplex polisher from (Ind.) Foundry and Machine Works.

The Penn Steel Casting Company has cast a 16-ft four-bladed propeller wheel for Roach's shipyard. The weight of the casting is 17,000 lbs.

The works of the Northwestern Chemical Com-pany, near Milwaukee, Wis., were des royed by fire last week. The loss is estimated at \$30,000.

The Robinson Foundry and Machine Company has been incorporated at Birmingham, Ala., with a capital of \$25,000. J. A. Wiggs is president.

The Harlan & Hollingsworth Company, Wil-mington, Del., will build a large ocean tug for the Philadelphia & Reading Railroad Company.

The 8, 12 and 16-in. mills of the Sylvan Steel Works at Moline, Ill., started with a full force on the 8th inst., and will run night and day until further notice.

Two thousand tons of Birmingham pig iron were recently shipped to Europe. The iron went by way of Mobile, Ala., at which place it was loaded in the steamer.

The Risdon Iron Works, of San Francisco, Cal., will furnish the water wheels for the Pioneer Power Company, at Ogden, Utah. Five Knight wheels will be used.

All the puddling furnaces of Zug & Co., Pitts-burg, Pa. have been put into operation, as also those of the Republic mill of the National Rolling Mill Company.

Jones & Laughlins, Pittsburg, have about com-pleted their new 34-in. blooming mill. Four more of the series of 40-ton basic open-hearth furnaces are nearly completed.

The Lebanon (Pa.) Manufacturing Company has sbipped 42 new hopper cars to the Philadelphia & Reading Railroad Company. They are the first of an order for 500, and are of 60,000 lbs. capacity.

The plant of the Crystal Emery Wheel Company at Northampton, Mass., which has been idle for more than a year, has been leased by George P. Alien, of Boston, with the privilege of purchasing.

The Carnegie Steel Company's ore mines at Scotia, Centre County, Fa, have been started up after a three months' shut-down and are now running full time, which means employment to several hundred

Furnace No. 1 of the Ashland Coal, Iron and Rail-way Company, at Ashland, Ky., which has been shut down for some time undergoing repairs, con-sisting of a new lining, etc., is beirg dried out and will be put in blast again at an early date.

Corrigan, McKinney & Company, Cleveland, O., have banked the Douglass Furnace, Sbarpsville, Pa., for an indefinite period, and have put in blast Char-lotte Furnace, Scottdale, Pa., for a short time, to use up supplies of coke and ore now on hand.

The contract has been let for the new plant of Block & Pollak, manu.acturers of steam forges and car ax.es, to be built at Carthage, O., at a cost of about \$20,000. It will be a steel structure, 80 ft. front and 350 ft. deep. The main contract was awarded to the Cincinnati Arch tectural Iron Works Company.

The Besserver steel work + of the Colorado Fuel and Iron Company, at Pueblo, Colo., have shut down completely, and it is said will not resume operations in any department until after election. The shut-down throws about 1,200 men out of em-ployment and from 300 to 400 at the company's iron works near Village Grove, in Sagnache County, and above Salida in Chaffee County.

above Salida in Chaffee County. The main building of the extensive phosphate and fertilizer works of Baugh & Sons Company, Phila-delobia, Pa., was destroyed by fire early on the morning of August 4th. A large quantity of costly grinding machinery and considerable stock in pro-cess of manufacture was also destroyed. Superin-tendent Wells estimated the company's loss at \$200,000, partly covered by insurance.

The Calcium Carbide Company, of New York City, has been incorporated to manufacture, install and deal in devices, apparatus and materials useful in producing light, heat and power. Capital, \$1,-200,000. The directors are: Emerson McMillan, Spencer D Schuyler, Francis Wyatt, Dewitt C. Flanagan, Richard W. Rundle, Frederick W. Jones, Cantine T. Scoville. George T. Thompson and Ernest W. Cocke, of New York City.

W. Cocke, of New York City. An entire locomotive plant will shortly be taken to St. Petersburg from Philadelphia, Pa., on the British steamship Lalcham, which has been char-tered for the purpose. The plant is to be erected at Nijui Nov.orod. the commercial metropolis of the interior of the Russian Empire. Contracts for ma-chinery for the plant, amounting to over \$500,000 were awarded to American manufacturers, the bulk of them coming to Philadelphia firms. The plant is to be built in connection with the Sarmova works, an extensive establishment engaged in manufacturing cars, steamboats, steam boilers, etc., and employing 5,000 hands. The locomotive plant will have a capac-ity for building 200 encines a year and vill employ about 1,600 hands. All of the foremen and engl-neers will be Americans. The buildings have been completed and are now ready to receive the ma-chinery. The Czar has given valuable encourage-ment to the enterprise. As nearly 85% of the rail-ways in the empire are operated by the government, the new company will get a great share of its work. The company will be known as the Russian-Ameri-can Manufacturing Company. The consignment aggregates over 3,000 tons.

TRADE CATALOGUES.

TRADE CATALOQUES. The Parke & Lacy Company, San Francisco, Cal., has issued a catalogue illustrating and describing the Ropp straight-line furnace for the smelting or chloridizing of base or sulphureted ores or the roasting of mattes. It is the invention of Mr. Alfred Ropp. Superintendent of the Selby Smelting and Lead Works, whose experience in Europe, Colorado, Montana and Californis has made him familiar with a 1 forms of mechanical roasters. The stand-ard furnace is 105 ft. long and 11 ft. wide in the clear, and has a cepacity of roasting 38 it nas of ore, containing 20% sulphur, 5% lead and 175% zinc and iron pyrites down to 5% of sulphur in 24 hours. To roast "dead" the farnace requires slow feeding, and will handle from 20 to 22 tons in 24 hours, reducing the sulphur contents to less than one-half of one

per cent. The following are the advantages claimed for the Ropp furnace: (1) Low cost of installation as compared with any form of mechanical revolving furnace, or any other fixed hearth mechanical rab-bling furnace, being from one-third to one-half less for the same capacity. (2) Low cost of maintenance, due to its simplicity. (3) Low cost of oreration, roasting with less fuel per ton of ore treated than one other and one men capacitation to the fuelness roasting with less fuel per ton of ore treated than any other, and one man can attend to the fireplaces and look after the ore fed into and discharged from the furnace. (4) Minimum amount of dust, as no blast is used and the ore is stirred only enough to present fresh particles to the influences of the oxy-gen. (5) The capacity of the furnace can be in-creased by increasing the width of the hearth and lengthening the rabble arms.

MACHINERY AND SUPPLIES WANTED.

If any one wanting machinery or supplies of any kind will notify the "Engineering and Mining Journal" of what he needs he will be put in communication with the best manufacturers of the same We also offer our services to foreign correspondents who desire to purchase A merican goods, and shall be pleased to furnish them information concerning goods of any kind, and forward them catalogues and discounts of manufacturers in each line. All these services are rendered gratuitonaly in

manufacturers in each line. All these services are rendered gratuitously in terest of our sub-orders and divertisers; the proprietors of one "Engineering and Mining Journal" are not brokers or exporter, nor have they way pecuniary interest in buying or selling goods of any kind.

GENERAL MINING NEWS.

ALABAMA.

SHELBY COUNTY.

MONTEVALLO LUMP COAL COMPANY.-This com-any is making arrangements for the brisk opera-ion of its mines near Digwood, on the Brierfield, Blocton & Birmingham Railroad.

ARIZONA. COCHISE COUNTY.

BUCKHORN MINING COMPANY .- The main shaft on this company's property has attained a depth of 216 ft., showing a strong, regular pay streak from top to bottom and averaging well in gold. There are also about 630 ft. of drifts, winzes, etc. The gold in the ore reported is remarkably clean and heavy. avy.

JOHNSON-FITTS .- The shaft in this mine is 55 ft JOHNSON-FITTS.—The shart in this mine is 55 ft, deep, and a crosscut here revealed the ledge to be 12 ft, wide. From this point a drift was run some 150 ft, on the ledge, occasionally curting through a rich "stringer" which, it is said, assayed as high as \$200 to \$300 per ton.

YAVAPAI COUNTY.

YAVAPAI COUNTY. SUNDANCE MINING COMPANY.—This company ownsa group of mines 11 miles from Prescott, con-sisting of the Silver Irail, Thorne and Lillian mines. The properties have 1,200 ft. of development work, all in good ore. Work is now being pushed on the Silver Trail, which carries a 32-in. pay streak of ore averaging \$40 per ton, gold, silver and lead. Twenty per cent. of the ore is shipping ore, and the balance milling and concentrating ore. There are now 200 tons on the dump worth about \$50 per ton.

CALIFORNIA.

AMADOR COUNTY.

REWARD -At this mine, near Pine Grove, which recently changed hands, 10 more stamps are to be added immediately, and the mine work will be vigorously pushed.

AMADOR QUEEN.—The long standing litigation between Vincent Neale and W. N. Bardue, involv-ing the title to a portion of this mine in Hunt's guich, has finally been settled by the Supreme Court, which rendered a decision August 3d, in favor of Neale.

BUTTE COUNTY.

(From Our Special Correspondent.)

(From Our Special Correspondent.) JOHN DIX.—At this mine, at the Forks of Butte, the tunnel is in over 1,000 ft., in good pay ground. Twenty men are employed. SPRING VALLEY MINING COMPANY.—This com-pany, which is still in the hands of a receiver, owns almost 100 miles of ditches, and its brush dam is in good repair. Five companies using mining der-ricks are working on this property, also a number of individual miners, all of whom pay a percentage to the receiver.

CALAVERAS COUNTY.

(From Our Special Correspondent.)

CHAPARRAL HILL.—This mine, on the mother lode, near Robinson's Ferry, has been bonded by A. N. Buits, of Salt Lake, Utab.

GWIN.—The shaft at this mine has reached a depth of 1,335 ft and sinking has been suspended while stations are being cut at the 1,300 and 1,200 levels. As soon as the stations are in far enough to make it safe to work in the sump sinking will be resumed. Grading for the 40 stamp mill is about completed and work on the mill will be pushed as rapidly as possible.

PIERANO.—This mine, on the Carson Road, 2½ milles from Ang.ls. has been purchased by Sait Lake parties and is being worked under the man-agement of Col. Woodrow.

MENDOCINO COUNTY.

(From Our Special Correspondent.) EDEN VALLEY COPPER MINE — This mine, located in Eden Valley, is being developed by an Eastern syndicate, working day and night shifts. The ore is said to be rich in copper.

NEVADA COUNTY.

(From Our Special Correspondent.) SUMMIT CONSOLIDATED.—This property comprises the Forruna, Orleans, Dodo and Live Yankee mines, located 1½ miles from Nevada City, and is an exten-tion of the Champion and Providence claims. Development work is progressing rapidly, and high-grade ore is being hoisted.

PLUMAS COUNTY.

(From Our Special Correspondent.)

At a point near the junction of Grizzly and Yellow creeks, about five miles below Humbug Valley, a good gravel mine bas been developed by two tunnels from the Yellow Creek side which cut into the ancient river channel. The body of gravel appears to be very large and rich.

HARRISON. —This mine, in the Granite Mountain District, 23 m les south of Quincy, is being developed by a tunnel now in 250 ft. The vein is 3 ft wide, the ore averaging only 85 for milling and 2% sulphurets. The 10 stamp mill operated by water power is crushing 30 tons per day. Seven men are employed.

SHASTA COUNTY. (From Our Special Correspondent.)

MADDOX.—This mine, on Whiskey Creek, fo niles from Whiskeytown, is to be reopened by rench syndicate which now owns the property.

SISKIYOU COUNTY.

(From Our Special Correspondent.) COMMODORE.—Robert E. Billups has sold his in-terests in the Commodore, Goodenough and In-surance mines to his partners, Hunphreys & Quigley, for \$5,000. These mines are located on Barkhouse Creek, 13 miles northeast of Scott's Bar. The ore is being crushed by a twin arrastra.

TUOLUMNE COUNTY.

(From Our Special Correspondent.)

ALAMEDA.—At this mine, one mile northwest of Jamestown, on the mother lode, an upraise has been commenced, which will be over 230 ft. long. It will start from the end of the crosscut tunnel, which is in 800 ft. When the upraise is through an incline shaft will be sunk on the ledge until it is throughly prospected.

App.—In this mine, near Jamestown, the water is now down to the 500-ft. level; the water cars run only half the time on account of hoisting ore for the mill. The ore now being milled is coming from the 200 and 300-ft. levels. On the 650, 700 and 800-levels are long drifts running south from the shaft, all full of water, which will take a long time to remove

DUTCH.—On the 200-ft, level in this mine a rich strike has' been made. The vein, which is 3 ft, in width, has been stripped for a distance of 70 ft., showing free gold all the way.

COLORADO.

BOULDER COUNTY.

MULE SKINNER.—This is a new find at the head of Gregory canon, about four miles from Boulder, in an entirely new district. The snaft is but 35 ft. deep, but has shown a good-sized vein.

CLEAR CREEK COUNTY.

BADGER MINING AND MILLING COMPANY,-This company has bought the Burg-Craig mill at Em-pire. Mr. A. Clark is putting in new machinery, and Mr. D. Clark, the superintendent of the mine, is working three shifts on a 6-ft. streak of good milling ore.

FALCON.--It is reported that while sinking the shat on this mine the owners cut a big body of galena and in a carload shipment the mineral ran 70% lead, the highest of any producer in the district. This is supposed to be the same ore chute that was cut in the Lamartine tunnel at a depth of 600 ft. GEM AND GEM EXTENSION.-W. E. Renshaw has placed new hoisting plants on both of these shafts and is driving and staking in the lower ground for the purpose of making a connection for air and the cheaper working of the ground. A good sized ore chute was cut in one of the drifts and this mineral is being mined. While there is some smelting ore the greater amount is suitable for concentration, and one of the mills is LOW TRANK.-This company

G. W. VAN ANTWERP& COMPANY...-This company is reported to have struck 14 in. of ore in the Mount McGiegory mine, besides 3 fc. of good concentrating ore. This is said to be one of the most promising mines on Silver Mountain.

HUMBOLDT.-The new Leadville owners of this mine nave finished the erection of a stamp mill at the mine, and have begun treating the low-grade ore now broken down in that property. Some rich free gold ore has been taken from the lower work-

SILVER GLANCE.—L. E. Aldrich has shioped 1,200 lbs. of ore from this mine, which returned 42 oz. silver and 4.2 oz. in gold.

TOLEDO.--In sinking the shaft on this claim, an extension of the old Freeland lode, to a depth of 100 ft., the leasers have taken out \$1,000 worth of smelt-

ing ore from this work alone. A level has been started westward, and a wagon load of this ore netted the lessees \$638. A company is arranging to take charge of the prospect and put in a plant of machinery.

EL PASO COUNTY.

EL PASO COUNTY. -This company CHICOLA GOLD MINING COMPANY. -This company is developing a group on S raub Mountain, south of Victor, and getting assays as high as \$120 trom a vein of good width, located in a tunnel. The om-pany is sinking a two-compartment shaft on the vein. At a depth of 45 ft. a strong flow of water was encountered, and now it is necessary to put on pumps and a complete steam plant.

pumps and a complete steam plant. IsABELLA.—The conflict which has been pend-ing for the last three years between the owners of the X-Jay Gould, a claim lying to the north and adjoining this group, has finally been settled by the Isabella Company buying all the land in controversy for the sum of \$5,500. It is said the price first asked by the X-Jay Gou'd Company was \$50,000. This sum was reduced from time to time until the \$5,500 offered by the Isabella people was accepted. This will allow the Isabella Company to proceed to patent about 40 ad-ditional acres of valuable mineral ground. EL PASO COUNTY—CENEPLE CREEK

EL PASO COUNTY-CRIPPLE CREEK.

<text><text> pied \$276 per ton 13 to 14 oz. gold to the ton, and since then sinking has proved it continuous. We are now down 87 ft. and levels are being driven to open up this ore body. Some 40 tons of second-grade ore have already been shipped, netting about \$17 per ton. We are informed that none of the bet-ter class of ore had been raised, but a shipment was to have been made toward the end of July. The ore shipped was \$30 and \$35 ore; the next shipment was to have been made toward the end of July. The ore shipped was \$30 and \$35 ore; the next shipment was to have been made toward the end of July. The ore shipped was \$30 and \$35 ore; the next shipment is expected to run about \$100 per ton. While this work was going on a crosscut was driven from the May lode. Our neighbors had carried their opera-tions close to our boundary line at a depth of 128 ft. Here they left a strong lode of rich ore, carrying an exceedingly rich streak of 3 in. We, driving some 200 feet below this, at a point about 150 ft. ahead of, the direction of this lode as it enters our property, have not been successful in striking it; lode matter had indeed been cut, but it was not thought to be the vein we were seeking. It may yet prove to be so, and a few feet abore or b l. wmay show a different result. Operations were then start-d on the surface, and a new shaft was commenced on the probable direction of the Orpha May lode. After sinking some 12 ft. througn the wash, the apex of the lode was reached; it shows a large body of quartz and a sreak 4 in. wide, that is, very rich free gold in large quanities. I think we will have about 150 ft. of the vein that will be worth a great amount of money to our company. The a great amount of money to our company.

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ledge shows quartz for at least 8 ft.; we are not deep enough yet to tell just how wide." (From Our Special Correspondent.)

BLUE BIRD,—This mine, on the Bartlett lease, still yields the u-ual amount of shipping ore from a small vein, the grade of ore being over 5 oz.

Small vein, the grade of ore being over 5 oz. CITY VIEW.—This mine, on Gold Hill, shipped two cars of ore last week, one first class and one second class. The ore came from the 250-ft. lease. The property is under lease to Bradford & Company, who have done considerable work, employing 14 men for months. The claim is owned by Pueblo and Denver vertice narties.

ELTON.—This mine has declared its usual Given $\xi = 0.000$ and has now in the treasury the su -This mine has declared its usual dividend of \$10.0 \$78,000.

GARFIELD GROUSE.—This property, on Bull Hill, Bhows steady improvement. It is without any regular well defined ore shoot, yet the ore found in small irregular pockets enables the company to ship enough to pay expenses and a little over.

enough to pay expenses and a little over. HILLSIDE.—This mine, on the south slope of Gold Hill, is about to become a regular shipper. The lease on this property was recently sold to Messrs. Kinney & Harnan, who are preparing to sink a two-com-partment shaft. There seems to be a big vein on the claim, but above the 20-ft. level it is very pockety. The intention of the new owners is to sink a deep shaft.

the claim, but above the 20-ft. level it is very pockety. The intention of the new owners is to sink a deep shaft. INDEPENDENCE.—Only a few men are employed on this mine. The owner is anxiously awaiting the result of the Peck mill, which started on Wednewday of last week to test 'the machinery, and is still at it. It is reported that the machinery was made piecemeal by several foundries, one foundry making pulleys the second the shafting, the third the key, etc., so as to prevent any one foundry from making a duplicate of the mill, if such a luxury should be needed. Persons conversant with the mill, who at the same time know the elements of metallurgy, predict a dismal failure, claiming it is a difficult matter to concentrate tellurium such as is found in the Independence mine. Concentration has been tried in this camp by vanners, by revolving tables, by Gilpin County tables, Morgan concentrators, etc., and has been found wanting, and a patent to a centrifugal table in this mill does not endow the telluride of gold with any new element so that it is willing to become an easy victim to water. The owner of the mine is very sanguine about the suc-cessful operation of the mill. In this camp we have how over 100 stamps idle. We have had as many "new process fiends" here as ever infested Empire, Clear Creek County. Colo. We have had the Craw-ford process, the Crawford crusher, the Crawford amalgamator, the Crawford feeder, but unfortuately not the Crawford ore to be treated. We had the "Nabob mill," and the Bailey mill. We had the "Mabob mill," and the Bailey mill. We had the "or unoxidized ores of the camp, and cyanide has due good work on the "red" or oxidized ores, Why capitalists entrust money to erect mills to persons who are neither metalurgists or chemists is strange, and we hope the Peck mill will be a grand success.

grand success. LUCKY GUSS.—This mine, on Bull Hill, shipped two tons of ore last week which sampled at the Grant Smelting Works 92 oz. per ton, or \$3,680 for the lot. It was broken by two men in five days from a surface shaft on a new vein. The 40 tons of second-class ore assayed well, and a grab sample taken from the dump to-day yielded \$50 per ton. The shaft is now 35 ft. deep, and is being sunk by six men. At the fifth level a new ore shoot has been found which is being driven and the length thus far is 18 ft. thus far is 18 ft.

ABS HAT IS 15 IL. ORPHAN BELL.—This property is being vigor-musly developed by 18 sets of lessees, employing over (00 men. Five steam boists are on the property. Not a few of the lessees are making regular ship-mate ments

ments. PORTLAND.—This mine, on Battle Mountain, maintains as st. ady output, as it has during the past four months. The Burns shaft is now suns 640 ft, and isstill being sunk. From the Burns shaft at the 600 ft. level, called the second level, the vein is §6 ft. distant in a southeast direction. The mine employs 160 men. An increased output is hardly to be expected until the Anna Lee shoot is opened, which cannot be for nearly two months at the pres-ent rate of sinking. The new machinery is work-ing well; the cages are double deckers. PRINCE ALREET.—This property, on Beacon Hill,

PRINCE ALBERT.—This property, on Beacon Hill, has been leased out in blocks 300 ft. square to sev-eral sets of lessees who are actively at work, as this part of the camp has received a stimulus by a strike of mineral and a lawsuit.

VINDICATOR.—This mine, on Bull Hill, is work-ing 22 men, most of whom are engaged in develop-ment work. This mine has been more than self-supporting. The output of ore still keeps above the \$4,000 mark per month. The product is low grade as a rule, but the ore shoots are large.

GILPIN COUNTY.

(From Our Special Correspondent. (From Our Special Correspondent.) The first train came through late on the evening of August 14th, after the district had been shut off from railway communication for three weeks. Ex-cepting for a temporary check to the production, however, the damage caused to mining interests was not serious.

CARR .- This mine, on Bobtail Hill, is operated by a party of leasers Their output averages some-thing over \$2.000 per month, mainly in smelting ore. The mine is 450 ft. deep.

CONCRETE.—The stock of fuel at this mine was sufficient to keep the new pump at work, and on Monday of last week the mine was drained to the bottom.

bottom. GOLD COIN.—Connection was made a few days ago between the 1,000-ft. level, which has been driven out from the point where the cross-cut from the Kansas intersected the Indiana vein, and a winze sunk from the 900-ft. level further west. It is understood that the pay-shoot has pinched, this 1,000 ft. level having encountered only low-grade mill-dirt so far. The stopes above the 700 level, on the other hand, are yielding better than ever. GREGORY BORTALL.—Owing to the scenity of

GREGORY BOBTAIL.—Owing to the scarcity of coal, the pumping from the Gregory incline had to be suspended, and the bottom pumps were drawn up. It is, however, hoped that the water can be re-drained before much loss has been incurred.

drained before much loss has been incurred. UPPER GHRMAN.—An English syndicate has taken a lease and bond on the western or less developed portion of the German vein. The eastern portion was for years one the largest producers in this county. The German vein is the western continua-tion of the Bates-Hunter, which ranks after the Gregory as the second important vein discovered in Colorado, and which is known to be one of the rich-est and most consistent producers of gold ore, although for various reasons no part of it is at present being worked.

LAKE COUNTY. (From Our Special Correspondent.)

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run conditions, and further, realizing that the pres-ent strike bas caused a complete stagnation in all lines of business, they give notice that they are willing to and will gladly resume work at once at the scale fixed by the court in the Weldom decision, that is, miners, underground men and topmen \$3 per day, and all surface men \$2.50 a day.

MONTEZUMA COUNTY

MONTEZUMA COUNTY. STAR GROUP.—The first mining deal of any im-portance in Mancoa district was closed August 13th. Mr. H. G. Sayles, of Chicago, purchased from Rush, Bauer & Wade the Star group of four claims on the East Mancoa. The price paid is said to be \$10,000. The new owners will start at once to build a road to the mines and will put up a 20-stamp mill as soon as the road is completed. There is about 6 miles of road to build, which will cost about \$5,000.

