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THE PEET STOP VALVE.

The superior excellence of this valve induces us to allude asecond time to its mechanism. We illustrate it by new cuts that represent the arrangement more fully than those pre viously inserted. The general structure consists of a pair of sliding disk-plates, a, a, accurately fitted to two flat seats, b, b, in the sides of the valve. These disks are suspended and hang loosely on the collar, e, on the stem. The end of the stem, d, is a conical wedge; when the disks strike the elevated bar, c, in the bottom of the shell, this wedge is forced by the screw and hand-wheel between them, which presses them asnnder, and thus drives each home on its seat, forming two

valve perfectly; with a slight reverse of the hand-wheel, it is entirely freed and opens withont frictiou or resistance. This valve is equally effective against the pressure from either way, and any pressure which tends to open one side closes the other. It has two joints, which make it twice as effective and more than twice as durable as any single-jointed valve. For instance, a single particle of dust in the seat of a single jointed valve causes a leak; a few honrs make that leak a permanent one. A single grain of dust in one seat of the Peet valve would not cause a leak without the remarkable coincidence of another particle at the same time on the other seat. This valve can always be packed under pressure of steam or water; it is machine-made throughout, every part being interchangeable, and made of the best steam metal. The joints of this valve evidently are not affected by expansion or contraction, since any change of size in the disk or seat would simply cause a slight motion in no way influencing the joint. The joints being again at right-angles to the current passing through, are not exposed to any filing action, as where the fluid travels across the valve-face. The disks can be duplicated at a trifling cost, and, the valve-faces and seats beng flat, can always be perfectly repaired. Being perfectly symmetrical, either end may be an inlet, and its shell is capable of resisting all

the only one of an efficient character yet furnished, that gives a straight and unobstructed passage to the flow of steam, wafor these valves from Austria, Russia, and other parts of Europe, Mr. S. J. Peet goes to England next month in order to make arrangements with parties to manufacthre on royalty. The valves are made in this country by the American Tool and Machine Company, 45 Kingston street, Boston, Mass.

Champagne from Petroleum.

It is no longer a secret of the chemist's laboratory, that clear golden syrups can be made from starch and sulphuric acid; that delicious wines and brandies can be made from beet-root; that a barrel of peanuts can be transformed into excellent coffee; that lard can absorb an enormous quantity of water in certain conditions; that, in fact, there seems uo limit to the adulterations that an intelligent and dishonest chemist can practice upou his fellow-men. All these marvels of chemical

science have in these latter days become degraded into Concerning the article of champagne, a writer in the Cincinnati Journal of Commerce tells us that it is made from a tickle the palate, gladden the heart momentarily, but quicken our paces toward the graveyard. This is a new use for pe-

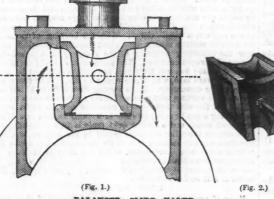
ish Medical Journal.

BALANCED SLIDE VALVE.

The annexed engravings represent an outside perspective view and a transverse section of a slide-valve for admitting steam to a steam-engine cylinder. Many devices have been invented and used for this purpose, but finally abandoned as impracticable, uneconomical and useless. Circular poppetvalves which are raised and lowered by "toes," and slide valves known as long and short D valves, are the mechanism now generally used in connection with steam-engine cylinders. joints. At this point a slight turn of the wheel closes the The objection usually raised against the slide-valve is the Boston, Mass. Two of the named letters patent were re-

THE PEET STOP VALVE

tnte in Philadelphia, this Stop-valve was exhibited as being of the steam on the back of the valve being great, causes an important consist of sand, which occupies immense space on immense amount of friction between the valve-seat and valve the Atlantic coast, the Bristol channel, and the German sea. face, when the latter is in motion. The friction of cast-iron ter, or gas, which it controls. Owing to the great demand sliding on cast-iron, unlubricated, according to Rennie's ex-



BALANCED SLIDE VALVE.

mere tricks of trade, and their chief beanty is in their capa- | periments, is 1.5 of the weight up to 100 pounds pressure per | Committee, and ordered to be printed. Besides a general recity to enable unscrupnlous dealers to lighten the pockets and square inch. From this estimate it can be readily calculated view of the operations of the year 1867 in New Mexico, Coldestroy the stomachs of the confiding and consuming public. what amount of work is expended, in merely moving the orado, Eastern Montana, Dakota, Minnesota and the gold disgravings we have a representation of a new met thousand different substances, even from refined petroleum. ancing a slide-valve, and of avoiding the objection alluded to discoveries on Lake Superior and at Madoc. A full account Yes, from the fiery benzole a sparkling, bubbling, foaming by a very simple and practicable arrangement without any champagne can be produced, which will delight the eye, springs, gears, steam-tight joints, or levers. Two valves are joined together at the back, as shown in Fig. 2, and the ports | ter supply of the western plains by means of Artesian wells, are made double, so that there are two valves and two valvetroleum, which those who have been experimenting with it faces in the chest instead of one, as generally used. These Rocky Mountains, and the most practicable means of reducas an agency for generating steam have little dreamed of. ports are constructed as shown in the transverse or cross sec- ing the oppressive rates of transportation, west of the

ered mostly worthless, may not some day be regenerated into represented by the arrow, and, pressing equally against both the great champagne-producing country of the world ?-Brit- sides, causes the valves to work freely, and yet steam-tight, against the face. The friction is so slight upon this description of valve, that it will work for many months without any perceptible wear. These balanced slide valves can be constructed to suit any length of steam-chest or any size of steamcylinder, used in marine, locomotive, and stationary steam-engines. Over fifty engines with cylinders from 24 to 7 inches, diameter, are now running with these valves, and all engineers who have tried them testify to their successful operation, and the satisfaction they find in using them. Eight patents, covering this valve and improvements on the same, are owned by the Union STEAM VALVE COMPANY, 96 Washington street,

> cently granted to J. S. BARDEN, and also two to CHARLES WHITTIER, of the firm of CAMP-BELL, WHITTIER & Co., Bostou, Massachusetts, who, besides some other companies, are manufacturing these balance slide valves under license.

Pormation of the Bed of the British

M. Delesse last week laid before the French Academy of Sciences a large map of the various beds and rocks constituting the bottom of the British seas. This bottom chiefly consists of sand, slime, more or less mixed with the latter, and different stones. The latter, already consolidated, are anterior to the present period, and do not receive deposits. They stretch far into the sea from the northwest coasts of Scotland, the Orkneys, and the Hebrides; they also exist at the mouth of the Shannon and the northwest coast of Ireland. In the British channel they mark the junction of Cornwall with Brittany; they also mark those of the Isle of Wight and Portland with the continent. To the east of England these stony formatious are hardly to be met with elsewhere than at the mouth of the Tees and in the direction of Cape Flamborough. They generally form the bottom of the straits and friths that are washed by rapid currents. Shifting deposits are larger in proportion to

ordinary strain. At the last meeting of the Franklin Insti- enormous absorption of power, or in other words, the pressure | the rapidity of the waters that have borne them. The most Gravel deposits, which are not extensive, are to be found on the western coasts, in the Bristol channel, between the Land's

End and the Scilly Islands, and south of Cork. Flint shingle borders the white cliffs of England, but is also met with in the German sea in the latitude of the Orkneys. Slimy deposits are peculiar to the mouth of the Thames, Southampton Water, Torbay, and the Irish coast of St. George's channel. As various points of the coasts there are marine deposits of mollusks and shellfish. They are somewhat rare on the eastern coast of England and the southern one of Ireland, but very frequent in the Irish sea, and all round Scotland, especially in the Minsh, and between the Orkneys and Moray Frith .- Galignani.

Commissioner Taylor's Report.

The Secretary of the Treasnry transmitted to the House of Representatives, on Monday, a report by James W. Taylor, special commisioner for the collection of statistics of gold and silver mines and mining, east of the Rocky Mountains, which was referred to the Mining

valve over the face to let the steam in and out. In the en- districts of the Alleghany range, this report refers to the minng interests of the British territories, especially to the new of the Nova Scotia gold field is added. Among other topics, prominence is given to the probabilities of increasing the wathe recent discoveries of coal along the eastern base of the Who can say that the Pennsylvania oil territory, now consid- tion Fig. 1. The steam passes between the two valves, as Rocky Mountains. This last discussion, he says, brings for ward the necessity of a national railroad system through the Northern and Southern as well as the central tier of Western States and territories. It is understood that the Secretary of the Treasury has continued the mining commission of the department, directing a special inquiry into the best methods for the aconomical reduction of the obstinate sulphurets which have hitherte obstructed the economical reduction of the goldbearing rock.

A Final Verdict on the Black Rock Mines.

From the Virginia City (Nevada) Enterprise.

The history of actual and purported mineral discoveries upon this Pacific coast will contain no chapter more eurious than that relating to the so-called Black Rock mines. It will illustrate a pre-existing disposition to believe in everything bordering on the marvellous, even in the matter-of-fact busi ness of mining; the ease with which popular credulity may be wrought upon by sauguine ignorance or cunning knavery, and the tenacity with which the public mind clings to a novel idea long after it has been proved a delusion and a humbug The existence of a peculiar mineral formation, in the Black Rock region, has been known since the days of the earliest California immigration, and, from time to time, there have been rumors that ores of fabulous richness were found scattered about that vicinity by emigrants, of whom all traces have invariably been lost. The very vagueness of these reports was calculated to stimulate belief, for stories which would be scouted as improbable if exactly located and retailed upon defiuite anthority, readily obtain a greater or less degree of credence when their authenticity is accorded a sufficient amount of when their authenticity is accorded a sufficient amount of doubt, and their location given a reasonable uncertainty of latitude. The term Black Rock designated a vast expanse of unexplored territory. A dozen El Dorados might oxist within its boundaries. There was nothing to limit the scope of imagination in conjecturing the riches therein contained. Never was there a finer vain of pradianogad acadulty for Nover was there a finer vein of pre-disposed credulity for shrewdness to work npon, than existed in the popular mind in relation to Black Rock, and never was a similar deposit more relation to Black Rock, and never was a similar deposit more skilfully worked. It is now some two or three years since the mining community was startled from its propriety by intelli-gence of the discovery that all the hills and mountains of that region, characterized by the peculiar mineral formation from which it derived its name, were a vast aggregation of gold and silver ore of incalculable richness. Tons of it were brought to Washoe Valley for reduction, and the most astonishing results obtained. Crowds rushed to the new mines; the whole country was speedily located, and a person was commiserated as having lost the only certain prospect of a fortune, who had not obtained "feet" in Black Rock. Thus the rage continued for a couple of years, during which period two or three mills were erected in the vicinity of the mines, and the machinery for several others started thitherward from over the mountains. But the mills could obtain no traces of precious metals from But the mills could obtain no traces of precious metals from the ore, and, notwithstanding that the same astonishing re-sults as ever were produced from the small batches crushed under the supervision of a certain individual at certain works in Washoe Valley, the universal confidence in Black Bock ex-hibited a tendency towards weakening. The notoriety of the mines and the perplexing enigma they presented, challeuged the attention of numerous assayers, chemists and metallurgists, who only augmented the mystery by pronouncing different opinions. The bulk of scientific testimony, however, finally opinions. The bulk of scientific testimony, nowever, many preponderated on the side that the ore contained no gold or silver at all—or, at most, not in paying quantities. Still the mill in Washoe Valley continued to obtain astonishing results, and one or two scientific authorities stoutly maintained that the ore was as rich as it had ever been claimed to be. Amid these conflicting assertions, faith in Black Rock, though terribly shaken, was not altogether lost, and the public still waited for some more definite and satisfactory decision. waited for some more definite and satisfactory decision. Among the authorities whose opinion on the subject was looked to with nnusual degree of interest, was the United States Geographical Survey, which for some months has been prosecuting its labors in our State. The importance of the matter was recognized by Mr. King, who has the exploration in charge, and last fall a detachment of the corps, ander Mr. S. Emmons, was detailed for the purpose of examining the Black Rock region and collecting specimens for analysis. Mr. Hague has been engaged at the Gould & Curry assay office for the past six weeks in making these tests, and has just finished his labors. The examination is beyond doubt the most thorough that the ores in question have ever undergone, and thorough that the ores in question have ever undergone, and as perfect as it is in the power of science to make—every specimen having been subjected to a complete chemical analysis whereby all its component elements have been ascertained. Through the politeness of Mr. King, we are enabled to lay the result before ou readers, and herawith submit it:

Office U. S. Geological Survey,

OFFICE U. S. GEOLOGICAL SURVEY, A OPHIE HOUSE, March 6.

F. EDITOR ENTERPRISE—Sir:—Having favored the public with so many instructive items in the history of the Black Rock Mining District, perhaps you will publish the following results of a chemical post-mortem examination made on its mineral bodies by a member of our corps.

During last October and November, a detachment of the U. S. Geological Survey, under command of S. F. Emmons, was sent to Black Rock for the express purpose of solving this long yeared problem.

long vexed problem.

Mr. Emmons and Mr. Arnold Hague patiently examined the deposits, and brought in a full suite of specimens taken from all the prominent ledges. These haye received a careful chemical analysis from Mr. Hague, whose results are given below. Respectfully yours, CLARENCE KING, U. S. Geologist.

CLARENCE KING, ESQ., GEOLOGIST IN CHARGE UNITED STATES
SURVEY: I have examined at the assay office of Gonld &
Curry mill quite a large number of the "so called" ores of
the Black Rock country, which were collected by Mr. Emmons
and myself, while there last autumn. The specimens examined
were selected from the most promising claums in the Harden
District Appears there were the following ledges. District. Among them were the following ledges: Snow Storm, Ruby, Silver Star, Emerald, Harden Series and Sumeries—comprising the so called "green wax," and "porcus rock." All of them were subje careful chemical treatment in order to detect the presence of either of the precious metals in any possible combination, and the result was always the same-none of the rock contained either gold or silver.

While carrying on the chemical analyses, Mr. Balch, assayer

for the Savage Company, subjected several specimens to a fire assay, and he reports them "entirely barren."

The ores may be divided into two classes—one a very porous basaltic rock, the other varieties of clay.

The clay forms the principal ore of the Snow Storm. It has a green or greenish-yellow color, and is mixed with a little organic matter and grains of quartz. Associated with the clay are masses of red jasper, coated with dendritic oxide fof iron. The clay occurs in uearly all the ledges, but varying somewhat in color, as in the Summit Series. The clay forms the "green wax."

The "porous ore" is a basaltic rock, the cavities of which

"porous ore" is a basaltic rock, the cavities of which were found to be filled with various mineral substances, or quartz, chalcedony, sesquioxide of iron, carbonate of lime, and

ceolitic minerals—most of which, with the exception of the si-lica, were easily decomposed by strong acid.

The "black wax" of the Ruby ledge forms the contents of the cavities, and is composed of the black oxide of iron, mixed

No mineral substance was found not common to vesicula

No mineral substance was found not common to vesicular basalts. Respectfully yours.

Assistant Geologist U. S. G. E.

The verdict of Mr. Hague, we infer, will dissipate whatever lingering faith there may be in Black Rock. Operations in that district have already been practically abandoned, but we are aware of a few people who still retain hopes of a resurrection, and a belief that Isenbeck will yet inangurate a Black Rock milleunium. The sooner they concur in the general opinion that he is an imposter, and that he has been "salting" the ores worked at Dall's mill, the sooner they will arrive at a just appreciation of one of the boldest and most stupenduous swindles whose perpetration was ever attempted. We trust the report of Mr Hague may assist them speedily to such a conclusion.

Mining Summary.

GOLD AND SILVER.

South Eastern Nevada.

[From our Regular Correspondent]

AUSTIN, April 16, 1868.

On the evening of the 6th instant the Keystone mill was totally destroyed by fire. A little before 8 o'clock, P. M., a man, passing from an adjoining cabin to the boarding honse, observed some one coming out of the mill, (which had been idle during the day from want of sait) but paid little attention to the circumstance, supposing him to be one of the mill-hands. A quarter of an hour afterwards, the whole building was enveloped in flames. No water being at command it was impossible to save the property. It was a fine mill, being conveniently arranged, and capable of doing a large amount of work. It was erected in 1865, at a cost exceeding \$90,000 in gold, and was insured for \$65,000. The burning is generally supposed to have heen the work of an incendiary, but the guilty party has not been discovered. The company in New York allowed the property to be sold under judgment some time ago, in favor of John A. Peaton & Co., bankers, here. Though the debt originally was only about \$15,000, it is now, by the addition of interest, more than double this amount, our rates of interest being generally about three per cent, per month. In connection with the management of this company's business, there has been a great amount of scheming, which has proved anything but profitable to the eastern stockholders. The company was organized in the early days of the Reese River excitement, and, as in a host of other cases, the mines, for which the mill was built, were found to be of very little value.

A COMPANY COLLAPSED

The Old Dominion company, operating in Hot Creek district, 90 miles sontheast of this place, has come to grief, before the well-laid schemes of its shrewd operators had been fully matured. The accidental destruction of the company's mill by fire, some two months ago, sprung the trap hefore it was fully balted for its intended victims. Last summer a purchase was made of the Old Dominion, Merrimac, and other iedges in Hot Creek district, and subsequently a; company was organized in Philadelphia to work these mines. A ten-stamp mill was built, and from the rich surface ore of the Old Dominion claim, a splendid run was made for a mouth or two. As the ledges were not developed, and the surface ore, as in similar cases, soon came to an end, it was receesary to keep up appearances in the east, otherwise the exaggerated representations of the organisers of the company would be palpahic, and therefore the builion extracted was sent on and paid out as dividends to a few of those having the inside track. The men working on the mines and mill had to go for months without being paid their wages, so that the company might pay dividends. Store debts of large amount were incurred, and in fact, if credit could be obtained, there was no desire to pay out a single dollar. With the burning of the mill, the hone of making money by a stock overstion variebed and onrred, and in tact, if credit could be obtained, there was no desire to pay out a single dollar. With the burning of the mill, the hope of making money by a stock operation vanished, and now the remaining property of the company is attached hy dozens of enraged creditors. The prospector who sold the mines to the company has not been paid the purchase price; he is a straightforward man, who would wrong no one, and has the sympathy of the community. Sums varying from \$200 to \$1,000 are due to hard-working men who will never realise five cents on the dollar. If the mill had been in existence now, it might have been doing a good paying husiness in working custom ore. With unopened mines, and a load of debt, there is little probability of the company investing any more money in the country, and unless there were an improvement in the management, it would be toily to covet their investments, which are more in the form of permanent debts than anything else. Such operations are injurious to our mining interests, and the sooner they are exposed, the better it will be for all parties.

INEFFICIENT MILLS.

INEFFICIENT MILLS Many of our undeveloped mining districts have had their rep-tation injured by rattle-trap mills being built within their ounds. If rich surface-ore is discovered in a district, some nameless adventurer, who can scrape a few thousand dollars to-gether to buy the remains of an abandoned mill, concindes he has a call to go in and possess the land. Under a high-sounding company-name, he gets credit all around, so as to be able to com-plete a miserable excuse for a quartz mill. When the machinery is put in motion it is found to be out of line, and in various ways is put in metion it is found to be out of line, and in various ways unfit to perform a reasonable amount of work. The process to extract the silver is also wanting, and after a month or two the concern is pounced upon by the sheriff to satisfy the demands of ontwitted creditors. In such cases parties at a distance argue that as the ore worked in the mill did not pay, therefore the pay is not in it. As an excuse for want of judgment, as well as general mismanagement, the adventurer himself is ready to favor the idea that the mines of the section are not as good as they were represented to be: Reduction-works suitable for the working of silver ores, particularly where roasting is necessary, cannot be erected except at great expense, and it is folly to think of making a one-horse establishment successful. BREAKS IN VEINS

BREAKS IN VEINS.

The lodes of Lander Hill are subject to faults and breaks. Shortly after the Reese River mining district was organized, if a miner, sinking on a vein, came to one of the breaks we are now so well acquainted with, he concluded he had reached the bottom, and the claim was good for nothing. The ledge, perhaps, broke clean off, and left only a white clay seam to indicate the direction to be taken in searching for it beneath the break. Whether to run up or down the hill was for some time a puzzling question, and considerable needless work was done before an invariable rule came to be followed in such cases. Apart from the expense and time lost in following these breaks, miners now have no difficulty in making the connection between the broken-off and underlying portions of the lode. Except the Florida, there is probably not a single mine worked in this vicinity which has not been more or less subject to disruption. In the Diana there appears to be no end of faults—the whole formation being broken as far down as the works have gone. Yet ore of fine quality is frequently found where the walls of the vein are completely crushed. The North Star and Oregon ledges of the Manhatian company are also much disturbed, and a heavy additional expense has been insured in working these mines on that account. In the Bnel North Star a drift of 70 feet has been carried through hard granite from the bottom of the incline, in the hope of reaching the solid vein, which owing to a dislocation, is undonhtedly further up the hill than it was supposed to be. When our mining works have got below these disturbances, the mines will give better returns than they now afford, as much less deadwork will have to be done to keep on the lode.