OURAY COUNTY.

CAROLINE MINING COMPANY.—This company, lo-cated at Ouray, has put in a No. 3 style "A" Cum-mer dryer for drying concentrates. This is the sec-ond installation of Cummer dryers for this com-pany. pany

PARK COUNTY.

LONDON & RIP VAN WINKLE GROUP.—The for-mer property, located eight miles west of Alma, and the latter group of mines, situated to the east of Alma, are reported to have been acquired by Boston investors under a 20-year lease, who will operate them under the superintendency of Alvin

Phillips, the well-known mining man of Alma. The Rip Van Winkle group consists of the Rip Van Winkle, the Kansas and the Maguolia. They are situated about 16 miles from the London.

SAN MIGUEL COUNTY.

BAN MIGUEL COUNTY. GOLD KING.—Ten more stamps are being added to the mill at this mine, which will increase the number to 50 and enable it to treat about 100 tons of ore per day. For some time past only 25 stamps of the mill have been dropping, on account of de-velopment work being prosecuted in the mine, detracting somewhat from the output. At present from 45 to 50 tons are treated per day. The shaft from the seventh level from which the ore is being taken is now down a little over 200 ft. Drifting on the vein both ways from the shaft has been com-menced at a depth of 190 ft. All the machinery at the mine and mill, as well as the surface tramway, is operated by electric power. The Gold King vein averages 6 ft. between walls and is composed of soft and decomposed free milling gold quarts. FLORIDA.

FLORIDA.

HILLSBORO COUNTY. HILLSBORO COUNTY. PERUVIAN PHOSPHATE COMPANY.—Some time ago W. S. Saul, of Atlanta, Ga., took hold of this company's plant, which mines its pebble from the bed of the Alafia River, and after managing it suc-cessfully for some months he interested Mr. B. Arentz, who has recently purchased half of the business, Mr. Saul owning the other half. The property is valued at \$40,000, but it is not known what the consideration was in the trade.

IDAHO.

LATAH COUNTY.

BLUE BIRD.—This mine, owned by Leigh & Roth-ock, has a good showing of free-milling quartz. At depth of 90 ft, the average width of the vein is

OWYHEE COUNTY.

DE LAMAR MINING COMPANY, LIMITED.-The following is the return reported for the month of July: C-ushed ore during the month, 4,261 tons; bullion produced in the mill, \$54,845; estimated value of ore shipped to smelters, \$6,000; miscellan-eous revenue, \$375: total produce. \$61,220; total ex-penses, \$42,145; profit for the month of July, \$19,075.

TRADE DOLLAR MINING COMPANY.—This com-pany recently secured a bond upon the Alpine group, adjoining its property, and will proceed to develop it on liberal lines.

ILLINOIS.

SANGAMON COUNTY.

BARGLAY SHAFT.-The 200 striking miners at this shaft, at Spring field, have decided to return to work at the old price of 32½c. per ton. They are promised better wages by the operators as soon as prices warrant them.

INDIANA.

GRANT COUNTY.

WESTERMAN NATURAL GAS AND IRON COMPANY. This company was last week placed in the hands o a receiver. The liabilities are \$100,010, while the assets are \$25,000 in excess. Inability to realize on accounts is given as the cause. of

VERMILION COUNTY.

INDIANA BITUMINOUS MINING COMPANY.—Work has been resumed at the mines of this company after an idleness of rearly three months. Two hundred men are now employed, and it is said the miners are getting plenty of work and good wages.

INDIAN TERRITORY.

INDIAN TERMITORY. QUAPAW MINING AND MILLING COMPANY.—This company, with a capital of \$500,000, was incorpor-ated recently under the laws of Kansas, with ex-Congressman Sam Peel, of Arkansas, president, Robert Sands, vice-president, A. W. Abrams, sec-retary, and J. M. Cooper, treasurer. The company has just closed lease contracts on several thousand acres of mineral lands in the Quapaw Reservation a few miles east of Miami. Prospecting is to begin at once.

MAINE.

CUMBERLAND COUNTY. PLEASANT RIVER GRANTE COMPANY. -- This com-pany has been organized to operate granite quarries at and near Pleasant River. The office is in Port-land. The capital stock is \$100,000; the officers are W. J. Knowlton, president; John A. Dalot, treas-

MASSACHUSETTS. NORFOLK COUNTY

LYONS GRANITE COMPANY.—At the annual meet-ing in Quincy recently the officers elected were: James Lyon, president; Clarence Durgin, treasurer; Andrew Milne, clerk; and the directors are the above and J. A. O'Connor, Barnabas. Clark, James McGrath and John Swithin. The board declared a dividend of 5% on the capital stock.

MICHIGAN. BAY COUNTY.

BAY COAL MINING COMPANY.—John C. Zill, a member of the company, states that the shaft 6×16 ft. in the clear has reached a depth of 116 ft., and that it will be co.opleted shortly. At 123 ft. there is a 20-in. vein of coal, but the shaft is to be extended in the expectation of finding another

COPPER

COPPER. CALUMET & HECLA MINING COMPANY.—At the annual meeting of this company, on August 19th, Messra, Alex. Agaag, of Cambridge; F L. Higgin-son, of Boston; Francis W. Hunneweil, of W-lisley; Quincy A. Shaw, Jr, of Boston, and Jas. N. Wright, of Detroit, were re-elected directors. They were chosen by a vote of 72,940 shares, of which 26i shares-only were represented personally and the balance by proxy. Annual Messrs, by proxy.

MINNESOTA.

(From Oar Special Correspondent.)

(From Oar Special Correspondent.) DULUTH — Shipments of iron ore have decreased consideraoly the past week, owing somewhat to the falling off in tonnage caused by the carrying over til later the contracts made by mines, and to the stoppage of all shipments not essential to mines or to purchasers. The docks of the Duluth, Missabe & Northern are still full of ore, and the shipments last week of the Duluth & Iron Bange were only about 60,000 tons, less than for any werk since the season fully began. Freight rates show no change, and are still at the lowest ebb. The new 426 ft, steel steamship Maricopa, of the Minne-ota Iron Company, has just taken its first cargo from that company's docks, 3,964 gross tons. This is probable not the vessel's capacity on present draft. The steel steamship Queen City, of Dulu h, has broken its own record by earrying 4,648 net tons of ore from Two Harbors this week. This is the largest load ever taken out of Lake Superior. IEON-MESABI BANGE

IRON-MESABI RANGE (From Our Special Correspondent.)

ADAMS MINING COMPANY.—About 1,500 tons are the daily shipments from this mine, and there are yet no signs of a more complete closing than has taken place.

AUBURN MINING COMPANY.—All stripping con-tracts have been stopped, and the mine is doing but little. Some 150 men have been laid off.

little. Some 150 men have been laid off. FAYAL MINING COMPANY.—This company has re-duced its force by 120 men, leaving 225 employed. A 10% cat has also been made in wages. Shipments are going on from both mine and stockpile. The company has not, it is stated, received pay for the ore it has sold for this season's delivery, and it is not easily able to discount the purchasers' notes in the present financial conditions. FRANKLIN MINING COMPANY.—Underground work at this mine has almost wholly ceased, and most of the men have left for other fields. About L500 tons a day are being loaded from the two stock piles by steam shovel. MINE ASSESSMENTS.—Mesabi mines have been

piles by steam shovel. MINE ASSESSMENTS.—Mesabi mines have been assessed by the county board at about double the figures of the town assessors, and 30% higher than the figures submitted by the mine owners Besides the more, which are assessed for something like \$2.500,000, the unproductive iron lands are put in at \$575,000. Some of the mines have been increased six-fold from the assessors' figures, the Biwabik, for instance, being raised from \$30,000 to \$317,000. This is the first attempt of the county to tax mining properties, and the result is of considerable interest.

OHIO MINING COMPANY.—This company is still shipping 1.000 tons a day, Drake, Stratton & Com-pany doing the work, and this is the sole remaining work under way by the firm on the range.

OLIVEE MINING COMPANY.-This company mined and shipped during July 180,000 tons, and its total and shipped during July 180,000 tons, and its total sbipmen's for the season to date have been 590,000 tons. The mine is to keep at work at this rate until about October 1st, when it will close down with a total for the season of probably 800,000 tons, thus leading the mines of the lake region for the year. Last week, in one day, the two large shovels employed in mining at this property mined 10,750 gross tons, the best record yet made there or any-where else. Nearly all the ore from this mine goes to the Carnegie furnaces at Pittsburg.

IRON-VERMILION RANGE.

HON-VERMILION RANGE. (From Our Suecial Correspondent.) MINE ASSESSMENTS.—By the Board of Equaliza-tion of St. Louis County the assessment of Vermil-ion mines has been fixed as follows: Minnesota Iron Company, \$365,300; Chandler, \$403,000; Pio-neer, \$132,700; Zeni:h, \$31,200. This is an increase of 300% from the valuations fixed by the assessors, and of 300% from the valuations fixed by the mine own-ers themselves. of 30% from there themselves.

MINNESOTA IRON COMPANY.—This company has reduced the force of miners at its Soudan mines by 100 and has cut the wages of the rest 10%. The men accept the reduction philosophically, and the discharged employees are leaving for the West. The mines are reducing their shipments.

MISSOURI.

JASPER COUNTY.

IASPER COUNTY. (From Our Special Correspondent.) JOPLIN ORE MARKET.—The output of ore was about the same as the week before, but the coming week it will be considerably less, as quite a number of the operators talk of shutting down their mines on account of the low price of zinc and lead ores. The top price paid for zinc ore was \$21 per ton, with an average of \$19 at Joplin, \$18 at Webb City and Carterville and \$16.50 at Galena, Kan. The con-tinued hot weather nas contributed to lessen the output. The price of lead dropped to \$13.75 per 1,000 lbs., with 50c, added for hauling. Nearly all the lead producers will shut down, as it does not

to work the lead mines at less than \$14 per

1,000 lbs. There is an uneasy feeling among the mine opera-tors in regard to future prices of re until after elec-tion, and those who are working their mines are reducing the number of men employed and are making only enough ore to pay expenses and keep

making only enough ore to pay expenses and keep the men employed. The following was reported from the different camps in the district : Joplin zinc, 640,800 lbs.; lead, 156,710 lbs.; value, \$8,282. Webb City zinc, 323,450 lbs.; lead, 39,620 lbs.; value, \$3,474 Carterville zinc, 688 800 lbs.; lead, 185,210 lbs.; value, \$8,840. Galena, Kan., zinc, 2,250,000 lbs.; lead, 375,000 lbs.; value, \$22,122. Aurora zinc, 550,290 lbs.; lead, 47,900 lbs.; value, \$3,971. Mt. Vernon zinc, 123,480 lbs.; value, \$1,235. Alba zinc, 114,630 lbs.; value, \$1,146. Went-worth zinc, 100,610 lbs.; value, \$1,006. Oronogo zinc, 41,890 lbs.; lead, 16,570 lbs.; value, \$607. Totals for the district : Zinc, 4,833,950 lbs.; lead, 824,030 lbs.; value, \$50,683. \$50,683.

BOOTLEG COMPANY.—At the Bootleg shaft they are drifting at 95 ft. on a large face of lead ore in black selvedge ground with only enough water to wash the ore. Last week they obtained over 10,000 lbs. of lead and had just started to drift.

CHOLWELL — Much prospecting is going on in this ew field two miles southeast of Carthage. Sevimportant strikes of lead have been made. h bid fair to make a good camp of this new made which property.

EMPIRE ZINC COMPANY.—The Empire Zinc Com-pany, whose works are located just west of the city of Joplin, is engaged in making extensive improve-ments looking toward increasing the horse-power capacity of the plant. A new rotary calcining kiln has just been fir-d up preparatory to making a run. It is automatic in its operations, having the fuel and ore fed by machinery, so that when once it is in operation it will continually be delivering ore ready for the retorts. The machinery was made and put up by Denver, Colo., part.es. The south furnace is about ready to be fired. A large engine was recently put in position, a new addition to the pottery has been made and a mill constructed for muning the clav works. These, with other contem-plated improvementa, will greatly increase the capacity of their already extensive works. This is the only smelter at Joplin. The company owns sev-eral 40-acre tracts of mineral land near the city, most of which has been and is now producing large quantities of zinc ore. EMPIRE ZINC COMPANY.-The Empire Zinc Comquantities of zinc ore.

quantities of zinc ore. FLYNN BROTHERS.—These people are drifting at 65 ft, on a large face of lead and zinc ore in open ground with just enough water to wash their ore. They are producing about 10 tens of zinc ore and 7,000 lbs. of lead eacb week. They are driving an air drift, and as soon as it is cut through, will put more men at work and increase their output of ore.

more men at work and increase their output of ore. LEHIGH MINES.—Arrangements are being made to open up the old Lehigh mines, which have been lying idle for several years. A company from Galena. Kan., has secured the lease and has ordered 12 pumps, which they claim will be on the ground the 24th of August, and will be put in place as soon as po sible. These mines lie about one mile south-west of Carl Junction, on Center Creek. At one time Lehigh was considered quite a rival to 'arl Junc-tion, but at the present time is almost depopulated. The ging ore from these mines is of the year best The zinc ore from these mines is of the very best grade, most of it of the pebble variety, and always before the pebble variety. There is no reagrade, most of it of the people variety, and siways brought the highest market price. There is no rea-son why these mines should not pay big dividends it opened up and managed on business principles. The people of Carl Junction believe that the new company means business and that it will not be long until these mines will be running in full blast as in years gone by.

as in years gone by. IINZEE MINES.—These mines, near Carthage, are being reopened by H. P. Etheridge and Heman R. Powers, of Chicago. A very heavy pumping plant has been completed and started, and it is expected that the mines will be drained within a month. This property was a steady producer of blendes for several years, but owing to the decline in the price of ore and a serious fire which destroyed the con-centrating plant, the mine has been closed for the past three years. past three years.

past three years. ORE SHIP WINT TO WALES.—A. O. Ihlseng has fitted up a lab rayory at Carthage, as he is now engaged in buying zinc ore for Vivian & Son, of Swansea, Wales, which is purchased on assay. This week he starts eight car loads of zinc ore on its trip to the seaboard for its journey across the water. He has orders for 3,000 tons of ore, and Vivian & S n will keep him in the field as their buyer as long as the prices of ore are satisfactory. This will be a help to the zinc ore producers. VICTOR COWPANX —This company's plant on the

to the zinc ore producers. VICTOR COMPANY.—This company's plant, on the Conor land, is one of the largest and finest double plants in the district. The ore starts from the top of the derrick and goes down through the crushers and three sets of rolls into the roughing jigs, in this manner doing away with so many elevators. They are mining steadily on rich dirt, and one day last week produced 13½ tons of high-grade zinc ore from 266 tubs of dirt in six hours. They are drifting at 175 ft. on a large face of ore in shooting ground and heavy water. The company, which is com-posed of Onio capitalists, has a lease on 40 acres. WEST VERGING COMPANY.—This plant on the

WEST VIRGINIA COMPANY.—This plant, on the Eastern Star lease, is running steadily on rich dirt and producing about 25 tons of high-grade zinc ore every week. They are drifting at 185 ft. on a large face of ore in hard ground.

WILTERMOOD & SCRUGGS .- On the Durham lease WILTERMOOD & SCRUGGS.—On the Durham lease Wiltermood & Scruggs are sinking their shaft deeper, and are down 67 ft. in rich dirt, but will sink to 70 ft., which will give a 20-ft. face of lead and zinc ore to drift on. Last week they made their first shipment which more than paid for the sinking and other expenses.

Zoge & Company,—The plant of this company, on the Eleventh Hour lease, is running steadily on rich lead and zinc dirt, producing 25 tons of zinc ore and 15,000 lbs. of lead each week. They are drifting at 60 ft. in open ground.

LAWRENCE COUNTY. (From Our Special Correspondent.)

BOYER.—This plant, one mile southeast of town, has been producing about 10 tons of ore steadily from the steam plant. The ore seems to occur in a flat deposit about 16 ft. higb, and of unknown lat-eral dimensions. It is a mixture of blende with some silicate.

Some stitcate. GOBBLER.—This property at Wentworth, owned by Mr. Gross, shows a good body of high grade blende. It is well equipped with a steam con-centrating plant of 100 tons capacity. The property is very systematically handled and has been the initial plant of a new district which now has three steam plants and a fourth in contempla-tion tion

HAMER.—This new plant, south of town, is prob-ably the finest ever put up in southwest Missouri. Much care and money have been expended to make it a thorough success. The company has a lease on eight acres of land, which has been thoroughly pro-pected and a fine body of ore opened up at sev-eral points at a depth of 125 ft. Trucky WESN —This mine was closed down some

TURKEY HEN.—This mine was closed down some time ago on account of differences among the owners. Arrangements have been made to reopen the mine and a steam plant of the very best con-struction, with a complete pumping plant, will be put in. The new company has ample capital to make a success of this enterprise.

MONTANA.

REAVERHEAD COUNTY.

JAY HAWK AND LONE PINE CONSOLIDATED MIN-ING COMPANY.—At a special meeting held in Lon-don, August 4th, it was resolved to wind up the af-fairs of this company and transfer the property to a new company, which will close the mines in Mon-tana and purchase a gold property in the Hauraki district in New Zealand. The 25-stamp mill and other machinery now at the mines in Montana will be taken down and shipped to New Zealand. The manager, Mr. Grothe, e-timates that this can be done for much less than it would cost to buy new machinery and erect it at the mines. He reported that there is a quantity of ore in sight in the Lone Pine mine, but it is not of a grade which can be profitably worked at the present price of silver. If at any time the price of silver should rise, or the conditions change so as to edmit of a reduction in working cost, it will be possible to reopen the old mines. JAY HAWK AND LONE PINE CONSOLIDATED MINmines

DEER LODGE COUNTY.

MONTANA MINING COMPANY, LIMITED.—The total output for July was 6,300 tony of ore, which contained 1,980 oz. gold and 7,720 oz. silver of an estimated value of \$44,900. The expenditures were: Working expenses on revenue account, \$33,100; outlay on developments, \$4,700; outlay on Bue Bird and Hickey mine, \$1,000; extraneous expenses, \$800. permeasent improvements and mechanet. \$800; permanent improvements and machinery, \$300; total, \$39,900, leaving a net result of \$5,000.

(From Our Special Correspondent.)

ONTARIO .- The stockholders of this mine met UNTARIO.—The stockholders of this mine met Tuesday of last week and resolved to do everything in their power to raise the money to pay off the in-debtedness upon this property and begin work again. In the meantime arrangements have been made to keep the pump4 running, so as to prevent the water from accumulating in the mine.

FLATHEAD COUNTY.

BOAZ MINING COMPANY.—This company, operat-ing on Grouse Mountain, near Troy, has ju t com-pieted a 50-ft. tunnel, and is reported to be getting assays of \$14 in gold, in addition to the silver.

HIAWATHA.—There are 2 ft. of good silver lead ore in this mine which, it is said, will run 50 oz. in silver and 50% lead.

GRANITE COUNTY.

LOOKOUT MOUNTAIN GOLD MINING COMPANY.-This company recently uncovered a 5-ft. lead of free milling gold ore that is said to sample from \$18 to \$20 per ton.

JEFFERSON COUNTY.

CROSSCUT GOLD MINING COMPANY.—A suit has been filed against this company for \$1,070.50 by em-ployees for labor performed. suit has

(From Our Special Correspondent.)

(From Our Special Correspondent.) DIAMOND HILL.—The sale of this mine, in the St. Louis district, is reported, the price is stated to be \$2,000,000. That the property has been sold can not well be douoted, but it is hardly probable that the price is as large as stated. However, the Dia-mond Hill is undoubtedly a great gold property. There is now in sight, so experts have claimed, over a million dollars worth of gold ore, and if property managed, one-fifth should be clear profit. The probabilities are that further developments will

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open up other ore bodies more extensive than those

now exposed. FREE COINAGE.—This mine, in Lump Gulch, has been leased and work has been begun upon it. There are now but two mines closed down in Lump Gulch on account of the difficulty with the miners in regard to boarding at the companies' boarding houses. It is said that there is no doubt but both of these will resume in the near future.

of these will resume in the near future. HOPE.—It is stated that this company has a force of men at work at Basin putting the mine in order. It is also said that another shaft will be sunk across the river, so there will be two shafts upon the prop-erty. The Hope is a good mine yet, and there is sufficient precious metal in its vein to put its affairs in good shape. The company has been very un-fortunate, and it is hoped that it will soon be at work with a full force of men.

work with a full force of men. KATIE.—This mine at Basin will soon be at work again. The concentrator and hoist were destroyed by fire about a year ago, and since that time nothing has been done upon the mine. A large force of men have been put to work erecting a new concentrator building, which will be much larger than the old one. The new mill will have a capacity of 500 tons, 200 tons more than the old one. The Katie is one of the best gold mines in the state, and when it is again running Basin will resume its old prosperity. It is said that the company will also erect a smelter at Basin to treat their ores. The Glass Brothers de-serve much praise for their perseverance in getting this mine at work again. LUMP GULCH.—The Liverpool. Little Nell and

this mine at work again. LUMP GULCH.—The Liverpool, Little Nell and Free Coinage. in Lump Gulch, are shut down on ac-count of a disagreement between the miners and mine-owners in regard to the rule requiring the men employed in the mines to board at the board-ing houses of the several companies. The mine-owners insist that, as they have been to the expense of constructing boarding houses for the men, they must conduct them, and that in order to pay ex-penses all their employees must board with them. The miners insist that there are other boarding houses in the camp, and they should have a choice. The mire dmen, especially, they say, should be al-lowed to board at home without paying for board to the company. There seems to be no effort made to adjust the matter, and the mines continue idle. LEWIS & CLARKE COUNTY.

LEWIS & CLARKE COUNTY.

(From Our Special Correspondent.)

(From Our Special Correspondent.) (From Our Special Correspondent.) MARYSVILLE.—Thère are now 140 stamps dropping on ore mined at and near Marysville—110 on Drum-lummon ore, 30 on ore from the North Star and Ball Mountain claims, owned and worked by Col. Thomas Cruse, of Helena. 10 on ore from the St. Louis properties, and 40 on the Bald Butte ore. The property worked by Col. Cruse is said to be showing up well, a large and rich ore-shoot having heen uncovered on the North Star. In the Bald Mountain a shoot of fine ore has also been found and both are being worked. It is rumored that Col. Cruse has purchased the Belmont mill, in which he is working his ores, but it could be trated to no reliable authority. There is a fine body of ore in the St. Louis which will keep the 10-stamp mill running a long time. The camp of Marysville is more prosperous than it has been for several years, the Drumlummon mine continuing to work with a full force. with a full force

with a full force. PIEGAN.—This mine, some three miles from Marysville, has been sold at sheriff's sale to satisfy a judgment against it in favor of Frazer & Chai-mers, of Chicago, for \$3,558,39. It is a matter of in-terest that the man who located it in 1865 was the sheriff who sold it. It is a fairly good property, but the company which owned it has been made up of so many antagonistic interests that no one has been benefitted by it except a few working people and the lawyers. The richest mine in the world would not pay if managed the way the Piegan has been.

MEAGHER COUNTY.

(From Our Special Correspondent.)

(From Our Special Correspondent.) (From Our Special Correspondent.) Some thirty years ago the mining camp of Copper-opolis was located 16 miles south of east from White Sulphur Springs. This was before a single house had been erected at the Springs, where there is now a prosperous little city. The Indians drove the miners away from this camp, burning their cabins. But little work has been done upon the cabins. But little work has been done upon the cabins. But little work has been done upon the cabins. But little work has been done upon the cabins. But little work bus Sutherlin Brothers, proprietors of the White Sulphur Springs Hus-bandman, got an option on the property and in-duced Mr. Barton Sewell, of Chicago, to take the bond, which was for the sum of \$400,000. The bond runs till March 1st, 1897. Mr. Sewell is now working the property. The veins are said to be small, but the ores are rich in copper and carry sufficient sil-ver and gold to make them valuable. The perma-nency of the veins, and the amount of ore contained in them have yet to be determined, but there is every probability that they will prove satisfactory and that the bond will be taken up. ^PLOKENCE MINING COMPANY.-It is said that this ^{SUMMANN} recompting the provents and the

⁴LOBENCE MINING COMPANY.—It is said that this company recently bought the Monarch and two other adjoining claims. One of them is an extension and the others are for dumping purposes. The price paid was \$25,000. This acquisition makes the Florence one of the best and most independent min-ing companies in the State. It can enlarge its force of men and soon take out the amount of money paid.