THE MURPHY MINE

of the Twin River company is looking better now than it ever did at any previous period. When the 200 foot level was started towards the north, it was carried 80 feet through barren rock, and it was supposed, therefore, that the ore chimney pitched northerly. The main machine, however, has now reached a depth of 240 feet, and for the last 16 feet it has passed through a hody of very high grade ore. This must either be a new chimney, or the old one had a barren place in it. In either case, the ground of the McDonald company, on the same ledge, the northern end of which is only some 25 teet distant from the incline, is increased in value by the discovery. The monthly yield of the Murphy mine is about \$60,000 in bullion, and it will probably Murphy mine is about \$60,000 in bullion, and it will probably be considerably increased during the next three months. Speaking of the McDonald claim, how is it that nothing is heing done by the owners in New York to secure its developement? Mr. Boalt was expected hack here months ago to take charge of the property, which is too vainable to be lying unproductive as at present. Were \$15,000 spent in sinking a shaft on the south side of canyon, there can be no doubt that the mine would, under proper management, become a steady dividend-paying property.

DEEP SHAFTS.

Surface mining for silver has not proven profitable except on a very small scale. True, the Comstock, Lady Bryan and Accidental todes, in the Washoe region, have yielded a large amount of paying ore at the surface, and even in Eastern Nevada considerable sums of money have been obtained by the extraction of chloride ores. But to secure large bodies of mineral and reliable veins, deep mining is indispensable. The practice is now being adopted in this vicinity of working a group of veins through a shaft put down so as to intersect them at depths varying from 300 to 500 feet. The cost of hoisting is necssaarily iessened by grouping the mines in this manner, in preference to working each through a separate incline. We have now about a dozen perpendicular shafts in this neighborhood, varying in depth from 100 to 400 teet. The North Star mine of the Manhattan company has heen worked for the last year almost exclusively through a shaft, and another one further up the bill is now heing opened for the working of the group of mines owned by the company. The latter has reached a depth of 320 feet. When the Sherman shaft, on the snmmit of Lander Hill, has attained a depth of 1,000 feet, there will either be a series of the richest mines ever seen in any part of the world laid open, or the mining interests of this section will dwindle into insignificance. The permanency of our mines, if they are inexhaustible, is to he determined only by such deep works.

THE TIMOKE.

Since my last letter a mill working of 37% tons of ore from this mine has been settled for. The average pulp assays went a little over \$309, and the actual yield in bullion was about \$257 per ton, coin value—82 per cent. of the assay. After paying all the milling expenses, the amount paid over to the agent of the company was \$7,997 63, which with only a few miners employed was a very good monthly yield. The dividend remitted to the office in Boston for March was five per cent. on the subscribed capital stock, and a similar remittance will be made for this month.

Owing to the loss of the Keystone mill, there will probably be some difficulty in getting ores worked at the usual custom rates of \$45 per ton. Mr. Curtis, agent of the Manhattan company, is of \$45 per ton. Mr. Curtis, agent of the Manhattan company, is considerately endeavoring to meet the wishes of mine-owners and ageuts by doing a large amount of custom work. Alterations are being made in the California mill with a view to its being set in motion as quickly as possible, but it is lneapable of putting more than four tons through in the 24 hours. The Mettacom mill is in good running order, and will probably be set in motion as soon as Mr. Howell, the Superintendent, returns from Sweetwater, where he has gone with a pack train loaded with provisions and tools. The Empire State and Boston mills have both been idle for a long period. The former might be profitably set in motion provided a suitable Superintendent were in charge; the latter, though erected at a great cost, is unfit to do ordinary milling work, unless a considerable outlay were first made upon it.

SMOKEY VALLEY DISTRICT

The accuracy of the criticisms in my last letter respecting the property of the Big Smokey company has been confirmed by the abandonment, for the time being, of the ledge which was depended upon for supplying the newly-erected mill of the company with ore. The New York secretary, who is here at present, has openly announced that he is at last satisfied that the rock at command does not contain sufficient silver to be profitably openly announced that he is at last saushed that the rock at command does not contain sufficient silver to be profitably reduced. It is rather singular he did not make this discovery when here last year. It is too late now to blame other parties for the deception of the disappointed stockholders. He professes to have had immense experience in quartz mines, and ought not, therefore, to have been fooled. Every miner in the country knew, years ago, that the quartz it contained was too low in grade to be worked while mining and milling were at the high rates still prevailing. A few tons of selected ore are being milled; the mill is said to work well.

THE COMBINATION MILL has been temporarily closed for repairs and alterations. The yield of huillon was averaging about \$800 per day when work was suspended; a much smaller return than the community was led beforehand to expect. Strong efforts are being made, through the newspapers, to make it appear that the mill is nearly perfect, and the yield of bullion immense. A leading article in the Territorial Enterprise of the 12th instant goes so far, even, as to put the monthly yield of bullion at \$100,000—an exaggeration patent to every one acquainted with the actual condition of

affairs. The Enterprise is usually well informed in such matters but on this occasion the editor has probably been led astray by but on this occasion the editor has probably been led astray by interested parties. The mill must undergo many alterations before it can be considered a first-class establishmeni; and the mines of the company, valuable as they are, will require to be opened to a much greater extent than they are at present, before a steady supply of paying ore can be depended on to keep a 40-stamp mill in full profitable work. How long will it be before parties interested in mining properties come to learn that exaggerations are wholly unnecessary if their mines are really good?

THE MANHATTAN MILL

THE MANHATTAN MILL is again at work, and turning out great numbers of silver bars. Though, owing to the breaking of a shaft, it was running little over balf of last month, its yield of bullion had a currency value of \$68,566. The mines of the company are looking well, and there is abundance of high grade ore still at command. When the Oregon shaft, now being opened, reaches the North Star vein, and the necessary levels have been run, there will be ore enough extracted to keep several mills at work.

ITEMS OF INTEREST.

In the Buel North Star a vein has been found in the exploring drift, but is supposed not to be the one the Superintendent is searching for. Several ledges in Hot Creek district are being opened with much encouraging results.

There is a prospect of a sale of mining property in Manhattan district, 18 miles from Belmont, being effected, as also at Montenues still further south.

zuma, still further south.

Working capital is being raised in New York to build a mill at
New Pass, 25 miles west of Austin, for the refinction of its gold

The Rutland 5-stamp mill at Reveille district is about to be repaired and provided with roasting furnaces.

The mill of the Alameda company, at Pahranagat, will soon be turning out bullion—how much of it is yet to be determined.

Several parties, professing to have the power to huild a mill if they can find spitable mines, are now in Columbus district, inspecting the lodes there which have become so celebrated. I have no doubt they will be highly pleased with the Northern Belle and other prominent mines of the section. The last working of the Florida ore went over \$500 [per tou—fire assay. The mine is still turning out fine ore. The Troy mine is yielding magnificent minerals at present.

E. J. Dare.

California.

California.

Nevada County.—The Grass valley National speaks in encouraging terms of the mines in the Eureka district. The last crushing from the mill at the Birchville ledge paid \$44 12½ per ton. The tunnel is now in 200 feet with ahout 400 still to run. They are running three shifts and employ thirteen men. Except in the tunnel, work is suspended at this ledge on account of the deept of forty feet, to strike the ledge. Their rock shows well in free gold and sulphurets. At Snow Point, the Kentucky Shaft Gravel Mining company are about to pat up an eight-luch pump and machinery, atter which they will sink deeper to find the blue lead. The Golconda tunnel run into a portion of the Kentucky Shaft company's ground, through which the gravel will be washed with great advantage. The whole district promises to be very lively in the summer. The owners of the Idaho extension of the Eureka ledge have struck the ledge in their claims. The rock shows well in gold and gives promise of being as valuable in size and yield of gold as the Eureka company sclaim adjoining. Mr. Mark Benallack, underground foreman at the Eureka mine, was accidentally killed on the 20th of March.

The Gazette has the following: The main tunnel of the Chalk Monntain Blue Gravel Mining company is now in three hundred and fitty feet, and the channel was struck some ten days ago. Before the company had been: "breasting" half an hour, they took out a two onnce nngget. The gravel prospects well. About half a mile from the above point the same company has another tunnel in a distance of one hundred and twenty feet, which has just tapped the channel, from which good prospects are obtained. This conpany also has a bedrock tunnel at the North Fork at Greenborn, which is in one bundred and twenty feet, and from indications is but a few feet from the main channel. This channel is a continuation of one at the Cascades. The North Fork at Greenborn, which is in one bundred and twenty feet, and from indications is but a few feet from the main channel. This channel is a continuation of one at the Cascades. The Red Diamond company, immediately below the Chalk mountain and Bine Gravel companies's claims, at the Cascades, on the same channel, has been taking out gravel from its tunnel that yields \$1.50 to the pan. The tunnel is in three hundred feet. The successful opening of this great ancient channel, at the Cascades, will present a new field tor gravel mining that has hitherto scarcely been touched The Gougeye Eastern and Empire (cement mills) at Hunt's hill, are all running regularly and doing well. Each one of these mills employs eight stamps. Good miners are scarce at this mining camp, and fitteen or twenty good drifters and carmen can find steady employment there, and pay every week if they desire it..... Thomas Marker, who came down from Washington on Monday, reports but very little mining done in that place or Omega. Ditches and flumes have been severely damaged by the beavy floods The Transcript says the Pittsburg mine is looking first rate. The company contemplate adding five more stamps to the mill next month, when the mill will consist of fifteen stamps, and be capable of reducing alton and a balf of quartz per bour..... The Merrimac mill has been purchased by a company owning a quartz ledge at Ragan Flat, near Cement bill. It will be removed and put in running order upon the new ground at an early day The American gravel claims at Sebastopol, owned by Swan & Co., after a run of twelve days, cleaned up last week, taking out \$15,000..... The Grass Valley Nationat, March 25th, says: The New York Hill company will start up again in a few days, and will be able to crush the rock as fast as taken from their mine.... Operations will be resumed the coming week upon the Empire company's mill and mine.... The Gazette, March 31st, says that Richards & Co., owners of the mill on Deer creek, have just completed some ext worked in Excelsior at present. A mill is completed and ready to run as soon as the immense depth of snow shall subside. The mine promises to pay its way bereafter.

mine promises to pay its way bereafter.

Placer County.—Shirt tail Canon, so famed in early days for its richness, but lying idle for the past ten years, (although held by a party of twelve men.) is likely soon, says the San Francisco Mining Press, to yield np its treasures quite equal to former times. The Canon is over 20,000 feet long, and has been the receptacle for all the tailings from the richest bills in Placer county during all this time,—the washings from Brushby canon, Yankee Jims, Iowa bill. Wisconsin and Smith's bill, together with all the mines on that side of the Divide emptying into it, for a distance of fifteen or twenty miles,—the result is that the tailings are now from 10 to 50 ft. deep, all of which are thoroughly impregnated with quicksilver, carrying more or less gold, and all ready for working, while all the water needed runs through the canon after

leaving the other claims. The water and quicksliver are free to work with, while for all time to come the mines above are furnishing material that must pay as long as the mines are worked. Recently Mr. D. M. Hosmer, in connection with a few other gentlemen, have purchased the remaining interest, and are about commencing to finme the caffon and wash all the dirt. They are commencing about a mile below the head, while preparing an immense flume at the foot of the caffon, where there is a fall of some sixty feet, with a good fall all the way up. Competent judges think that the claim will pay an average of at least \$10 per day to the hand, and as the company will put on fifty men, as soon as the water permits, if the above initial estimate is correct, they will realize at least \$150,000 the coming year. There is no doubt but that the claim is among the richest gravel tailing claims in the State. ...John Walgreen is said by the Anburn Stars and Stripes, of March 26, to have worked five tons of rock from his vein near the celebrated Good Friday vein, and the claims in the State.John Walgreen is said by the Anburn Stars and Stripes, of March 26, to have worked five tons of rock from his vein near the celebrated Good Friday vein, and the yield was at the rate of 14½ ozs. per ton, or about \$1,200. There is more rock in this vicinity equally as good.Jos. LcLanghlin, while strolling around near Ophir, picked up a chunk of gold thickly studded with quartz, which yielded npwards of \$300.... The Dutch Flat Enquirer says that Staple Bros. are meeting with good success in the Waukegan claim The Auburn Herald, March 28, says that the contest between the Ophir and Good Friday Co's. has been amicably settled. The Ophir company pays the Good Friday \$5,500, and allows the Good Friday boys to have all the rock that is now ont, supposed to contain at least \$2,000 A Gold Run correspondent says: The miners are most of them at work—none but those interested know upon what terms According to the Enquirer, at Iowa hill, the miners are steadily descending at the rate of two feet in twenty-forn hours. The Sailor Union company are running off the top dirt of their claim by the acre. Butler and Mannel are at work in the old Rich claims, just below the Sailor Union. The North Star company are running a tunnel through the bedrock, to obtain fall for their sluices, preparatory to rigging np as a hydraulic claim. The tunnel is now in 300 feet, and they have about 300 feet more to run. The Jamison company are piping away, and are being well remunerated. This claim and the Sailor Union, working as they do from opposite sides of the hill, will in a short time cut the work in two. The Morning Star company are running a tunnel to their pay lead, the present one being too high for practical use. The mine is paying splendidly.

Calaveras County.—Under the exhilarating influence of the pleasant weather, says the Chronicle, March 28, miners have

high for practical use. The mine is paying splendidly.

Calaveras County.—Under the exhilarating influence of the pleasant weather, says the Chronicle, March 28, miners have again commenced work with energy. New and extensive operations in quartz are being inaugurated, and the coming season promises to be livelier than for several years preceding. The success which has attended the opening of the lode in Rich gulch is baving a very beneficial effect, giving enconragement to others to persevere. Gravel mining, in Chili gulch, is being successfully prosecuted. Brackett & Co. are erecting a mill on their claim for the purpose of crushing the cement, it being found impossible to extract the gold by the simple process of washing. They will be ready to commence operations in the course of two or three weeks. Messrs. Shaw, Albright. Ahrnot & Co. are hydraulicing with good success. Stockton ridge is melting away before their combined efforts like snow before the sun. Paul & Co., Martin & Co., Harkins & Co., are also busily engaged in taking out the with good success. Slockton ridge is melting away before their combined efforts like snow before the sun. Paul & Co., Martin & Co., Harkins & Co., are also busily engaged in taking out the shining ore. The Golden Gate Mining company, we are inform ed, are getting excellent pay.....The San Andreas Register, of the same date, says: Quartz prospectors report rich indications in various directions around the town. A great many new leads will be worked in this vicinity this summer. From every direction throughout our county the news and reports indicate prosperity; and the miners seem to be settling down to the conclusion that quartz claims will pay them for their labor, and that they are easily tound and readily worked in old Calaveras...

The Chronacle says: The lower Rich Gulch mines are said to be in a flonrisbing condition. The Palamo Mill and Miring company are running an eight stamp battery, with a combined weight of 4,800 pounds. The stamps are run at the rate of eighty strokes per minute, and the crushing capacity is trom eighty to one hundred tons per week. The tunnel has been driven sixty feet on the lead, which is fully six feet in width. Competent judges are of the opinion that the rock will pay from \$10 to \$12. Specimens have been picked up which assayed at the rate of \$900 per ton.... Alexander & Co. are running their mill constantly and meeting large returns. Norton & Co. are in 140 feet with their tunnel, and pushing it ahead night and day. They expect to reach the vein in a month, when they will be two hundred feet below the surface. Rich gulch is the best quartz mining region in this section of the country...... A letter from Mokelmane hill says: In the Quartz glen, (or Foote & Thompson) mine, the present owners have driven a tunnel on the vein for a distance of 650 feet. Rock from the old works, packed on animals to the French mine. The mine was worked to a considerable extent, with fine prospects, but as the mine belonged to one party and the milt to another, they disagreed, and in consequence a with fine prospects, but as the mine belonged to one party and the mill to another, they disagreed, and in consequence are both didle. The next, the Anglo Saxon mine, a half mile east of the Quartz glen, is the same that created so much excitement in 1856, Quartz gren, is the same that created so much excitement in 1856, by the extraordinary richness of the rock; since then there has been a large amount of work and money expended. The developments consist of three shafts, one of which reaches the water level of the vein. It is in this shaft that the last work was done. Rock last fall, worked in the French mill, paid \$10, while the sulphurets assayed \$600 per ton. There is a level run from the bottom of this shaft 32 feet. The vein here is three feet in thickness, and richer quartz than this appears to be hard to find.

bottom of this shaft 32 feet. The vein here is three feet in thickness, and richer quartz than this appears to be hard to find.

Plumas County.—The National says that at Indian valley the mines are doing well. The Crescent mill commenced crushing on the 27th of February. They bave a large supply of rich rock. The Whitney company have discovered some very rich rock. Indian valley is in full blast. The Lone Star mill, at Greenville, will commence work shortly. The Caledonia has been crushing rich ore up to Thursday, February 27th, when the mill broke down; it will soon be repaired. Operations are temporarily suspended at the Bull Frog mine, near Rush creek, in consequence of the late heavy rains filling up the claim. At Washiugton bill, the American company are working twelve hands, and are taking out from \$6 to \$10 per day to the hand. Bradley & Co. have been running a tunnel for three weeks, and have struck a good prospect. Moore & Co's. claims are all paying well—they found a four ounce of the of the weeks, and have struck a good prospect. Moore & Co's. claims are all paying well—they found a four ounce of the ore smelted have since a good prospect. Moore & Co's. claims are all paying well—they found a four ounce and the claims are doing well. The New York company is working sixteen men, and the claims are paying well. The New York company is working sixteen men, and the claims are paying well. The New York company are working nineteen men, and are taking out a large quantity of the same fate. Sawpit, between the Union and New York companies, has been amicably settled. The Buckeye company is working sixteen men, and the claims are paying well. The New York company are working nineteen men, and are taking ont a large quantity of pay dirt. The Union company are working seven men and are also getting out good pay dirt. But three men are working in the Franklin claims, they are making about \$4\$ per day. The Eagle company is working thirteen men, and they are filling the dump-honse with rich pay dirt. The Monntaineer company are at work, running a bedrock tunnel; they are working day and night, and are averaging about sixteen feet per week—the tunnel in nearly 900 feet. Pollard & Vandergriff, in their old claims at

Richmond Hill, are taking out big pay. Hogan'& Co., and the other hydranlic claims have fitted np, and are ready to com-mence playing as soon as a supply of water can be had.

Kern County.—The Havilah Courier, March 21st, says that the St. John mine, at a clean up some weeks since, obtained \$7,500 after a two weeks' run. The company obtained \$9,000 at the last clean up, after a forninght's run. Hammel & Denker are going to work energetically to develop the Burning Moscow. It prospects well. George Leeper has discovered a very rich lead in the new El Dorado district. Operations are to be resumed by the Alpine company on the Greenborn mountain. Work will soon be commenced again on the Long Tom mine, under the superintendence of Joseph Woodworth, a veteran miner. Ells worth's & DeLsad's machinery has arrived. It is to be used working mines at Kernville..... The Visalia Delta, March 25th says: At Kernville, in Kern connty, the principal mine is owned by two companies, Hutton & Co.. and Ellsworth and DeLand, Which mine, prior to the great freshet, was yielding an average of \$25,000 per month; but owing to their mine heing filled with surface water, they were compelled to suspend operations to a considerable extent, until such time as they can set their new steam hoisting works in operation, which will be completed about the first of April. At Sageland, Messrs. Taylor & Co are doing an enormous business in the way of turning out buillon. J. R. Rogers & Co. will also have a twenty stamp mill running in Sageland within the next thirty or forty days, when, it is confidently asserted, that those two mills of thirty stamps will produce more bullion than one hundred stamps in any other district in the country.—It is said that the Mahoney mine, of Sutter Kern County.-The Havilah Courier, March 21st, says that

and the country.

Amador Country.—It is said that the Mahoney mine, of Sutter creek, has been sold in San Francisco for \$250,000..... The Jackson Ledger says that the yield of the sulphurets saved at the Coney & Bigelow mine for the month of February, amounted to the snm of \$3,500..... More good placer mining strikes have been made the present season than for some winters past. The owners of a claim at Clinton pleked up over 900 pounds of nug; gets since they began work at the beginning of the rainy season. The same ground has been pronquated worthless since 1850....

Two bundred tons of ore from the Kennedy mine is now being delivered at the Coney & Bigelow mill for crushing..... At the Casco mine they are now hoisting large quantities of rock.....

A fortnight's clean np at the Oneida mill during the rnn of which but two-thirds of the stamps were kept in operation, yielded over \$10,000 in gold. Work will be pushed on more vigorously than ever before The company owning the Casco mine have constructed to have 1,000 tons of quartz hauled to their mill on the Mokeluma river, about one mile from their mine, at the rate of 50 cents per ton..... Messrs. Tripp, Skinner, and two Chilanos are working a vein of rock in French Galch, south of Butte mountain, the rock of which promises by an assay to yi-id over \$1,200 to the ton. The ledge at present is six feet in width.

Tuba County.—A Brown's valley correspondent writes that the workney of the Pennysleyals claim are troubled with water.

Yuba County.—A Brown's valley correspondent writes that the workmen of the Pennsylvania claim are troubled with water in the lower levels, but fortunately the upper levels furnish more In the lower levels, but fortunately the upper levels furnish more than the necessary snpply of good quartz for sixteen stamps. The company are now saving a large quantity of snlphurets. The Rattlesnake claims also bad all the water they could take care of, The company are pushing on their drifts and shafts, however, with great vigor, and seem to be in good spirits. They will hegin crushing with their ten stamps on or before the 15th of April. In the Danebroge claims the water greatly interfered with the opening works of the company. Their prospects are still encouraging, and their mill will again be started within a short time. The Jefferson company continue to prospect, nader the direction of their snperintendent. The Sweet Vengeance is now ready to resume work as soon as the weather will permit it.

now ready to resume work as soon as the weather will permit it.

Alptae County.—The Pittsburg company is said to have struck a ledge two and a half feet in width, about three hundred feet from the month of the tunnel, which shows good silver-hearing quartz.....The Pennsylvania tunnel is now in what is thought to be the casing of the ledge. This is one of the substantial claims of Alpine.....The Markleville Miner, March 21st, says: About twenty-eight feet bave been added to the lateral tunnel of the Mouitor company during the past week. The tunnel of the Pennsylvania company is in softer rock than nsual, and more water is encountered. A shaft 160 feet long, 4x4, has been run into the open air from the tunnel of the Leviathan company. Genuine black ore has been struck in the lower level of the Morning Star mine, similar to that found in the palmy than company. Genuine black ore has been struck in the lower level of the Morning Star mine, similar to that found in the palmy days of the upper level.

Taolumne County.—It is stated that a very rich quartz vein has recently been discovered by Mr. Sam Platt, half a mile from Reach's camp, on the road from Sonora to Sumnerville The Sonora Democrat says that there was an exceedingly rich strike made at the Paterson mine in Intiletown, on Monday, March 16. Several tons of decomposed sulphorets of Iron and quartz were taken ont, and the rock was likerally filled with gold. The vent that contains the precions metal is six inches wide, and extends from the top of the tunnel down to the spot that is now being worked. The gold gliltering in the rock can be distinctly seen by the light of a candle.

Stakiyou County.—The Yreka Union says that it is the intention of the agent of a San Francisco company to open and mine the lower portion of Indian creek. No doubt is entertained but that the lower portion of the creek contains a rich channel of gold. The reason it has not been worked before now is on account of its depth and the difficulty of draining it..... Special attention is called to the Klamath river, immediately below the mouth of Cottonwood creek. Last fall one company, Shaft & Co., threw in a small wing dam and worked for a few months, and as a result, took out, we understand, some \$16,000.

Butte County.—The Record, March 28, understands that parties from below have purchased the Jordan mill and mine, for \$10,000. The purchaser is making preparations to work the mine.

Coloradc.

(From an Occasional Correspondent.)

GEORGETOWN, April 28, 1868. Although a residence here from 1858 to 1863, with a general experience in mining affairs, might qualify me to speak generally

of the condition of Colorado, still I shall beg leave to state briefly the result of some of my observations in and around Georgetown. As you have in your gleanings from Colorado exchanges noticed the operations on the Herkimer, Brown, Baker, Coin, Beecher, and many others of the noted mines of this region. I would like to add that the accounts so furnished do not faster some of those mines, as has been shown by later developments. Experience has been so uniform that it has become a recognized principle, that any of the main fissure veins of the country, whether small or showing more mineral wealth on the surface, they invariably increase in richness and quantity of vein matter as depth is attained. As there are few men who can claim the title of "Old Settler" in this Georgetown region with better grace than myself, permit me to speak particularly of the developments now being made on one of our old mines. The Kansas Lode, situated on Griffith mountain, was discovered by Mr. Geo. Griffith, who was emphatically the pioneer of this district, after whom Georgetown received its name. Georgetown was laid out in 1860, and is already becoming famous as the emporium of this rich silver region. Although he discovered the Old Kansas Ledge in 1859, he did not put it npon record until 1860. Four rich silver region. Although he discovered the Old Kansas Ledge in 1859, he did not put it upon record until 1860. Four hundred feet of this ledge, including the discovery, and No. I each way east and west, passed into the hands of Mr. John M. Hood, of New York, in 1864. This mine was known to all the pioneer prospectors, but in January last some parties, disregarding the rights of Mr. Hood, unfortunately for themselves, began to work upon it, and have proved it to be one of the best mines of Colorado. Upon examination to day 1 find that the to work upon it, and have proved it to be one of the best mines of Colorado. Upon examination to-day, I find that they have, at a depth of 35 feet in a drift 50 feet, a vein of "pay ore" which will yield from \$80 to \$500 per ton. One ton of this ore per man can be raised daily. This lode was thought to be a gold vein, and was sold as such; but, like all the mines of this district, it is emphatically a silver lode. You will allow me to say, for the encouragement of all those parties who purchased what they were led to believe was gold property in 1863-'4, and made such miserable failures because they mined for gold where it such miserable failures because they mined for gold where it never existed, that it they are still the fortunate owners of any of the prominent mines of this district, and desire to retrieve their losses, a few hundred dollars ?ndicionaly expended in deof the prominent mines of this district, and desire to retrieve their losses, a few hundred dollars ?ndicionally expended in developing their property for silver, can but prove satisfactory. I desire also that one of the most radical improvements that I have noticed in this country generally, is, that the nine owners have at last waked up to the truth that capital in the east is no longer to be drawn into a gold or silver speculation by the simple exhibition of a few ponnds of auriferous ores, and. acting upon this experience, they are going to work in earnest this spring to develop their own property, thereby showing their own confidence in their mines. They have also learned at last that if a mine has been proved to be of real value, its owners will not have to go peddling after capital, when that capital can be represented at the mine. The result of this change in the modus operand; of mining operations here will be a development of the mineral wealth of the country, during the coming summer, nuknown to the experience of the past five years, and that, too, principally by bome industry; for, in fact, the most important "capital" of any mining country possessing true merit is confidence in itself. Among the great wants of this particular region are "Dressing Works," to prepar ethe ores, so that they may be smelted with profit, the great advantages of which you will allow me to speak of more particularly hereafter.

DAVID T. GRIFFITH.

The Georgetown Miner, in the course of an article on "A Home

The Georgetown Miner, in the course of an article on "A Home Market for Ores," complains bitterly because the reduction works, which are offering remnnerative inducements to mine works, which are offering remnnerative inducements to mine cwners, are not kept supplied with sufficient ore to keep them rnnning steadily. It says that although it has been generally known for the past monih that the superintendent of the Georgetown Smetting Company was prepared to buy ores at remnnerative prices to the mine owner, yet, during that time, there have been delivered at the works only about 6 tons of ore, barely enough to keep them running about 36 hours. "We bave," it continues, "reduction works here now that are offering from 75 to 100 per cent, in currency for what the ore contains and carriers." continnes, "reduction works here now that are offering from 75 to 100 per cent., in currency, for what the ore contains, and cannot get enough to start on. We know of mines here that will yield from a quarter to a half ton of selected ore per day, that will run from \$300 to \$1,500 per ton, and we are not cognizant of any business or investment that will pay a larger return opprofit than raising ore and sellingfat the rates offered. There are men here who are doing all in their power to develop these mines, and raise ore for the market, but where we have one such there are a dozen who will do nothing." Not very cheering statements truly; but we are inclined to think that the Miner might have cited other reasons why the reduction works are not might have cited other reasons why the reduction works are not supplied with one more copiously than they are at present than the one which it gives. In this connection we will here remark that Messrs. Secor. Swann & Co., of the Manhattan Metallurgical Works of this city, are in receipt of several parcels of selected ore from Colorado and Montana, which, notwithstanding the cost of transportation, they say they are able to work so as to leave a handsome profit for the shippers..... Huepeden, Wolters & Co. bave become successors to Garrot, Martine & Co. In the reduction works hereofore conducted by that firm at Geograelous handsome profit for the shippers..... Huepeden, Wolters & Co. bave become successors to Garrot, Martine & Co. In the reduction works heretofore conducted by that firm at Georgetown. The Miner places before its readers the amount of ore treated, and the gross production of these works, commencing with the 6th of August last, and ending the 1st of April. It says: "During that time the works have run ahout seventy days, and have treated 166 tons, 1,300 lhs. of ore, from thrity-five different lodes. The capacity of the works is less than three tons per day, and some of the ore treated was beavy with galena and zinc-blende, while most of it was just as it came from the hands of the miners, many of whom were not experienced enough to distinguish mineral irom granite. The amount produced in the time stated was \$18.124 90 coin value, and may be summed up as follows: Number of lodes, 35; amount of ore, 166 tons, 1.300 pounds; silver, coin value, \$18,124 90. The result shows an average yield of \$108 79, coin value, per ton in silver. This we think will compare favorably with any silver region in the world. The works of Messrs. Garrot, Martine & Co. were projected on a small scale as an experiment, to see whether we had ore here that could be treated successfully without dressing or smelting. The result, as shown above, has been satisfactory, and these gentlemen deserve the thanks of our whole mining community for having solved the problem so thoroughly and so well. It only remains to follow up the lead made by the pioneer company, constructing works of large capacity on the same principle, and the future prosperity of our mines, so far as sulpburet ores are concerned, is secured beyond a doubt. Works of quadruple the capacity could be run with trifling additional cost over what the company has been obliged to pay. If any man with capital to invest has faith in the product of these mines, let him demonstrate has been obliged to pay. If any man with capital to

from the U.S. Coin lodes in the Georgetown Smelting works, scarcely a specimen of which does not show rnby silver. Mr. France has sent a specimen to the office of the Brown Co., in Philadelphia..... The east shaft on the Nicholls' lode is now down 100 feet, carrying an ore vein, 20 inches in width, of sulphinet of silver and galena ore. Some little atephanite, or brittle silver, is found in portions of the vein.....Mr. Kirland has shown us a button of silver weighing 35½ ounces, taken from 500 pounds of ore from the Young America lode. This gives a yield of \$189 20, coin value, per ton, currency, \$248 28, and is 89 per cent of the fire assay. The Cherokee lode, situated near the foot of Republican mountain, between the npper and lower town, is now being worked. An adit is being driven on the vein, now in about twenty feet, showing the crevice to be four feet in width, carrying a fine quality of quartz...... Hnepeden. Wolters & Co. shipped by Wells, Fargo & Co., on the 17th April, 166.25 onnees silver, 749 fine, coin value, \$161. The ore was from the Big Indian lode, and the amount saved was 80.37 per cent. of a fire assay..... Active mining operations will soon be resumed by the Colorado Gold and Silver company, in Peru district..... We call the following items of news from the alles of the Central City Herald to the 27th nlt.:—Mr. J. O. Stewfrom the U.S. Coin lodes in the Georgetown Smelting works 80.37 per cent. of a fire assay Active mining operations will soon be resumed by the Colorado Gold and Silver company, in Peru district We call the tollowing items of news from the ales of the Central City Herald to the 27th alt. :—Mr. J. O. Stewart made a test run of 150 lbs. of Munsell ore, last week, from which he obtained 524 oz. of pure silver, worth in coin \$70.87\, or in currency, \$88.60. The cost of treatment was \$37.50, which leaves \$51.10 for the miner. This shows a profit of nearly \$500 per cord (as we used to count it), after paying the highest price, which is unfavorable at present. Mr. Stewart intends putting up a roasting and reverberatory smelting furnace, in the course of a month. The capacity of his works will then be one ton and a half per day, and he will be able to smelt ores at a reasonable figure. He guarantees now to take out ninety per cent. of the silver contained in the ore, and will allow the miner to have the silver obtained from his ore, which is altogether more satisfactory silver contained in the ore, and will allow the miner to bave the silver obtained from his ore, which is altogether more satisfactory than to receive its value in greenbacks. With his small works he has now always enough ore on hand to keep him running for two weeks. There is little doubt but he will make a success of two larger works......The owners of the Winnebago lode, which is situated on Leavenworth mountain. a short distance above Georgetown, are paying \$200 per ton for mining and raising the ore to the surface. This is an enormous price, but the exceeding richness of the ore justifies them in paying it. The miners who are at work on the lode are making good wages.....Mr. Miley has started up the elight-stamp water mill belonging to E. W. Holbrook, North Clear Creek, on ore from the Bates or Hunter has started up the cight-stamp water mill belonging to E. W. Holbrook, North Clear Creek, on ore from the Bates or Hunter lode for John Sanderson. This claim has opened out into a good body of iron Ore from No. 11, Gregory lode, is being hauled to Gregory No. 1 stamp mill. This mill will be started up this week..... Woodbury & Co. have a torce of hands at work putting twenty stamps into the old Eagle mill. just above the Black Hawk milt. When completed it will be one of the finest custom mills in the Territory. The motive power will be water..... Last week Messrs. Moores & Myers run two cords of Bates ore through the Wilson mill, for Messrs. Champion & Smithern, lessees of the Cowenhoven claim, from which they retorted twenty ounces gold. The ore was taken from the sides, or walls. It had been considered by parties who herelofore worked this claim as

supposed to be wall rock is rich ore and will pay largely by crushing.....Mr. Field is about to start up his mill above Black Hawk. He will run on his own ore from the Bobtail lode. He always made it pay, and doubtless will do so again....Messrs. Harvey & Frazier had assays made at the Territorial Assay Office yesterday of average ores from the property on the Gregory, worked by them. The result was \$52.24 in gold, and \$15.79 in silver, or a total of \$71.03 per fon, of 2,000 lbs. The ore contains considerable copper also.....A certificate of two assays has been handed to us by Mr. Scarff. One is of ores from the Lord Byron, which gave \$189.65 per ton of 2.000 pounds in gold, and \$63.44 in silver. The other is from the Queen Victoria lode, and gives \$44.94 in gold, and \$23.85 in silver. The former is in Nevada district, and the latter in Eureka..... The Denver Newsays:—Mr. Charles Slade, from Granile district, informs us that the two shafts on the Hattie Jane lode are respectively sixty and seventy-five feet deep. Drifting has been begun. On the Yankee

Arizona.

We last week gave an account of the La Paz and Wickenburg We last week gave an account of the La Paz and Wickenburg mines from the correspondent of the San Francisco Bulletia. A second letter from the same source, dated at Los Angelos, Cal., tells of the doings around Weaverville and Prescott. The writer says: From Wickenburg, distant twelve miles, yon come to Weaverville, (this is situated on the road to Prescott,) where from 1863 to 1866 was a very large and thriving mining town, containing several hundred men, but now the mines are only worked by 60 miners. I was told they were doing well. The miners have built a ditch, from which they are supplied with water. Antelope peak, at the base of which is built Weaverville, is a most remarkable peak, from the fact that on its highest point, which is not very flat, some miners dug out with knives and hammers, and then afterwards worked some of the locse gravel (for there was not much.) by the dry process, and made, some say, \$1,000,000. The lowest estimate I heard was that they took out \$500,000 in gold. This peak must be several thousand feet above the level 000. The lowest estimate I heard was that they took out \$500,000 in gold. This peak must be several thousand feet above the level of the surronnding plains, and when we passed over the trail the top was covered with snow, as was most of the mountain. What is most singular, no other peak in the vicinity has been found to bave gold. From Weaverville to Prescott you find a great many quartz bonders; indeed, every few yards you travel over you find more or less quartz rock. Yon pass through no other town before you arrive at Prescott. Many of your readers have doubtless travelled through Mariposa; if so, they will be astonished when I inform them that around Prescott, and extending in the west and southwest as far as I went, there is more quartz rock floating on the surface of the ground than there is in Mariposa, and as to the number of ledges there is no telling, or can I give an adequate idea. Suffice it to say, that in all the districts you can find a ledge every few yards, and what is more, from all, with the exception of a few monstrons large ones, you can get a good and as to the number of ledges there is no telling, or can I give an adequate idea. Suffice it to say, that in all the districts you can find a ledge every few yards, and what is more, from all, with the exception of a few monstrons large ones, you can get a good prospect of gold. Three miles from Prescott, in a southeast direction. Is a mountain or peak of quartz. It is probably 300 feet in diameter, but none of the rock has any gold in it, so far as the out-rock shows yet, though no one has sunk into this mountain. It is called the father of the ledges. Before I describe any of the ledges which I have visited, I wish first to speak of Prescott and the surface mines. Prescott is situated near the 35th parallel, about the centre of Arizona. The surrounding country is covered by large pine trees, and there were, at least when I was there, several running streams of water. The town contains about 500 inhabitants, all Americans, and a great many families are living in the town. The bouses are built of wood, and there are a good many stores. The town boasts of one weekly newapaper, the Arizona Miner, which is the best edited paper I have seen in the Territory. There is one saw-mill, which is run by steam and kept bnsy nearly all the time, as at the time I was there, there was a great demand for lumber. There are two grist-mills, both running by water power. The valleys are many, some being farmed and others not. The farmers this year have or will put in nearly 10,000 acres of land in corn, wheat and barley. The placer mines around Prescott are quite extensive. Most of the miners are mining on Walker's or Sioux creek; near its month is a bydranlic claim said to be paying finely. On Granite creek there are a great many at work, also on Turkey creek and in the Big Bug creek. The miners are said to be making from \$8 to \$16 per day. I visited quite a number of ledges about Prescott, and found them very large, varying from five feet to ten feet in width. No ledges were being worked upon but the Eugenia ledge is situated company has been obliged to pay. If any man with capital to linvest has faith in the product of these mines, let him demonstrate that faith by the erection of reduction works, and his reward shall be large and sure......Messrs. Goss & Co. have been engaged sinee last fall in prospecting for and developing the lodes of the group," says the Miner, "are galena-bearing, although but few for them have been developed to sufficient depth to define the sion that this belt is the largest, and carries more true fissure veins than any other portion of our district, taking into consideration the quantity of ground over which they extend. It is the determination, we believe, fo continue active operations throughout the coming season.".....The same paper has the following news litems of date April 16: There are about three tons of oze of the same independent of the mine and stating in the same paper has the following daga lode near Dogtown, discovered yesterday that what they lived in the mill. The Chase ledge is being worked, and the mill.

""". The Ni-wot company recently discovered that a large vem of ore had been left standing on one wall of their mine and commence daking it down, shortly atterward a scale of fitteen feet more caved in from the same side, revealing another large and sure.....from the same of ore, which the nill has been set at work crushing. No granite walts have yet been found, and other veins of the ledges, run into sulphurets. The Sterling ledge or the rest of the ledges, run into sulphurets. The Sterling ledge or the rest of the ledges, run into sulphurets. The ledge is probably the richest gold ledge on the recting a stamp mill on the Winebago, to crush all the rock, which is rich, but I suppose it will, like all the rock, which is rich, but I suppose it will, like all the rock, which is rich, but I suppose it will, like all the rock, which is rich, but I suppose it will, like all the rock, which is rich, but I suppose it will, like all the rock, which is rich, but I suppose it will, like all the ro 39 pounds of quicksilver. What became of the lost quicksilver is a puzzle. Some say it was granulated; others say that it was ground so fine together with the fine gold that it floated on top of the water in the settler, and floated off with the water. The Chance ledge is a silver lode; it is about 4 feet wide. Some of the rock was worked (3 tons) at the Sterling mill by Wm. Reed, which paid over \$200 to the ton. The Bully Buena ledge, it is rumored, will also shortly be worked again. This company have a twenty-stamp mill at their ledge. It is said their ore is free gold, while all the others, except the Chase, are sulphurets. There is no use for me to attempt to enumerate the ledges, for there are thousands, and all are said to be good by expert judges; but, owing to two very grave facts, they are not worked, because no one understands how to reduce sulphuret ore and no one has any money. I think here is as fine a chance as ever presented itself to capitalists who wish to invest in mines to operate, for they can make their own terms. There is no doubt of the mines paying. One can now make the irip in safety, as a stage line has been established between here and Prescott, and no one is liable to run any risk of being killed by the Indians, as the stages in the Indian country will be protected by soldiers, and a person can make the trip at comparatively little expense. For the benefit of those who wish to go, I will mention that the mountains of Prescott are covered by very large pine trees, and water necessary for running a mill can be had anywhere (I mean a steam mill.) Game abounds in great abundance, such as deer, antelopes and wild turkeys, and fine fishing can be found in most all the creeks in the large valleys. One going to Central Arizona will be astonished at its beauty and the many advantages it possesses for sustaining a very, very large population. The military are making great preparations to couquer the Indians, so as to drive them on reservations; and from the character of the Gene 39 pounds of quicksilver. What became of the lost quicksilver is a puzzle. Some say it was granulated: others say that it was ral (Devons) left in command, and from the preparations already being made, I am fully justified in saying that, with the aid of a few more horses and cavalrymen, the Indians will he forced on reservations hefore another winter.

Washington.