Confederate Gulch.-J. M. Norris and his partners, David Wood and Mr. Jacobs, are push-ing the work of erecting a 10-stamp mill in Con-federate Gulch, at the mouth of Spruce Guleh, and a tramway is to be built so that the ore from the lead, which is high up the mountain, which is high up the mountain of timber and lumber is on the ground. Work in the mine is progressing favorably and a portion of the ore sibeing hauled to the Helena smelter where the different full to \$180 per ton. Confederate Gulch placer mines will yield a larger amount of gold this year than last. Water has been except one has been worked all season. The yield has not been estimated. While water in some lo-yield of gold is expected. RAVALLI COUNTY.

RAVALLI COUNTY (From Our Special Correspondent.)

(From Our Special Correspondent.) HELENA & VICTOR MINING COMPANY.—The Cur-lew mine, near Victor, owned by this company, has been in the past a large producer. The declue in silver, and the difficulty of working the property, the ground being very hard to hold, caused it to shut down, and at that time there was a consider-able debt upon the property—over \$30,000 A new shoot of ore was discovered in the property, which has been taken out to the depth of 100 ft. Tuis paid all expenses and \$10,000 on the old debt. As re-ported by Hon. A. M. Holter, of Helena, president of the company, the account was as follows: Realized upon ores and concentrates up to July 1st last, \$56,234.38; expenses, \$42,309.68. Paid on old indebtedness, \$10,281.74; remaining in the treasury, \$3,642.96. The ore and concentrates on hand with the money in the treasury will about pay the de-mands against the company for its recent work. The trustees have asked the stockholders, as the stock is non-assessable, to contribute 40c, ashare to enable the company to pay off the old indebtedness and eink 100 ft dearent balaying the the own by the de-the money has her balaying the the own by the de-the company to pay off the old indebtedness and eink 100 ft dearent balaying the the own by the de-the stock balay the de-the company to pay off the old indebtedness and Is non-assessable, to contribute 40c, ashare to eme the company to pay off the old indebtedness a sink 100 ft. deeper, believing that the ore body company has been working on goes down and t it is of sufficient value to make a return to stockholders in dividends. If this is not done, i declared, the creditors will forecloss on the m-gage on the property, and sell if for their debt. mort

(From Our Special Correspondent.)

(From Our Special Correspondent.) AMERICAN DEVELOPMENT COMPANY.-This com-pany, of Butte, has taken up the bond it had on property at Gibbonsville, Idaho, and has given a bond for another group of claims for \$200,000 more. The property was owned by the Helena and Idaho Gold Mining Company, of which Mr. A. J. Selig-man, of Helena, is the principal stockholder. The American Development Company has been treating the ores at Gibbonsville by chlorination, and has found that it works very successfully.

BAKER COUNTY. CONSOLIDATED VIRGINIA.—David Keith, of Salt Lake. Utah, who recently bought a two-thirds in-terest in this mine, which is the south extension of the Virtue mine, will at once start sinking a 500-ft. double compartment shaft and then crosscut to the Virtue ledge.

PENNSYLVANIA.

ANTHRACITE COAL.

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SOUTH DAKOTA.

LAWRENCE COUNTY. COLETTA .- Men at work in this mine at Galena

recently crossed a 4-ft. vein of ore similar in character to what they have been finding, and which is re-ported to run from \$20 to \$60 a ton.

HAWKEYE.—A seam of good ore was struck in this mine recently, the gravel-like rock being cemented with gold which forms nearly half the mass. The extent of the seam is not yet known.

HOMESTAKE MINING COMPANY.—The ore in this company's mine is reported to be running better than last year. Three hundred stamps are now drop-ping and when the new mill is completed 400 stamps will be at work.

UTAH.

JUAB COUNTY.

SWANSEA.—This mine, near Silver City, in the Tintic district, has a shaft that is now down a dis-tance of 460 ft. In sinking the shaft stations were cut at the 350 and 450-ft. levels and from these drifts will be run on the fine ore bodies exposed and stoping in winzes and upraises will be driven. The bottom of the shaft shows over 4 ft. of galena ore.

SALT LAKE COUNTY.

SALT LAKE COUNTY. ATLANTIC MINING AND MILLING COMPANY.— This company, which is driving a 2,000 ft. tunnel at Bingham to cut the Dalton & Lark, Brooklyn and Richmond veins, recently encountered good ore 750 ft. in from the mouth of the tunnel. The ore is said to carry \$22 in gold. This property is located be-tween the Dalton & Lark and the Lead Mill, and the tunnel will be driven ahead to cut the other veins.

WASHINGTON.

KING COUNTY.

KING COUNTY. KING SOLOMON.—The lead in this mine is 80 ft. in width, with a pay streak 8 ft. wide. The ore is a gray copper and assays well in gold and silver. Eastern parties have taken hold of the property and will push the development and are now build-ing a trail to the mine.

OKANOGAN COUNTY.

WYANDOTTE GROUP.—A rich strike is reported to ave been made on this group of mines, now being perated by Professor Langhammer for a Chicago have operated h syndicate.

SNOHOMISH COUNTY.

It is reported that a seam of coal 5 ft. thick has been discovered near Everett. The seam is only a short distance from the Great Northern Railroad.

WEST VIRGINIA.

BELMONT COUNTY.

BELMONT COUNTY. PIPE CREEK COAL AND IRON COMPANY.—This corporation has gone into the hands of a receiver. The Common Pleas Court has appointed James Pollock, of St. Clairsville, receiver, and Captain Burget McConnaughy, W. C. Burgundthai and Ferdinand Dorsey, appraisers. The company owns considerable surface and coal lands in the lower part of the county near the mouth of Pipe Creek. Inability to realize on its real estate caused the con-cern to go into a receiver's hands.

TYLER COUNTY.

TYLER COUNTY. NEWBANKS.—This famous oil well, which is also August 15th through an accident, burning the der-prick and several thousand barrels of oil. When the prick and several thousand barrels of oil. When the prick and several thousand barrels of oil. When the prick and several thousand barrels of oil. When the prick and several thousand barrels of oil. When the prick and several thousand barrels of oil. When the provide the spouring oil into spraye, throwing it prick the spouring oil into spraye, throwing it prices are used by the spraying oil forming into glistening drops in the air and dropping in a daz-sing shower, while the smoke, densely black, are anound were covered by sightseers, who had had be been be well was producing 20 bbls. a day. There is no way known to put out the fire, as the gas and oil pressure are constant and the roar-and the heat of the flames terrific. Mass under lease 2,000 acress of land on Elk Fork, and while developing its first well for oil, struck a gas well with 1,200 lbs. pressure.

FOREIGN MINING NEWS.

BRITISH COLUMBIA.

KASLO DISTRICT.

BELL .- W. E. Mann & Company have taken an

BELL.-W. E. Mann & Company have takén an option on this property, known as one of the best claims in Jackson Basin. L. P. Peterson, with a force of eight men, has begun operations. NEW SAMPLING WORKS.-Mr. George Alexander of the International Trading Company, is at the head of a new company that has begun the erection of an ore sampling plant. The site is on the bay near the old sampler. The orders for lumber and timbers have been placed and the machinery will be on the ground be-fore the completion of the buildings. The Kaslo & Slocan Railway will continue its track around the point to the new sampler, in front of which a dock will be built. Mr. Whitney, late of the Colorado Smelter & Sampling Works at Butte, will be the

SILVER BOW COUNTY.

OREGON. BAKER COUNTY.

superintendent. He has arrived and will take charge at once.

KOOTENAY DISTRICT

MAPLE LEAF AND OAK LEAF.—The litigation over these claims, on the Illecillewaet, has been disposed of by the Lillocet, Fraser River & Cariboo Gold Fields Company, purchasing for \$47,000 cash, the interest of McArthur, Ducey and Grant.

SLOCAN DISTRICT.

SLOCAN DISTRICT. ADAMS GROUP.--This group, at the top of the mountain between the Ruth and Idaho, has been bonded for a sum reported at \$110,000. Captain Adams and partners, who also own the Canadian group, adjoining the Adams group, were the own-ers. Fifteen men have been put at developmer⁺ work, and contractors are putting up building "nt the mine. S. K. Green, of Spokane, has taken general management of the company's operations. The Adams is described as an undeveloped property. The ground is said to be cut with a number of large veins, all converging to one point about the center. BONDHOLDER GROUP MINING COMPANY.--This

BONDHOLDER GROUP MINING COMPANY.—This company, a British syndicate recently organized, holds the Bondholder group of mines on the divide between Ten-mile and Springer creeks. These claims are located upon the same lead as the Enter-prise. For some time past a small force of men has been prospecting the property. There has been considerable stripping of the ledge, and a number of small propert tunnels. of small prospect tunnels run into it. The property will be worked from the Ten-mile side. It is re-ported that the company will put a force of 40 men to work. The same syndicate has control of the Two Friends, on Springer Creek, and the Crusader, on the north fork of Lemon Creek.

on the north fork of Lemon Creek. RUTH.—The main tunnel of this mine is now 700 ft. The second tunnel is in 200 ft., and the air-shaft is down 156 ft. The company is building a wagon road and is putting up a bunk house to accommo-date 75 men. The wagon road will be finished about August 20. A new exhaust fan has been made and is working well. The ore runs \$120 and \$130 to the ton. Considerable gray copper is now being found in the ore. The company owns an adjoining claim to the Ruth.

SPECULATOR.--It is reported that a large body of concentrating ore has been discovered on this claim lying between the Arlington and Enterprise on Ten-Mile Creek.

SOUTH AFRICA.

TRANSVAAL.

TRANSVAAL. WITWATERSRAND GOLD PRODUCTION.—The com-panies adhering to the Johannesburg Chamber of Mines report a total production of 168,521 oz. gold in July, while those belonging to the Association of Mines of the South African Republic announce a total of 35,352 oz. This makes in all an output of 203,873 oz.; equivalent, at the usual rate of Wit-watersrand gold, to 166,350 fine onnees gold. Taking the reported onnces, we find there was an increase of 10,233 oz. over the June production, and a gain of 4,420 oz. over July, 1895. It is the largest monthly production ever reported, exceeding by 300 oz. that of Angust, 1895, which, had been the largest on record. For the seven months ending July 31st the total reported production was 1,258,376 oz., which compares with 1,313,000 oz. last year, 1,141,659 oz. in 1894 and 791,140 oz. in 1863. The production for the seven months this year is equivalent to 1,026,834 tine oz. gold, or to \$21,224,659 in value.

LATE NEWS.

(Special to the Engineering and Mining Journal.) LEADVILLE, COLO.—BY TELEGRAPH, Aug. 20, 1896.—One thousand members of the miners' union in session to-day adopted resolutions refusing to accept the proposition of the mine managers to go to work at the old scale of wages on an average silver quotation of 75c. per ounce. All show of amicable settlement now seems gone.

A wonderful gold strike is reported to have been made in Cedar Hollow, Mont., in the vicinity of Gaylord, on the western slope of the Tobacco Root range. The strike is said to be the richest ever made in the State. The surface ore, of which sev-eral carloads have been shipped, has yielded from \$400 to \$500 per ton, and the returns from 12 car-loads approach \$100,000. Another carload of select rock is expected to net \$25,000. The properties upon which the work has been done are in the Mayflower group, located and owned by Charles Preuitt, of Whitehall, and S. M. Fair and E. M. Clark, of Butte.

Foreman Peter Ryan, John Manning and John Campbell were instantly killed in the St. Lawrence mine, near Butte, Mont. by the failure of a clutch on the hoisting engine to work and permitting[the cage to drop to the bottom of the shaft, 1,250 feet. Ryan came up on the cage alone, and when it reached the top he was just in the act of stepping off when the cage dropped like a shot down the shaft. At the 1,200-ft, level Manning and Campbell were at work, and the falling cage crushed them to pieces and tore the shaft timbers so badly that it will require a great deal of work to reach the bodies. There were other men at work in the shaft, but as the accident occurred just after a shift it is hoped and believed they had gone home.

COAL TRADE REVIEW.

NEW YORK, Friday Evening, August 21. Statement of shipments of anthracite coal (approxi-mated) in tons of 2,240 lbs., for the week ending August 5th. 1896, compared with the corresponding period last

vear: -1896. 2,272.399 PRODUCTION OF BITUMINOUS COAL, in tons of 2,000 lbs week anding August 15th, and for years from Janu-

ary 1st, 1896 and 1895:	1	896	1895.
Shipped East and North:	Week.	Year.	Year
Allegheny, Pa	43,175	1,441,466	2,250,666
Barclay, Pa	613	25,251	
Beech Creek, Pa	55,839	1,886,777	1,790,277
Broad Top, Pa	5,109	250,268	2,562,178
Clearfield, Pa	65,771	2,999,199	3,104,201
Cumberland, Md	:73,448	2,012,319]	1,712,012
Kanawha, W. Va	153,305	1,913,618	1,751.071
Phila, & Erie		45,796	31,745
Pochontas Flat Top	*72,000	2,210,422	1,567,899

370,052 12,785,116 14,773,049 Totals

* Week ending Aug. 1st.

Week ending Aug. 8th.		896.	1895
Shipped West:	Week.		Year.
Monongahela, Pa	22,832	639,543	484,045
Pittsburg, Pa	29,361	1,228 983	1,094,466
Westmoreland, Pa	28,410	1,211,455	1,098,130
Totals	80,603	3,079,931	2,676,641
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Anthracite.

Anthracite. The point of greatest importance in connection with the anthracite trade at this time is the widely circulated rumor that the price of all domestic sizes is to be increased 25 cents a ton on September 1st. This increase has not been officially announced. That it is credited in some directions is shown by the inquiries that have been received by some companies for shipments before Septem-ber 1st, and for shipments during that month at current prices. This to a slight extent has stimulated trade. As a whole, however, the market shows no improvement, and the retail

nas stimulated trade. As a whole, however, the market shows no improvement, and the retail trade is also very dull. Prices are without excep-tion reported firmly held by all the companies. The amount of coal now being mined is moving smoothly and is only sufficient to meet the demand. The stock of coal on hand is not being materially increased.

increased. Stove, egg and broken are the sizes which are in most demand at this time. The prices are still those of the July circular, and are as follows: \$3.75 for broken; \$4 for egg; \$4.25 for stove and \$4 for chestnut, subject to the usual commission of 15c.

Rituminous.

Bituminous. Commercially, the bituminous coal trade is dull; financially, it is stagnant, while as a whole it pre-sents no immediate outlook for a material change. The cotton and other mills in the East are closing down one by one owing to the depressed state of business, and as they are among the largest con-sumers of coal this causes dullness in this market. We have been informed that practically the only business doing in bituminous coal is centered at Baltimore—a place where prices are said to be cut. As coal is now being produced in small quantities only, transportation from the collieries to tide-water is quiet and the car supply ample for all re-quirements.

In the second ports of the same condition as the sound ports, Suc, Portsmouth and Batter Second ports, Suc, Portsmouth and Batter Sec, Powere Second ports, P

Creek coals.

NOTES OF THE WEEK.

The valuable coal deposits in Washington and

AUG. 22, 1896.

Greene counties, Pa.. south of the main line of the Panhandle, und extending west of the Ohio River and east to the Monongahela, are attracting the atten-tion of railroad men and coal operators, and it is said that several short branch lines from the Pan-handle, Baltimore & Ohio and Pittsburg & Lake Erie systems are to be built soon. The main lines of railway manage to get across this region by follow-ing the narrow valleys cut down by small streams and crossing up and down over steep divides. The short coal branches start on steep gradients up the ing the narrow valleys cut down by small streams and crossing up and down over steep divides. The short coal branches start on steep gradients up the smaller ravines and reach the Pittsburg coal bed at a considerable elevation. In Greene County the coal dips beneath higher geological formations, and at most places is below the railroad levels. At such places shafts will be sunk, but where the coal can be reached by drifts it can be mined more economi-cally. The Panhandle has now its Bridgeville & McDonald branch and one or two other short lines reaching valuable mines, and the Pitts-burg & Lake Erie, by means of the Char-tiers & Youghiogheny branch, reaches sev-eral important mines in Washington County, while farther south the Baltimore & Ohio reaches the coal by its main line and several short branches. Not one-tenth of the coal area between the Pan-handle and the Baltimore & Ohio has been devel-oped, and it is to this territory that numerous feed-ers will be sent from the Pennsylvania, Baltimore & Ohio and Vanderbilt systems. In the Monongahela River region the coalbeds of Washington, Fayette and Westmoreland, as well as the Greene County coal along the river, are being worked extensively. Most of the railroads in this region depend entirely upon the coal and coke traffic.

Buffalo. Aug. 20.

Buffalo. Aug. 20. (From Our Special Correspondent,) The hot wave has disappeared at last, and since Sunday the thermometer has been at times as low as 57°. Heavy rains have fallen. The anthracite coal trade has not been affected yet, as the demand continues very light at unchanged quotations. The Board of Police of this city have awarded the contract for 800 tons of anthracite coal at the rate of \$4.01 for grate, \$4.23 for egg, stove and nut, and \$3.05 for pea per net ton delivered. Bituminous coal continues to be sold only in small lots for immediate requirements at previous rates. Supply is rather in excess of demand. Lake freights on coal are unchanged; the move-ment has increased and the receipts are immediately taken up at the low figures prevailing.

Lake freights on coal are unchanged; the move-ment has increased and the receipts are immediately taken up at the low figures prevailing. Generally, business is on the mend, but transac-tions are light. The shipments of coal westward by lake from Buffalo from August 9th to 15th. both days inclu-sive, showed a marked increase, aggregating 81,116 nets tons, distributed about as follows: 35,700 tons to Chicago, 12,800 tons to Milwaukee, 8,800 tons to Duluth, 2,520 tons to Toledo, 6,500 tons to Superior, 2,525 tons to Green Bay, 900 tons to Bay City, 700 tons to Detroit, 500 tons to Gladstone, 225 tons to Kunominee, 1,630 tons to Gladstone, 225 tons to Menominee, 1,030 tons to Saginaw, 1,740 tons to Ft. William, Green Bay, Marquette, Gladstone; 50c. to Chicago, Milwaukee, Duluth, Toledo, Superior, Ft. William, Green Bay, Marquette, Gladstone; 50c. to St. Ignace; 40c. to Saginaw; 25c. to Bay City, Detroit, Portage and Hancock. Closing steady. The propellers *Oceanica* and *Chrisholm* collided in the new channel at Lake St. Clair on Friday last. Both vessels sank 17 ft. under water. The former was laden with coal. No lives lost.

Aug. 19.

Chicago. (From Our Special Correspondent.)

(From Our Special Correspondent.) There is but little trade in anthracite coal. But few orders are being received, and these only for present requirements. No movement has as yet appeared tending toward placing contracts for fall supply, and it is not likely that much will be done in laying in supplies for the fall for some time yet, the depressed condition of affairs not warranting any outlay. The stock of hard coal in Chicago is more than sufficient to meet any demand likely to arise at the present time. The Lincoln Park commissioners have refused all bids to supply hard coal tor the coming year; \$5.55 per ton was the lowest bid and they will according use soft coal in place of hard. Circular prices for hard coal are \$5.35 for Froken or grate and \$5.60 f. o. b. cars Chicago for egg.

Bituminous coal trade is slow in town, but a trifle better in out-of-town business. The manu-facturing plants are buying less coal than ever, and a good many have temporarily closed. The summer trade so far has been the poorest in years.

Pittsburg. Aug. 20.

(From Our Special Correspondent.) **Coal.**—Trade along the Monongahela is dull. The miners and operators are still apart in their views; the latter are still waiting for miners to come down from the 70c. rate, which the latter will undoubtedly be forced to do. At the same time only those mines are running which have accepted a reduction. What is being loaded now is principally for local consump-tion. Col. W. P. Reed, the Panhandle coal operator, is paying the 70c. rate, and is not asking for a re-duction; he says trade is good and the outlook entirely satisfactory; in railroad trade very little has developed since our last, in fact the con-ditions are practically the same as prevailed all (From Our Special Correspondent.)

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AUG. 22, 1896.

along this season, neither better nor worse. The large lake shippers seem to have secured the lion's share of the Northwestern trade, and are fully able to supply it from the mines directly controlled by

At Cumberland, Md., the first steps have been taken for building a railroad that will open up great coal-fields and bring to Pittsburg market a quantity of timber and other products; it is to be known as the Pittsburg & Potomac Railroad of Maryland. Capital stock, \$500,000; the road will be an exten-sion of the road from Stranburg, V*., to Potomac Station in Garrett County, and will connect with the Pittsburg & Connellsville road.

the Pittsburg & Connellsville road. **Connellsville Coke.**—The depression in the trade still continues with no signs of sbating; a large number of ovens were banked last week and more will follow, W. J. Rainey being conspicuous. The H. C. Frick Coke Company issued orders to bank all the ovens at the Oliphant plant, 80 more at the Brownfield plant, leaving only 150 of the 446 at the latter works in blast. Over 10,000 of the 17,000 ovens in the Connellsville regions are now shut down. The production of the region for the week, estimated upon the ovens drawn, reached 78,955 tons as against 91,758 tons the week previous, a decrease of 12,803 tons. Estimates on production at present would be unreliable. The number of blast furnaces being shut down makes demand for coke very uncertain with unreliable. The number of blast furnaces being shut down makes demand for coke very uncertain with the end not in sight. In the mining order of the evens in blast 3,086 ovens made six days; 4,789 ovens five days; 183,ovens four days; 700 ovens three days, and 750 ovens two days. The shipments for the week were 4,692 cars, a decline of 332 cars, distributed as fol-lows: To Pittsburg and river points, 1,810 cars; to points west of Pittsburg, 1,936 cars; to points east, 946 cars. Prices nominal.

IRON MARKET REVIEW.

NEW YORK, Friday Evening, Aug. 21, 1896. **Pig Iron Production and Furnaces** in Risst.

		Week	From	From			
Fuel used.	Aug. 23, 1895, Au		Aug. 2	1, 1896.	Jan., '95.	Jan., '96.	
Anthracite. Coke Charcoal	F [*] ces. 41 140 22	Tons. 23,257 148,820 4,428	35	Tons. 21,430 133,110 6,760	Tons. 666,511 4,663.574 135,637		
Totals	203	176,505	170	161,300	5, 165, 722	6,286.729	

Accounts from all quarters show a continued dulness in the iron trade. Notwithstanding a heavy drop in pig iron production there seems still to be asurplus, and prices have been weaker than at any time since the early months of 1894. In steel and finished iron trade is very light everywhere, and in those instances where combines have held up the nominal prices there is little business doing. At present there seems to be no prospect of im-provement, and it is altogether likely that none will come before November. It may be said that the trade is generally prepared for a dull time; credits have been on a very restricted scale, and almost everyone is in as good shape to meet hard times as circumstances would permit.

NOTES OF THE WEEK.

The Merchant Bar Iron Association held a meet-ing this week, but the attendance was not large and no new business was transacted. It is said that some matters of importance will be brought up at the meeting next month.

Another order for 9,000 tons of steel rails for Japan is reported. They will be made by the Car-negie Steel Company. Of course no price is named, but the order has presumably been taken on the same terms as those already filled for that country. The former price was stated to be about \$21.36 per ton. It is reported that an agent has been sent to Russia to negotiate for a contract for rails for the Pacific section of the Siberian Railroad, but the rumor cannot be verified, and is somewhat doubt-ful.

New York.

Aug. 21.