The Olympia Trascript says: "It has always been believed by those hest acquainted with mineral regions, that the western portion of our country known as the Black Hills abounds in mineral wealth. The aspect of the country shows this, and what little prospecting has been done has proven that there is more or less of the precious metals in most of the streams and gulches. No of the precious metals in most of the streams and guiches. No large deposits have been found, nor do we look for any intil a thorough exploration of that region. Different kinds of mineral-bearing rock have been picked up at different times. Last summer, a gray mineral-bearing rock was found in several places which is believed to contain copper. Specimens of nearly pure copper wero found in the streams to the west, heading in the Olympic range and emptying into the Chehalis, a few years ago. These streams are undoubtedly tich in other metals.

Oregon.

The Jacksonville Sentinel of March 7th is "informed that the claim of McDaniel and Therman, at Sterlingville, is averaging \$20 per day to the hand, without any prospect of giving out yet. The claim of Johnson & Co. is paying an ounce per day to the hand. Messrs. Kleinhammer and Mentz are taking out good pay—shout \$10 per day to each man, and the well known claim of Saltmarsh & Co. is panning out as usual, and its owners geiting rich fast. Sterling is by far the richest mining camp in Oregon."

....There has lately been discovered valuable placer and quartz mines in the Pocahontas range of mountains. Capt. Coffin, just from the Ruckle milt and mine. brings flattering reports as to mines in the Focanonias range of mountains. Capt. Coffin, just from the Ruckle mill and mine, brings flattering reports as to their success, as well as of the mines on Burnt river. Good reports continue to be received from Willow Creek—new discoveries being made every day. At Canon City times are dnll Aniner on Cayote Creek, hetween here and Canyonville, found a nugget of gold in his claim weighing a little over 16 ozs., and worth \$273 50.

Minnesota.

A letter from Vermilion, under date of the 18th ult., says: "Vermilion is looking up. I was shown to day, by Col. Tyndal, a lump of silver as large as a half onnce bullet, the yield of three pounds of rock. The Colonel has got his goods and machinery in, and has commenced to collect rocks from the different veins. An ounce of pure silver is worth \$1 29 in coin, consequently the average value of each of the three pounds of rock treated, is upwards of 21 cents—making the yield per ion over \$421."

New Mexico.

A correspondent of the Colorado Register says that there are about two thousand people in the Cemarron mines at present, and that more are coming daily. There has been about thirty miles of gulch claims taken np within a scope of country of five miles square. Outside of this no prospecting has been done, says

Canada.

Prof. James T. Bell writes in the Madoc Mercury to make some further explanations in regard to the Empire ore exposé, which continues to excite the minds of the good people of that locality. After complimenting the editor of the Mercury on the honorable course he pursued in bringing the thing to light, which conduct, hy the way, we most heartily endorse as being consistant with the nltimate good of all persons interested, he proceeds to say:— But although it is indeed much to be regretted that the parties concerned should have so far lost confidence in the value of their concerned should have so far lost condence in the value of their ore, as to lend themselves to such a questionable transaction, yet their folly, to give it no harsher name, cannot affect the value of the mine, as the analytical assay of Dr. T. S. Hunt places that beyond a doubt; the specimens operated on by him having been taken from the shaft by himself; while his results exhibit a close coincidence with those obtained by myself, three months before his were made public, indeed before Dr. Hunt had seen the mine at all, to which I believe I was the first to direct his attention. My first trial gave a gross value of \$483 per ton, but suspecting some loes from an imperiect crucible, I proonted a second sample of the ore, which gave a result of \$497 per ton of clean dressed ore. Dr. Hunt's assay of ore, three-fourths purified, gave \$362.20, from which he calculated the value of the pure ore, t. e., when clean dressed, at about \$500 per ton—a remarkable coincidence. The only point then to be determined is the quantity of ore which the mine is capable of affording. From all I can learn, I am inclined to think that on this score there is nothing to be feared. A number of small veins of pure ore have already been discovered to make an average thickness of fourteen inches, and a single vein of grey copper, bearing one and a half per cent. of ore, as to lend themselves to such a questionable transaction, yet a single vein of grey copper, bearing one and a half per cent. of silver, constitute a good paying mine. I hope to have an early opportunity of making a personal inspection of this interesting deposit, when I shall probably trouble you again with my remarks. I thoroughly agree with your proposal of an assayer's license, such license to be granted only on examination by competent paths with a such that can be appropriately an any proyen misconduct. license, such license to be granted only on examination by competent authority, and to be causelled on any proven misconduct on the part of the holder. I hope, however, that a School of Mines will soon be established by the Dominion Government, which will supply a sufficient number of competent persons to conduct assaying, mining, and reducing operations throughout the Provinces. . . . Mr. E. J. Chapman, Professor in the University College, Toronto, writes to a paper of that city, saying that he

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has found gold in certain specimens of galena and copper pyrites occurring together in well-defined veins, in the region of Black Bay. Iying between the Neepigon river and Thunder Bay, on the north shore of Lake Superior. He collected the specimens personally, in tracing out some of these veins last summer. Caree fully repeated assays have yielded amounts of gold, varying, perton, from fifteen to nineteen dwis., the mean being 17 dwts. 12 grs., with rather more than two ozs. of silver. These results obtained, it will of course be understood from surface specimens only, and from specimens entirely destitute of "free" or visible gold, show a value of nearly \$21 per ton, irrespective of the large amount of lead and copper present in the ore. The rocks are identical, in general age, with the gold bearing rocks of Nova Scotia, but different from those at Madoc. Mr. Chapman attaches much importance to the discovery..... In consequence of what the Superior (Wis.) Gazette calls the "ontrageous mining act," lately promulgated by the Canadian Parliament, the Shuniah Mining company, engaged last season in mining and prospecting at Current river, at a recent meeting held in Cincinnati, "Resolved, that we suspend our contracts for machinery, and all other improvements, at once; and stop all our mining operations on Thunder Bay, District of Algoma, Province of Ontario, in the Dominion of Canada, so soon as we can communicate with the superintendent of our mines." The passage of this resolution means the suspension of operations in the silver district, by the Shuniah company. Shuniah company.

British Columbia.

British Columbia.

We have Victoria dates of March 24th. From the Colonist we glean the following: "Last year the Colony produced \$250,000 more gold than during any previous twelvemonth, and the yield of agricultural produces of every description exceeded by four fold that of the preceding year. Nanaimo, during 1867, sent away \$39,000 worth of gold more than she did in 1866, and the shipments of the same place for the month of February exceeded those of any single month since the mine was opened..... The winter was very severe at Kootenay, and, consequently, little mining was being done. At Rock Creek and Osoyoos Lake, the weather had been very severe, and stock had suffered in consequence. Mining operations on Rock Creek and the Semilkameer had been suspended in consequence of the severity of the weather. The snow was very deep on the mountain trail..... The news from Carihoo is to the 23d of February. The weather had undergone a very decided change, the snow was melting, giving a supply of water for mining purposes, and work had been resumed on many claims on William Creek. Amongst those working were the Bald Head, Hit or Miss, Welch Cariboo, Lillooet, (struck a prospect of \$20 to the pan,) Neversweat, (making good wages,) Caledonia, Morning Star, (struck a prospect of \$9 to the pan, with pay-dirt ten feet thick.) The Cariboo Company expected in ten days to reach the lead where they took out 190 ounces to one pick in a week when driven out by water. On the evening of the 22d the news reached William Creek that on Canadian Creek a prospect of \$1 to the pan had been struck. On Mosquito, the Minnehaha and Willow continued to yield as usual. The weather was very mild in the middle country, and farmers had begun to plough on the Lillooet district."

Mexico.

Mexico.

Files of lale Mexican papers furnish the following items of news:—Large gold deposits have been found on the river Coatlan, near the village of that name, and companies are forming for working them. The Indians of the neighborhood are docile, and readily offer their lahor. Coatlan is about seventy miles from Oaxaca, which is the nearest large town. At Tetela del Oro much gold has also been discovered..... There are now four hundred natives at work in the placers of the Chihnahna gold district, each earning, by the rudest possible methods, at least five dollars a day. An influx of American miners is expected, with improved machinery. Chihnahna can be reached in fourteen days from New York, by way of Denver, Santa Fé and Paso del Norte..... Mexican papers announce weekly the departure from the capital towards Vera Cruz of a conducta, or specie guard, with sums varying from half a million to five million dolars. There is clearly much money in the country, notwithstanding the reported baukruptcy of the government......Ground has been broken this month for the railroad between Tuxpan and the city of Mexico. An American company, with a capital of \$25,000,000, have undertaken the work. Work on the railroad from Vera Cruz to Mexico since the deposition of Maximilian has heen very slight, but recently a company, consisting of Vera Cruz recently with landed proprietors along the line has been from vera Cruz to Mexico since the deposition of Maximilian has been very slight, but recently a company, consisting of Vera Cruz merchants, with landed proprietors along the line, has been formed, to continne it, if the Mexican Congress does not confirm the concession granted by Juarez last November. The necessary bridges between Mexico and Puehla are now bnilding. Under the anspices of Mr. Plumb, United States Minister to Mexico, a society has been formed in the city of Mexico for the aid of Americans who may chance to be there in distress. The French, Swiss and Selgian residents of Mexico has restricted. Americans who may chance to be there in distress. The French, Swiss and Belgian residents of Mexico have united also to form a similar society. A telegraphic line is proposed between the city of Mexico and New Orleans. The work has been taken in hand chiefly by General Escobedo. A submarine cable between Vera Cruz and Cuha is urged by the Mexican press.

Nosatzguaf

The Panama Star & Herald informs us that the directors of the Javali company, operating in Chejantz District have appointed a new commissioner, who bears as being at the immunity leading having had sixteen years practical experience, is thoroughly ac-The French

a new commissioner, who bears at highlid thin the having had sixteen years practical experience, is thoroughly acquainted with every branch of gold mining. It is important to know, it continnes, that the directors are taking decisive measures for placing the management on a footing that shall ensure every consideration for economy in the expenditure, as well as far more regularity in the remittances from the mines. There seems good reason to hope that a most beneficial change will speedily result. The first report from the newly-appointed commissioner upon the several mines, and also upon the practical effectiveness of the erected machinery, will be looked forward to with considerable interest. This will be received about April or May.

Africa.

Gold discoveries are reported in new regions of South Africa. The Natal papers say that two large gold fields have recently been discovered—one near the Zambesi river, and the other about nine handred miles northwest of Natal. The latter gold field is said to be sixty miles long and twenty broad, and gold is found

COPPER.

Michigan.

Michigan.

The National mine for the month of March produced as follows: Stamps, 21 tons, 220 lbs.; mass, 2 tons, 1,919 lbs.; total. 24 tons, 2,169 lbs. The Pittshurg & Boston Co.'s Cliff mine as follows: Mass, 66 tons, 580 lbs.; batrel. 22 tons, 1,416 lbs.; stamps, 26 tons, 1,007 lbs.; total, 115 tons, 2,003; and the Calmet, 57,745 tons ... The Gazette, April 23, says that at the Huron mine about 170 men are employed in all the departments at present. Everything in the various mills is working quite satisfactorly, especially in the Stamp mill, which is in better condition than at any previous time. The mineral obtained in March was about 15 tons, but will probably be reported with the April prodnet.... On Monday the underground force of the Isle Royal struck for higher wages, but the matter was settled the uext day

Colorado.

The Georgetown Miner. of April 16, says that an assay of a specimen of copper ore from Coal Creek, Jefferson county, gave a return of 32 per cent. pure copper. The assay was made for Dr. S. B. Morrison by Messrs. Burlingame & Moor, and was an average of nine feet of the crevice. The lode was discovered two years ago, but was not developed till last season. It is called the Partridge lode.

Montana.

The news from the Beaver Town copper mines, as chrouicled in the Montana papers, is truly encouraging. A ledge from twelve to fitteen feet thick is well defined, and beyond doubt very rich, the average ore containing nearly ninety per cent. of pure copper. The Herald adds: "This is an unprecedented yield, but is nevertheless a fact. Boulders of solid native copper, weighing from ten lo fifty pounds, have been taken out of the shaft."

MISCELLANEOUS.

Maine.

"The extent of the undeveloped territory of Maine can hardly be appreciated except by travelling through it," says the Boston Commercial Builetin, in a lengthy article on the resources of that State. Away in the depths of the wilderness of Piscataquis, Penobscot and Aroostook counties, it continues, lie the rich primeval treasures of the forest and mine. This undeveloped region, extending up, between New Brunswick and Canada East. to nearly the 48th parallel of north latified, possesses a soil of great fertility, which, when cleared, produces abundant crops with very little enlitivation. Indeed, the Madawaska settlements, about the headwalers of the St. John, are destined to become the garden of Maine. Among its mineral resources have already been found iron and slate in great abundanoe—the former coming to us in the shape of the finest charcoal pig metal, and the latter to us in the shape of the finest charcoal pig metal, and the latter cropping out in inexhaustible quarries, of a quality much superior to that imported from Europe. Traces of the precious metals, including gold and silver, have also been found in the mountainers district and it is highly nearboally that for the contraction. ons district, and it is highly probable that further geological re-searches will result in the discovery of coal. These mineral de-posits are now worked at a great disadvantage and npon a small scale, from the fact that their products have to be transported, at great expense and labor, over rough wagon roads, to the various shipping points. But when the lines of railroad now projected, diverging northward from the Main Central trunk, and piercing the npper tier of counties, shall have been huit, these products the control of the con will yield a much larger profit to the miner, besides being lald down in the markets in greater abundance and at less cost.

Colorado.

The coal question which has had an important bearing upon onr railway interests, says the Denver News, seems to be definitely settled. There is now no doubt but that enough of this article exists on the present line to warrant no further fear on this subject. On Saturday evening Gen. Pierce stated to the Board of Trade that, heside the vein of thirty-one inches discovered near tort Dupton on the Platte, there were also two veins on the Cache la Pondre, near our railway line. One of these veins was four feet thick and the other was ahont eighteen inches. Some one who had been working there, said it was nine feet thick, but for this statement there was, as yet, no certain evidence. The existence, however, of coal in such quantities on the line, settles the railroad question definitely.... The Salina Heraid says that, in digging a well on the east side of the Smoky Hill river, less than two miles from town, a vein of good biluminons coal, eignteen inches thick, and ahont twenty feet below the surface was dug through.

Missouri.

The Yeoman says: The company who are now working the Hazelwood Lead mines take up from 800 to 1,200 pounds of ore the transparent of these mines is very fine; and if the would no doubt raise three or four times the amount of mineral they now raise. Col. George L. Childress, late of the Yeoman, is now engaged with the company in working these mines. He informed us last Monday that they would have their smetting machine in operation by the last of this week. There is no doubt that there is an almost inexhansithle amount of mineral in these mines. Capital is all that is wanting to develop this great source mines. Capital is all that is wanting to develop this great source of wealth. There are lead prospects in other parts of Webster county; but we can have no hope that any more mines will he opened until capital is brought to the country.

California.

The Napa Register has the following in regard to the quicksilver mines in that county: The quicksilver excitement is awakening somewhat. The machinery for the Washington and Valley mines, which has been lying in Chiles' cañou for the last six weeks on account of the bad roads, we got under way on Monday, and by this time is likely being put in working order. The reports from the Star company's ground, at Pine flat, are very flattering, and it is hoped that the company will soon commence work. A very few weeks will find a large number of men at work in the different claims, and unless all signs fail, Napa will become as noted for its quicksilver yield as it is now for its wheat and babies.

Cerium.

This metal has lately been separated by Woehler from the double chloride of cerium and potassinm by means of sodium. Formerly it was prepared by subjecting pure protochloride of cerium to the action either of potassium or sodium. Cerium is found in comparatively rare minerals, and generally associated to the social s ated with the metals lanthanum and didyminm. Cerium tarnishes in air at ordinary temperatures, and displaces hydrogen in boiling water. The pure metal is therefore valueless, except as a reagent. It forms numerous oxides and salts, none of which have, as yet, been much used in the arts. Cerium has a darker blue than lead, and is only about one half as heavy.

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MARKET REVIEW	Previ
FRIDAY EV	ENING. May 8, 1868.
Gold and Silver Stocks.—The market exhibits but stocks are without material change since our last. Som	s little lije. Nevada s Colorado stocks are
a shade stronger. Prices are thus quoted at the mining begin in the Bid. Asked. Alameda Silver 60 1 00 La Crosse Gold	Bid. Asked. lbg.
American Flag 30 50 Liberty Gold	110 00 140 00 Ti
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Gunnell Union	Gold 2 25 2 35 Ex
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Hope Gold 20 Burroughs	
Keystone Bilver — — Vanderburg G	75
Copper Stocks.—Davidson is stronger, and is quoted as the seiling price for Ogima. Prices at the board rule Caledonia C—— 10 00 Hiiton	na Calloura :
Davidson 42 Minnesota	3 50 4 50 1
Charter Oak. — 1 00 Ogima	4 00 5 00 I
Benneboff Run 1 00 1 40 N. Y. and Allegh Brevoort 50 Pit Hole Creek	Bid. Askd'. *In
Buchanan Farm 88 431Rathbone Oil Trac	t Co I
Manhattan	1 65 1 70 3 50
Miscellaneous Stocks,—Quicksiiver Mining is quote Centrai 129%; Erie, 69%; Reading, 91%; Michigan S	1 at 32¼; New York Southern, 84¾; Rock
Columbia. 70 1 50 Sberman & B. Columbia. 8 1 United Pet. Farm Manhattan. 1 50 United States. National 1 00 3 00 Union. Miscollaneous Stocks. Quicksilver Mining is quote Central 1 29%; Erie, 69%; Reading, 914; Michigan Sialand, 944; Facibe Mail, 483; Westera Union Telegrapress, 614, 461%; American, 61; United States, 606,61 22%, 22%; Merchanta' Union, 35 per cent., 31% 0313; 22c.: Rutland Marhie, 516.	oh, 38%; Adams' Ex- ; Wells, Fargo & Co.,
Government Stocks are quite firm, with little den ment. Prices are quoted to-day as follows: U. S. 6s. 1881. compon.	
ment. Prices are quoted to-day as follows: U. S. 6s, 1881, compon. U. S. 5-20s, 1862, coupon. U. S. 5-20s, 1862, coupon. U. S. 5-20s, 1865, coupon. U. S. 5-20s, 1985, conpon. U. S. 5-20s, July, 1865, coupon. U. S. 10-40s, conpon. U. S. 7-30s, July, large. U. S. 7-30s, July, large. Foreign Exchange is firm on the basis of 110% optime handers' sterling. In some instances good bar offered at 110%, The following are the current rates:	108 %@108 % pig ir 106 %@106 % nock
U. S. 5-20s, 1865, conpon	106 @107 % RAI 109 % @109 % havir
U. S. 5-20s, Jniy, 1867, conpon U. S. 10-40s, conpon	109%@109% tons of raiss
U. S. 7-30s, July, large.	107%@107% on pr 107%@107% Bar
prime handers' sterling. In some instances good bar offered at 110%. The following are the current rates:	kers' sight hills are Pig
prime hancers' sterling. In some instances good bar offered at 110½. The following are the current rates: London, (prime bankers') 60 days'. Londou, (prime bankers') sight. London, prime commercial. Parts, (bankers') long. Parts, (hankers') short. Antwerp. Swiss. Hamburg (bankers'). Swiss. Hamburg (bankers'). Prankfort (bankers'). Prankfort (bankers'). Berlin (bankers'). Berlin (bankers'). Gold continues steady at 129½@139¼ at merican silver is in moderate demand at 6@7c. bel	110%@110% 45 pe 110%@110% in mo
London, prime commercial	5.12½@ — been
Paris, (hankers') short	5.10 @ — Pig
Hamburg (bankers')	5.15 @5.12% factu 36%@36% Fo
Frankfort (bankers')	41 % (41 % pond sents 79% (880 % s
Berlin (bankers')	71%@72 to th
American silver is in moderate demand at 6@7c. bel Mexican dollars are still quoted at 103%@103% in gold.	ow the price of gold. been
Mexican dollars are still quoted at 103½@103½ in gold. The money market has an easier aspect. The bank more freely this morning, and the transactions on call	a are offering money distr
	at 6 per cent. are be-
more freely this morning, and the transactions on call coming more general, but 7 per cent. is still the predom The discount market is less active. Prime paper pass	at 6 per cent. are be-
The discount market is less active. Frime paper pass per cent. There is a diminished supply of the better gi indications are that money will be more freely offered	at 6 per cent. are be- inant rate. es readily at 6 % @ 7 % rades, and the present
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The discount market is less active. Prime paper pass per cent. There is a diminished supply of the better gindications are that money wiil he more freely offered scarcity of paper. The following will show the exports of specie from the the week ending May 2, 1868: April 27—Brig L. & W. Armstrong, Fonce—American silver. April 27—Schooner C. C. Bearse, Fonce—American silver. April 28—Steamer Teutonia, Hamburg—American gold. Silver bars. April 29—Steamer Teutonia, Hamburg—American gold. For Havre—American gold. For Havre—American gold. April 30—Steamer Hermann, Bremen—Foreign silver. American gold. For Paris—Silver bars. Bullion. April 30—Steamer Percire, Havana—Sapanish gold. May 1—Steamer Virginia, Liverpool—Gold bars. American gold. Gold bars. American gold. Gold bars. Foreign coin. Foreign silver. American gold. May 2—Steamer Percire, Havre—Gold bars. Foreign coin. Foreign silver. American gold. May 2—Steamer City of Baltimore, Liverpool—American gold. May 2—Steamer Missouri, Havana—American silver. Total for the week. Previously reported. Total since January 1, 1868. Same time 1866. Dr. H. R. Lindeman, Director, furnishes the following and coinage at the United States Mint during the month DEPOSTES. Gold deposits. Silver deposits and purchases. Total deposits and purchases. Total deposits and purchases. Total comage. Gold coinage. Gold coinage. Gold coinage. CORMAGE. Gold coinage. Gold coinage. 2, 712,0 Total. "Our domestic money garket exhibits renewed act vices from San Francisco, dated April 14: "Our domestic money garket exhibits renewed act vices from San Francisco, dated April 14: "Our domestic money garket exhibits renewed act would be per cent. per month as being the figure at we quoted the per cent. per month as being the figure at we quoted the per cent. per month as being the figure at we quoted the per cent. per month as being the figure at we quoted the per cent. per month as being the figure at we quoted the per cent. per month as being the figure a	at 6 per cent. are bemant rate. s: sadily at 6 %@T/s s: sadily at 6 %@T/s ades, and the present on call, owing to the port of New York for 10,000 15,000 152,458 turner of 65,000 100,000 565,000 100,000 77,000 1,200 25,000 46,000 200,000 84,000 200,000 80,448 5,220 229,592 1,500 30,000 80,943 4,840 5,228 \$2,81,938 \$2,81,811 20,899,947 \$22,821,938 \$3,342,811 20,399,047 \$22,821,938 \$2,831,811 20,399,047 \$22,821,938 \$2,831,811 20,399,047 \$22,821,938 \$1,500 \$20,656 13 \$3,322,484 72 \$21,840,965 32 \$21,147,900 48,835 689 \$306,699,75 \$60llowing financial advity, the result of lete requirements. We bicb the savings and letter of the requirements. We bicb the savings and letter of the requirements. We bicb the savings and letter of the requirements. We bicb the savings and letter of the requirements. We bicb the savings and letter of the requirements. We bicb the savings and letter of the requirements. We bicb the savings and letter of the requirements. We bicb the savings and letter of the requirements. We bicb the savings and letter of the requirements. We bicb the savings and letter of the requirements. We bicb the savings and letter of the requirements. We bicb the savings and letter of the requirements. We bicb the savings and letter of the requirements. We bicb the savings and letter of the requirements. We bick the savings and letter of the requirements. We bick the savings and letter of the requirements. We bick the savings and letter of the requirements. We bick the savings and letter of the requirements and letter of the requirements. We bick the savings and letter of the requirements and letter of the requirements are the requirements. We bick the savings and letter of the requirements are the requirements are the requirements are the requirements are the requirement of the requirements are the requirement of the requ
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The discount market is less active. Prime paper pass per cent. There is a diminished supply of the better gindications are that money wiil he more freely offered scarcity of paper. The following will show the exports of specie from the the week ending May 2, 1868: April 27—Brig L. & W. Armstrong, Fonce—American silver. April 27—Schooner C. C. Bearse, Fonce—American silver. April 28—Steamer Teutonia, Hamburg—American gold. Silver bars. April 29—Steamer Teutonia, Hamburg—American gold. For Harte—American gold. For Harte—American gold. April 30—Steamer Hermann, Bremen—Foreign silver. American gold. For Paris—Silver bars. Bullion. April 30—Steamer Hermann, Bremen—Foreign silver. American gold. For Paris—Silver bars. Bullion. April 30—Steamer Hermann, Bremen—Foreign silver. American gold. Gold bars. April 30—Steamer Lagle, Havann—Spanish gold. May 2—Steamer Previer, Havre—Gold coin. Gold bars. American gold. Gold bars. Foreign coin. Foreign silver. American gold. May 2—Steamer City of Baltimore, Liverpool—American gold. May 2—Steamer City of Baltimore, Liverpool—American gold. May 2—Steamer Missouri, Havans—American silver. Total for this week. Previously reported. Total since January 1, 1868. Same time 1866. Dr. H. R. Lindeman, Director, furnishes the following and coinage at the United States Mint during the month DEPOSTES. Gold deposits. Silver deposits and purchases. Total deposits and purchases.	at 6 per cent. are bemant rate. s: sadily at 64/607/6 adds, and the present on call, owing to the port of New York for from 15,000 15,000 16,000 16,000 16,000 16,000 25,000 46,000 25,000 46,000 220,500 30,000 80,443 48,400 200,000 80,843 48,800 220,500 80,843 48,800 220,500 80,843 48,800 220,500 80,843 64,800 200,000 80,843 64,800 200,000 80,843 64,800 200,000 80,843 64,800 200,000 80,843 64,800 200,000 80,843 64,800 200,000 80,843 64,800 200,600 80,843 64,800 200,600 80,843 64,800 200,600 80,843 64,800 200,600 80,843 64,800 200,600 80,843 64,800 65,200 113,700 60,000 80,843 60,000 80,843 60,000 80,843 60,000 80,843 60,000 80,843 60,000 80,843 60,000 80,843 60,000 80,843 60,000 80,843 60,000 80,843 60,000 80,843 60,000 80,843 60,000 80,843 60,000 60,000 80,843 60,000 60,000 80,843 60,000 60,000 80,843 60,000 60,000 80,843 60,000 60,000 80,843 60,000 60,000 80,843 60,000 60,000 80,843 60,000 60,000 80,843 60,000 60,000 80,843 60,000 60,000 80,843 60,000 60,000 80,843 60,000 60,000 80,843 60,000 60,000 80,843 60,000 60,000 80,843 60,000 60,000 80,843 60,000 60,000 80,843 60,000 60,000 80,843 60,000

Total since April 1, 1868,.....

474,579 09 624,579 00

rreviously this year	9,010,101 09
Total since January 1, 1863	\$10,141,286 68
Decrease this year. Decrease this year. Since the circular published the Detroit has been sold at 24c., and 100,000 lhs. Portag and 75,000 lbs. Battimora at 23½c. Tin.—Sales of 1,100 siabs Straits at 23½c.@24c. gold; gold. English is scarce and sold in small iots at 24½c. gold Spelter.—Unchanged. Lead.—Unchanged.	l olsewhere 150,000 re Lake at 23%c.; 100 Banca, 27%c.
Pig Iron—is very dull but firm. Scotch pig at \$40@41 \$38@40. Antimony.—16c. currency. Petroleum—is firm at 14c.@14%c. for crude, abd 303	
bond.	
Receipts for the week ending May 5, 1868	. 337,857 "
Export from 1st of January to May 5:	
From New Yorkgalls. 12,525,94 Other Ports	
Total Exports from the United States. 25,063,60 Same time 1866. Same time 1865. Stock in yard May 1:	16,064.665
Crude	
Total	1,834 44,432
The amount of coal exported from the port of New York, ing May 5, was: Exports for the week. from January 1 same time last year.	.tons 1,412
Decrease	3,791
THE IRON TRADE.	

THE IRON TRADE.

New York, May 8, 1868.

Comestic.—Pid Irox.—The market for American pig iron is quiet, with but sales. We note 200 tons No. 1 Thomas, at \$40; 100 tons Alientown at . Some 300 tons Alientown bave been sold from second bands on private runer. We quote No. 1 at \$38640. There is rather more inquiry for Scotch iron, with sales of some 6006,700 tons at \$39 for Englington, \$40 for Glengark, \$41 for Gartaberria, ex-ship.

Alien —There has been considerable movement in old rails, some 2,000 tons ing been sold at \$45 506,46 00, on the spot and to arrive. Sales also of 250 iold Trails, American, at \$47 per ton; also 100 tons extra quality D H 1850 per ton cash. We notice also 2,000 tons new American rails at works, irrivate terms.

g iron is in steady but moderate demand, with sales of Gartsherrie and r brands, Scoten No. 1 pig at 42044 per ton; and American pig at \$4069 er ton, as to quality. Bar iron is selling at previous prices, but continues oderate demand. In Russia sheet iron nothing of any consequence has done. Prices are nominally 12c. per lb. gold.

ig iron continues duil hut prices are unchanged; sales of Anthracite at \$29 for No. 1; \$36@26 for No. 2; \$33 50@34 00 per ton for hard. Manupred iron is furnfy beld at full prices.

@39 for No. 1; \$36@28 for No. 2; \$33 50@34 00 per ton for hard. Manufured iron is firmfy beld at full prices.

opening.—We have advices from London to the 25th nitime. A correspondent of the Guardian writing from the North of England districts, represent the manufactured iron trade as being quieter. He says:

Several extensive foreign rail orders which it was expected would come his country, have been taken by Continental firms at prices about 5s. under lowest English quotations. Probably appwards of 40,000 tons of rails have noted that the contract of the contract of the contract is like the these indicates; that Belgian and se Russian orders came to England, and the north secured a considerable tion of them. consequently rail makers were fully occupied. The continued fung away of extensive contracts like the these indicates; that Belgian and assian manufacturers must possess very tangible advantages over us, or ywould not be able to underse English firms in the manner they do, see also that the pig iron required for manufacture is to a large extent imported in the Cleweland district. The statemonts of Mr. Isaac Beli relative to the ure of our competition with Continental nations, receive singular confirmanform this state of things. The Belgians and Prussians have to pay more coal and more for pig iron, which, in fact, they import in large quantities m England, and yet having an advantage of from fifteen to twenty-five per t. in their favor, as far as the cost of labor is concerned, they are able to ure manufacturers out of the market. These facts are naturally raising addeal of discussion amongst those most deeply interested in the manufacture of from its content and the contracts are running out rather hast, and the order books are tag of fact, the various rail mills are now tolerahiy well occupied, but it is interested to the fact, the various rail mills are now tolerahiy well occupied, but it is intered that contracts are running out rather hast, and the order books are tag low.

this courtees are running out rather fast, and the order books are this low."
The iron trade of South Yerkshire still continues iavorable at several of the ge establishments, with every prospect of its increasing as the season adsecs and communication with the north of Europe is resumed. In rais, sets, plates, and boops, as well as in machinery, there is a fair demand, lets the most of the furnaces are kept in blast. The large steel works at instone, which have been doing but little lately, are exhibiting symptoms of sewed activity. Sheffield has rather better orders from America—chieffy these and tools. Steel railway rails are also being exported very freely, he aspect of affairs in South Staffordshire is still very iar from satisfactory. I distance between the masters and the men is still insettled, though a consrable number of them have gone in. A correspondent at Wolverhampton, insate that over 3,000 puddlers, shinglers, rollers, and other fromworkers out of employment.

out of employment, rom Newport, South Wales, we learn that export inquiry is without change se last report, and the America and Russian markets continue by far the larg-

ы	ose cessomores	
	Boston imports of Pig Iron from January 1 to May 1,	1868.
1	1805. 1807. 1808. 1808. 1809	11.38
3	Coastwise Ports	2.81

Lehigh Valley Iron Trade.

the following table shows the amount of Pig Iron transported over the Leb Valley Railroad for the week ending May 2, 1868, and for the season to

nat date.		
	Tons.	Total
Carbon Iron Co	210	3,875
	390	4,270
Chomas Iron Co	870	10,335
	810	8 650
Allentown Iron Co	400	4,410
Robert Iron Co	290	3,805
Glondon Iron Co	600	9,060
Other shippers		4,987
Total	3,870	49,392

DUTY.—Bars, 1 to 1½c. per lb.; railroad, 60c. per 100 lbs.; boiler and plate c. per lb.; sheet, band, boop and scroll, 1½ to 1½c. per lb.; pig, \$9 p.st ; polished sheet, 3c. per lb. Payable in gold.

American Bar Iron.				Nail Rod, per lb 9		10
Common, per ton	80	00 88	00	Sheet, Rus., Med. Nos. 16		17
Refined, 4 44	90	00 95	00	Sheet, s'gle, D. & T. com 5		7
				Rails, Eng., gold, ton., 51 50	52	50
		-		Rails, American 78 00	80	00
				EL		
English, cast (2d and	1st qu	ality) t	er il	b18	@2	3
				10		
English Blister (2d an	d 1st	quality)	113	6 20)
English Machinery		4	,		4 10	3
English German (2d a	nd 1st	amalit.	v)	14		
American Rister 44 R	lack D	iamono	22		6 1	
	44	66	.,		25	
American, Spring	66	66			13	
American, Machinery	44	66			14	
American German	66	46		10	15	

The market for pig-iron is not active.	PHILADELPHIA,	May 6	, 1868.
Anthracite Pig, No. 1	CAME DIES OF THE PARTY.	226 00.	C-890 00
" No. 2		94 00	a 000 00
Craw Force		99 00	
Gray Forge		33 00	
Charcoal Wheel		48 00	
" Blooms		90 00	
Scotch Pig		41 00	43 00
Railroad Bars (American)		78 00	80 00
Refined Bar		85 00	90 00
Common Bar		75 00	80.09
Band Iron, 1% to 6.			00 01
" 12 to 8-16		110 00	120 00
Floor Inc. 1 and an and)	101 00	
Hoop Iron, 1 and upwards		199 00	****
/8		140 00	****

44 44 %		175 00	****
" " 34		200 00	****
Nails and Spikes		5 25	
" 4d		5 75	****
" 3d		6 75	****
(4 9.4 Ann			
ou, mic		0 20	
Boiler Rivets			1/4 pr. lh
Railroad Spikes			
	PITTSBURGH,		
Dig Tean and Bloom Market R	it a very moderate amo	in term	huginger

PITENURGH, May 2. 1868.

Pig Iron and Bloom Market.—But a very moderate amount of business has been done in raw froms during the current week, swys the Commercial. Indeed, we have never known our from verkers to pursne a more conservative policy than during this season. At times when it seemed necessary to the securing of full supplies of desirable stock for mixture, they purchased freely, but there has been a total absence of speciniative feeling. Now that the season is far advanced, and a perceptible failing off in orders for their manufactures has been realized, increased caution is manifested in strictly restricting purchases of crude stock to current consumptive wants.

There is, however, but little change in prices of favorite makes of standard forge irons. The demand for such has thus far this season kept pace with production, and from all the information wc can command, we feel warranted in saying that in the districts mainly tributary to this-market, supplies of raw irons are lighter than at the opening of the year. In low grades and inferior irons, prices are irregular and lower. There is a growing feeling with our merchant bar and nail manufacturers, that there is no economy in using low grad, stock, hence inferior makes are selling at rates relatively lower than formerly, and generally to manufacturers of rails. We are quoted the following sales, which embrace but a portion of the sales of this week:

ing a	aren,	A DICH OIL									
					LTED FR						
150	tons	Medinm (Gray Fo	rge, fro	m yard			 	636	50 - 4	mos
	tons	4.6	6:	6)				 	36	00-4	mos
250	tons	White an	d Mottie	ed, deli	verabie	at fu	rnace.	 	32	50-6	mos
100	tons	Open Gra	y, a fai	acy bra	and,	46		 	35	25 - 31	dys
100	tons	Strictly (ray, so	ld at ft	irpace			 	36	00 - 4	mos
	tons	6.6	fr	om ya	rd			 	36	€0-c	ish.
50	tons										
					ANTERAC	ITE.					
100	tons	Red Shor	rt Forge					 	37	00-4	mos
50	tons		+4					 	pri	vate t	erms
100	tons	46	66					 	37	00-4	mos
					CHARCO	AT.					
200	tons	Missouri	& Fanc	v Form					51	00-4	mos
275	tons	Charcoal	Forge	3 40.8.	210011			 	48	00-4	mos
50	tone	Hanging	Rock 1	No 1 F	onndry			 	45	00 6	mos
	tons		66	66	oundry.			 	43	00 4	2000
	tons		46	4.6							
	tons		66	+6							
00	eou.							 	WO	00-x	mos
					RICON						

RLOOMS. Are in light supply ; also in light demand ; we are reported sales of 30 tons Juniata at \$90 00—4 months.

Juniata at \$90 00—4 months.

Iron and Nails.—The demand for iron during the past week has been rather inactive, owing in part to the very large shipments by river during last month and first half of the present month. Prices are unchanged. The card rates are so low that manufacturers have no margin for concessions, and unless they can obtain full rates, will be compelled to stop their works.

The demand for nails continues large, and prices are fully maintained, but manufacturers are meeting the wants of their trade.

There is considerable inquiry for sheet iron from the West, and prices are firm.

	Doston, April 29, 1003
Scotcb Pig, No 1	Englisb-com 85 90
Gartsberrie\$43@45	dc refined 95 160
No. 1, other hrands 42 45	do sheet, per lh 61/2@10c.
American, No. 1	Russia, sheet
	SAN FRANCISCO, April 6, 1868.

| SAN FRANCISCO, April 6, 1868. | SAN FRANCISCO, April 6, 1868

í								LONDON, April 18, 1868.	
f	Bars, Welsb in Lond.	66	2	6	@			Do. railway, Wales, £5 5 0@£5 10	0
7	Ditto to arrive	6	2	6				Do. Swd. in London 10 0 0 10 5	0
	Nail rods	6	15	0	7			To arrive 10 0 0 10 5	0
	" Stafford in Lond.	7	7	6	8	10	0	Pig, No. 1, in Civde, 2 13 3 2 17	9
	Bars	7	5	0	8	10	0	Do. f.o.b. Tyne, Tees. 2 9 6	
	Ноор	8	5	0	9	10	0	Do. Nos 3, 4, f.o.b.do 2 6 6 2 7	0
	Sheets, single	9	0	0	10	0	0	Railway chairs 5 10 0 5 15	0
	Pig, No. 1, in Wales.				4	5	0	" spikes 11 00 0 12 0	0
3	Refined metal, ditto.	4	0	0	5	0	0	Indian Charcoal Pigs	
	Bars, common, ditto.	5	7	6	5	10	0	in London, pr. ton, 7 0 0 7 10	0
	Do. merch. Type or							, , , ,	
	Tees	6	10	0					

STEEL

THE COAL TRADE.

NEW YORK, May 8, 1868. Trade is unmistakably dull, every department in the business plainly indicates it, but prices remain firm and in fact in many of our quotations this week dealers will note an advance. A few weeks ago we notified the trade that there would be an advance from the then low rates, and everything now transpiring indicates that we were right in our calculations. Good qualities of coal in this market to day find a ready saie, and were it not for a large amount of "trash" that the New York market is constantly being flooded with, we would not have occasion to note a duliness in the trade. The Honey Brook Coal Company, whose men were "out" by a strike a few weeks ago, bave, we understand, acceded to the demand of their mners upon the grounds that it was a case of necessity with them in order to obtain a livelihood. The other Lebigo operators will no doubt follow suit. These and other movements will have a tendency to enhance the value of coal, which is to-day sold to the public lower in proportion to its real value than any other article of consumption. We, therefore, again call the attention of retailers to these facts, and state that they can save money by buying their coal now.

Freights remain steady. Some few changes have, however, been made in our tables.

Foreign coals are quiet. American gas coal is in better demand. The gas companies are beginning to realize the value of it for their use.

bosrow, May 6, 1868.