New York. Aug. 21. "What is the use of talking about business now f have is none, come in next Novemuer and we may have something to say." That is the general ex-pression of the feeling in the local iron trade. For the small orders which usually make up an import-ation of the feeling in the local iron trade. For head orders which usually make up an import-ation of the feeling in the local iron trade. So the small orders which usually make up an import-ation of the feeling in the local iron trade. So the small orders which usually make up an import-ment of the local business are coming in very in glight. Newark and Bridgeport complain of mall orders and slow collections. Structural height second the trade, is rather dull, and com-height and sec. Meantime there is a very close usual order new business. Bis Iron. — The fact cannot be concealed that the

pressing for new business. **Pig Iron.**—The fact cannot be concealed that the pig iron market is in a demoralized condition. Some dealers continue to quote fair prices, but few dis-guise the fact that, if pressed, they would take less. Most of the Northern furnaces are not pressing sales, and some have shut down rather than to go on selling at present prices. The Southern makers are more inclined to keep on and take what they can get. It is stated on good authority that fair

Alabama foundry has been offered on a basis of \$6.50 Birmingham, or about \$10 New York. In spite of the low prices but little business can be noted; foundrymen do not feel like carrying big stocks, and most of them believe that they can do as well in October as now, if they need the iron. It is not easy to make exact prices, but for North-ern iron we quote: No. 1 foundry, \$11.75(@\$12.50; No. 2, \$11.25(@\$11.75; gray forge, \$10.50(@11. For Southern iron prices are: No. 1 foundry, \$10.75(@ \$11.25; No. 2 sofr, \$9.75(@\$10.25; forge, \$9.25(@ \$9.75. Basic pig is offered at \$10.50(@\$11. All prices are for tidewater delivery. are for tidewater delivery.

are for the water delivery. **Cast-Iron Pipe.**—In the absence of new contracts to figure on this week some of the pipe-men have been amusing themselves by talking up a combina-tion to put a stop to sharp connection and low prices. There are too many interests to be consulted to make a working combine possible, however, and a few open contracts would stop the talk. Spicelogican and Force Monetare and the stop of the talk.

a few open contracts would stop the tarm. Spiegeleisen and Ferro-Manganese.—Nothing is reported in spiegel. There has been a little done in imported ferro at \$47(@\$47.50 for 80%, New York.

In inforted ferro at \$41@\$47.50 for \$0%, New York. Steel Billets and Rods—The pool price is \$21.75 per ton, New York. Brokers claim that they have still some outside steel to sell, and it is reported that one small lot was placed this week at \$1.50 below pool rates; but the parties refuse to say any-thing. No other business is noted. Rods are quoted \$25@\$29, with nothing doing.

Merchant Iron and Steel.-There is very little Merchant Iron and Steel,—There is very little doing and prices are somewhat uncertain. We quote: For common bars 110@115c.; refined bars, 1'20@145c.; soft steel bars, 1'20@130c. Other quo-tations are: Steel hoops, 1'50@160c.; steel axles, 160@175c.; links and pins. 1'60@170c.; tire steel, 1'80@190c.; spring steel, 1'95@215c. All prices are for delivery on dock, New York.

for delivery on dock, New York. **Plates.**—Nobody is buying plates and prices are nominally unchanged. The mills are anxious for orders and new business is fought for. We quote for universal mill plates, 1'40@1'50c. For steel plates we quote: Tank, 1'35@1'45c.; boiler shell, 1'45@1'55c.; good flange, 1'60@1'75c.; firebox, 2@2'40c. Charcoal iron plates are quoted 2'25c. for shell, 2'75c. for flange, and 3'25c. for firebox. Rivets are 2'15@2'25c. for steel and 3@3'25c. for iron.

for steel and 3(2)325c. for iron. Structural Iron and Steel.—The market, which has beld up well so far, is falling into dullness. The only large contract now under consideration is for a large building on Herald Square. Several plans are waiting on account of difficulty in placing loans. We quote for angles. 1:35(2):1:45c.; channels, 1:70 (2):75c.; tees, 1:65(2):70c.; beams, 1:70(2):75c. for large orders, and 1:80(2):190 for small lots. Wrongett Iron Bing. Only a match huminous in

Wrought Iron Pipe.—Only a retail business is reported. Discounts are unchanged, as follows, out of store : For black, large, 67, 10, 10, 10 and 10; $1\frac{1}{2}$ in. and smaller, 57, 10, 10, 10 and 10. For galvanized, large, 55, 10, 10, 10 and 10; for $1\frac{1}{2}$ in. and smaller, 52, 10, 10, 10 and 10.

Nails.—The pool price continues \$2.55 per keg f. o. b. Pittsburg for steel wire nails, and \$2.30 per keg, f. o. b. Pittsburg, for cut nails. Buyers are taking only small lots for their immediate require-ments—which means just now practically no business at all.

Ness at all. Steel Rails and Rail Fastenings.—The com-bination price is still \$28.75 per ton at tide water, or \$28 at mill, for heavy sections. Girder rails are \$23(@\$31, tidewater. No business is reported. Little is doing in rail fastenings. Angle-bars are 1:15(@1.25c. and spikes 1:60(@1.65c., tidewater deliv-ery. Bolts are 1:95(@2:05c. for square nuts, and 2:05 (%2:15c. for hexagon nuts

ery. Bolts are 195@205c. for square nuts, and 205 (@215c. for hexagon nuts. Old Rails.—Nothing has been done in old iron rails here, and \$12.25@\$13 is about the best that can be quoted. There is a surplus of old steel rails. A large lot of heavy section has been offered, we hear, but the best bids were \$10 for Sound port and \$10.50 for Harlem River delivery; both were declined. For moderate lots we quote \$10.50(\$11.50, New York harbor. There is some inquiry for export. Old steel rails fit to relay are quoted \$10@\$20, New York for 56 lbs. or over, with only a few small sales. Scran Iron.—The demand for foundry scrap is

Scrap Iron.—The demand for foundry scrap is light, and in the absence of any large transations we continue to quote \$10@\$11.50 for good machin-ery; \$8.50@\$0.50 for ordinary cast scrap; \$0@\$7.50 for store plate and mirad for stove-plate and mixed. Aug. 19.

Buffalo.

(Special Report of Rogers, Brown & Co.)

Aug. 19.

(Special Report of Rogers, Brown & Co.) There is a lack of the enthusiasm in this district which has been noticed for a week or two past, and business is contined largely to orders of the carload and 100-ton variety. The new orders are for quick shipment, indicating that consumers are carrying unusually light stocks. Prices are a shade lower and the probabilities are the prospect of a good-sized order would bring out even lower a cash basis f. o. b cars Buffale as follows: No. 1 foundry strong coke iron, Lake Superior ore, \$12:50; No. 2 foundry strong coke iron, Lake Superior ore, \$12; Ohio strong softener No. 1, \$12:50; Ohio strong softener No. 2, \$12; Jackson County silvery No. 1, \$15,25; Southern soft No. 1, \$11; Southern soft No. 2, \$10.75; Lake Superior charcoal, \$14@\$14.50. Chicago. Aug. 19.

Chicago.

(From Our Special Correspondent.) There is but little new business in this market

this week. Buying in all lines continues light, nobody appearing to have any desire whatever to come into the market for anything larger than for temporary wants. A number of large concerns are entirely out of the market in consequence of their inability to carry on business because of the close-ness of the money market. Business is being refused for the want of ready capital and the banks almost to a unit will lend no money even on excellent se-curity. The railroads are buying no rails and the billet and rod market is almost flat.

Pig Iron.—Buying continues just large enough to supply immediate wants and no more. The aggregate sales of the week will not exceed a few thousand tons, and none of them were for more than a couple of hundred tons. Prices are low now, out notwithstanding that consumers look on the conditions prevailing as too uncertain. We quote as follows: Lake Superior *charcoal, \$13 50(@\$12; No. 2, \$11.25; local Scotch, No. 1, \$11.75; @\$12; No. 2, \$11.25; @\$11.75; No. 3, \$11(@\$11.25; local Scotch, No. 1, \$11.75; @\$12; No. 2, \$11.25(@\$10.60; \$10.63; Nc. 3, \$10.35(@\$10.60; \$0.0thern, No. 1, \$00; \$10.63; Nc. 3, \$10.35(@\$10.60; \$0.0thern, No. 1, \$00; \$10.63; Nc. 3, \$10.35(@\$10.60; \$0.0thern, No. 1, \$00; \$10.60(@\$10.85; No. 2, \$00; \$10.60(@\$10.85; Jackson County silveries, \$14.50(@\$16.0bi strong softeners, \$15.60; \$13.60.
Bar Iron.—Buying is confined wholly to small

Bar Iron.-Buying is confined wholly to small quantities. Prices are for common iron 1'30@1'35c.; guaranteed, 1'35@1'40c.

Steel Rails.—Orders are being booked for rails, but the aggregate sales are not up to one good order. Rails are quoted \$29 and upward according to specification.

Billets and Rods.—There is but small demand for billets or rods. Billets are quoted \$21.25.

for onlets of rods. Billets are quoted \$21,25, **Structural Material.**—The new building of the Illinois Trust and Savings Bank is in the market for 700 tons. Otherwise but a small business is being transacted, chiefly in bridge material. Quo-tations are : Beams and channels, 1'70@1'5c;, an-gles, 1'35@1'40c;; plates, 1'40@1'45c;; tees, 1'55@1'60c. Small lots from stock are quoted ½@½c, higher.

Old Rails and Wheels, There is no demand for either old iron rails or old wheels. Old wheels are quoted \$12.50@\$13; old iron rails, \$13.

Cleveland, O. (From Our Special Correspondent.)

(From Our Special Correspondent.) Iron Ore.—The movement of ore from the upper lake region is somewhat stronger this week than last, but the market is not affected. The sales have been very slow and small in quantity, the business at present being but a drop in the bucket compared to that transacted during the same period last year. For the first time since the early sales were made in the spring after the prices were fixed, the quotations show indications of weakening. How-ever, no sales were reported at less than the scale. The quotations are: Standard Bessemers, \$4; non-Bessemer hematites, \$3(2)\$, Mesabi non-Besse-mers, \$2.40(@\$2.60. Lake freights remain the same as last week. Two

Descenter interview mers, §2.40(a) §2.40. Lake freights remain the same as last week. Two or three vessels have been tied up during the past week, and they were the property of ore dealers. The other vessel owners are of the opinion that there will be a reaction in their favor in the fall.

there will be a reaction in their favor in the fail. **Fig Iron.**—There have been so few sales of pig iron that the dealers say they are doing absolutely nothing. Prices have weakened since last week, but the nominal quotations are the same, as will be seen in the following: Lake Superior charcoal, \$13.50 @\$14; bituminous coke, No. 1 foundry iron, \$12.25; No. 2, \$\$11.75; Bessemer pig, \$12.25. Bit Schelarbit Aug 20

Philadelphia. (From Our Special Correspondent.)

(From Our Special Correspondent.) **Pig Iron.**—The undue anxiety of several near-by and far-off producers to realize on pig iron has led to some remarkable quotations for iron, par-ticularly forge, during the past few days. There is nothing of a satisfactory nature to report. Some brokers explain the situation by saying paralysis has struck business. Fall orders are backward. Late spring contracts for iron in some cases have not been all delivered. Forge iron has been offered at \$10.25. A few sales of first-class forge were made at \$11. Everybody wants to wait; but our prophets still say to look out for big business in October. Foundry irons drag, but strong holders of good brands say they will not let go at less than \$12.50; No. 2 best brands, \$12. Standard Bessemer is sup-posed to be worth \$13,25, but no sales are reported for a few days. Steel Billets.—From good sources it is learned

Steel Billets.-From good sources it is learned Steel Billets.—From good sources it is learned that certain large consumers have sounded pool representatives on billets at $20.70 \otimes 20.75$, but the pool price is 21.50. Nothing can be learned as to whether these suggestions made any impression. People are waiting for something to happen.

Merchant Bars.—Production was reduced one-haif last week in Eastern Pennsylvania. Every-thing is as usual this week. From all quarters comes practically the same report that business is not rushing. Bars range from 1.20c. up.

Sheets.—The sheet mill manufacturers have gathered a far amount of business during the hot week past, and to-day sent out quotations on what they say will prove to be large orders. This is a good time to order for winter delivery if manufac-turers will agree to deliveries so far ahead.

Skelp.-Business since Monday is unimportant. Merchant Steel .- Orders for tool works, carriage THE ENGINEERING AND MINING JOURNAL

and wagon material and for other uses were sent to mills this week, but prices are weak.

mills this week, but prices are weak. Pipes and Tubes.—Small orders for tubes were booked Monday. Deliveries on early July orders for wrought pipe are being hurried along. Cast pipe works are pretty well fixed. Plate and Tank.—The unexpected postpone-ment of some work that Eastern mills looked for knocks out three or four orders that were counted upon to help us out.

Structural Material .- There would be a sharp struggle for business if there were any to struggle for. The orders coming along are small and keep only a portion of mill capacity engaged. Angles are 1 40c.; beams and channels 1 70@2 00c.

Steel Rails.—Makers report the season approach-ing when a number of roads will be in the market for business, but mostly for repairs. Old Rails.—The business done is unimportant.

Scrap.-The yards are well stocked and more stuff is offered than is taken.

Pittsburg. Aug. 20.

Pittsburg. Aug. 20. (From Our Special Correspondent.) Raw Iron and Steel.—Business continues dull in all departments; the volume of transactions is steadily shrinking and without improvement in prices. Merchants in all departments of trade bave adhered to a very conservative policy, and business as a general thing has been restricted to the supply of actual requirements. Increasing stringency in the money markets and closer discrimination in mercantile credits have operated to retard im-provement in business. Industrial conditions have not changed for the better. Some necessary busi-ness is going through, but it does not amount to much, while there is a disposition to avoid making engagements for the future. The stocks of crude states and the retard and and and the stocks of the states and the store and and and the stocks of the states and the retard and and and the stocks of the states and the retard and and the stocks of the states and the retard and and the stocks of the states and states and the retard and and the stocks of the states and the retard and and the stocks of the states and states and states and stocks and states and the retard and and the stocks of the states and states and the stocks of the states and st 842,464 tons last month.

iron in first brands increased from 816,272 tons to 842,464 tons last month. Even the present reduced production is probably in excess of the consumption, and, at all events, the market is weak and unsettled. Buyers are satisfied of their ability to get iron at any time, and hence are not disposed to make contracts. A furnace designing to sell any quantity of pig-iron at this time would probably have to make large concessions from present prices. It is possible that some irons may be had for 50c. per ton less than at present quoted. The Tennessee Coal and Iron Company is making some very low prices on iron; Southern irons are even duller than Western irons: Business in the Ohio val-ley continues very unsatisfactory; most big plants are closed for the present, the principal cause being the unsettled condition of the money market and the difficulty of obtaining discounts. Latest.—The market shows neither life nor activ-

Latest.—The market shows neither life nor activ-ity, prices are very weak but no lower. Specula-tors seem to be alraid to make a bid for a block of iroa.

Tons	Cash.	CHARCOAL.
		Tons. Cash.
	AND COAL SMELTED,	50 Cold Blast, Pitts \$23.00
LA	KM AND NATIVE ORE.	50 Charcoal, Pitts., 22.00
1.000	Bessemer, Aug.,	50 Charcoal, Pitts. 18.00
	Pitts 11.00	de No d Foundary
1 000	Bessemer, Aug.,	25 No. 2 Foundry,
1,000	Pitts 10.80	Pitts 16.00
1 000	Bessemer, Sept.,	25 No. 2 Foundry,
1,000	Detsenner, sept.,	Pitts 16.00
000	Pitts 10.75	
800	Bessemer, Aug.,	BLOOMS, BILLETS AND SLABS
	Pitts 11.25	AT MILL,
500	Gray Forge, Aug ,	
	Vitts 9.75	500 Billets, Aug., Sept.
500	Bessemer, Aug.,	at mill 19.50
	Pitts 11.00	300 Billets, spot, at
200	Grey Forge, Spot,	mill 19.50
	Pitts 9.75	200 Billets, Aug., at
195	No. 1 Foundry,	mill 19.75
140	Spo', Pitts 12.00	100 Billets, Aug., at
100		mitt 19.00
100	No. 2 Foundry,	500 Billets, Aug. at
-	Aug., Pitts 11.50	mili 21.25
50	No. 2 Foundry, Spot, Pitts., 11.50	41141
	Spot, Pilts., 11.30	SKELP'STEEL.
50	No. 2 Foundry,	100 Wide grooved,
	Spot, Pitts 11.70	Pitts \$1.05 4 m.
25	No. 3 Founary,	100 Narrow grooved.
	spot, Pitts 10.75	Pitts 1.00 4 m.
25	No. 2 Foundry,	
	spot, Pius 11.50	MUCK BAR.
25		300 Neutral, deliv'ed,
£69	spot. Pitts . 11.75	Pitts \$19.50
95	No. 2 Foundry,	
20	anot Ditta 11 50	BLOOMS, BILLETS, BAR ENDS.
OF	spot. Pitts 11.50	200 Blooms and billet
25	No. 2 Foundry.	and allocated black and so

25 No. 2 Foundry, August, Pitts., 11.50 25 No. 2 Foundry, spot, Pitts., 11.00 1,000 Delivered, Pitts., 12.50 spot, Pitts., 11.00 1,000 Delivered, Pitts., 12.50 ends, Pitts \$12.50

Cartagena, Spain. Aug. 3.

(Special Report of Barrington & Holt.)

(Special Report of Barrington & Holt.) **Tron Ores.**—The general activity has continued throughout the district for the past month and local prices are being forced up all around. The amount of ores shipped in July was as follows: To England, 54.620 tons: Rotterdam, 6,300 tons: United States, 3,500 tons; France, 2,050 tons: total, 66,970 tons. We quote: For ordinary 50% Portman ore, 5s. 6d.@6a, per ton; special low phosphorus (guaranteed not over 0.03%), 5s. 8d @0s. 4d.; specular ore, 60% iron, 8, 4d. For manganiferous ores quotations are: No. 1, 20% iron and 20% marganese, 14s. per ton: No. 1 P, 25% iron and 17% marganese, 14s.; No. 2, 30% iron and 15% manganese, 10s. 6d.; No.3, 35% iron and 13% manganese, 9s. 7d. All prices are f. o. b. shipping port.

port. Considerable interest is being displayed in antici-pation of the meeting of the British Iron and Steel Institute, which is this year to be held in Bilbao, September 1st-4th. The members will leave Lon-

don August 29th per steamer Ormuz, and will visit the great iron-ore districts.

Other Metals. —We quote for iron pyrites, 40%ron and 45% sulphur, 10s, 6d, per ton. Copper ore s quoted at 7s, 6d, per unit.

METAL MARKET.

NEW YORK, Friday Evening, August 21, 1896. Gold and Silver.

Prices of Silver per Ounce Troy.

	St. Ex.	London Pence.	N. Y. Cts.	Value of sil. in \$1	August.	St. Ex.	London Pence.	N. Y. Cts.	Value of sil. in 21
15	4.87	31	67%	.521	19	4.85	303%	6534	.508
17	4.861/2	31.7/8	67	.518	20	4.85½	301/2	661/s	.515
18	4.853/4	30.5/8	66½	.514	21	4.85½	3013	663/s	517

Silver suffered a sharp decline this week to 30%d., reacting to day to 3013d., but closing weak at 3014d. This has been due to withdrawal of Chinese buyers and a diminishing demand for India, resulting in lack of support. There has also been some liquida-tion of speculative holdings. The United States Assay Office in New York re-ports the total receipts of silver at 96,000 oz. for the week.

Gold and Silver Exports and Imports.

At all United States ports, July, 1896, and years from January 1st, 1896 and 1895: Coin and hullion 1 In ores Total ev-

	Com and bumon.		111 0	100.	cess, Exp.	
	Exports.	Imports.	Exports.	Imports.		
Gold July. 1836 1895	\$10,603,716 53,539,267 39,098,966	\$1 505,928 26,672,625 26,556,397		939,330	E. \$8,959,699 E. 26,006,568 E. 11,857,421	
SILV. Julv. 1896 1895	5,730,554 35,657,784 28,711,548	839,155 6,783,537 5,081,794	$\begin{array}{r} 33,652 \\ 370 \ 575 \\ 36,142 \end{array}$	1,769,929 10,619 630 7,032,858	E. 18.625.192	

This statement includes the exports and imports at all United States ports, the figures being fur-nished by the Bureau of Statistics of the Treasury Department.

Gold and Silver Exports and Imports, New York For the week ending August 21-t, 1896, and for years from January 1st, 1896, 1895, 1894, 1893 and 1892:

1	Gold.		Silver.			Total Ex- cess, Exp.	
	Exports. Imports.		Exports.	Imports.	or Imp.		
We'k	\$1.500	\$32,541	\$1.027.207	\$67,800	чс.,	\$931.366	
1896	40,569,448	17,634,198	24,990.732	1,795,945	E.	45,930,037	
1895	43,738,828	25,237.873	26,553,498	1.172.221	H.,	43,682,232	
1891.	81.869.435	12,791,494	23.566.125	1,099,062	E.	91,545,404	
1893.	69,230,427	15,572,236	21,111.717	1,667.548	H.	43,102,360	
1892	55,355,363	6,128,810	14, 48,135	1,387,377	E.	62,087,311	

The gold imported for the week went to the West Indies; the silver nearly all to London. The gold imported came from Mexico and Central America; the silver from South America.

Average Monthly Price of Silver

in New York and London, per ounce Troy, from January 1st, 1896, and for corresponding months, 1895 and 1894.

1	1896.		18	95.	1894.	
Month.	Lon- don. Pence.	New York. Cents,	Lon- don. Pence.	New York. Cents.	Lon- don. Pence.	New York. Cents.
January .	30 69	67.13	27:36	59.69	30.81	66.63
February	31.01	67.67	27.47	59.90	29.18	63 43
March	31.34	68.40	28.33	61.98	27.28	59.49
April	31.10	67.92	30:39	66.61	28.95	62 92
May	31.08	67.88	30.61	66.75	28.69	62.96
June	31.46	68.69	30.47	66.61	28.68	62.29
July	31.45	68.75	30.48	66-75	29*82	62 .45

FINANCIAL NOTES OF THE WEEK.

The features of the financial situation this week are found in the exchange market and in the posi-tion of the banks. In the former rates have ruled low, and instead of gold shipments outward, a small reverse movement has set in. While no gold has yet arrived, it is announced that several con-signments, amounting in all to \$2,750,000, nave been ordered and some are actually on the way here, the first being due in New York early next week. These imports are partly the result of the action of the banks and foreign exchange houses, referred to in preceding weeks, and partly of the high rates of interest just now prevailing here. Most of them, however, seem to be in anticipation of cotton and grain shipments later, and in the natural course of events, could not have been expected before October. The features of the financial situation this week October.

The New York banks have been further curtailing their loans. This has been partly due to the reduc-

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tion of the surplus, the total reserves being now very nearly down to the legal limit. It is partly due also to the withdrawal of deposits and the movement of currency to the West and South, which is usual at this season. The stringent money market due to this contraction still continues, though the high rates prevailing must be attributed in part to the general uncertainty and the unwill-ingness shown in many quarters to close any im-portant transactions covering any length of time. This feeling is, of course, affecting all business and and is further shown by the fact that there is everywhere a very close scrutinizing of credits and of securities when accommodation is asked.

While the import of gold and its supposed causes have produced a little better feeling, it is manifest that the situation is somewhat strained and arti-ficial. In normal times the difference in interest rates would be sufficient to cause a heavy move-ment of money this way, but at present it requires a good deal of preparation and too obvious an amount of machinery to bring about the present comparatively small results.

The price of silver has receded this week, as shown by the table given at the head of this column. While the supply from this country has not ex-ce ded the usual limit, the price recently has been high enough to call out offers from other quarters. Thus the fact may be noted that the trade returns from India just received show that in July there was actually an excess of exports of silver from India over the imports amounting to \$21,000 oz. for the month. This is most unusual, as the imports are generally much in excess; and shows that ex-ceptional influences have been at work.