In English cannel coal very little has been done, with sales at \$20 per ton in small lets. Picton has been selling at \$7 50@7 75; and Sidney is quiet and nominally \$3 00@8 25 per ton. Cumberland has been selling at \$8 00@8 50; and cargoes delivered at Baltimore \$4 75, and at Georgetown \$4 35 per ton, in Pennsylvania and Westmoreland gas the sales have been at \$7 20 per ton,

lyered in Philadelph											
	ia. Anthracite has b	een selling at	\$5 50@6 5	0 hy the	U, LEHIGH REGION.	859	24,950	472	1,348	26,292	Rates of Transportation to Tide Water.
	per ton for retail lot	PRIT.ADEI	PRIA. May 5		U. Lehigh Coal Co Other Shippers	899	24,800		1,040	20,002	To Port Richmond.—(Philadelphia.)
The market continue	s dnll. We quote l	count Monnts	in Inma one	d otoom.	Total	859	24,950	472	1,348	26,292	To Port Richmond.—(Philadelphia.) Philadelphia and Reading R. R. from Schupkill Haven
25; red ash. egg.	s ann. We quote i ken, \$3 50@3 65; de and stove, \$4 10@4 i red, \$6; do. chestunt	0 ; Lehigh lu	mp, steamb	oat, and	MAHANOY REGION. Mt. Rose Coal Co	235	535				Brunswick and South of Cape Henry, until further double :
Seen, \$5; do. prepar	xhibits the quantity	of Coal passe	d over the	following	Mount Etna Coal Co Mahanoy Col. [N.M.M	652	1,845 11,109				Lunp
tes of transportation	for the week ending	May 2. 1868:		1	Coplay Colliery	666	6,016				Broken
	1867-	1868-	INC. O	a drc.	Glendon Primrose Colliery	1,284	13,858 2,307				Stove
1	WREEL TEAR. V	EER. YEAR	WERE.	YEAR.	E. S. Silliman	1,486	38,233 27,684				From Port Carbon 8 cents per ton more.
l. & Reading R. R.			10 1 11,241		Knickerbocker	1,406	23,397 11,583			• • • •	To Elizabethport. L. V. Railroad from Mauch Chunk to Easton
uvlkıll Canal		30,933 144,4 49,429 824,5	22 1 7,991 81 4 1280	1 256,579	Thomas Coal Co Williams & Herring	1,121	4'610			****	C. R. R., N. J., Easton to Elizabethport 1 06
nigh Canal	31,985 81,169		45 d 3,841	d 4 194	New Boston Coal Co Shamokin Coal Co	1,656	16,586				1 75
anton North	29.532 427,125	26,965 357,6	34 4 2,567	d 69,491	Caledonia M. & M	6291	8,835				Shipping Expenses at Elizabethport
n'a Coal Co. Rail	19,865 215,081 1,303 3.146	21,193 224,4 708 2,4			Coal f'm Cataw'sa RR Other Shippers	::::	15		****		Total 200 To Port Johnson. \$ 69
& Hudson Canal.	36,360 226,445	11,416 172.2	63 i 5,056	d 54,182		14,349	165,620			151,270	L. V. R.R. To Port Johnson. \$ 69
mokin	7,780 132,440 1,768 7,403	9,935 121,7 426 5,9		d 10,714 d 1,461	Total				••••		C. R. R. Of N. J
rt Mountain	2,310 9,256	2,508 14,2	68 1 198	i 5,012	Grand Total Same time last year.	49,429 49,148	824,581 568,002	28,144 31,985	77,145 81,169	901,726 649,171	Shipping Expenses
rens Valley C. Co.	1,796 15,554 5,557 74,309		15 d 1,738 03 l 215	d 2,966	Increase	280	256,579			252,556	Total 2 06
nstown Col'y, E.	20,784	4,189 45,0	25	i 24,240	Decrease		Paul her	3,841	4,024	••••	L. V. R.R
Total		4,316 3,218,3				nces or C	Joan by	the Carg	O.		Morris & Essex R.R
	2	36,856 3,086,4	03			COR	RECTED WEE	KLY]			Total
ease		17,460 151,9	32		Schuylkill R. A., chol	ce\$6 00@\$	York, Ma	y 8, 1868 ylkill Chestu gh W.A Lum	ut 4	50	[BY CANAL.]
200 2 17 20 1D	Schuylkill Coal AND CANAL, FOR W		MAY 0 810		Ordinary	5 75 5 00	Lehi	gh W.A Lum igh Broken	p Old Co 5	971/	[6Y CANAL.] To Port Richmond. \$1 00 From Schuylkill Hayen to Port Richmond. \$1 00
		RAIL	ROAD	CANAL.	" Steamboat.	5 00	66	Egg	4	8714	Freights and tolls by Raritan Canal
Clair		31,		14 591	" Broken	5 00			4	12½ 37½	2 90
sville		1,	449 935	14,581	" Stove	5 50		000000		/8 ****	Drawhack 30
wlkill Haven		15.	828 632	21,164	Diam'd Vein R. A. Sc	ECIAL COAI h'kill 6 00	Old (rs' Quotation Co.'s W. A. L	ehigh	5 50	Total 2 60
t Clinton		3	748	1,773	Locust Dale W. A., Honey Brook "Le	. 5 50	Mt	Pleasant		5 00	To New York. From Mauch Chunk to New Brunswick, hy Lehigh, Del. Div. and Del. &
Total for week		62,	074	38,793	Harleigh " Spring M'u "	. 5 50	Buch	k Ridge W. A.	., Sh'kin.		Raritan Canal
Previously this	s year	1,073,	064	145,413	Spring M'u " Sugar Creek " "	. 5 50	Nos	iells, E. F'kli	n, Lorb	5 50	Freights through
		-		184,107	Sugar Creek " Ashburton " .	. 5 50	Wyo	ming		5 50	_
	Cumberland Cos	l Trade.			Dealers in these Co	als may he	found in	our advertisi	ing column	19.	To New York via Morris Canal. 2 35 Lebigh Canal. 34
B. & O. RAILROAD.	-The shipments ove	the Baltimor	e and Ohio	Railroad,	Lebigb Lump and St	mb't. 5 00 g	Scht	nyikiii Chestn	nt	2 50@2 60	Morris " 40
he week ending M	ay 2, were as follows Pa. R. R., via Cumbe				" Broken and E	5 50		Steam	boat	3 50	Towage 10 Freight 1 55
Consolidation Comp	panyvana		2,0	91 15	" Chestnut Schuylkill R. A. Prep	ared 4 10	4 50	" Broke	n	3 50 3 65	
Borden	io			84 05	" Chestnnt	2 45	2 50	66 Stove		4 00 4 25	Expenses from Manch Chunk to Jersey City for Re-shipment
Now Hone	10				W. A. Lum Steamboat	p and 3 00	3 25 Lorb	mokin		4 50	Lehigu toils (net)\$ 34
Midland d n George's Creek v	lo. via Piedmont.			11 06	" Broken	3 35	3 50 Fran	aklin. (Lyken	s Vailey)	5 00	Total
Coorge's Creek C.	& I. Company		1 .6	15 07 I	Scrant	on Coal at	Elizabeth	port, May	8, 1868.	4 60	Re-shlpping
Central	4	• • • • • • • • • • • • • • • • • • • •	2,0	14 09	Lump	rrected weel	kly by D. L	port, May	(o.)	4.50	Total
Atlantic 'Piedmont				79 19 37 04	Lump Steamer	4 25	Stoy	70		5 00	Provincial Freights. Currency. Sydney to N. Y.
American			2.1	54 19	GratePrices for						Lingan
Swanton Potomac	16		1.2	81 03	Lump, per ton ol 224 Steamer, "Grate "	Corrected w	eekly by Po	enna. Coai Co).)		Cow Bay
George's Creek Mi	ning			21.00	Steamer, "	1118.\$4 10@	Stoy	re 66 6	6 66	4 55	Little " 300
Hampshire	67	• • • • • • • • • • • • •		17 15	Grate " "	4 20	Ches	stnut "	66	4 05	Foreign Freights. New Castle and Ports on Tyue
			-	59 10							Liverpool
					LumpSteamer	4 25@	Egg		1	4 35@	San Prancisco Coal Trade.
C. C. & 1 Co			1,8	06 03	Grate	4 3060	O Une	Sinni	*********	4 25	[From the Commercial Herald April 14, 1868.] San Francisco, April 14, 1868.
Total	There were despate		18,2	58 13	Lahig	70 cents ac	lditional to	New York.	1888		Anthracite tons
BY C. & O. CANAL.	There were despated 127 boats, laden wit	ed from the h 14.339 07 to	port of Cui	nberland, l	LumpSteamboat and Broke	5 00@) Che	stnot	, 2000.	4 25	Australian, tons 1,579 English, tons 4 918 Bellingham Bay, tons 4,960 Lehigh, tons 541
Abo fullowing comm	anies:				Egg	4 75	5001	re	• • • • • • • • •	5 00	Cumberland, cks. 1,259 Mt. Diahlo, tons. 255,309 Chili, tons. 700 Nanalmo, tons. 6,902 The cargo of 1,500 tons Cumber-land and Lehigh per Autocrat from Baltimore was wrecked after entering the Golden Gate. We remark a good demand for
Borden			1,7	50 13	Wilkesbarre & Pittst	At Balt	imore, Ma	m wharf or	ward file		The cargo of 1,500 tons Cumber and Lehigh per Autocrat from Baltimore
Central			3,9	067 17 063 03	A. by car Lykens Valley R.	\$5 25@	05 50 to	the her will	additional		Anthracite, Cumperland, etc., but of which the present supply on sale is him.
Consolidation			1,8	355 11	Lykens Valley R.	A. by	5 55 1 Geo	ail, del'd, per orge's C'k and	2,240 lbs	7 00@7 50	ited. We quote a sale of 130 tons hard, ex Samuel G. Giover, at or about \$15; Cumberland in casks is saleable at \$22@22 50 per ton.
H. & B			1,5	09 09	carSunbury & Shamokir	R. or	4 50 11	and f. o. b. at	Locust P't		
					W A. by car Wilkesbarre or Pittsi	At Ha	vre de Gr	or shipping	• • • • • • • • • • • • • • • • • • • •	@4 75	New York Imports of Metals, &c. The following will show the imports of Metals, &c., at the port of New York frum toreign ports, for the week wedning May 1, 1668. The quantity is given
			,		Wilkesbarre or Pitts	on,W.	25 50 Sun	bury or Shar W. A., on b	mokin, R.	@5 EA	In packages, unless otherwise specified.
	nsported over Leh ng May 2, 1868, comp				Trevorton R. A., on	board	5 50 Lyk	kens V'y. R.	A. on b'd.	@5 75	Metals, &c. Quantity. Value. Quantity. Value. Lead, Pigs 9,539 52,034
TOT ALLO WOOL CHAI				,	George's Creek and	corgetown umberland	D. C. and	i Alexandri	a, Va. »	@ 4 35	Brass Goods 4 437 Metal Goods 74 11.035
SHIPPERS.	RAILROAD. Week. Total.	Week, 1	Total.	Grand			s of Ga				Chains and An 64 2.025 Needles 9 4.462
			Tons.	Total.			May 8, 1868	8.	ERICAN		Copper 116 Old Metal 2,360
	Tons. Tons.	Tons.	rous.			CAAL.					
		Tons.		34,069	PROV:N	Coarse.			Coar	se. Slack.	Gnns
mit Mines		Tons.	34,069	34,069		Gold. (Fold.		Coar	Corrency.	Gnos
Total		Tons.		34,069	Block House Gowrie	Gold. 6 \$1 75 \$ 1 75	75 We 75 Des	stmoreland C	Coar	Currency. 8 25 \$8 00 8 25 8 00	Gnus
Total		Tons 11,778 . 11,766	34,069 34,069	34,069	Block House Gowrie Lingan	Gold. 6 \$1 75 1 75 1 75 2 133/	75 We 75 Des 75 Car 71 % Per	stmoreland C	Coa	Currency. 8 25 \$8 00 8 25 8 00 8 25 8 00	Gnos
Total Froming REGION		Tons 11,778 . 11,766	34,069	34,069	Block House Gowrie Lingan	Gold. 6 \$1 75 1 75 1 75 2 133/	75 We 75 Des 75 Car 71 % Per	stmoreland C spard neron mburgh Orrel	Coal	Currency. 8 25 \$8 00 8 25 8 00 8 25 8 00	Gnns
Total Froming Region. Inches Coal Co Igh & Susqueh'na Imania Coal Co	4,7	Tons 11,778 . 11,766	34,069 34,069 665	34,069 5,424	Block House Gowrie Lingan Sydney Pictou Little Glace Bay	Gold. 6 \$1 75 \$ 1 75 1 75 2 13¾ 2 13¾ 1 1 75 1	75 We 75 Des 75 Car 71 Pen 18% Nev	stmoreland C spard neron wburgh Orrel	Coan Co§	Currency. 8 25 \$8 00 8 25 8 00 8 25 8 00	Gnos
Total	4,7 242 13,0 669 10,7,	Tons. 11,778 11,766 0 9 294 2,785	34,069 34,069 685 10,785	34,069 5,424 23,809	Block House Gowrie Lingan	Gold. (1.181 75 \$ 1 75 2 13% 2 13% 1 1 75 1 1 75 1 75 1 75 1 75 1 75 1 75 1 75 Prices (1.185)	75 We 75 Des 75 Car 71¼ Pen 18¾ Ne 100 I	stmoreland C spard neron wburgh Orrel Delivered in N	Coan Co§	Currency. 8 25 \$8 00 8 25 8 00 8 25 8 00	Gnos
Total Total REGION ANKING REGION ANKIN COAI CO denried Migh & Susqueh'na rmania Coai Co. Ikee Barre C. & 1. Urror Run rish & Thomas	242 13,0,0 669 10,7,1111 25,9	Tons. 11,778 11,766 0 294 2,785 0 341	34,069 34,069 665 10,785	5,424 23,809 27,131	Block House	Gold. 6\$1 75 \$ 1 75 2 13% 2 18% 1 1 75 1 1 75 2 Prices 6	75 Ve 75 Car 75 Car 71 Ve Pen 183 Nen 1 183 Nen 1 1 183 Nen 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	stmoreland Copard	Coan Co§	Currency. 8 25 \$8 00 8 25 8 00 8 25 8 00 8 25 8 00 8 50 8 00	Gnos
Total Total Mikim Coal Co denried Tanaia Coal Co des Fare C. & 1 Tron Ru Tron Ru Tron Ru Tron Ru W Jersey Ton Coal Co	4.7. 242 13,0 669 10,7,7 1,111 25,9,1 101 8,2,2	Tons. 11,778 11,778 11,766 0 284 42,785 0 33 341 55 95	34,069 34,069 665 10,785 1,178 452	5,424 23,809 27,131 8,677	Block House Gowrie	Gold. 6\$1 75 \$1 752 13¾1 752 13¾ 11 75	30ld. 75 We 75 Des 75 Car 71½ Pen 18¾ Nev 100 I 18.25 pen 4RMELE Bi \$ 9 50 Liv	stmoreland Copard	Coa. Gas Street, N. Cannel, 1	Cnrrency, 8 25 \$8 00 8 25 8 00 8 25 8 00 8 50 8 00 8 50 8 00	Gnns
Total		11,778 . 11,766	34,069 34,069 665 10,785 1,178 452	5,424 23,809 27,131 8,677	Block House Gowrie	Gold. 6\$1 75 \$ 1 75 2 13% 1 1 75 2 13% 1 1 75 1 75 Prices (Forei By \$1.25 per ARMELES BY \$1.4 00 Liv	stmoreland C spard meron wburgh Orrel celivered in N gn Coals. r ton. sos., 32 Pine rerpool House	Coa. Gas Street, N. Cannel, 1	Currency. 8 25 \$8 00 8 25 8 00 8 25 8 00 8 50 8 00	Gnns
mmit Mines Total Total Mikim Coal Co denried migh & Susqueh'na mania Coal Co Likes Barre C. & 1 Trror Run Trror Run W Jersey ion Coal Co wport Coal Co wport Coal Co wport Coal Co Tress & Escar Mat'	242 13,0 069 10,7 1,111 25,9 10 2 4 3,2	11,778 . 11,766	34,069 34,069 665 10,785 1,178 452	5,424 23,809 27,131 8,677	Block House	Gold. (***)	Foreign (1997) Sold (1997) Sol	stmoreland C spard	Gas Gas I Gas New York. Street, N. Cannel. 1	Chrrency, 8 25 \$8 00 8 25 8 00 8 25 8 00 8 50 8 00 8 50 8 00 9 00 9 00 6 00@18 00	Gnns. 1 196 Percussion Caps. 4 1.227 Hardware. 53 9,520 Saddiery. 2744 48,034 Iron, Pig, tons. 400 5,814 Steel. 2,744 48,034 Iron, Railroad hars 2,335 13,116 Tin, boxes. 6,323 186,333 167,035 Fron, sheet. 10 934 Tin, slabs, 2,505. 590,800 99,273 Iron, other, tons. 938 Wire. 94 2,090 Metal Circular. Since my last circular of the 6th ult., business, generally speaking, has been dull owing to the continued uncertainty in regard to our political and financial affairs. Money is easy at 7 per cent. Gold advance 1 from 137% per cent, on the 7th of Api 1: to 140% per cent. on the 7th of Api 1: to 140% per cent. Tilk.—In consequence of the advance in London 10 per cent. Tilk.—In consequence of the advance in London, considerable transaction took place in the first balf of April at an advance of 1 cent. The sales were
Total	242 13,0 669 10,7 1,111 25,9,1 101 8,2 2 4 3,2	11,778 11,766 11,766 0 0 284 44 2,785 00 3 341 155 95	34,069 34,069 665 10,785 1,178 452	5,424 23,809 27,131 8,677	Block House Gowrie	Gold. (**) 175 175 175 175 175 175 175 175 175 175	Foreign (1997) Sold (1997) Sol	stmoreland C spard	Gas Gas I Gas New York. Street, N. Cannel. 1	Chrrency, 8 25 \$8 00 8 25 8 00 8 25 8 00 8 50 8 00 8 50 8 00 9 00 9 00 6 00@18 00	Gnns
wyoanso REGION. anklin Coal Co. denried high & Susqueh'na rmania Coal Co. likes Barre C. & 1. rrior Run. rish & Thomas. w Jersey. ion Coal Co. yoming C. & T. Co. wport Coal Co. yrris & Essex Mnt'i nsumers. rethart Coal Co. ymouth Coal Co. ymouth Coal Co.	4,7, 242 13,0 669 10,7 1,111 25,9,1 101 8,2 2 4 3,2	11,778 11,766 11,766 0 0 294 42,785 00 33 341 45 95 77	34,069 34,069 34,069 6653 10,785 1,178 452	5,424 23,809 27,131 8,677	Block House	Gold. 6 \$1.75 \tau 1.75 \$1.75 \tau 1.75 \$2.13\forall 1.76 \$2.13\forall 1.76 \$1.76 \tau 1.76 \$1.76 \tau 1.76 \$1.176 \$1.176 \$1.176 \$2.18\forall 1.76 \$2.18\for	75 We 75 Des 75 Car 75 Car 71 Por 1 18 Ne 1 00 I 18 V 1	stmoreland Copard	Gas Gas I Gas New York. Street, N. Cannel. 1	Chrrency, 8 25 \$8 00 8 25 8 00 8 25 8 00 8 50 8 00 8 50 8 00 9 00 9 00 6 00@18 00	Gnns
mmit Mines. Total Total Total Total Region Andrew Total T	4,7, 242 13,0 669 10,7 1,111 25,9,1 101 8,2 2 4 3,2	Tons. 11,778 11,778 11,766 11,	34,069 34,069 	5,424 23,809 27,131 8,677	Block House	Gold \$1 75 \$ 1 75 1 75 2 133 \$ 1 1 75 2 133 \$ 1 1 75	30ld. We 75 Car 75 Car 75 Car 71 % Per 1 18% Net 1 100 I	stmoreland Coppard	Gas Gas I Gas New York. Street, N. Cannel. 1	Chrrency, 8 25 \$8 00 8 25 8 00 8 25 8 00 8 50 8 00 8 50 8 00 9 00 9 00 6 00@18 00	Gnns
manit Mines	1,111 25,9 101 8,2 2,4 3,2 1,111 25,9 101 8,2 1,2 1,2 1,2 1,2 1,3 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4	Tons. 11,778 11,766 00 284 44 2,785 00 33 341 55 95 11 11 11 11 11 11 11 1	34,069 34,069 685 10,785 1,178 452	34,089 5,424 23,809 27,131 8,677	Block House Gowrie Lingan. Sydney. Pictou. Little Glace Bay. International Co-'s. Corrected Liverpool Gas Cakin "Canne Liverpoel House Ori	Gold	Joid. We 75 Des 75 Des 75 Cat 775 Des 75 Cat 775 Des 75 Cat 775 Des 75 D	stmoreland C spard	Coan Gas Gas Gas Yew York. Street, N. Cannel. 1 Orrel 1 2'1, scr'd. 2	Chrrency, 8 25 \$8 00 8 25 8 00 8 25 8 00 8 50 8 00 8 50 8 00 9 00 9 00 6 00@18 00	Gnns
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NEW YORK, SATURDAY, MAY 9.

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NOTICE TO SUBSCRIBERS.

Subscribers receiving their paper in a blue wrapper will accept the same as a notification that their subscriptions have expired, and that the Journal will be discontinued unless we are otherwise

THE CALIFORNIA SURVEY.

After the two articles in which we have expressed our opinions concerning the recent legislative abolition of the geological survey of the State of California, we think our position in regard to that subject cannot be mistaken by any reader. We hold the act of the legislature to have been in a high degree nnwise and discreditable, and condemned by considerations of immediate as well as far-reaching policy. Perhaps this very decided judgment may prevent us from being misunderstood, if we suggest that the manner in which the distinguished chief of the survey conducted its operations is open to some criticism. We are aware that it is very easy to find fault afterwards, and that it can do little good in this particular case; and, moreover, our admiration and sympathy for Prof. Whir-NEY are so great, that we venture with reluctance to question in any respect his work or his method; but the point to which we shall call attention bears a general application, and perhaps a useful lesson, for all undertakings of a scientific character, fostered by government for the sake of the people.

The only serious objection urged by the opponents of the survey in California was that its results were not adequate to the money and time expended npon it, and that they were not brought before the public in practical and nseful form, during the continuance of the work. No one denies the value and admirable execution of the publications already made; but the mining communities claim that, up to this present time, little or nothing has been accomplished for them. They are struggling with many difficulties, and earnestly seeking information concerning many doubtful, yet vitally important ques tions; and they look on with unconcealed impatience, while a body of distinguished professional men, competent to givedirect and immediate assistance, busies itself almost exclusively with laying a broad and thorough scientific basis for a magnificent examination of the State, and tells them to wait a few years, until those matters which concern their daily industry are duly reached in the execution of this vast plan. They ask for a roof over their heads, and are pointed to the slowly rising foundations of a mighty edifice.

The reply to this objection is, that the original establishment of the Survey commanded its chief "to make an accnrate and complete geological survey of the State, and to furnish, in his Report of the same, proper maps and diagrams thereof, with a full and scientific description of its rocks, fossils, soils and minerals, and of its botanical and zoological productions, together with specimens of the same, which specimens shall be properly labelled and arranged and deposited in such place as shall be hereafter provided for that purpose nnggets-all this splendor will be likely to lead some capitaltematically carried ont, and "with such an end in view"-to | There are "depressions," where consoling nuggets cannot be quote the words of an esteemed correspondent in San Fran- found. cisco, " Prof. WHITNEY could not spend the time and money of the survey in publishing flaming reports of immense mineral resonrces, vast gold deposits, petrolenm clap-trap, or yellowcovered geological literature generally."

The thorough and systematic style in which the work was

competent judges with whom we have conversed, unquestionable. But was there no way of serving the public immediately, as well as remotely; of giving valuable economic advice and information, without any detriment to the elaborate scientific work of the survey? The Indian who has planted a field with corn, the benefit of which he expects to enjoy in harvesttime and winter, does not hesitate, when he is hnngry, to eat s little of his corn green. The people of California were hnngry indeed, not for flaming praise of their resources, but for substantial and nonrishing food of information; and, it must be confessed, the crop was long a-growing.

The splendid reports of the State of New York have been referred to, as a model which the California corps intended to equal, or surpass. But, if we remember rightly, the whole progress of the New York surveys was attended with the periodical publication of volumes on economical subjects, furnishing the public in advance with most important results. The purpose of such publications was temporary, if you please; and they are perhaps superseded by the final Reports; but they accomplished at least one thing: they kept the people alive to the benefits of the work in progress; and the grand result was the continuance of public support. The New York Snrvey was carried ont; the California Snrvey is cut short.

Scientific men must remember that they have to deal with the prejudices and ignorance not only, but also the legitimate demands and immediate necessities, of the people. Where personal honor and ambition alone are at stake, it may be well enough to play the CorioLanus; but in this case, we feel sure that the victim loses personally very little, in comparison with the loss of the State; and probably his own chief regret is his failure to accomplish a great public service. Would not a little more tact, with not a whit less integrity and ability, have averted the deplorable catastrophe?

SCIENCE-EXTRA SUPERFINE.

The Stockholder of the 5th instant devotes several columns to an account of recent experiments on Georgia gold ores, made at East Boston, by Col. C. C. Stevens, with his new fluxmaterial. The editorial remarks which preface the long quotation from a Boston paper are both historical, philosophical and scientific, ranging over the alchemists, paper money, John Law, and metalingy. From this wealth of wisdom we select one gem:

"Sulphur, with salt, seems to be the accompaniment and mixer fall ores—indispensable, as nature goes, to their censtitution, int difficult and expensive to be got rid of by art when the metals re sought to be extracted from the ores."

"Snlphnr with salt" is good-so good that we have scarcely any inclination to proceed to consider the description of the trial itself, which, though highly wrought, is far below the level of this brilliant introduction. Of course there was a great deal of gold taken ont of a very little ore, much more gold than a mint assay would show. A good deal of excitement was caused by the discovery of four different nuggets of gold in "the various depressions at the bottom of the furnace." Two were found while the party of visitors were present, and two more after they had separated. In the words of the Boston Post:

"It was evident to every gentleman present who had the slightest knowledge of the smelting of metals, that the Stevens Flux had accomplished what no other assay process had been able to do. It had destroyed the sulphur, thrust out of the walls of the ore the miners great curse, the silica; and after accomplishing all this it had converted these and other ingredients into an article of commerce that would readily sell for a sum nearly, if not quite, sufficient to defray the smelling expenses—the slag which is left after the gold is obtained being worth from forty to fifty dollars per ton for the manufacture of tiles and heavy glass bottles. In fact it is already in demand for this purpose."

If all this was evident to every gentleman who had the slightest" knowledge of metallnrgy, how would it appear to those with more than slight knowledge? Such men will see at once that a trial of this kind settles nothing but the fact that the Stevens Flux is a flux-which any chemist could have told before. We need not repeat that in stories of the production of gold where it cannot be found by " mint assay," we

We have often had occasion to lament the inaccurate and untrustworthy reports of experiments which are given in the papers. The present is no exception. It is a farrage of nonsense, relieved by attempts at poetry which are funnier but not more silly than the prosaic statements of "fact." We are told that the "destruction" (!) of silica is "driving from the rocky hive the queen-bee of all impurities in ores," and if this can be accomplished, "then all the other impurities will snrely leave, and the gold is ours." Moreover, "by none of the old methods, the two principals of which are amalgamation and chlorination, have the ores been desulphurized or the silica destroyed."

"Sulphur, with salt," the great "mixer of all ores;" silica, the "great queen-bee;" fifty-dollar slags; long processions of velocity of a stream of water, so as to be able thereby to calby the legislature." A plan so comprehensive must be sys- ist to extravagant expectations, and possible disappointment.

In a former article on this flux, we explained its nature and real merits. We regret that it is to be made the object of of a stream of water by simply observing the time required speculation, and puffed into a transient, exaggerated reputation. And Mr. HAYES, of Boston, must regret that his brief report its surface through any given distance. From this data as a on the subject is paraded as an "official paper of the State starting-point, he has no difficulty in calculating the whole begun, and the great value of its results, when they should be | Assayer of Massachnsetts." Many years ago, when the late | number of cubic feet per minute that flows along the channel

completed and published, are, in our opinion, and that of all Prof. HITCHCOCK was engaged in the geological survey of that State, Messrs. HAYES and JACKSON were employed in certain chemical work connected with his reports; and both these gentlemen have been saddled ever since (no doubt to their great annoyance) with a title which has no legal existence. If Mr. HAVES were really a State Assayer, and his report on the Stevens Flux really an official paper, it would have contained a more full and thorough statement of the case than it

A PACT FOR COAL MINERS.

Owing to the great depth, at which the greater part of the ceal mines of England are worked at the present day, it becomes a matter of necessity to employ in them every available means' to secure healthful currents of air along their lower levels. However much scientific investigations may have done in the way of bringing into existence an economical and effectnal means of ventilation, an application of which, in any case, may furnish, in underground workings, currents of air in quality and quantity proportionate to the necessity of the occasion, this deplorable fact remains as yet too well known; that the "nnforeseen danger" still lurks along the path of the miner. The terrible explosions, of which every now and then we get reports, tell us that science has not yet completed the task it has to perform. But, though it be impossible for the English engineer, under all circumstances, to prevent the explosion of the fire-damp that gathers in his mine, is there no way of rendering the destruction of human life less great, when such explosions do occur? If, in the present state of the theory and practice of ventilation, the great evil cannot always be prevented, every means that can be used, in order to counteract its terrible effects, are certainly of the greatest moment. PROF. PHILLIPS, in his "Report on Colliery Explosions," answers our interrogation when he says:

" Abundant currents of air may be so misdirected as to yield bad ventilation; the safety-lamp may be so nawisely handled as to endanger the lives it should protect; the best regulations may, if not strictly carried out, become sources of mischief. The general remedies for these errors, or crimes, are instruction and responsibility; increased knowledge and, stronger motives to use it rightly-knowledge is nowhere more powerfnl, obedience nowhere more necessary, than in a coal mine.

"Until the young miners are instructed in the necessity of observing, with all strictness, the rules which superior knowledge has proved to be essential to their safety, we cannot hope to prevent those calamities, which we so much bewail.

"A larger number of miners perish from the effects of the after-damp,' or 'choke-damp'-carbonic acid-than from the actual explosion of fire-damp. When the mixture of carburetted hydrogen and air is exploded, the carbon combines with oxygen to form carbonic acid, and the levels become filled with this deadly vapor. Carbonic acid kills by asphyxia; the action of the heart ceasing with the inhalation of irrespirable gases. Now, could those who were rendered insensible by the after-damp be speedily removed to pure air, they might be, by a little careful attention, restored to animation. It, therefore, becomes of the first importance to have at hand the means which would enable men to penetrate the dangerous gases and rescue their comrades. The best simple method is to place in a coarse bag a mixture of powdered glauber salts -the sulphate of soda-and lime. This tied over the nose and month, effectually absorbs the carbonic acid, and prevents its exercising any injurious effect on respiration."

At this comparatively early day in the working of our coal mines-at a time when, in most cases, their depth is not so great as to require every scientific means justifiable, in order to secure a proper ventilation-we do not find ourselves entirely relieved from the terrible calamities that result from the explosions of fire-damp. The "danger unforeseen" lurks along the path of our miners, as well as along that of the English worker in veins of coal. If then, through want of knowledge, or of proper care, we must, now and then, endure the calamity of an explosion, most assuredly every means that can be employed to palliate, and ward off its usually disastrons results, should be made use of. Our extract from the pen of Prof. PHILLIPS, a trust-worthy source, tells ns of a simple method, in case of such disasters in our mines, of saving human life. The remedy, which lies within the reach of all, should be at the proper moment in the minds of all who have anything to do in the dangerons work of mining coal. It is not for the engineer alone to treasure up this important fact, but for the miner also. The time might occur when according as he was in possession, or ignorant of the above fact, the life or death of his comrade would lie in his hands.

MEASUREMENT OF AIR CURRENTS IN MINES.

As in the practical work of Hydranlic Engineering, it often becomes necessary for the Engineer to determine the mean culate the actual amount of water passing along the channel, so often in the working of mines it is very important to measure the velocity of air-corrents in the galleries so as to have data for determining the actual amount of air passing along them. The Engineer determines the maximum velocity for some light body-as, for instance, a cork, to float along Mr. SMYTH, in one of his lectures at the Royal School of Mines, speaks of a method somewhat analogous, and quite as simple, of testing the quantity of air passing through a mine. He says that "persons thoroughly accustomed to deal with the circnmstances which result from the falls of roof or other obstructions of the roadways, could tell by the flame of the candle whether there was sufficient air in any given place for the workmen; but for many reasons, it was often desirable to measure the actual quantity of air in the working portions of a mine. This was done frequently by firing a small quantity of powder, and observing how long the smoke would take to pass through a measured distance. That would give the velocity per minnte, which, multiplied by the proper multiple would give the total amount of cubic feet per minute."

There have been, of course, a great number of wind measnrers invented for determining the velocity of air-currents, which are used with greater or less degrees of success. But as every Engineer does not always have such an apparatus at hand, particularly in this country, the simple method above noted of attaining the desired result, might often prove of great value. Snch a simple adaptation of means to an end, should not be lost sight of.

REMARKABLE PROPERTIES OF METALS

We publish to-day an original paper from the pen of Dr. VAN DER WEYDE, which possesses, in its way, a remarkable degree of interest. To those of our scientific readers who are fond of looking into, and keeping pace with the investigations and discoveries of Science, Dr. VAN DER WEYDE'S paper cannot be other than exceedingly interesting. Among other things the article tells ns of a remarkable relation that seem to exist between the magnetism of some of the metals, and of their atomic and specific weights, or rather, that really does exist between them; a fact that is clearly and convincingly set forth in the inferences drawn from the column of quotients given. The conclusion drawn from these investigations, in regard to the probability of finding magnetic qualities, under certain conditions, in metals that have hitherto been thought non-magnetic, conforms strictly with the experiments of FARA-DAY. But we refer our readers to the article, as one that is well worthy a careful pernsal, on account of its scientific bearing, even if at the present time it should have no practical value.

Low Grade Ores.

In one of our Editorial articles of last week, we incidentally made a remark in regard to the very small percentage of gold that was obtained from the sulphnrets of the Lower Hartz mining district.

In order to prevent any misnnderstanding in regard to the matter, we would remark that the ore is not worked for gold alone. On the contrary, silver, copper, sulphuric acid, and sulphate of zinc are the principal products that resultifrom the working of these ores

Gold is an incidental product. In the series of metallnrgical processes that are employed in the treatment of the ore for copper and silver, the gold is gradually concentrated, and in the end obtained, by means of a very complete method of separating it from the silver through the agency of snlphnric

NEW PUBLICATIONS

A pamphlet is at hand, entitled "Sterility is Laid." It contains an address delivered before the Farmers' Club of Bedford, N. H. by John A. Riddle, Esq.

Mr. RIDDLE states very succinctly the first steps in Prof. VILLE'S new system of Agriculture; and then goes on to show how the farmer may make an application of the principles discovered by the French scientist in the practical working of his farm. The results of analyses of various kinds of composts and of different kinds of crops are given. This is, indeed, of the greatest importance. Vegetation, in order to thrive, must of course have its proper food, and in proper quantity-the supply must equal the

We have been courteonsly favored with a report of the Presiden and Directors of the Morris Canal & Bankin; Co., to the Stockholders, for the fiscal year ending February 29, 1868. It appears that the season of navigation was about two week's less than the average of former seasons. After paying the nanal semi-annual dividends and various dues, there remained to the credit of profit and loss account about \$61,000. The cost of carrying coal to tidewater was reduced to very low rates, on account of great compe tition among the carrying lines. There has been a falling off from the previous year, in the amount of coal and ore received by the Canal from the mining regions. It is contemplated to increase the carrying capacity of the boats about fifteen per cent., by ening the locks and increasing the depth of the water They hope to be able, by such means, to compete with railroads, and other canals engaged in the Anthracite coal trade.

We have received a new map of California and Nevada, compiled from the latest surveys and explorations. It shows the mining districts of the States, the route of the Central Pacific Railroad, and gives other valuable information. This map is the most complete of its kind that we know of. Price, mounted, \$2,50; in pocket form, \$1,50. FREY & NELL, Publishers, 79 Na New York.

Notes on the Geology of the Survey for the Extension of the Union Pacific Railway, E. D., from the Smoky Hill River, Kansas, to the Rio Grande. By John L. Leconte, M. D. Philadelphia.

This interesting pamphlet, giving the results of observations made in the summer and autumn of 1867, contains, besides much information of general importance, a brief, courteous, but positive dissent from the opinion held by Dr. HAYDEN, that all the useful beds of lignite west of the Mississippi are of tertiary age. The eminence of both authorities, will excuse us from taking sides in

the case at this stage of the discussion. Our own opinion, like that of the scientific world, is gradually forming. Meanwhile, we should be glad to hear from Dr. HAYDEN his views npon the objections of Dr. LECONTE; and we suppose that the forthcoming geological report of Nebraska, if not some earlier publication, will contain further argument from him, in support of the thesis he has

THE JOURNAL OF THE FRANKLIN INSTITUTE, Philadelphia, for the nonth of April, is at hand. It contains a large number of meritorious and highly interesting articles upon various civil, mechanical, chemical, and educational subjects

The article on "Wooden Pavements," which consists of the reply and report of CHAS. A. HASWELL, to a communication from a number of the tax-payers of the city of New York," page sesses a peculiar interest. The comparative merits of the Nicl son and William's pavements are very briefly, but clearly dis-cussed, and the scale seems to turn in favor of the latter. The articles on "Carbonized Paper," "Qualitative Analysis by the Spectrum Microscope," and others, are very interesting in their

THE MAY NUMBER of the American Naturalist has been received. It contains a series of racy articles, among which, not the least interesting to the reader, is the one upon "The Lakes of Iowa-Past and Present," from the pen of C. A. White, M. D. From a geological point of view, he explodes the idea that has been popularly entertained that "the Walled Lakes" of Iowa are the work of a departed race of men.

THE BUTTERFLY-HUNTERS, by HELEN S. CONANT. Boston, Ticknor & Fields, 1868.

This charming little volume belongs to a class which we hope to see more namerously represented in our literature. So long as books for the young were mainly filled with morals or dialectics, or mere creations of fancy, however wholesome and proper all these may be, there is double danger that children who early acquire a taste for reading will lose their taste for the world of things, and, to some extent, the use of their perceptive faculties. which directly stimulate an interest in nature, and throw the child back, as it were, on the world of notable phenomena, are so many safeguards against the evils of over-studions youth. It is not all books, but bookish books, that tend to an nnequal and nnhealthy mental development. We believe in Robinson Crusoe, and Master man Ready, and the Swiss Family Robinson, and the books of MAYNE REID, and others like him; though many of these are too sensational, and deal with objects too remote, to be of real benefit to children. Many a boy dreams of fighting lions and tigers, or tracking the red men through the pathless forest, or harpooning the whale in polar seas, but lets the wonders of Nature all around him go unnoticed, because no one has made them the subject of a pleasant tale. Why will not some one write of squirrels, woodchucks, rats and mice, hens and chickens, cats and dogs, with such knowledge and humor and fancy as to invest them with interest? The Butterfly-Hunters is a book for children of just such a character. The story is a pretty, shining thread, on which the butterflies are strung. The illustrations are delicate and life-like, and the typography is worthy of the dainty theme. The species described are those which are common to New England and this State at least; and we have no doubt that, with this book in hand, many conntry boys and girls—or city boys and girls, spending their snmmer in the country—will find much pleasure, this season, in verifying by actual observation its pleasant descriptions.

ADDRESS OF ROSSITER W. RAYMOND ON THE NATIONAL

At a recent meeting of the Polytechnic branch of the American Institute, after the usual scientific exercises, Mr. Rossiter W. Raymond, Editor of the American Journal of Mining and U. S. Commissioner of Mining Statistics, addressed the Institute on the subject of mining industry, especially with reference to the necessity of a National School of Mines. The speaker's views were substantially those which of Mines. The speaker's views were substantially those which have been presented from time to time in our editorial colnmns. He considered first, the nature of mining industry, and its relations to civilization, and pointed out the distinction between mining and agriculture, in that the former was charac-terized mainly by greater permanence of product, but less per-manence of production, while the latter was a constant stream of perishable wealth from an inexhaustible source. Soils, even forests, may be recuperated and restored after the most wasteful treatment; but mineral deposits, once exhausted by legitimate labor, or ruined by wanton extravagance or ignorance, are lest. This distinction bears directly on the history of nations The approaching exhaustion of many local sources of mineral wealth, in England and on the continent, was addinced in illustration. Regarding themselves as guardians of the treasures of the soil, and mindful of the fact that the consumption of such wealth is a constant drain upon capital as well as income, most Governments have claimed over mineral deposits, especially those of the precions metals, a right of control. They have raised from them revenue for the State, and prevented their injury and destruction by private citizens, recklessly hasty to be rich. Onr American democracy does not favor governmental interferences of any kind, and although in obedience to the traditions of statesmanship onr government has hitherto maintained in theory its supreme right over the minerals in its territory, the claim has never been enforced in practice. Nor is ritory, the claim has never been enforced in practice. Nor is it necessary to imitate the despotisms of Enrope. Gold and silver mining were then discussed, and declared to be not the-oretically but practically and economically (owing to peculiar circumstances) the most difficult branch of the art in this country. The special relations of bullion to money, commerce and government, and to all forms of industry, were explained, and government, and to all forms of industry, were explained, and the speaker showed by a forcible argument, which won repeated interruptions of applause, that the mining industry of the far west has been the motive power of a vast national progress, and that, even if every dollar of gold and silver produced had been obtained at nudne expense, the great balance of national advantage would be in favor of the pioneer industry which has leid over buff the continent and extablished the which has laid open half the continent, and established the already vast agriculture of California and the rising commerce of the Pacific.

This interest has therefore peculiar claims npon the protection of Government. Now what shall be the nature of protection? The production of bullion is decreasing. What are the crying What can be done to raise it again?

conssed the means to be employed in attaining these ends, and in relation to the second one, remarked that a National School of Mines is a great necessity, and gave his reason why the proposed institution should be a school and not a burean; a school of mines and not of general science, with mining as a snbordinate branch, and a national, not a State or private school. In the conrse of these remarks, Mr. Rayprivate school. In the conrse of these remarks, Mr. Raynond spoke in highly complimentary terms of the Mining
School of Colimbia College, but said one might as well refer
a citizen of California or Idaho to Berlin as New York for
his education; and, moreover, that to realize the ntmost possible benefit from its infinence, a mining school should be
located in a mining community. Considering the objections
frequently nrged against science and theorists by so-called
practical men, he showed that the establishment of a National
School, in this country would obviate the evil, the existence
of which he frankly admitted, and the nature of which he
believed to lie in training men to a particular profession
thousands of miles from the place in which they were to
practice it, and under widely different conditions. Mr. Raymond spoke for about an honr and a half, and was listened to
with the closest attention by a crowded and highly interested with the closest attention by a crowded and highly interested andience.

Original Papers.

[WRITTEN FOR THE AMERICAN JOUENAL OF MINING.]
REMARKABLE RELATION BETWEEN THE MAG-NETISM OF SOME METALS, And their Atomic and Specific Weights

BY P. H. VAN DEA WEYDE, M. D.