The statement of the United States Treasury on Thursday, August 20th, shows balances in excess of out tanding certificates as below, comparison being made with the statement for the corresponding date last week:

...... \$249,117,566 \$241,402,567 D. \$7,714,999 Totals..... Treasury deposits with national banks amounted on August 20th to \$16,346,450, showing an increase of \$206,429 during the week.

Although there have been no large withdrawals and no exports, the decline of \$2,503,937 for the week in the Treasury gold reserve shows that the with-drawal of small amounts continues. A demand from Canada is offered as a partial explanation of the drain; but the Canadian banks are not in special need of gold at this time. It is hinted that some of the shipments over the line are really made on orders from this side; parties who do not wish it to be known that they are drawing gold might easily make use of a Montreal or Toronto bank for the purpose. The transaction would be a little round-about, but not too expensive to be carried through if there is any object it it. The explanation seems at least plausible.

The foreign merchandise trade of the United States for the seven months ending July 31st is re-ported by the Bureau of Statistics of the Treasury Department as below :

Excess. Excess of	exports, gold silver	. I. \$21,219,092	18,625,192

The gold and silver movement in detail will be found in the usual place, at the head of this column.

Imports of specie at San Francisco by water amounted to \$1,838,065 for the seven months ending July 31st, showing a decrease of \$231,087 as com-pared with the corresponding period in 1895. Of the total this year there was \$1,618.824 from Mexico; \$153,463 from British Columbia; \$5.650 from Central America; \$3,334 from other countries. The descrip-tions were as follows: Coin. Bullion. Total.

fold silver	Coin. \$57,508 251,578	Bullion. \$512,743 1,013,238	\$570,25 1,267,81

\$1,838,065\$312,084 \$1,525,931 Total..... Total......\$312,084 \$1,525,931 \$1,530,500 The total for the month of July was \$308,501, of which there was \$70,403 in gold, mostly in Mexican bullion, and \$229,093 in silver, chiefly from the same country, including \$200,231 in bullion.

The statement of the New York banks-including the 65 banks represented in the Clearing House-for the week ending August 15th, gives the following totals, comparisons being made with the corre--including

sponding weeks in 1895 and 18 1894. Loans and discounts.\$486,298,800 Deposits	\$94; 1895. \$511,275 200 577,223,300 13,254,800	1896. \$464,918,200 467,393,700 15,789,800
Reserve: Specie 91,028,400 Legal tenders 123,000,500	65,689,200 119,883,500	46,863,000 79,385,600
Total reserve	\$185,572,700 144,305,825	\$126,248,600 116,848,435
Surplus reserve \$67,806,650	\$41,266,875	\$9,400,175

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AUG. 22, 1896.

THE ENGINEERING AND MINING JOURNAL.

Changes for the week this year were increases of \$317,200 in specie and of \$526,600, in circulation; de-greases of \$3,119,400 in loans, \$9,770,800 in deposits, \$7,175,300 in legal tenders and \$4,415,400 in surplus

The following table shows the specie holdings of the leading banks of the world at the latest dates covered by their reports. The amounts are reduced to dollars and comparison is made with the hold-ings at the corresponding dates last year:

Asso, Banks of 1	New York			\$16,863,000
1895				65,689.200
Bank of Engla	nd			237,374,755
1895		202.108,765		202,108,705
Bank of Franc		419,298,297	\$250,092,319	669,390,616
1895		413, 189, 179	252,129,577	665,318,756
Imp. Bank of	Germany.			228,200,000
1895				254.970,000
Austro-Hunga			64,285,000	206,515,900
1895		102,350,000	66,399,000	168,749,000
Netnerlands B		13,170,000	34,368,000	47,538,000
			34,699,000	56,124,000
Belgian Nation		1		19,686,000
1895				20.658,000
Bank of Spain.		42,029,000		95.563.000
1895				100,385,000
Bank of Italy.		60,625,000		71,185,000
1895		60,410,000	10,355,000	70,765,009
Imp. Bank of I		477,545,000		477,545,000
1925		465 770 000		405,770,000

Shipments of silver from Londou to the East for the year up to August 6th are reported by Messrs. Pixley & Abell's circular as below:

	1895.	1896.	C	hanges.
India	£2,251,580	£2,175,578	D,	£76,002
China		574,413	D.	526,354
The Straits	512,703	545,686	1.	32,983
(B. 1. 1	00.002 050	00 005 088		0500 080

Shipments for the week included $\pounds 185,000$ bar silver to India and $\pounds 28,154$ in Mexican dollars to the Straits, a total of $\pounds 213,154$. Receipts were $\pounds 18,000$ from the West Indies and $\pounds 210,000$ from New York in bar silver and $\pounds 150,000$ from Vera Cruz in Mexican dollars, a total of $\pounds 360,000$ for the week.

Indian exchange continues strong, and there were plenty of applications for the 50 lakks of Council bills offered in London. The average price was 14°25d. per rupee. The demand has been helped by a somewhat unusual movement, a large export of silver from India.

Domestic and Foreign Coins.

The following are the latest market quotations for the leading foreign coins:

in the second seco		
Marican dollars	Bid \$0.5134	Asked. \$0.5334
Mexican dollars	\$0.5194	
Peruvian soles and Chilean pesos	.471/2	.19
Victoria sovereigns	4.90	4.94
Twenty francs	3,88	3.92
Twenty marks	4.78	4.85
Spanish 25 pesetas.	4.78	4.85

Other Metals.

<text><text><text><text><text>

65 8.0

ne ng

,000

the very heavy shipments from this side, may be considered as quite a fair result.

The following figures give the production (in tons of 2,240 lbs.) of copper in the United States, and also by the chief foreign mines, and the exports from the United States for July and the seven months ending July 31st:

Production fine copper, long July.	-Seven m	ontha-
tons : 1896	. 1895.	1896.
Reporting mines in U.S 15,39	5 83,136	\$9.575
Pyrites and outside sources, U.S. 1.20		8,400
Reporting soreign mines 7,84	7 49,472	50,102
Total production, tons		158,077

For the seven months there was an increase this year of 14,639 tons, or 15.7%, in the total United production. There was also an increase of 29,675 tons, or 75.1%, in the United States exports.

tons, or 751%, in the United States exports. Tin has been in very good demand, and spot tin has been exceedingly scarce. In consequence of this prices for spot have gone up to 13'50@13'60, but future deliveries are obtainable at 13'30@3'35. Several steamers with heavy quantities of tin on board are expected during the next 10 days, all of which will probably go at once into consumption. The London market declined early in the week, most probably on account of the easier prices es-tablished for silver, but since the latter has been firmer again. values for tin have also profited and closed at about the same as quoted last week, £59 17s. 6d.@£60 for spot and £60 10s. for three months prompt.

prompt

Exports of tin from the Straits Settlements for the half half-year ending June 30th were as follows, in of 2,240 lbs:

	1894.	1895.	1896,	
United States	. 3,301	3,113	8,172	
Europe	. 19,390	19,625	14,503	
China	. 960	953	1,696	
India	804	1,003	1,342	

States been large.

been large. Lead.—In spite of the low prices now ruling, lead appears to find no friends. Very little business has been done, and this at concessions. Desilverized has been freely offered at 2.70c. for August Septem-ber delivery, and several sales have been made at below this figure, down to 2.45c. The St. Louis market is also rather flat and sales are reported at from 2.50c. down to 2.43c. Consumers who have yet some stocks on hand still pursue their waiting policy.

yet some storas of the policy. The foreign market has also given way quite con-siderably, declining to $\pounds10155$. for Spanish and $\pounds11$ for English lead. Market.—The John Wahl Com-

for English lead. St. Louis Lead Market.—The John Wahl Com-mission Company telegraphs us as follows: Lead continues weak and the decline in prices is still go-ing on. Common lead is selling only lightly, and we quote 2.45c. Corroding lead is taken at 2.50c. Spanish Lead Market.—Messrs. Barrington & Hoit write from Cartagena, Spain, under date of August 3d : The average local quotation for July has been 56:13 reales per quintai of lead on wharf, silver to be paid off at 15:12 reales per ounce. The exports for July were 6,783,425 kgms. lead, an in-crease of 1,180,249 kgms. over June. For lead ores we quote as follows: Potters' ore, 3s.9d. per cwt.; Linares sulphide, 6s. 9d.; Linares carbonate, 4s. 6d. per cwt. Spelter continues quite demoralized. Prime

per cwt. Spelter continues quite demoralized. Prime Western brands are freely offered at 3:50 St. Louis and 3.75 New York, but buyers are rather scarce. The galvanizing business is in a very poor condition, and in consequence the considerably reduced pro-duction cannot be easily marketed. Spelter in London has been rather irregular. It appears that spot is rather scarce, and from £16 15s. up to £17 Is. 3d. has been paid for same in Lon-don, but futures are difficult of sale and are to be quoted at 5 to 10s. lower.

Antimony is in very poor demand and we have to quote Cookson's, 7c.; United States French Star, 6%c.; Hallett's, 6%@61%c.

 0% c.; Hallett's, 0% @0% c.

 Nickel.—With no marked change in demand, which is not very heavy, prices are firm and even a shade higher. We quote 35@ 36c, per lb. for ton lots and 37@ 39c. for smaller orders. London prices are 14d.@15d. for large orders and 15d.@161/d. for small lots. The New York price is on a parity with London, allowing for the United States duty of 6c, per lb. on the metal.
 Tin and black plates, boxes.
 26,823
 1,156
 584,675

 12
 * Metal Exchange Reports.
 1,156
 12

 * Metal Exchange Reports.
 * Week ending Aug. 20.

 * Metal Exchange Reports.
 * Week, Aug. 20.

 * Baltimore.**
 Exp. Imp.

 Exp. Imp.
 Exp. Imp.

 * Chrome ore..... long tons
 52

 * Ore in the metal.
 * 0

 * 142.@20
 * 0

 * Baltimore.**
 Exp. Imp.

 * Exp. 0
 * 0

 * 0
 * 0

 * 0
 * 0

 * 0
 * 0

 * 0
 * 0

 * 0
 * 0

of 6c. per lb. on the metal. **Platinum.**—Demand is steady and prices are firm at \$14.50(@\$15.50 per oz., New York. London quotations are 57s. 6d.@59s. per oz. For chemical ware, best hammered metal, Messra. Eimer & Amend, New York, turnish the following quotation, the prices given being respectively for orders of over 250 grams; for orders of over 100 grams and less than 250 grams, and for orders of less than 100 grams: Crucibles and dishes, 50c., 51c. and 52c. per gram. Wire and foil are 47c., 48c. and 49c., per gram. The current retail price for crucibles is 60c. per gram. **Quicksilver.**—The price is unchanged at \$35.50

Quicksilver.—The price is unchanged at \$35.50 per flask, New York. The London quotation is also unchanged at £67s. 6d. per flask, with £6 6s. 3d. named from second hands. Quicksilver receipts at San Francisco in July were 1,750 flasks; for the seven months ending July 31st they were 20,189 flasks, against 17,445 flasks in 1895 and 16,147 flasks

in 1894. Exports from San Francisco by sea for the seven months were 9,533 flasks, an increase of 400 flasks over last year. The shipments were divided as follows: China, 3,000 flasks; New Zealand,16; Mexico, 3,207; Central America, 805; British Columbia, 11: New York, 2,300 flasks. In addition to these ex-ports a considerable quantity has been shipped to New York and interior points by rail, both from San Francisco and directly from the mines.

The Minor Metals.—Quotations for these metals are given in the table below, the prices being for New York delivery: AI

Alumnum.
No. 1, 984 pure rolling ingots, per lb
No. 1, " ingots for re-melting, per lb 48@53c
No. 2, 915 pure, "
Ingots from scrap, per lb
Aluminum-nickel casting metal, per lb
Bismuth, per lb
Tungeten, nure, nowder per lb. 700
Tungstic acid, per lb
Ferro-tungsten, diff in ton lots, ner lb 60e
the order.
Phosphorus, per lb

Average Monthly Prices of Metals

In New York since January 1st, 1896, and for the corre-sponding periods in 1895, 1894, 1893 and 1892, in cents per pound.

Month.	1896.	1895.	1894.	1893.	1892.
Copper:					
January	9.87	10.00	10.13	12.13	11.00
February	10.54	10.00	9.63	12.00	10.00
March	11.03	9.75	9.81	11.88	10.38
April	10.98	9.75	9.20	11.38	11.20
May	11.12	10.25	9.80	11.00	11.63
June	11.67	10.63	8.91	11.00	11.86
July	11.40	11.25	9.00	10.88	11.20
Tin :					
January	13.02	13.25	20.16	19.99	20.50
February	13.44	13 35	19.60	20.30	20.00
March	13.30	13.20	19.09	20.71	20.2
April	13.34	14'00	19.75	20'81	20.50
May	13.54	14.65	20.21	19 96	20.8
June	13.29	14.15	19.75	19.76	22.00
July	13.63	14.40	19.22	19.15	21.0
Lead :					
January	3.08	3.10	3.19	3.87	4:9
February	3.19	3.12	3.31	4.22	4.19
March	3.14	3.12	3 37	3.96	4.2
April	3.02	3.08	3.43	4'08	4.1
May	3.03	3.16	3:39	3.89	4.25
June	3.03	3.25	2'31	3.77	4-16
July	2.96	3.25	3.20	3.98	4.1
Spelter :					
January	3.75	3.28	3.26	4.39	4.6
February	4.03	3.50	3.85	4.39	4.6
March	4.20	3.23	3.89	4.28	4.8
April	4.19	3:30	3.62	4*38	4.6
May	3.98	3:50	3.47	4.41	1 1.79
June	4.10	3 65	3.40	1.27	4.7
July	3.97	3.75	3'43	4.13	4.7

Imports and Exports of Metals.

North Article A	Week,	Aug. 14.	Year, 1800.		
New York.*	Expts.	Impts.	Expts.	Impts.	
Aluminumlbs Antimony oreshort ton "regulus cask	8		10,000 10,000	2,010 2,356 1,521	
Brass, oldshort tons Copper, finelong ton matte	19 1637 100		186 46,295 ; 10,439	2,429 1,256	
" ore" " " sulphate" " Iron ore		60	4,431	4,592	
" pigs, bars, rods" "	946	393	455	5,093 1,200	
" sulphate" " Werro-mangan'se " " Ferro-silicon " "			******	610 499	
Manganese ore"" Spiegeleisen"" Lead ore""	*****	893	•••••	5,244 24,001	
" pigs and bars " " Magnolia metal " " Nickel	1562	†491	5,098 42 611	25,771	
Tin Tin and black plates, boxes		363	301	17,721 9,396 584,675	
I'm and mack higrost noves			1 1 1 1 1	1 OUALOTS	

TR-144	Week,	Aug. 20.	Year,	1896.	
Baltimore.**	Exp.	Imp.	Exp.	Imp.	
Bismuth metal, cases Chrome orelong tons Copper, fine " " " matte" " " sulphate" Iron ore" " pigs, bars, ingots, blooms. " Iron oxide bags " pyriteslong tons		4,527		52 4,891 254,954 2,076 300	
Ferro-manga- nese Ferro-silicon Lead	130	101	3,097 21	1,458 70 2,743 6,518 415	
Steet	30	109 (,450	21 189 241	7,488 1238 121,545	

**From our special correspondent.

THE ENGINEERING AND MINING JOURNAL.

Copper ore, long tons	Imports.			
	Week. Aug. 13.	Year 1896.		
	3,819 25 9,277 75	$\begin{array}{c} 102\\ 13,900\\ 485\\ 60\\ 178,357\\ 500\\ 618\\ 4,564\\ 134\\ 341\\ 27,073\\ \end{array}$		

H From New York Metal Exchange Reports

CHEMICALS AND MINERALS

Acids.—No change worthy of note has occurred in the acid market within the past week. The vol-ume of business that is being done is the same as for some time past, and at prices that have been firmly maintained. The situation is summed up in one word, "quiet."

one word, "quiet." Quotations show no change, and are as follows: Acetic acid (in barrels or carboys), \$1.25@\$1.40; muri-atic acid, 18°, 75c.; 20°, 75@85c.; 22°, \$1.10@\$1.25, ac-cording to make and quantity. Nitric acid, 36°, \$3.25 (@\$4.36; 40°, \$4@\$4.50; 42°, \$4.50) @\$5.50. Oxalic acid, \$7.25 ex-dock and \$7.50 ex-store. Mixed acids, accord-ing to mixture. Sulphuric acid, 60°, 75@95c., 10@15c. higher for small quantities. Cnamber acid, \$6@\$6.50 per ton at factory. Blue vitriol, \$4@\$4.25, accord-ing to grade and order. Brimstone... There have been several arrivals of

Brimstone.-There have been several arrivals Brimstone.—There have been several arrivals of brimstone within the past week, and the steamship Stag with a cargo of 1,400 tons best unmixed sec-onds is expected within a few days. For this grade the spot price is given variously from $$21(@$22]_{2}$ per ton. The price for September for best unmixed seconds is $$20/_{2}$, and for October $$18/_{2}$ per ton. For thirds the deduction from both of these prices is 50c. per ton. There is, however, reported to be little demand for futures.

For thirds the deduction from both of these prices is 50c, per ton. There is, however, reported to be little demand for futures. Fertilizing Chemicals.—An exceptionally dull week is reported for this market, practically no sales having been made. This is said to be due in part to the offers of the buyers, which have been such that sellers were not willing to accept them. This would naturally make the market very flat. Although the quotations for sulphate of annonia remain the same as before, prices have ceased to sag and the market is said to show a little more firmness. We quote: Sulphate of ammonia, gas liquor, 82.25% $\&2.27!_{5}$; bone, &2.15@&2.20 per 100 lbs. Dried blood, high grade, \$1.55@&1.60 per unit; low grade, flue ground, $\$1.40@\&1.42!_{5}$ f.o.b. Chicago. Azotine, \$1.60 $\&1.40@\&1.42!_{5}$, f.o.b. Chicago. Azotine, \$1.65@\$1.70 basis New York. Concentrated phosphate $(3)\%_{a}$ vallable phosphoric acid), 60c, per unit. Acid phosphate, $13\%_{a}$ (mb_{a} , x, $P_{2}O_{5}, 54@65c, per unit$ $a seller's works in bulk. Dissolved bone black, <math>17\%_{b}$ to $18\%_{a}$, $P_{2}O_{a}$, $87\%_{a}$ (90c, per unit. Aciduated flah scrap, \$9@\$9.50, and dried scrap \$18.50@\$19 f. o. b. fish factory. Tankage, high grade, $\$18\%_{a}$ (\$19; low grade, $\$17\%_{a}$ Bhonemeal, \$19.50@\$23. Sulphate of Potash: $90.35\%_{a}$, New York and Bos-ton, $\$1.00\%_{a}$; Philadelphia, Baltimore and Norfolk, \$1.98; Southern ports, $\$1.63\%_{a}$. Murate of Potash: $18.53\%_{a}$, New York and Bos-ton, $\$1.90\%_{a}$ (basis of $\$0\%_{a}$, in loss of 50 tons and upward. Kainit.—Quotations for 1896 are as follows: New York, Boston, Philadelphia and Baltimore, \$8.80per ton, Norfolk, \$9.15, and New Orleans, for $\$00\%_{a}$ (basis of $\$0\%_{a}$, in loss of 50 tons and upward. Kainit.—Quotations for 1896 are as follows: New York, Boston, Philadelphia and Baltimore, \$8.80per ton, Norfolk, \$9.15, and New Orleans, \$9.30 per ton, for 25 tons and upward. Sylvinit at the same ports is quoted at $\$\%_{a}$, $37\%_{a}$, and \$8, respec

ively.

Nitrate of Soda.—The prices quoted are 1.77%@ 180c, for spot, according to quantity; 1.80c. to ar-rive, and 1.82%@1.85c. for futures.

NOTES OF THE WEEK.

The directors of the nitrate combination have fixed the total quantity of nitrate to be exported from Peru and Chile for the year from April 1st, 1896, to March 31st, 1897, at 20,300,000 Spanish quin-tals. A variation of $2\frac{1}{2}\frac{1}{3}$ % on this total will be al-lowed, which will permit an addition of 507,500

quintals, if necessary. From present appearances it is probable that the whole amount will be ex-ported.

The report of Brunner, Mond & Company for the fiscal year just closed shows that after paying dividends of 30% on the ordinary stock for the year the company is able to carry a surplus of \$90%000 to the reserve fund. For the purpose of further extending its operations, the company proposes to issue \$400,-000 in me 7% preference stock. The shares are \$50 each, and will be issued at 107.

Messrs. Mortimer & Wisner, the well-known brokers of this city, send us the following statement of nitrate, issued under date of August 1st.

	1896.	1895.	1894.	
Imported into Atlantic ports from West Coast	Bags.	Bags.	Hags.	
S. A., from Jan. 1, 1896, to date	548,239	482,763	323,557	
Totals	548,239	482,763	323,557	
Stock in store and afloat Aug. 1, 1896, in New York	92,613 2,500 163,000	91,861 2,436 5,200 3,500 400 1,200 170,000	500	
Vis. supply to Nov. 15, 1896	25%,113	274,597		
Stock on hand, Jan. 1, 1896.	53,839	58,367	44,938	
Deliveries past month	58,127	30,597	52,859	
" since Jan. 1 to date.	509,465	436,533	314,322	
Total yearly deliveries.		828,042	701,202	
Prices cur. Aug. 1, 1896	1.77%	1.671@1.70	2.10@21/sc.	

Liverpool. Aug. 12.

(Special Correspondence of Joseph P. Brunner & Co.) The dull monotony which has characterized the chemical market for so long past continues without relief.

Sola ask in ample supply, while the demand is disappointing. Quotations vary according to ex-port market, and nearest spot range for tierces is about as follows: Leblanc ash, 48%, 24%24 is, per ton; 58%, 24 5s, 624 10s, per ton; ammonia ash, 48%, 23 5s, 624 10s, per ton; is ammonia ash, 48%, 23 5s, 624 310s, per ton; 58%, 24 35s, 624 310s, 60%, 2320s, 24%, 23 5s, 624%, 210s, 60%, 26 5s, Caustic soda is quiet steady, the nearest spot range, as to market, being about as follows: 60%, 26 5s, 60%, 27 5s, 6d, per ton; 70%, 47 5s, 6d, per ton; 76%, 296%29 5s, per ton, net cash. Bleaching powder is lifeless, and 26 12s, 6d, 6%27per ton is nominal range for hardwood packages, as to market.

to market. Chlorate of potash neglected, and 4¼d.@4%d. is about spot range, but there is very little business renorted. about

reported. Bicarb. soda is not active, but price is steady at £6 15s. per ton, less 2½% for the finest quality in 1-cwt. kegs, with usual allowances for larger packages. Sulphate of ammonia has eased off and is quoted

Sulphate of ammonia has eased off and is quoted at $\pounds \otimes \oplus \pounds \otimes \oplus \oplus$, in double bags f. o. b. here, as to quality. Nitrate of soda is selling in a small way, at $\pounds \otimes \oplus \oplus \oplus$, in 6d. $\oplus \pounds \otimes \oplus \oplus \oplus \oplus \oplus \oplus \oplus \oplus$, or double bags f. o. b. here, according to quality. Carb, ammonia, lump, 3d. per lb.; powdered, $\Im_{4}^{(2)}$, per lb., net cash.

MINING STOCKS.

Complete quotations will be found on pages 190 and 191 of mining stocks listed and dealt in at:

of mining slocks	listed and dealt in a	6:
New York. Boston. Philadelphia. Baltimore. Pittsburg. Denver, Colo. Cleveland. page	Aspen, Colo. Colorado Springs. Duluth, Minn. Helena, Mont. Salt Lake, Utah. San Francisco. 164.	St. Louis. Paris, France. Mexico. Shanghai, China, Valparaiso, Chile London, England

Benver, Colo. San Francisco. London, England. Cleveland, page 164.
NEW YORK, Friday Evening, August 21.
This market continues to be featureless; stocks inthe other hand show a better aggregate than last week, while prices are a little firmer.
The Consolidated Stock and Petroleum Exchange sales of 14,600 shares this week: an increase of 5,220 shares as compared with last week.
The Comstocks were traded in to some extent, but only six stocks showed sales, aggregating 3,200 shares at prices varying from 5c. for Mexican to \$1.75 or Consolidated California & Virginia.
The only California stock dealt in was Brunswick consolidated, which recorded sales of 6,100 shares at 19@20c.
The Black Hills stock, Father de Smet, has again made its appearance on the board of the exchange. The Black Hills stock, Father de Smet, has again made its appearance on the board of the exchange. The Black Hills stock, Father de Smet, has again made its appearance on the board of the exchange. The Black Hills stock, Father de Smet, has again made its appearance on the board of the exchange. The Black Hills stock, Father de Smet, has again Made its appearance on the board of the exchange. The black down Terra Mining Company declared a public announcement. Brokers who were on the inside purchased the stock in anticipation of receiver.

AUG. 22, 1896.

ing this dividend, but the books were closed before they handed in their claims without due notice. Boston. Aug. 90.

(From Our Special Correspondent.)

(From Our Special Correspondent.) The dealings in mining stocks the past week have been light and chi-fly confined to Boston & Mon-tana and Old Dominion copper stocks. The former opened at \$73 and sold up in the course of the week to \$77%, with reaction to \$75%, followed by a rally to \$77% to day, which was however lost, selling at \$7554 and closing at \$75%. Old Dominion has ruled quite firm all the week, with not much stock offered on the market. The opening price was \$12%, which was the lowest, fol-lowed by an advance to \$14½, reacting at the close to \$13%.

lowed by an advance to \$14%, reacting at the close to \$13%. The balance of the market requires but little comment. Calumet & Hecla maintains its figure at \$300, all the sales being at that price. At the annual meeting yesterday the old board of officers were elected without opposition. Quincy, declined \$1, with sales at \$107. Tamarack advanced from \$65 to \$70 on small sales.

sales. Atlantic was firmer at $816\frac{1}{2}$ but lost the fraction in late sales.

Kearasge sold at \$10 for round lots, but small lots sold at \$9% to \$9%. Osceola was firm at \$23 and Wolverine steady at

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\$6. Tamarack, Jr., sold at \$8, same as last week. Pioneer was the only active gold stock, and seems to be in demand at \$4 to $$4\frac{1}{2}$. Santa Isabel ad-vanced from \$7 to \$8 for 150 shares. Merced sold at \$5¹/₄, which is an advance of \$1¹/₄ over last sale. Gold Coins sold at 51c.-3 p. m. The market for the coppers closed a little heavy. Boston & Montana \$75¹/₄ bid, \$75¹/₄ asked. Quincy was offered at \$108 and \$300 was bid for Calumet & Hecla.

Chicago.

The following table gives the highest prices with sales of the stocks recorded on the Chicago Mineral and Mining Board for the week ending Aug, 19th :

Stocks.	Aug. 13.	Aug. 14	Aug. 15	Aug. 17	Aug. 18	Aug. 19	Sales.
Capazone	.04	.03%	1.03%	.03%	.033/4	.035%	6,200
C.C. & C.C			.081/8	,081/2	.08%	.08%	7,300
C. C. Golden							
Group	.131/4	.13%	.14	.14	-13%	.13%	14,500
C. C., G. M. B.							
& L. Co							
Chi. & G. Mt.							
Chi. & Mont.	.13	.131/4	.131/4	.131/2	.13%	.14	37,700
Christmas							
Chula Vista	.081/4	.08	.07%	.0734		.15	46,700
Cosmopolitan.							
Delaware Uf	.46%	.463%		.47	.17	.47	5,200
Finance							
Great Fissure.			.12	.121/4			7,000
Hawkeye							
Imperial Pfd							
Investors' and							
Prospectors'							
Lion's Gold							
Lattle Gem							
Lucille							
Medina G. M							
Co							
Michigan							
Gold							
Peerless G. M.							
Co	.151/4	.15%	.15%	1516		.151/6	9,600
Rhyolite	.1174					.10	6,500
Royal Age							
San Pedro	.10%		.1014				1.100
Squaw Mt							
Sumpter	.0434		.0434				7.500
Sunnyside-	.0174	.0174	.0174	10178	.04/8		
Gilpin	.11%	.115%	.111%	.11	.111/4	-11	7,000
Thompson	.181/4		.1172	.181/4		188%	1.100
							5,000

Total shares sold, 200,100,

Cleveland. Aug. 19.

(From Our Special Correspondent.) (From Our Special Correspondent.) Not a trade in iron stock was reported during the past week. This condition is said to be due to the agitation of the currency question and the fact that the Cleveland investors are satisfied with their present holdings. Consequently, there are no changes in the quotations, which are as follows:

		Aug	ust 19.
Name of Company.	Par val.	Bid.	
Adams Iron Company Aurora	\$10 25 100 25 100 25 100 25 25 100 25 25 100 100 100 25	\$1.50 6.00 32.00 10.00 34.00 2.00 10.00 45.00 70.00 20.00 21.50 75.50 18.00	8.00 34.00 30.00 35.00 13.50 75.00 34.00 21.00 22.50

Aug. 15. Salt Lake City.

(Special Report of James A. Pollock.) Conditions in the local mining stock market dur-ing the past week were not very flattering. Some pi bi ti ti qi ac pi a at

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AUG. 22, 1896.

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San Francisco. (From Our Special Correspondent.)

(From Our Special Correspondent.) The extremely dull opening of the market on Monday did not promise well for the week's business and the result simply justified anticipations. There was no recovery at all and at the close to-day prices were weak and business light, as at the opening. The news from the mines was not of an exciting nature, and no one seems to take any interest in the market the market.

the market. Some closing quotations on Comstocks were: Chol-lar. §2.05@§2.10; Consolidated California & Virginia, §1.00@\$1.05; Hale & Norcross, §1.15@\$1.20; Potosi, \$10@\$1.05; Ophir. 900@91c.; Best & Belcher, 84@85c.; Occidental, 56@55c.; Savage, 49@50c.; Sierra Nevada, \$3644.0.

little was done in the Bodies, but not enough bake any stir. At the close to day Bodie Con-lated stands 47@48c.; Bulwer, 29@30c.; Mono,

solidated stands 47@48c.; Durwer, ______ I&[7c. On the Gold Mining Exchange business was dull also, with light sales and few changes in price. Some of the Comstock shares are now on the list, but prices range about the same as on the old board. Some quotations to day are: Savannah, 49@30c.; Grant, 40c.; Sebastopol, 40c.; Lockwood, 29@30c.

Mission, Status, Science, Science,

British Columbia.

(From Our Special Correspondent.)

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(From Our Special Correspondent.) ROSSLAND, Aug. 8. A considerable improvement in the sales of min-ing stocks has been noticeable for some days. The impetus is due to the new-born interest manifested by parties in Montreal, Ottawa, Toronto and other places in the East. Mine owners and promoters are alive to the necessity of making Eastern capitalists understand that the Trail Creek camp is really a bona fide enterprise, in which large amounts of capital are finding investments, directly and indi-rectly, not only in the mines, but in those under-takings which are necessary to the development of the staple interest of the camp. There have been some complaints that the ship-ments of ore have not been sufficient to justify the many glowing reports which have gone abroad, for the purpose, it is said, of influencing capital in this direction.

One of the best explanations given is that there as been plenty of ore produced, but the facilities has be

for shipment have not been sufficient. The day for shipping Trail Creek ore in any great quantities has passed and it will pay mine owners better to wait until the completion of the Northport-Rossland branch of the Nelson & Fort Shepherd Railway, which will be about November 1st next. The Trail Creek smelter cannot take all the ore in the various mines which has been produced for some time. The productive capacity of the camp has been greatly increased—the producers in addition to Le Roi, War Eagle and O. K. being the Center Star, Iron Mask, Iron Horse, Cliff, Crown Point, Deer Park, Josie, Jumbo, St. Elmo, Commander, Columbia and Kootenay.

Josie, Jumbo, St. Elmo, Commander, Columbia and Kootenay. The impetus which will be given to the shipping of ore from the various producing mines in this camp by the construction of Mr. Cohn's road will be very great, and this expectancy has added largely to the confidence which is felt in the many enter-prises which have been projected here. The geologists have defined a gold belt in the Trail Creek country and so far as known this gold belt extends westwardly to the Houndary Creek country, where the mineral industry has found a dividend payer in Camp McKinney. There has been no cessation in the activity of the camp, which has now became characteristic. My present visit to the midst of the various min-ing enterprises of the camp enables me to form com-parisons with the growth of last year. The changes are many and in some cases marvelous. One feat-ure is especially noticeable. This is the great amount of machinery which this year has been added to the different mining propositions in this vicinity. vicinity.

London.

(From Our Special Correspondent.)

(From Our Special Correspondent.) The South African market has been dull in sym-pathy with the general dullness on the Stock Ex-change. The depression in American railroad stocks consequent on the condition of the New York market has had a bad effect on speculative business all round. The improvement in the state of the Rand and the expected increase in the output during July have been powerless to improve the market, and gold and diamond shares have fallen away in price.

during July have been powerless to improve the market, and gold and diamond shares have fallen away in price. Other sections of the mining market have been rather more lively. West Australians have been brisk, on the continual issue of encouraging figures of output at various mines where the mills have been recently started, and also on the news that the time has arrived when the government will be en-abled to take up the water question thoroughly. Indians have been very strong on the increases in the production of the leading mines. New Zealands have been only moderately active. In the American section the chief interest has been centered in Alaska-Treadwells, the report of which mine for 1895-6 has been greatly admired. The extraordinarily low figures for cost per ton of ore treated, viz., \$1.08, are received with nothing short of astonishmet. The shareholders of the Jay Hawk have agreed on a reconstruction scheme. The silver mine in Montana has turned out to be too low a grade for working at a profit, and it has decided to give up this mine and acquire a gold property at the Hau-raki district in New Zealand. Owing to the diffi-culty of selling their machinery they are intending to move it to New Zealand. The directors of Jay Hawk belong to the group that operate some of the most successful New Zealand mines, so that the shareholders have quite a hopeful prospect for the future. shareholders have quite a hopeful prospect for the

Paris.

Aug. 9.

(From Our Special Correspondent.)

(From Our Special Correspondent.) The past week has been without special events, and there have been but few changes in the stock market. The copper speculation, which reached its height a few weeks ago, is still strong and the re-actions in the chief stocks have not been great; 1 of them are still high and show no signs of further decline.

zinc and lead stocks also continue strong and

The zinc and lead stocks also continue strong and nearly all of them show substantial gains over last year's prices. In this connection it is of interest to make a short comparison of prices. I find that copper is this week quoted at 12750 fr. per 100 kgms., for good bars, against 11850 fr. at the corresponding date last year. Silesian zinc is 4675 fr. per 100 kgms., against 4075 fr. a year ago. On the other hand, tin has fallen, to-day's quotation being 16625 fr. per 100 kgms, for Banka or Billiton ingots, against 17875 fr. last year; while lead has also fallen a little, standing at 2775 fr., against 2850 fr. It is true that the supply of both this and lead is large, but the same thing may be said of copper and zinc also. The consumption of copper has been extraordinary, but there has been no unusual demand for zinc, and the rise in that metal, has been contrary to all ex-pectations. pectations.

pectations. The iron and steel companies continue to show great activity, and their stocks are in sufficient de-mand to keep them at good prices. Nearly all of the French companies have contracts which will keep them busy for the rest of the year, and prices of all sorts of iron and steel are good. Much interest is telt in the stocks of the Russian iron works and those chiefly dealt in here—Briansk, Donetz and Huta-Bankowa—have all risen. There is room for a great development of the iron indus-try in that country.

try in that country. Huanchaca stock is higher, as better reports con-tinue to come from the great silver mine, and the

managers are evidently trying to remedy some past

managers are evidently trying to remedy some past errors. The weak point in the market is in the South African gold shares, which continue dull: and there is a manifestly an uncasy feeling among the holders, who do not understand why production does not and we are told that the labor difficulties are re-moved. There is a feeling that matters are not as they should be, and that stock manipulation has too much to do with the management of the mines, and this our investors do not like. Upon the whole, our prospects for trade are very food, and it looks very much as if we, with the rest factor of possible political disturbance just how, and that appears less threatening than it did a menth ago.

MISCELLANEOUS DIVIDENDS.

Weisbach Commercial Company, quarterly divi-end of 2% on the preferred stock, payable Septemdend of 2 ber 10th.

ASSESSMENTS.

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Name of Co.	Loc'n.	No.	Dine	q.	Sale		Amt.
Alpha Con	Nev	17	Sept.	7	Sept.	29	.10
Anita Gold	Cal	16	Aug.	25		15	.07
Argonaut	66	3	te the	10	65	12	.05
Haltic Gravel	64	2	Sept.	2	64	19	.00%
*Belcher Silver.		53	00	10		30	.25
Hest & Belcher.		60	Aug.	6		27	.25
*Central Eureka	Cal		ti .	15	Sept.	7	.01
*Confidence		1 41		10	Sehr.		.01
Silver		27	Sept.	3	1 64	24	.30
Con. Imperial			Aug.			22	.01
Eureka Con	Utah			8	6.0		
Hale & Norcross	Nev		July		64	5	.10
		109	Aug.	10		3	.15
Jamison Lucky Bill	. Cal		44			31	.05
Monte Diff.	Utah			17	Sept.	15	.02
Marguerite	Cal	3	July	28	Aug.	28	.10
Orient Gold	1 66			00	1		
Placer			Aug.	26	Sept.	5	.50
Orleana				24	-	21	.10
*Providence		4	Sept.	12	Oct.	12	.002
Rocky Peal		1					
Gold	. Cal		Aug.		Sept.	21	.02
Ruby, G. & S	. S. D	9	Sept.	1	44	19	.01
Sevier	Utah		45	9	Oct.	9	.05
*sierra Nevada							
Silver	. Nev	111	66	11		1	.25
Stone Creel	K I	1			1		
Copper Belt	. Mont		86	1			.005
West Cable	. Utah	6	Aug.	17	Sept.	17	.01
Ybarra Gold	. Mex	6		31	**	15	.15

* New assessment

DIVIDENDS.

NAME OF COMPANY		nt Divi- ends.	Paid since Jan. 1.	Total to date.
	Date.	Amount.	1896.	uate.
Ætna Con			\$20,000	860.000
Alaska-Mexican Alaska-Treadwell	Aug. 1	\$18,000	54,200	155,031
Alaska Treadwell	6.8 6.0	75,000	275,000	2,950,000
Anaconda			750,000	aterestore
Aurora Iron			50,000	700,000
Bangkole-Cora Bell			6,000	107,510
Big Six			2,500	2,500
Big Six Boston & Mont Bullion Beck & Ch.	Aug.20	450,000	1,050,000	4,475,000
Bullion Beck & Ch.	** 20	30,000	155,000	2,105,000
			1,500,000	45,850,000
*Cariboo			32,000	1 95,060
*Cariboo. *Centennial-Eureka	Aug.15	30,000	270 000	1,800,000
U. U. D			5,000	25,000
*Dalton & Lark	Aug.15	12,500	87,500	87,500
Daly Dominion Coal	Aug.15 Aug.15 Aug.22	37,500	37,500	2,887,50
Dominion Coal			600,000	
Elkton Con	Aug	10,000	30,000	75,000
Florence		*********	õ4,390	89,348
*Galena	Aug. 10	5,000	26,000	46,000
Gold Coin	··· ··	20,000	65,000	80,000
"Golden Fleece	** -	6,000	132,000	533,179
Gold & Globe Hill. I		*********	19,500	28.87
Hecla Con			30,000	2,130,00
Highland			25,000	3,159,91
*Homestake	Aug.25	31,250	251,000	5.962,50
*Hope			10,000	
Horn Silver			50,000 30,000	5,130,00
lowa	Aug.15	10,000	30,000	40,00
Iron Mountain	Aug.25	00 500	157 500	140,00
*Isabella *Jackson	Aug.20	22,500	157,500 7,500	180,00
Le Roi	Aug.15 Aug. 1	25,000 20,000	125.000	200.00
Mammoth	Aug. 1	90,000	20,000	1,090,00
Mercur.	Aug. 1	20,000	125.000	475,00
*Minnesota Iron			495,000	3,240,00
*Mont, Ore Pur. Co.			280,000	440,00
Moon-Anchor			18,000	18,00
Moose			6,000	186,00
*Napa Con			50,000	790,00
Moose *Napa Con *Ontario	Ang 31	15,000	135,000	13,310,00
*Osceola Con			125,000	2,072,50
Ottaqueachy			1,000	1,00
Portland.			120,000	743,00
Quincy	Aug. 17	1300,000	760,000	8,370,00
Silver King	** 7	37,5001	300,000	750,00
Osceola Con) Ottaqueachy Portland. Quincy *Silver King Slocan Star	Sept. 1	100,000	200,000	260,00
Sman nopes			a0,000	
"Smuggler-Union			100,000	100,00
"Tamarack			150,000	4,320,00
Union			23,500	
"Utah	Aug.10	2,000	17,006	149,50
Victor.			140,000	605,00
Victor M. & L			12,000	42,00
War Eagle			25,000	
Wasp	*******	*********	26,000	26,00
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* July dividend juid. : Extra dividend of #2 included.

Aug. 22, 1896.

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Aug. 22, 1896.

THE ENGINEERING AND MINING JOURNAL

LONDON. Ang. 7 DENVER. COLO." Last dividend. Quotations NAME OF COMPANY.‡ Val. Product. | Capital stock. Aug. 11. Aug. 12. | Aug. 13 Aug. 14. Aug. 15. B. A. Aug. 15. NAME OF COMPANY Country Par value. Aug 1 $\begin{array}{c|c} & \textbf{Amt} \\ \hline \textbf{ℓ e. d. } & \textbf{$s.d. } \\ 1 & 0 & 0 & 0 & 4. \\ 5 & 0 & n & 1 & 0 \\ 1 & 0 & 0 & c & . & 0 \\ 1 & 0 & 0 & c & . & 0 \\ 5 & 0 & 0 & 0 & 6 \\ 1 & 0 & 0 & 0 & 0 & 6 \\ 1 & 0 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & 0 & 1 & 0 \\ 2 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & 2 \\ 1 & 0 & 0 & 0 & 2 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 1 & 0 \\ \end{array}$ Buyers Sellers Amt. Date. B. | A. B. A. B 4. B. A. . + A. L'd Mines £ s. d. 1 11 3 5 0 0 14 6 2 6 5 6 5 6 5 6 5 6 6 3 1 9 8 9 6 3 1 0 N'th Americans: Alaska-Mexican... Alaska Treadwell. De Lamat.... 2200,000 1,900,000 3(0,0,00) 3(0,0,00) 2(0,0,00) 2(0,0,00) 2(0,0,00) 2(0,0,00) 2(1,0,00) 2(1,0,00) 2(1,0,00) 2(1,0,00) 2(1,0,00) s.d. 0 4.8 Feb., '896 1 0 June " 0 May, 1895 0 6 Nov., 1894 £ s.d., 1 13 9 5 5 0 15 6 1 3 6 1 3 6 1 3 6 5 0 2 3 8 1 1 3 6 6 5 0 2 3 8 1 1 3 6 7 7 8 9 1 3 .50 .09 .05% .03% .03% .03% .083% .017% .49 .0934 .0634 .0854 .0354 .0354 .99 .04 .45 .09 .06 .04 .03 .04 .03 .03 .03 .03 .03 .00 .08 .00 .00 .00 .00 .04 .48 .50 .52 .46 .09% .06% .09 .13% .00 47 .08% .08% .08% .08% .03% 1.10 .08% 45 .09% .06 05% .03% .93 .03% 98 .03% 98 .03% 98 .03% 98 .03% .03% .07 .47% 42 .08% \$5 .44 .08% .05% .05% .95% .03% 40 .03% 40 .03% 40 .13% .12 .47 .09 .06% .06% .0896 1.10 .04 .09% .55 . 69% .4396 2,200 5,000 15,700 12,900 17,500 Alaska ... Gold Anneonda... Banke's... Banke's... Banke's... Bang'sta... Banke's... Banke's... Banke's... Banke's... Banke's... Banke's... Banke's... Gar... Justice... Molite G... Big Johnny Hue Jay... Big Johnny Hue Jay... Dictator... Dictator... Dictator... Dictator... Dictator... Dictator... Dictator... Big Johnny Hue Jay... Big Johnny Hue Jay... Big Johnny Hue Jay... Dictator... Dictator... Dictator... Dictator... Dictator... Dictator... Gene Field, Gold Queen Gregory... Henrietta Hilionis... Henrietta Hilionis... Orlent.... Q'n Vict ria Reno... Hoyal Age Senator. 'entinel... Atamo Chomboraso Cono.C.& M. Gold Stone... Jack Fot... Portland... Colo. C.& M. Gold Stone... Jack Fot... Portland... Santa Fe... Union Gold Va.M.... Wh. of For. .07 .0 0894 .90 .0394 .90 .0356 .55 .09 .09 .1596 05 06 1396 .87 0374 00756 .40 .0696 .5156 14 .0636 03 .03% 91 .04 .04 .05 .10 .49% 15 Idaho. Gold& silver Silver Autornia Silver Monana Monana Colorado. Silver Colorado. Silver Colorado. Gold&silver Gold G rquahaia..... Icomb Valley .08% .92 .03% .005 .41 .06% .42% .10 .02 .41% 17,500 1,000 18,500 9,100 4,850 7,500 74,500 2,500 1,000 1,300 189ð 1892 1896 1892 Jan., ' ec. June, Dec., Idaho.... Jay Hawk.... .0. .55 .0758 .4634 ontana ew Guston.... almarejo lumas-Eureka. .06% .08 45% Apr., 1896 Oct., 1895 Dec., Apr., 1896 Sept., 1894 .00 Richmond Sierra Buttes. Springdale. S'th Americans: Colomb. Hydra'lic Frontino & Bolivia St. John del Rey. .51 .44 :45 .43 43 .46 40 48 .41 Colembia Gold. 75,000 1 0 0 1 0 140,000 1 0 0 0 6 562,0:0 1 0 0 xn July, Jan., $\begin{smallmatrix}&10&0\\1&1&3\\&17&6\end{smallmatrix}$.002 .002 .009 . 1296 .0.2 .005 .010% .0 8 .011 .03 .02% .0.6 .009 .01234 .00234 .01 .138 .00194 .00234 .00234 .00234 .00234 .00234 .000 .012 .0236 00236 .0336 .0136 .0336 .003 .002 .00256 .005 .008 .00236 012 .01 .011 1236 .00234 .08 1154 .009 .011 106 .0.3 .09 1034 .02 .00234 1045 .00 1045 .00 .005 .00 .01536 .0.656 .01 .00 ¾ .01 .02¾ .023 .023 .005 .005 .005 .01 .00256 .00636 .00236 .002 7,000 17,000 22,000 12,000 67,000 213,000 30,000 30,000 30,000 7 18 .5 690 08 .002% .011 .008 .002% .010% .003 .011 1896 Copiepo. Copiepo. Copiepo. Copiepo. Mason & Earry... Rio Tinto. 6,000,000 5 600,000 2 200,000 2 1,054,000 4 3,250,000 10 1,250,000 2 Montana. Ro. Africa Chile ... Portusal.. Soain..... " Sulpr & cop'r 0 0 0 0 0 0 0 0 1 20 20 20 20 20 120 120 May, 1896 June " May, " " " April, " 6 17 2 10 2 10 8 2 23 17 5 17 .0.)2% .0.)6 .0.)3007 .:05 005 005 .007 .002 .00234 .002 .002% 01.3% .0.3% .001% .0.2% .002 .00234 003% .0429 .003% .005 .002 .0023 154,000 .0.)436 Dec., 1894 3 6 June, 1896 2 8 9 3 10 0 480,000 384,000 875,000 2 11 3 15 6 8 0 800. .0 2% .003% .003% .008 .01254 .00854 .00854 062% .008 .01 .902% .0 2 .023 00936 .01 .002 .008 3,000 85,000 10,000 So. Africa. Lands &Ex. Transvaal Gold......
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 18,312,500 500 500 40.00 \$0.70 .80 .5 \$2.25 .03% 250 625 .40 11.76 .50 2.00 2.60 1.90 65 .08 1.00 1.75 **\$0.60** .20 .10 1.59 .13% 6.25 62.59 02% 40 7.00 8.00 .06 .30 1.60 .85 10 \$10 25 Ajax. Allian \$0.65 \$1.80 .11% .20 2.80 6.00 .57% 11.00 .35 16.50 1.85 .35 .0% .75 1.60 \$.0254 .25 2.90 6.25 .39 11.60 Alliance...... Annie Ann. Nat. Gas... Bogan ... Brick Con... Builton Beck & C. Centen'i Lureka. Dalton & Lark... Daly West. Eagle ... Four Aces... Galena Gev ser Herschel......... * Special R 500 52.50 25 25 125 100 . 5 . 63 1.75 . 15 . 65 6.75 70.00 . 083 . 50 8.00 8.50 08 25 1.75 1.00 123 20 1.55 \$1,250,00 $250 \\ 125 \\ 25 \\ 500$ $10.05 \\ 12.50$ 4,000,000 6.50 65.00 .03 10 50 5 27.00 10 20 10 10 17.00 1.95 2.55 1.90 .60 .074 .85 1.75 50 80 8.75 30.00 9.000.000 7 5) 8.25 .07 .223 1.65 .85 90 20 10 MEXICO. Week ending Aug. 6, 'i' T.oet Prices. 10 1 NAME OF COMPANY. State. No. of shares. Last dividend assess ment. Opening. | Closing. * Special Report of James A. Pollock. t All the companies are located in Utah \$0.59 10.00 10.00 10.00 3.50 7.75 3 00 Amistad y Concordia Hidalgo..... Guanajuato. 9,600 2,400 Hidalgo ... Zacatecas... Hidalgo ... Angustias ... Arevalo y Anexas... Asturiana y Anexas... Bartolome de Medina Carmen.... Castellana y FanRam Cerro Colorado. Cinco Senores y An... PHILADELPHIA PA." 2,500 2,000 1,100 2,448 15,000 2,700 2,000 2,000 2,000 1,000 1,100 1,000 1,000 1,200 2,000 2,000 1,200 2,000 2,000 1,200 2,000 Aug. 18. | Aug. 14. | Aug. 15. | Aug. 17. | Aug. 19. | Aug. 19. NAME OF COMPANY. L'ca- Par tion. Val'e H. L. H. L. Tepic. Chihuahua... Guanajuato... B. Luis Potosi.. Guanajuato... Sales H. | L. \$1.00 Combrains. tion. Cambria Iron. Factors.& Scheckeld, Cdfs I.T. Hunt& Br. Top. Lebigh Oraley. Lebigh Valley. Lebigh Valley. Hittle Schwyk. Penna. R. " Penna. Re....." Penna. Res...." "pref...." Welsbach Can Welsbach Com Pa. Chockell." "pref..." Welsbach Capt. " Welsbach Light." Wetsmore and. " Official" 15.00 Cinco Senores y An. Concepcion y Anexa El Oro. Guadalupe. Luz de Maravillas... Pabellon 2.00 60 1,290 50 50 50 50 50 50 50 50 50 50 4.88 Guanajuato.... Hidalgo..... Guadal Luz de Pabello 28 184 2,274 27.89 Zacatecas. Hidalgo... ...
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AUG. 22, 1895.

	DIVID	Shares.		AYING MINES.			Dividends			NON-DIVID	END-P			MINES.			
Name and Location of Company.	Capital Stock.		Par		Date and		Total Date and			Name and Location of Company.	Capital Stock.	Share	s. Par	Total	D	Date and	
company.		No.	Val	Levied.	Amount of 1		Paid.	Amount of Le				No.		Levied.	Amou	int of L	
Etna Cons. a	\$1,500,000	150,000 100,000 200,000	5	*			60,000	June. 1896 .1	04 10 10	1 Ada Cons., s. l Utah 2 Ajax, g Colo.	1,000,000		1				
Alaska-Mexican, g Alask Alaska-Treadwell, g Alask American Belle, g. s. c. Colo	1,000,000 5,000,000 2,000,000	200,000 200,000 400,000	25	*	· · · · · · · · · · · · · · · · · · ·		2,875,000	July., 1896 .5	25 12	3 Alamo, g Colo. 4 Alice, g. s. c Colo. 5 Alliance, g. s. l Utah	5,000,000	5,000.000	1	* 200,000			
Argentum Juniata, s.l.g Colo Aspen Mg. & S., s. l Colo	2,600,000 2,000,000	1,300,000	2				156,000	Oct 1895 .0	03	6 Allouez, c Mich. 7 Alpha Cons., g. s Nev.			25	1,440,937 247,000	June.	1894 5	
Atlantic, c Mich. Aurora, i Mich.	1,000,000 2,500,000	40,000	25	*****			700,000	Feb. 1891 1.0 April. 1896	50	9 American, c Idaho	5,000,000	108,000	100	3,568,960	June.	1896	
Bald Butte Mont. Bangkok-Cora Bell, s. I. Colo	250,000 600,000	250,000 600,000	1	*			487.500 107,510	Dec., 1895 .0 July., 1896 .0	03	10 Anaconda, g Colo. 11 Anchor, g. s. l Utah 12 Anchoria-Leland, g. Colo.	5,000,000 1,500,000	1,000,000 150,000	10	560,000	*****		
Bate Hunter, g. s Colo. Belcher, s. g Nev Belden, F. E., m N. H.	1,000,000 10,400,000	104,000	100	* \$8,296,420	April. 1896	.25	15,897,200	April. 1876 1.0	003/4	12 Anchoria-Leland, g. Colo. 13 Aola, g. Colo. 14 Argonaut Cons., g. s. Colo.	600,000 1,000,000	1,000,000	1	*			
telle Isle Nev	500,000 10,000,000	100,000	100			.10	300,000	Dec. 1879 .:	25	15 Atlantic Cable Cons Colo.	1,500,000	1,000,000 1,500,000	1	*	*****		
Big Six, g. s Colo Bi-Metallic, g. s Mont.	500,000 5,000,000	500,000 200,000	25		Tular 1909		1,630,000	June. 1893 .1	10	16 Bahama, g S. D. 17 Bankers, g Colo.		1,250,000	1	*	Sept		
odie Cons., g. s Cal Soston & M. Cons., g. s. c Mont. Brotherton, i Mich.	10,000,000 8,750,000 2,000,000	100,000 150,000 80,000	25) July 1898		4,475,000	Aug., 1896 3.0 Mar., 1893	00	18 Ben Hur, g Colo. 19 Blue Bell, g Colo. 20 Blue Jay Cons., s. l. Utah	500,000	500,000	1		July.	**** **	
Sunker Hill & S., s. l Idaho Salumet & Hecla, c Mich.	8,000,000 2,500,000	800,000 100,000	10				150,000		06 ::	21 Bob Lee, g Colo. 22 Bullion, s. g Nev.	1,200,000	1,200,000	1	3,020,000			
enten'l-Eureka, g.s.l.c Utah. Sentral. c	1,500,000 500,000	\$0,000 20,000	50	30,000	Mar. 1889 Oct. 1861	1.00	1,770,000 1,970,000	July., 1896 1.0 Feb., 1891 1.0	00	 Burlington, g. s Cal Buskhorn, g Colo. 	10,000,000	100,000 900,000	100	3,000	May	1896	
S. C	1,000,000 10,000,000	10,000 200,000	50				1,650,000	Dec., 1893 2. Dec., 1884	50	25 Butte Queen, g Cal 26 Calumet, g Colo. 27 Central Lead, l Mo	1.000,000	1,400,000	1		Feb	1893	
lay County, g. s. c Colo Colo Colo Cour d'Alene, s. l Idaho	60,000 500,000	60,000 500,000	1	:			25,000	Mar. 1896 .0	01 11 1	28 Central North Star, g. Cal	1,000,000	100,000	10	10,000	July.	1893	
cour d'Alene, s. l Idaho confidence, g. s Nev	2,496,000	500,000 24,960	100	1,629,480	5 Dec. 1895	.30	277,680	April. 1889 1.0	00	29 Challenge, s, g Nev. 30 Chollar, g. s Nev.	11,200,000	112,000	100	295 000 2,021,600	July	1896	
Jonfidence, g. s Nev Cons. Cal. & Va., g. s Nev Jons. New York, g. s Nev Jopts, g. s	21,600,000 10,000,000	216,000 100,000	100	168,000) April. 1896) Jan 1896	.30	10,000	Feb., 1893 .	25 10 01	 Cleveland Cliffs, I Mich Columbine, g, Colo. Cons. Imperial, g. s Nev. 	5,000,000 1,000,000 5,000,000	1,000,000	1				
ortez, Ltd., s. g Nev alton & Lark, s. l Utah.	10,000,000 1,500,000 2,500,000	100,000 800,000) 5		· · · · · · · · · · · · · · · · ·		735,000	Feb., 1893 .	15	34 Copper Mountain, g., Colo.	1,000,000	1,000,000	1	# 			
aly, s. l Utah. Deadwood-Terra, g S. D.	8,000,000 5,000,000		20				2,850,000	May . 1893 .:	25 05	 Creede & C. C., g Colo. CrippleCreekCons., g. Colo. Dante, g Colo. 	2,000,000 1,250,000	2,000,000 1,250,000	1	** • • • • • • •			
e Lamar, g. s Idaho erbec Blue Gravel, g. Cal	2,000,000	400,000	5	110.00	June. 1898		280,000	Aug., 1891 .	25 10	 Bante, g	. 5,000,000 300,000		5				
exter, g. s Nev Ikton, g Colo	1,000,000 500,000	100,000) 1		June, 1892		65,000	June. 1896 .	33	40 Dickens-Custer, g. s., Colo. 41 Enterprise, g Colo. 42 Eureka Con. Drift,g. Colo.	2100.000	800,000	5	**** ****			
Ikhorn, s Mont. nterprise, g. s Colo	1,000,000 2,500,000		5		· · · · · · · · · · · · · · · · · · ·		825,000	May . 1893 .:	25 11	43 Exchequer, g. s Nev.	10.000,000	100,000	100	90,000 715,000		1895	
vening Star, s. l Colo	1,000,000 500,000	50,000	10	*	July., 1896		1,437,500	Dec., 1889 .	25	44 Favorife, g Colo. 45 Fortunatus, g. s Colo.	. 100,000	100,000	1	*			
lorence, s	2,500,000 1,000,000 1,000,000	500,000 40,000 200,000) 25				1,240,000	Jan 1894 2.1	00	46 Found Treasure, g. s. Nev. 47 Franklin Gold, g Colo. 48 Free Coinage, g Colo.	. 1,000,000	1,000,000	1	35,110	Jan		
olden Fleece, g. s Colo old & Globe, g Colo	600,000 750,000	600,000 750,000) 1	. *			527,179	July., 1896		49 Galena, 1. s Idah 50 Garden City, g S. D.	500,000	500,000	1	2 808		1801	
old Rock, g. s. c Colo ould & Curry, g. s Nev	500,000 10,800,000	500,000) 1	8	0 April. 1896		28,750	Dec. 1891 .	01	51 Garfield-Grouse, g Colo. 52 Gem, g Cal.	. 1,200,000	1,200,000	1	*			
ranite Mountain, g. s. Mont.		400,000 200,000) 25	*			12,120,000 83,400	Nov., 1890 .	20 10	53 Gold Belt, g. s Utah 54 Golden Age, g Colo.	. 500,000	500,000	1	3,012 #	July.	1896	
ranite, s. l	5,000,000 11,200,000	50,000 112,000	100	5,742,00	Jan 1896	.15	1,822,000	Aug., 1888	10 50	55 Golden Dale, g Colo. 56 Golden Eagle, g Colo.	. 2,000,000	1,000,000	1	市			
arquahala, g Ariz ecla Cons., g. s. c. l Mont. elena & Frisco, s. l Idaho	1,500,000 1,500,000	800,000 80,000	50	*			2,130,000	Feb. 1896 .	50	57 Golden Fleece Grav. g Cal. 58 Gold Flat, g Cal.	1,000,000	100,000		13,000	Aug.	1893	
olmes, s Nev	10,000,000	100,000) 100	845.00	0 Mar., 1890 July., 1878	.25	75,000	April. 1892 .:	25	59 Gold King, g Colo. 60 Gold Rock, g Colo.	. 1,000,000	1,000,000 1,000,000 1,000,000	1				
omestake, g	12,500,000 1,000,000 10,000,000	125,000 100,000 400,000) 10				592,252	Jan 1895 .	10	 61 Gold Standard, g Colo. 62 Hartshorn, g. s S. D. 63 Head Cent. & Tr., g.s. Ariz 	1.250,000	250,000	5	8,750	Sept. Mar	1891	
on Mountain, s. I Mont.	1,000,000	1,000,000) 1				20,000	June. 1896 .	01 11	64 Hidden Treas., g. s., Cal.,	20,000	20.000	1	1.000	Nov.	1898	
on Silver, s. l Colo abella, g Colo ack Rabbit, g Cal	10,000,000	500,000 2,250,000	20	*			2,500,000 157,500	April. 1889 July., 1896	20 01	65 Himalaya, s. l Utah 66 Idaho Co., Ltd.,g Idah 67 Idlewild, g Cal.	0 160,000 1,000,000	1,000	100	*		****	
ay Hawk, g Mont.	1,425,000	285,000	5) April, 1894		83,375	Dec., 1892 .	10 12	68 Inez, s. l Idah 69 Jack Pot, g Colo.	1,000,000 1,250,000	1,000,000 1,250,000	1				
earsarge, c Mich. ennedy, g Cal.	10.000.000	100,000) 100		0 Oct 1887		1,796,000		48	70 Jackson, 1 Mich 71 Justice, g. s. c Colo.	. 500,000	12,000 500,000	1	-19			
eadville Cons., s. 1 Colo ittle Chief, s. l. i-o Colo aid of Erin, g. s. c. l Colo	4,000,000 10,000,000 8,000,000	200,000	50	*			820,000	Dec., 1890 .	03 05 02	72 Keystone, g Colo. 73 Kingman Silver, g. s. Ariz.	. 1,500,000	1,500,000 100,000 100,000	1 10	5,000	Sept.	1891	
ammoth, g. s. c Utah. ayflower Gravel, g Cal	10,000,000 1,200,000	400,000) 25	*	· · · · · · · · · · · · · · · · · · ·		1,070,000	Aug., 1896 .	05	74 Lacrosse, g Colo. 75 Lottie Gibson, g Colo. 76 Matoa, g Colo.	1,000,000	1,000,000	1				
ay-Mazeppa Con., I. s. Colo., ercur. g. Utah	1,000,000 5,000,000	1,000,000) 1	*			170,000 475,000	Oct 1891	033/4	77 Mayflower, g Colo.	.1,000,000	1.000.000	1				
innesota Iron, i Minn. ollie Gibson, s Colo	16,500,000 5,000,000	165,000	1 5	20,00	Jan 1891		4,080,000		05	78 Mexican, g. s Nev. 79 Michigan Gold., g. s Mich 80 Milwaukee, s. l Idah	500,000	500,000	25	40,000	Mar	1892	
onitor, g S. D ontana, Ltd., g. s Mont.	2,500,000 8,800,000	250,000 660,000) 5	*			2,890 637	Oct 1895	03	81 Modoc Chief, g. s. 1. Idah 82 Monarch, g Colo. 83 Mutual, g Colo.	1,000,000	200,000 1,000,000	5	4.875	Jan	1892	
oose, g Colo orning Star Cons., s. l. Colo	600,000 1,000,000	100,000	10	*			1,025,000	Dec., 1891 .	01 25	83 Mutual, g Colo. 84 Neath, g Colo 85 New Gold Hill N. C.	. 500,000	500,000 100,000	10				
t. Diablo, s	5,000,000 1,250,000 1,000,000		5	*	0 July., 1896		21,936	June! 1891 .	03	86 New Viola, S. I Idaho	750,000	150,000	5	* 428,652			
apa, a	700,000	100,000	7	*			790,000	July. 1896 .	20 25	87 Occidental Cons., g.s. Nev. 88 Original Keystone, s. Nev. 89 Oro Cache, g. s S. D. 90 Orphal Bell, g Colo.	10,000,000	100,000	100	250,000	Mar.	1892	
ew Guston, g. s. c Colo ew Hoover Hill, g N. C orth Banner, g. s Cal	800,000 1,000,000	120,000	2.50	19,79	June. 1896		22,500 20,000	Dec., 1885 .: July., 1891	05	91 Overman Silver, g. s. Nev.	1,152,000	115,200	100			1	
orth Belle Isle, s Nev orth Com'wealth, s Nev	10,000,000 10,000,000	100,000	100	85,000	July., 1896 April, 1890	.10 .25	25,000	June. 1891 .:	25	93 Peer, s Ariz.	. 10,000,000	2,000,000	100	215,000	July.	1894	
orth Star, gCal ugget, gColo ntario, s. 1Utah.	2,000,000 1,000,000		1	18	June, 1885		10,000	Jan 1895	001/2	94 Peerless, s Nev. 95 Pine Hill, g	. 1,000,000	100,000	10		July	1896	
sceola, c	15,000,000 1,250,000 2,000,000	150,000 50,000 20,000	25		· · · · · · · · · · · · · · · · · · ·		2,072,500	July., 1896 July., 1896 1.0 July., 1893 1.0	00	66 Pioche Con., g. s. l Nev. 97 Potosi, g. s Nev. 92 Princore g.	.11,200,000	112,000	100	* 2,016,000	May	1896	
tro, s	2,300,000	230,000 10,000	10				1,622,215	June. 1894 .0	05	93 Princess, g Colo. 99 Puritan, g. s Colo. 00 Quincy, c Colo.	1.500,000	150,000	10			1	
armanist a Colo	1,200,000 8,000,000	1.200,000 3.000,000					80,000 743,000	Jan. 1893 .0 June, 1896 .0	01 1	01 Red Mountain, s Colo. 02 Ruby & Dun., g. s. I. Nev.	. 300,000	60,000	5	22,500 *	Mar	1891	
ortland, g Colo uicksilver, pref., q Cal " com., q Cal	4,800,000 5,700,000	57,000	100				1,823,911 643,867	June. 1891 1.5 July., 1882	25 1	03 St. Mary, c Mich	1,000,000	40,000	05	4,000 330,000	July.	1895	
ed National, s Colo.	1,250,000 500,000	50,000 500,000	1				8,370,000 45,000	Aug. 1896 6.0 Dec. 1890	01 11	04 Seg.Belcher & M., g.s. Nev. 05 Silver Age, g. s. 1 Colo. 06 Silver Hill, s Nev.	. 10,800,000	200,000	10	1 992 600	July.	1804	
obinson Cons., s. I Colo	10,000,000 1,000,000 11,900,000		1				585,000 27,000	Mar. 1886 .0 June, 1893 .0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	07 Silver Queen, c Ariz. 08 Silver State, g Colo.	. 5,000,000	200,000 700,000	25	*		****	
vage, g. s	11,200,000 2,500,000 500,000	112,000 250,000 500,000	10				2,524,000		$\begin{array}{c c} 00 & 1 \\ 25 & 1 \end{array}$	09 Siskiyou Con., s Cal. 10 Specimen, g Colo.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1,200,000	1			4 8 9 8 8	
lver Cord Com., g. s. l. Colo lver King, s Ariz	5,000,000 10,000,000	500,000 500,000 100,000	10	* 222.854	June. 1896		270,000	April. 1889 .	25 1 10 1 25 1	11 Temonj, g Colo. 12 Tornado Con., g. s Nev. 13 Union Con. g. s Nev.	1,000,000		1 100	a Fat (000	Eab	1896	
liver King, g. s. l Utah. liver Mg. of L. V., s N. M. mall Hopes, s Colo	3,000,000 500,000	150,000	20		June. 1890		712,500	July., 1896 .!	25 1	13 Union Con., g. s Nev. 14 Utah Cons., s Nev. 15 Victory, g. s S. D.	. 10,000,000	100.000	100	410,722	May.	1895 .0	
muggier Union, Colo	5,000,000	250,000	20				3,275,000			15 Victory, g. s S. D. 16 Virginia M. Cons., g. Colo. 17 Waterloo, g	1,000,000 2,000,000	1,000,000		90.000	Ang	1898	
tandard Cons., g. s Cal	10,000,000 600,000	100,000 60,000	100	*			3,771,160 39,000	June. 1895 Sept., 1892	10 1	18 West Granite Mt., s., Mont	500,000	100.000	5			X 8 6 X 4 8	
amarack, c	1,250,000 150,000	50,000 150,000	25	****			4,320,000 9,000	June. 1896 3.0 Nov., 1891 .0	00 1 1 1 1 1	19 Whale, g. s. l Colo. 20 Work, g Colo. 21 World, g Colo.	1.250,000 1,500,000	1,250,000 1,500,000	1				
om Boy, g Colo ombstone, g. s. i Ariz	2,000,000 12,500,000	200,000 500,000	25				410,000 1,250,000	Mar., 1896 .: April, 1882 .:	20 . 10 .	20 Work, g Colo, 21 World, g Colo,						**** **	
nited Verde, c Ariz.	500,000 3,000,000	500,000	1 10	*			15,000 562,500	July., 1893 Dec., 1893									
nion, g Colo	1,250,000 500,000	500,000	1				340,000	July., 1895 .0	01 .					**** ****	******		
nion Leasing Colo	:,000,000	200,000	5	*				July., 1896 .	10 .								

G., Gold. S., Silver. L., Lead. C., Copper. B., Boraz. * Non-assessable. + The Deadwood previously paid \$275,000 in eleven dividends and the Terra \$75,000. * Previous to the consolidation in August, 1884, the California had paid \$31,330,000 in dividends and the Cons. Virginia \$42,300,000. Norz.—Corrections to this table are made monthly. Correspondents are requested to forward changes or additions so as to reach us before the end of each month.

Aug. 29, 1896. ____

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THE ENGINEERING AND MINING JOURNAL

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ir Compressors and Rock Drills. nilock, M. C., Mfg. Co., Leyner, J. Geo. nrieigh Rock DrillCo. McKiernan Drill Co.	Contractors. (See Machinery.) Conveying Belts.	Jeint Fittings. Tight Joint Co.	Publications. American Fertilizer. Financial Times Indian Engineering.
ayton Air Compres- N L.Diamond Drill Co	Robins Conveying Belt Co. Copper Dealers and Preducers.	Lond Linings for Chlerination Tubs. Raymond Lead Co.	Australian Mg. Stand. McNeill's Code
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erlin iron Bridge Co. Shiffler Bridge Co.	Cyauide.	Card Electric Co New York Diamond	Atchison, Topeka & Santa Fe Ry.
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ssayers' and Chemists' Supplier.	Diamonds. Bishop, Victor. & Co Lexow. Theodor	Crook W. A. & Brosco Denver Mg. Mach. Co. Denver Eng. Win. Co. Dodge Mg. Mach. Co. Field F. R. Ach. Co. Field F. R. Co. Field F. R. Co. Franker & K. Co. Field F. R. Co. Field F. R. Co. Franker & Co. Field F. R. Co. Franker & Co. Field F. Co. Franker & Co. Franker & Co. Field F. Co. Franker & Co. Field F. Co. Franker & Co. Field F. Co. Franker & Co. Franker & Co. Field F. Co. Franker & Franker & Co. Franker & Co.	Denver & Rio Grande R. R.
insworth, Wm. here & Adamson. here & Massion. Here & M	New York Diamond Drill Co.	Denver Eng. Wks. Co. Dodge Mg. Mach. Co. Field, F. R. Basedon Iron Works.	Florence & Cripple Creek R. R. Illinois Central R. R.
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anver Fire Clay Co. Solvay Process Co.	Lexow, Theodor	Hammond, Mig. Co. Bendrie & Bolthoff Stearns-Roger Mfg.Co.	U. P., D. & G. R. R.
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onbright. W. P.& Co. Freitung, E. N. Proudfit. J. W., & Co.		American Matel Co. I Tamtache Dec.	Aitcheson, R., Perf. Metal Co Denver Eng. Wks. Co. Fraser & Chalmers
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landy & Harman. Smith. C. H. & Co.	Cummer, F. D.& Son Co. Dump Cars. Denver Eng. Works Co. Hendrie & Bolthoff Fraser & Chalmers Mfg. Co.	Besiy, Chas. H., & Cu Bridgenort ConnerCo	Harrington & King Perforating Co. Link Belt Machinery Co. Ludlow Saylor Wire Co. (See Machinery
Ieron Bros. State Trust Co.	Arizona School of Mines.		Brcond Hand Machinery. Hine & Robertson.
inney, M. Weyand Bros. einheimer, N. White, Samuel.	Columbia University. Columbian University.	Cherokee - L a ny on Speiter Co. Cookson & Co. Elliott's MetalCo.,Ltd. Errers & Co. Elliott's MetalCo.,Ltd. Errers & Co. Errers & Co. E	Hine & Robertson. Robinson & Orr.
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au, J. H., & Co. Standard Fuse Co. Standard Fuse Co.	Elevators, Conveyors and Hoisting	Denver Eng. Wks. Co. Elliott's MetalCo.Ltd. Russell Process Co.	Steel Rails, Castings, Rolls, Dri
lacheth. James. & Oo. ; Slewers, Pressure.	Machines. Brown Holst. & Conv. Mach. Co. Caldwell, H. W., & Co. Link Belt Mach. Co.	& silver Extr'on Co. Waiburn-Swenson	Rethiehem Iron Co. Rohinson & Orr
Connersville Blower Co.	Mach. Co. Caldwell, H. W., & Co. California Wire Wks. Jeffrey Mfg. Co. Link Belt Mach. Co. Nelsonville Foundry	Foster, Blackett & Co. Wilson.	Chester Steel Cast Co. Taylor Iron Astroit
Boilers.	Cooner, Hewitt & Co. 1 & Machine Co.	Mine Cars Denver Eng. Wks. Co.	Chrome Steel Warks. Jessop Wm. & Sol Orescent Steel Co. Ltd.
Denver Eng Wiks. Co. Risdon Iron Works. Fraser & Chalmers. Stilwell - Bierce &	Crook, W. A., & Bros. Co. Vulcan Iron Works, Denver Eng. Wks. Co. Walkins, L. E. Electrical Engineer-	Hendrie & Bolthoff Mfg. Co. Hunt, C. W., Co. Nelsonville Foundry & Machine Co. Whiting Koundry Regiment Co.	Moore, S. L., & Sons Co. (See Metal Dealers)
Philadelphia Lng. Smith-Vaile Co. Wks., Ltd. Standard Boiler Co.	ing Co.	Nelsonville Foundry & Machine Co.	Tanks.
Pollocs, Wm. B.& Co. (See Machinery.)	(See Wire Rope Tram way and Machinery.)	Whiting Foundry Equipment Co. (See Machinery.)	Tanks. Denger Eng, Wks. Co. Walker Co. Gates Iron Works. Williams Mfg. Co.
Brattice Cloth. Besley. Chas. H ,& Co.	Emery Wheels Besly, Chas H. & Co. New York Belting & Packing Co., Ltd.	Mine, Mill and Smeiters' Supplies,	Telegraph Wires and Cables Okonite Co., Ltd.,
Brick Machinery.	New York Belting & Packing Co., Ltd. Engineers. Chemists. Metaliu: gists See Directory Pages 4, 5 and 6.	Mine, Mill and Smelters' Supplies, Denver Eng. Wks. Co. Dodge Mining Machinery Co.	
Freese, E. M., & Co.	See Directory Pages 4, 5 and 6.	Gates Iron works. Parkh'st & Wilkinson. Roessler & Hasslacher Chemical Co. Stieren, William E	Teols Besley, Chas. H., & Co. Pratt & Whitney Co.
Bridges. Berlin Iron Bridge Ot. Shiffler Bridge Co.	Engineers ² Instruments and Supplies. Aloe, A. S. Co. Gurley, W. & L. E. Buff & Berger. Heer, Peter, Bullock & Crenshaw Keuffel & Esser Co.	Roessier & Hasslacher Chemical Co. Stieren, William E	Tubes Policek.Wm. B. # C.
(See Machinery.)	Builock & Crenshaw Keuffel & Esser Co. Dietzgen, F., & Co. Fauth & Co. Mahn & Co.	(See machinery.)	Tubes Besley Chas. H., & Co. Pollock, Wm. B. & Co. Williams Bros
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Lexow, Theodor.	Hercules Gas Engine Union from works	Nickel	Valves Eddy Valve Co. Jenkins Bros.
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puncer & Crenshaw, [Chemical Co	WORKS, LLG. (See Machinery.	1ruax Mfg. Co.	Ventliators Bullock, M. C. Mfg.Co. Tod, Wm., & Co. Fraser & Chalmers.
Baner & Amend Solvay Process Or	Excavators Bucyrus Steam Shovel & Dredge Co. Marion Steam Shovel Co.	Ore Reasters Brown, Horace F.	
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Sarwind-White Cot I Maryland Coal Co. E. Co. Casiner & Curran Consolidation Coal (Co. Stickney, Conynghame	Brown, Horace F. Moore, S.L., & Son Co.	ing Co. State Ore Sampling co	Well Drilling Machinery. Sullivan Mach'y Co. Williams Bros.
Bar. Co. Dastaer & Curran "essolidationCon'to. Davis Coal & CokeCo. Davis Coal & CokeCo.	Denver Fire Ciay Co. (See Machinery.)	Packing and Pipe Coverings. Asbestos Parafine Co Brandt, Randoipn. Jenkins Bros.	Start Start Start Starts
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wand Drill Co.	Gearing Bealey, Chas, H.,& Co. Denver Eng. Wks. Co.	Phespher-Brenze. Phespher-Brenze Smelting Co.	Wire Cleth. Aitcheson, R., Perf. Matal Co. Harrington & King Perforating Co.
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Tarupp, P. Link Beit Machinery Co. McCulty, R. Scoulie, H. H., & Co. Redman Foundry & Mach. Co. Waihura-Swenson Co., See Machinery)	Jenkins Bros. Penberthy injector Co. Insulated Wires and Cables. Okonite Co., Ltd. Insurance Companies. Hartford Steam Soller inspect'n and ins.Co. Mutual Life Insurance Co.	Drill Co. Repauno Chem. Co. Pressure Blowers. Connersville Blower Co.	Colorado Iron Works. Bopeways Bynd., Lt Denver Eng. Wks. Co Vulcan Iron Works.

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POSITIONS FREE ADVERTISING

VACANT. Metailurgists Chemists, Mine or Furnace Foremen, or other assistance of this character, will be inserted in this column WITHOUT CHARGE, whether sub-

in this column withing a constraining what ecribers or not. The labor and expense involved in ascertaining what positions are open, in gratuitously advertising them and in attending to the correspondence of applicants, are incurred in the interest and for the *exclusive* benefit of *subscribers* to the ENGINEERING AND MINING of subsci

13" Applicants should inclose the necessary postage to insure the forwarding of their letters.

1468 WANTED--A MAN WHO IS A THOR-oughly competent Mechanical Draftman where chances for advancement are good: steady po-tion. Address, stating references, experience and si-ary expected, XY, ENGINEERING AND MINING JOUR-NAL.

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1473 WANTED — A GOOD BLACKSMITH for mining camp in Central America. Must understand mule shoeing. Contract three years. State terms and references. Address BLACKSMITH, ENGI-NERRING AND MINING JOURNAL.

1475 WANTED - MINING ACCOUNT-ant in California, are about 30, unmarried and scotch preferred. Undeniable references as to per-sonal character and practical experience. Able to ar-range and control the accounts, returns and general commercial business of a large concern. Good salary to a first class man. Address CALIFORNIA, EN-GINEERING AND MINING JOURNAL. ACCOUNT-

1476 WANTED-A FIRST-CLASS AS-1410 sayer and ore sampler, also as assistant manager and engineer in the operating of a large posit of manganese of the kind known as "wad" "bog." Address with full narticulars, references. C PRINCIPAL, ENGINEERING AND MINING JOURNAL. stant etc.

1477 WANTED.-A PRACTICAL MINING 1411 engineer and metallurgist to take charge of a gold mine and uill in one of the Northern States. Send references and name salary wanted. Address M. & R. Co., ENGINEERING AND MINING JOURNAL.

1478 WANTED -- A FIRST-CLASS ASSAYER 1418 for custom sampling works in the Northwest; experience and credentials of the best class indispensa-ble; acquaintance with the business of custom sampling would be an advantage. Reply, stating reco d, refer ences and salary, to NORTHWEST, ENGINEERING AND MINING JOURNAL.

1479 WANTED-ASSAYER AND CHEMIST to take charge of laboratory connected with copper-smelting works in the East. Undeniable refer-ences as to ability must be given. Address, stating ex-perience and salary wanted, COPPER, ENGINEERING AND MINING JOURNAL.

1480 WANTED - A SUPERINTENDENT particulars, etc., MICA, ENGINEERING AND MINING JOURNAL.

1481 WANTED—A COMPETENT MIN-ing manager, by an American company, to develop a gold mine near Rat Portage, Ontario, Can, and erect a stamp mill if everything proves satisfac-tory; must assay and have knowledge of chemistry; age about 4" years; reference to persons in New York, Pbiladelphia or Cleveland; state salary. Address C. P. E., ENGINKERING AND MINING JOURNAL.

1482 WANTED-TWO TECHNICALLY 1+OZ educated young men for electric furnace work reiding in or near New York City. Work is hard and exacting, but chances good for right men Reply fully. Address ELECTRON, ENGINEERING AND MINING JOURNAL.

1483 WANTED-A SUPERINTENDENT to erect and manage a dynamite factory. Must have had successful practical experience in this in . Address DYNAMITE, ENGINEERING AND MIN-ING JOURNAL

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A GRADUATE MINING ENGINEER NOW A GRADUATE MINING ENGINEER NOW pary desires change. Has been continuously engaged for past 20 years with the most successful mines in the West in every capacity. Best reference. Address WEST, ENGINEERING AND MININC JOURNAL. No. 17,462, Sept 26.

WANTED -- POSITION AS RESIDENT manager or superintendent; 15 years' practica experience; now with the largest company in Northern Mexico as mine superintendent; Spanish American country preferred; highest recommendations. Addrew AMERICANO, ENGINEERING AND MINING JOURNAL. No. 17,432, Jug. 29. RESIDENT

A CIVIL ENGINEER WANTS TO REPRE-A sent manufacturers of mining and other marhin-ery and supplies in the south and west part of the United States. Address C. E., ENGINEERING AND MINING JOURNAL. 17,466, Aug. 29.

CHEMIST AND ASSAYER, SIX YEARS in responsible positions. now in charge of a Lake Superior laboratory, desires position in Southwest, Refers to present employers. Address "V," Box 399 Ironwood, Mich.

POSITION WANTED-BY YOUNG GRAD-uate engineer. Has had one year's experience in active mining, mostly in Colorado. Can assay, sur-vey, keep books, etc. Heat of references. Address J. F., ENGINEERING AND MINING JOURNAL. No. 17,473, Sect. 5.

WANTED-POSITION BY METALLUR W gical chemist, four years' experience in silver lead and copper smelters, Mexico or West preferred Address C., Box A, Globe, Ariz. No. 17.174, Aug. 29.

WANTED-POSITION BY MINING EN-gineer and metallurgist. Several years' exne-rience in gold, silver and copper mining. Can do his own assaying and surveying. Address E B., Box A. Globe, Ariz. No. 17,475, Aug. 29.

PRACTICAL CHEMIST AND METALLUR-gist, familiar with the cyanide leaching process, wants a position: heat reference. Address H. P. C., PREINFERING AND MINING JOURVAL. No. 17,478, Aug. 29.

WANTED--POSITION. LONG AND varied experience 'n opening and working mines of coal. gold, silver, copper, lead and zinc orea; in concentration, emelting and milling; in planning and eracting works; in examination of mining lands, Address H. C., ENGINEERING AND MINING JOURNAL. No. 17489, Oct. 10.

WANTED-SITUATION AS CHEMIST. AS-W PATED STUATION AS CHEMIST. AS-payer or assistant, by a young engineer of thorough experience and education; neat, accurate, reliable and not afruid of work; correspondence ao-licited. Address ACTIVE, ENGINEERING AND MINING JOURNAL.

YOUNG CHEMIST AND ASSAYER DE-sires polition. Can draught, survey and handle men. Not afraid of hard work. Best of references, Address VOLENS, ENGINEERING AND MINING JOUR-NAL. No. 17,494. September 8.

NAL. **WINING ENGINEER AND METALLUR-**gist, graduate of Lehigh University, '95. desires a position with reliable mining company. Address LEHIGH, ENGINEERING AND MINING JOURNAL. NO '7,488, Aug. 29

WANTED-POSITION BY ASSAYER AND W Millman, experienced in concentration, amalga-mation and cyanide. Address T., ENGINEFRING AND MINING JOURNAL. No. 17,496, Sept. 1.

INE BLACKSMITH-A FIRST-RATE ME-M chanic. able to do well everything, from setting diamonds in a drill to the heaviest forging. An excellent, industrious, sober man. Desires a permanent position, where he will get high wages-which he will

arn-and have good educational advantages for his children. He has the very best references, Address BLACKSMITH, ENGINEERING AND MINING JOURNAL.

Contracts Open.

TREASURY DEPARTMENT. OFFICE SUPER-vising Architect, Washington, D. C., August 8th, 1896.-Sealed proposals will be received at this office until 2 o'clock p. m., on the 8th day of September, 1896, and onened immediately thereafter, for all the labor and ma-terials required for the erection and commletion (except heating apparatus) of the U. S. Post Office Bui'din - at Youngstown, O., in accordance with the drawings and specification. copies of which may be had at this office or the office of the Superintendent at Younge-town, O. Each bid must be accompanied by a certi-fied check for a sum not less than 25 of the amount of the oroposal. The right is reserved to reject any and all bids and to waive any defect or in-formality in any bid if it be deemed in the interest of the Government to do so. All proposals meeived atter the time slated will be returned to the bidders. Pro-posals must be enclosed in envelopes, sealed and mark-d, "Proposal for Erection and Commistion (except heating apparatus) of the U. S. Post Office building at Youngstown, O. "and addressed to W.M. ARTIN AIKEN. Supervising Architect. Orig. ELECTRIC LIGHT PLANT.-Sealed proposals will be received by the Board of Water and Light Commissioners of the villare of Mehawk. N. Y., up to 18 o'clock, noon, of September 10, 1896, for the furnish-ing and erecting in place: One 100-H. P. compound engine, tandrom style; one 100-H. P. return tubular borizontal bolier; one jack shaft and stand and coupling clutch: pulleys, as per place: one 100-H. P. compound engine, tandrom style; one 100-H. P. return tubular borizontal bolier; one jack shaft and stand and coupling clutch: pulleys, as per place: one 50-ser licht dynamo: one 60-kw, w. aliernator, complete. Switchboard and appli ances. brits, pipino, transformers, meters, etc., etc., ecomplete string, lamps and all appurtenances to per-fect a first-clars job, according to plans and specifica-tions, which may be seen or 'ad by applying to C. O. MAILLOUX, 150 Nasseeu street. N. Y. Electrical Engi tone, w TREASURY DEPARTMENT, OFFICE SUPER.

DREDGING.-U. S. Engineer's Office. Army Building, New York.-Sealed proposals for dredging 413,000 cu. yds., more or less, material from Harlem River and Spuyien Duvvil Creek, on line Harlem River improvement, a: d for furnishing materials and work-manship for construction of about 200 linear feet orthou work reveatment for protection of we t side of cut through meadow south of Ferdham Bridge, will be received here until 12 m., Styptember 19th. 1586. In-forma ion furnished on application. G. L. GILLE SPIE, Colonel Engineers.

DREDGING PLANT.-U. S. Engineer's Office, Morgan Buildine, Buffalo, N.Y.-Sealed proposals for furnishing dredging plant at Niagara River will be re-ceived here until 11 a. m., Sept. 7th, 1886 Information furnished on application. T. W. SYMONS, Major Engineers.

BRIDGE.—Sealed proposals will be received at the office of Board of Street Sewer and Drain Commis-sio ers, Norfolk, Va., unti 6 p. m., Auc. 31st. 189°, for the construction of the superstructure of a histoway bridge across Smith Creek, in this city. Information furnished on application to W. T. BROUKE, City Engl neer for Board.

DREDGING.-U. S. Engineer Office, Savannah, Ga.-Sealed proposals for dredging in Darien Harbor, Ga., Brunswick Harbor, Ga., and Inside Water Route between Savannah, Ga., and Fernandina. Fia., will be received at this office until 12 m., city time, on the 8th day of September, 1898, and then publicly opened, Specifications, blark forms and all available informa-tion will be furnished on application. O. M. CARTER, Captain Corps of Engrs., U. S. A.

COAL AND WOOD.—Sealed proposals will be received by the Board o' Education, Bajonne, N.J., until Tuesday evening, Sentemper 1-t. 1396, for furnish-ing 270 grossions of Lehigh coal; one half to be towe size and the other portion exg size. Also 12 cords of wood; one-half oak and one-half beet Virginia pine; both coal and wood to be cellvered in time in the cel-lits of several school-houses. The Board reserves the right to reject any or all bids. R. T. HEWIIT, Secre-tary.

JETTIES.-U. S. Engineer Office, Savannah, Ga, - Sealed proposals for constructing jetties at Cumberland Sound. Ga., will ber ceived here until 12 m., city time, September 8th, 1896, and then publicly onened. Information furnished on application. O. M. CARTER, Captain Engineers.

DECDMING.-U. S Engineer Office, Newport, R. I. - Sealed proposals for breakwater construc-tion at Nantucket, Mass., aud dredging at New Bedford, Mass., and Newport and Wie lord, R. I., will be received here un'il 11 a. m. (Standard time), September 4th, 1896, and then publicly opered. Informa-tion farmished on application. D. W. LOCK WOOD, Major Engineers.

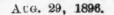
proposals ELECTRIC LIGHT PLANT .- S aled ELECTRIC LIGHT PLANT.-S aled proposals will be received by the Village Council of Greenwich. O., until 2 o'clock, norn. Wednesday. September 2d. 1886, for the construction and equipment of a comclete electric il htriaut; one 25-arc light dynamo, one 500-light alternator, one 75 H. P. engine, 21 arc lamps, all necessary wring, transformers, appliances, etc. etc., all to be constructed in connection with new water-works, Privilege will be granted to bid on entire steam power plant. Rights reserved to reject any or all bids, Information furnished on application. BURTON J. ASHLEY, Engineer, 511 Opera House Building, Chicago, Ill.

TE ENGINEERING MINING JOURNAL ADVERTISING RATES. Twelve Nine Months 39 times. Month A times. Months 26 times Inches Lines Mor Regu Editi 1 tim $\begin{array}{c} \$28\\ 38\\ 47\\ 57\\ 68\\ 99\\ 98\\ 108\\ 117\\ 120\\ 98\\ 108\\ 117\\ 120\\ 205\\ 89\\ 232\\ 242\\ 258\\ 296\\ 309\\ 232\\ 232\\ 258\\ 296\\ 349\\ 349\\ 350\\ 349\\ 350\\ 5956 \end{array}$ \$2 \$20 28 35 42 50 58 66 72 79 79 79 79 79 79 79 70 106 112 118 129 141 151 171 181 $\begin{array}{c} \$12 \\ 16 \\ 200 \\ 24 \\ 29 \\ 33 \\ 842 \\ 46 \\ 554 \\ 558 \\ 615 \\ 558 \\ 615 \\ 615 \\ 751 \\ 877 \\ 933 \\ 995 \\ 109 \\ 1151 \\ 126 \\ 132 \\ 143 \\ 149 \\ 218 \\ 407 \end{array}$ 該 \$5 6 8 $\begin{array}{c} 13\\ 15\\ 18\\ 21\\ 27\\ 30\\ 33\\ 36\\ 39\\ 42\\ 48\\ 54\\ 60\\ 66\\ 62\\ 78\\ 84\\ 90\\ 6\\ 102\\ 108\\ 114\\ 120\\ 135\\ 204 \end{array}$ 11/1 4 5 21/2014 M Column. 20 21 23 81/4 81/9 83/4 9 $\begin{array}{c} 24\\ 25\\ 30\\ 32\\ 35\\ 37\\ 39\\ 41\\ 43\\ 45\\ 47\\ 49\\ 51\\ 53\\ 55\\ 79\\ 147\end{array}$ 4 41/2 5 1/2 6 81/2 7 16 Column 73/2 8 83/2 9 93/2 10 10 10 10 10 10 11 14 190 209 219 228 238 248 258 374 706 M Page ... 18 19 20 21 22 32 61 Full Page.... Full Page. 408

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THE ENGINEERING AND MINING JOURNAL



IMPORTANT. To be s i, the Mineral Property called To be sold, the Mineral Property Called ***DIOS TE CUIE**," producing Silver and Gold, situated in the Section of Yepachi, Municipality of Famovachic, in the Dis rict Guerrero, State of Chihuahua, Mexico. by the Rascon Hermanos Co., of Nuevo Leon, Rayon District, State of Chihuahua, Mexico. For information as to price and conditions of sale Sector Decomposition of Sale For information as to price and conditions of sale apply to RASCON HERMANOS.

GOLD DIVIDENDS. If you want a paying Gold Mine, for of its value, write at once to a fraction BOOTH & BRINTON, Portland, Ore.

FOR SALE.

MONO MINE, UTAH.

NOTICE OF SALE OF MINING PROPERTY.

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Attorneys. GROSS, HYDE & SHIPMAN, Hartford, Conn., Attorneys.





FOR SALE CHEAP.

SOUTHER STEAM SHOVEL, 1% cubic yards dipper, in good working order. E. A. HERMANN.

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EXPORT TRADE.

Young man (32 years old), German by birth and education, with technical college training, having been connected with United States and South American industrial enterprises during the lass 12 years and speak ing the three languages (English, German and Spanish) fluently, desires to facilitate trade relations between the United States and South and Central America by periodical visits to the chief centers of trade in those countries and the establishment of branch agencies, at *his own expense.* Correspondence with firms desirous to extend their trade to foreign countries is solicited. Reference is made by permission to Dr. R. W. Ray-mond, 13 Burling Slip, New York City; and other firstclass references will be given on request. Address EXPORT. ENGINEERING AND MINING JOURNAL.

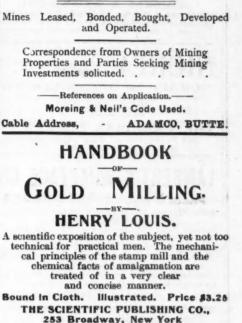
DIVIDENDS.

SABELLA GOLD MINING COMPANY. COLORADO SPRINGS, COIO., August 10th, 1896. DIVIDENO NO. 8. A dividend of ONE CENT PERK SHARE (\$22,5%) has been declared, payable August 25th, 1896, to stockhold ers of record August 18th, 1896. The stock transfer books will be closed August 18th, 1896, at 3 o'clock p. m., and will be re-opened on the morning of August 26th, 1896. PERCY HAGERMAN, Vice-President and Treasurer.

ONTARIO SILVER MINING COMPANY, MILLS BUILDING, 15 Broad St. New York, Aug. 17, 1896. DIVIDEND NO. 205.

DIVIDEND NO. 200. A dividend of TEN (10) CENTS PER SHARE has been d-clared, payable at the office of the company, San Francisco, or at the transfer agency in New York, on August 31st. Transfer books close on August 25th.

LOUNSBERY & CO., Transfer Agents.



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