When we divide the specific gravity of the different metals respectively into their atomic weights, we obtain quotients which indicate, not directly, but relatively, the distance of their atoms; (upon the supposition that the atomic weights indicate really the relative weights of their atoms, which is only probable, but not proved): comparing those quotients in the subjoined table, we find the following remarkable results:

	,		
	Spec. Grav. Atom. W't. Quotient		
	Cobalt, 8 5 30 3.63 remains para	magnetic at white heat.	
	Iron, 7.8 28 3.59 is only magn		
l		dark "	١
ı		" 600° Eah.	
l	Manganese, 7 27.6, 3.94 "	" 4° Fah.	
l			
ì	Piatinum, 21.5 99 4.57		
l	Zinc, 6,8 32.5 4.78		
ļ	Aluminium, 2.56 13.7 5.35		
ŀ	Irldium,16 99 6.2		
ļ	Cadmium, 8.7 56 6.4		
l	Magnesium, 1.74 12 7.		
١	Mercury,13.5100 7.47		
l	Lead, 11.4 104 9.12		
l	Osmium,, .1010010.60		
ļ	Gold19.419610.035		
l	Silver, 10.47 108 10.3		
ļ	Lithium, 0.593 6.4 10.9		
	Antimony 6.7 130 19.4		
۱	Bismuth, 9.8 208 21.22		
	200000000000000000000000000000000000000		

OBSERVATIONS.

1st. The five magnetic metals have all quotients below 4. 2nd. The so-called non-magnetic metals have all quotients above 4.

There is, however, one exception to this rnle, in the case of copper, of which the respective specific and atomic weights are 8.8 and 31.7, of which the quotient is 3.602; but then it is probable that the atomic weight of copper needs correction, and should be doubled to 63.4, in which case the quotient would be 7.204, and it would then fall among the other non-

3d. The quotients are the smallest for those metals which are the most permanently magnetic, even at high temperature, and vice versa.

4th. As cooling increases by contraction the number expressing the specific gravity, it will consequently decrease the quotient obtained by using this increased specific gravity as a divisor, in perfect accordance with the fact that cooling inreases the paramagnetic property.

5th. As, inversely, heating decreases by expansion the specific gravity, it will increase this quotient, in accordance with the fact that heat diminishes paramagnetism, and finally destroys it in all metals with the single exception of cobalt, which has the smallest quotient of all, and consequently can stand some increase.

6th. The experiments of FARADAY on diamagnetism and paramagnetism, with very powerful electro-magnets, have proved that palladinm and platinum are the strongest paramagnetic next to the first five in the above list; they have in my list, also, the smallest quotients connected with them.

7th. In the same way as diamagnetism is the opposite of paramagnetism, the larger quotients in the above table belong to diamagnetic bodies, as, for instance, mercury, antimony and bismuth. The last is the strongest diamagnetic substance experimented upon, and possesses the greatest quotient in the

8th. If we were able to cool the other metals so as to increase their specific gravities to such a degree as to have a decided effect on the amount of this quotient, we might perhaps succeed in discovering in several of them, paramagnetic malities, by means of Faraday's apparatns.

9th. Heating decreases the paramagnetic qualities, with the specific weight, and consequently increases the quotient. That may do this to such a degre s to make the body diamag netic, is proved in the case of oxygen gas, which, when cool is paramagnetic like iron, and when hot, diamagnetic like bismnth.

10th. That this relative distance of the atoms (npon which, of course, the specific gravity of bodies depends) is closely What can be done to raise it again? What are the crying necessities of the mining community? The speaker claimed that two main points covered the case. Secure titles and the diffusion of proper information would increase the profits and reduce the wastes of mining in this country. He then disnetic in the direction of their optical axis, or of the longest axis of crystallization. In some of these crystals, this action is so strong that they are infinenced by the magnetism of the earth; as, for instance, a properly cut crystal of kyanite (s dense silicate of aluminia) when suspended on an axis, will behave like a compass needle, and may be used as such, a fact little known, but worth knowing.

Correspondence.

[To insure insertion of Correspondence in our columns the full nam and address of the writer must be given.]

The Venezuela Gold Fields

GUACIPATI, Jan., 1868.

EDITOR AMERICAN JOURNAL OF MINING : EDITOR AMERICAN JOURNAL OF MINING:
While you are enjoying holidays, amid the sleets and thaws
and snows of January in New York, your sonthern correspondent revels in the pleasures of an eternal spring. Fresh
flowers bloom every day—fresh grass grows from each mouthly
burning. The temperature never rises above 84° Fahr., and
rarely falls as low as 76°. The foliage and landscape of a
wall developed spring are all ground him.

Over the green savannas, south and south-west of this old Indian Mission village, let us look at the mountains enveloping

the El Dorado of Guayana.

the El Dorado of Guayana.

CHARACTER OF ROCKS.

The gneissoid rocks with large cerros of quartz, gradually slope to the flat lands of the Youmari river. The gneissoid rocks we have followed all the way from the northern rim of the Essequibo river basin, at San Maria. They are not primary, or "fundamental gneiss," but metamorphosed rocks, for they often contain fragments of other rock; their associated granites are but altered sandstones. Siliceous and talcose slates run parallel with the gneiss. Whatever they are with their porphyry itacolumnite and quartz, they terminate at the valley of the Youmari river. They have gradually fallen off by a succession of plateaus and slopes, from 1750 feet above the sea to 300 feet at the Youmari. North-eastward and south-westward the same sloping to the river is seen. ward the same sloping to the river is seen.

AURIFEROUS ROCKS. Beyond the river lie the auriferous rocks proper. As has been already stated, the gneissoid rocks occasionally have gold, as far north as the Orinoco, but no "paying" belt has as yet been found. Immediately beyond the valley of the river rise the mountains which belong to, and enclose the

gold-producing rocks.

The first mountain is called Iguana. It is composed of altered slates, sandstones, conglomerates and breccias. This range is about five miles long, N.E. and S.W., and in the latter direction apparently runs iuto another and similar range. Crossing this range and descending into the valley of the Macupio, we next see a nondescript rock peculiar to this basin, locally known as "blue-stone." It weathers roughly and is of a dull yellow ochre color, and makes a stiff yellow clay soil, very sticky in wet weather. It is extremely hard, tough, and difficult of fracture. Where quartz traverses this rock, it is considered a "good sign" by miners. Near the blue-stone is Colorado rock, or sandstone of rich red color. Talcose slate, siliceous slate and hornbleude slate are the main rocks of the valley bearing gold quartz. All these rocks, with gold-producing rocks. rocks of the valley bearing gold quartz. All these rocks, with their belts of porphyry, run E. and W. Within them are the quartz veins, of various widths, from wide enough to make a village site, as Caratel (Nueva Providencia) to veins only a foot, or a few inches wide. These veins are readily referable, foot, or a few inches wide. These veins are readily relerable, now that the clue has been found to the main systems—the major, running with the valley, N.E. and S.W., and the minor, E. and W., and meeting with the former. Besides these, there are numerous inosculating veins running in varions directions, and crossing each other and the main systems.

On the east of the valley we have a repetition of the same value are at the weak.

rocks as on the west.

The country rock is much decomposed, so much so as seldom to make visible its original condition. The Macupio and its tributaries have worn a valley out of these rocks, in its lower portion, of about one half mile wide, and deposited the debris of the gold veins in two positions—one, clay and fine gravel, "grada," on the decomposed country rock; the other, water-worn fragments of quartz mixed with similar ones of water-worn fragments of quartz mixed with similar ones of blue-stone. The "barrancas" of this country-placer of ours, are confined to these localities. Sometimes they produce large nuggets. Twenty pounds have often been found. The grada is seldom deeper than twenty feet. In other years, the Macnpio has borne large quantities of the grada into the valley of the Youmari; and this stream has contributed largely from the breaking down of veins crossing its course; for the prottle and of the valley this river crosses at right for on the north end of the valley, this river crosses at right angles and makes a horse-shoe bend around the monntains inclosing the El Dorado. Just below the debouchment of the Macupio is situated the ancient mission village of Tubn the Macupio is situated the ancient mission village of Tubn-ken. Here gold was first found in the gravel of the river. The wash of the Macupio can be seen making large bars and shoals in the river. The first effort of American capital was tried on these gravel beds—crushing the quartz "paving stones" of the river, by means of a feeble stamp mill of two mule power. It was unsuccessful. For many years gold was supposed to be confined to the river bed, and the first grant of surificating concessions was made including all the streams supposed to be confined to the river ped, and the mist grant of auriferous concessions was made, including all the streams in the Indian country south, as far as the boundaries of Brazil.

CARATEL, CALLAO AND THEIR MINES. Afterwards, gold was found in decomposed vein stuff at Caratel, later in hard vein higher up the valley, to be presently described, and still later at the village of Callao, near the river. This is a narrow vein running through talcose slate, and has been highly productive. Barrancas, of 27 square, have given 10, 17, and 21 lbs. of gold per day.

It is a curious sight to enter this village for the first time.

In its palmy days, before the gold lay too deep for individual effort, it is said to have contained 2,000 inhabitants. 'I'o an American accustomed to the back-woods, it gives the appearance of a multitude of thatched shanties, dropped down conance or a minitude or thatched shantles, dropped down confusedly—yea, decidedly "mixed," in a large chopping of the forest, the trees and brush but partially burnt. Around the charred logs, and stumps, and brush, and bnildings, you wind your way as best you can. No street is straight, no two angles are as ness you can. At street is straight, no two angles are alike, none of them are long. On every side you see half-filled old barraneas, or new ones. In your path is a pile of rubbish from some half-concealed old trap-like mill. Without a guide you flounder along, cantioned now and then to beware of the carming."

So rich were the diggings, so hurried the miners to secure

their profits from early locations, that each one selected his spot, bnilt his shanty, and commenced work, sometimes within it, always close by it, sinking his shaft, raising his quartz by windlass, and crushing it on a stone with a hand-hammer, reserving the samples showing gold for future pounding in a mortar, and washing and throwing away the others. So rich is the refuse, that everywhere are seen dilapidated men, women and boys gleaning from the waste heaps. We have analysed from these heaps as high as \$1,400 per ton. A village without order, without streets, without an enclosed building without order, without streets, without an enclosed building

MACUPIO VALLEY.

MACUPIO VALLEY.

The auriferous valley of the Macupio is divisible into three portions, the lower one-third divided from the upper two-thirds by a cross range of monntains. The lower is divided into two basins by a high hill and range of porphyry and altered slates, Callao basin lying west, and Caratel basin east. The upper two-thirds rises rapidly into four high ridges, Chili, Potosi, Pern, and Panama, enumerating them from the east, westwards, all being connected together by a high crest which is the "divide" between the valleys of Macupio and Iguana. This crest is by estimation 600 or 700 feet above the valley. On these ridges and crest are numerous veins, worked and un-On these ridges and crest are numerous veins, worked and un worked—Chili, Peru, Potosi, Laguna, Lagunita and Panama being the most prominent; east and west veins are, in the npper valley, the most prominent. Veins here, are very bold ominent, determined in their direction, and can be traced from the valley to the top of the hills holding them. nama and vicinity, there is strong evidence of an anticlinal, the veins dippping westwards, while at Chili they dip in the con trary direction.

This valley, averaging three-quarters of a mile wide, and four and a half miles long, is definitely known, in all its veins yet discovered, to be annierous.

GOLD AT OTHER POINTS.

Beyond, in a south-west direction, gold bearing quartz has been traced three days' journey into the Indian country. Still farther it has been found on the Caroni, and beyond this river, ou the Paragua, by members of this party. Eastwards it has been found as far as the sea coast in British Guayana, it has been found as far as the sea coast in British Guayana, and southwards at the confluence of the Younari, and Cuyuni, and at the village of Avechia. It seems a very limited area of anriferous rocks, to be definitely known, after fourteen years of exploration. But, it must be remembered that all of Guayana south of the Yournari river, and reaching from the British and French possessions across to New Granada, is Indian—wild, uncivilized, and Spanish-hating Indian. Besides, excess of enterprise is not a failing of the Venezuelians. Why should they go into unknown regions while the Macupio is still unexhausted?

RICHNESS OF THE VEINS.

Where only visible gold is worked, and all else rejected, it is impossible to obtain satisfactory data upon this point of

inquiry.

The yield last year, from grada and vein mining, was fifteen dollars per day for each man mining. I think this estimate too high, but figures are shown confirming it.

Estimates made by gentlemen fully capable of arriving at just conclusions, have estimated the average yield of the quartz worked in the mortar to be \$120 per ton. The refuse from these veins have given us \$30,\$36, and even \$100 per ton. No test has been made on a large scale—20 lbs. is our limit. It is evident that the vein-stuff worked must be very rich to pay for hand-pounding on stones, pestle-working and dry amalgam, when wages are two dollars per day and board as much were

In my next, I will describe the appearance of the veins, their anatomy, connection, system and richness, so far as known.

Mariotte's Law in Mining.

WILKESBARRE, Pa., May 5, 1868. EDITOR AMERICAN JOURNAL OF MINING:

In your notice of this subject as given by Warington Smyth at the School of Mines, London, you do not do me or

yourselves justice.
In my letter of the 22d January, published in your Journal of March 7th, 1868, page 146, you will find the principle en-tered into at length, and recommended to the practice of Engineers here, and, probably, before Mr. Smyth's notice of the subject in England.

J. W. HARDEN.

The Physical Properties of Petroleum

The physical properties and caloric power of American petroleum have been investigated by M. Henry Deville, who has just communicated his results to the Academy of Sciences. We shall now only notice one important point established. M. Deville shows that Pennsylvanian petroleum increases in bulk by one-hundredth of its volume for every ten degrees centire de of heat. This the author, resists on the contract of t centigrade of heat. This, the author points out, is a fact to be considered when storing petroleum for fuel in steam vessels, where it will necessarily be exposed to a higher temperature. Space should be left in the casks to allow of this expansion. space should be left in the casks to allow of this expansion, or they may burst and give rise to an explosion. Another source of danger on board ship—and, as dealers and speculators in the article well know, a cause of great loss—is the power petroleum has of penetrating wood. The loss and the danger, however, may both be obviated by paying over the interior of the casks with a strong solution of glne or albumen. This, when dry, forms a coating impermeable to the oil. There are other solutions used for the same purpose, but nothing, we believe, answers better than glue, although M. Garnier states that he can send petroleum about safely in paper bags saturated with a preparation of his invention. M. Deville makes the recommendation, quite unnecessarily we think, that the lighter oils should be distilled off when the petroleum is intended for fuel.—London Mechanics' Magazine.

In addition to its silver mines, Nevada may celebrated for its precious stones. The Reese River Reveil of the 27th nlt., gives some account of the gem called turquois The Reese River Reneille and of a turquoise mine existing in the Columbus district The turquoise stone is susceptible of high polish and is much esteemed by connoissenrs of precious stones. The choices specimens are of pale blue with the faintest tinge of green; but in turquoise of an inferior kind the green predominates. In Persia this gem is most highly prized and the choicest specimens are obtained there. Little attention has, as yet

been paid to this deposit, but judging from the fact that several specimens, varying in size from a small shot to an almond, have been discovered, it is not improbable, as the Reveille remarks, that a small amonat of labor might be generally revealed. ously rewarded.

Quicksilver Mines in Italy.

In Tuscany there are four mines of quicksilver, but at the In Tuscany there are four mines of quicksilver, but at the present time three have been abandoned on account of the low price obtained for this metal. The only mine now worked is that of Siele, near Castelazara. The quantity of ore extracted in 1864 was 3000 quintals (300 tons), which yielded from 2 to 2½ per cent. of quicksilver—about 6,000 kils. Quicksilver is also found in the neighborhood of Agordo, in the Venetian provinces. The veins of sulphide of mercury are said to be most extensive, but are worked on a very small scale. The following is the annual produce of quicksilver in Italy: Italy:

MINES. QUINTALS. | MINES. | VALUE. | VALUE. | Castelazara | 3,000 | 3,600 francs. | Agordo | 44,608 | .53,000 | .53,000 | .53,000 | .66 | .34,200 | .66 | .34,200 | .66 | .34,200 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 | .67 |

From 1863 to 1865 the imports of quicksilver were 10,900 kils., of the value of 17,100 fr.; and the exports 1,000 kils, of the value of 2.700 fr.

Bersonal.

Ma. A. E. Mathews, who is probably well known to many of our readers in Colorado and Montana, is engaged upon a book which promises to illustrate and describe the wonderful, beautiful and startling productions of both nature and man, in those territories in a style that will not only reflect great credit on his own ability, but which will, judging from the artistic merits of the proof-sheets before us, compare favorably with the most lauded productions of a similar kind that have been issued in this country. We have a counterpart of the profile of the "Old Monntainer," at Fall river, South Clear Creek, Colorado, which is a freak of nature that completely outdoes the old man of the White Mountains, inasmuch as he has not only an "eye for to see," which the other has, not, but hair on the top of his head in the very place where the song says it ought to be. The views of Pike's Peak, Long's Peak and of the "Monuments near Monnment Creek," remind ns that American tonrists need not go outside of their own domain for bestulful scenery, and that the self-satisfied inhabitants of the European Continent have reason to fear less two scon entice their ramblers also to the great West.

SIDNEY TUTTLE, assayer for the Montazuma Smelting Company's Works, in Humboldt district, Newada, and connected with the company from the commencement of its operations, is on his way East to work the mount of the company.

Mr. O. J. Hollistrew was recently at Cheyenne, this we are sure of, but the statement made in our columns a few weeks ago, that he carries with him good reports of the miteral and mining with the disclound mill, will act as assayer for the company.

Mr. O. J. Hollistrew was recently at Cheyenne, this we are sure of, but the statement made in our columns a few weeks ago, that he had disposed of his interest in the Colorado, Miner's Register, needs contradiction. The publishers of that paper have taken pains to inform us that he never had any kind of interest in it other than editing during the absence of the regular scribes

Patent Claims.

Interesting to Miners, Millmen, Metallurgists, Oil-Men, and Others.

77,183.—Amalgamator.—Stephen Fourtain, Silver City, Nevada. I claim casting the pan with a hub, having an opening through it for the shaft to pass through, and having a double wall around this opening to form a steam chamber for supplying heat to the machine, substantially as described.
77,202.—Pan for Concentrating Sulphuric acid, with a partition or partitions, a, reaching nearly to the bottom of the pan substantially as and for the purpose herein shown and described.
77,240.—Quartz-Crusher.—Benjamin Babbitt, New York, N. Y. I claim, 1. The toggies C, provided with or consected to the shoes C', in combination with the slides E, and rubber or other springs F, all arranged to operate in the manner substantially as and for the purpose set forth.
2. The securing of the periphery or shell u of the roller J' to its shaft, g, by means of the India-rubber heads r, expanded by the fixed collars q, loose collars q, and the outs t, or their equivalents, all arranged substantially as and for the purpose berein set forth.
3. The eccentrics d d, applied or arranged in relation with the slides E of the toggies, substantially as and for the purpose specified.

Special Scientific Brevities.

AS M. Richard, ceramic mannfacturer at Saint-Christophe, near Milao, has communicated to the Society of Eacouragemment, Paris, in the most disinterested manner, his process for varieshing pottery, and applied by him to different products exhibited at the Champ de Mars (greup III., class XVII., Italian section). The following are the ingredients and their proportion to be fritted: Carbonate of soda, Pro0; boraric a.id from Tascanv. 9800; knolin, 0-125; carbonate of lime, 0-250; suphate of lime, 0-250; crystallized felspare, 0-750; quarts from the Tessin, 0-280; fluste of lime, 0-100. Manganese of Piedmont is added to obtain the desired tint. The whole grit is

ground fine, and then mixed with 110 parts of kaolin and 52 parts of felspar for every 460 parts of the above frit. It is applied as usual in glazing, but, as the specific gravity is less than the leaden coating, the same weight of the new glaze will cover a greater quantity of pieces.

giaze will cover a greater quantity of pieces.

M. Gillot, in his memoir to the French Academy of Sciences on the carbonization of wood, says the only condition essential for the production of good charcoal is that, the operation skall proceed slowly. The decomposition of wood commences at about the boiling point of water. During the desomposition, the production of carbonic acid causes a development of beat in the retort greator than that outside of it, when the heat applied approaches 300° C. Too rapid an increase of internal heat gives rise to tar and gaseous products, diminishing in a corresponding degree the useful accessory products, as well as the yield of charcoal. The condensed products contain the largest proportion of acetic acid (about 43 per cent.) when the temperature of the even is 213° C. In this way a given amount of wood will yield about two-thirds its weight of charcoal and 7 or 8 per cent of acetic acid.

about two-thirds its weight of charcoal and 7 or 8 per cent of acetic acid.

**** Professor John Gregory, of Milwaukee, writes to the News of that city that the beds of Lake Superior and Michigan are periodically upheaved by igneous action. He says: "As there is no reason why this internal igneous force should communicate at equal intervals of time, we cannot expect a recurrence of the above phenomenon at the end of equal periods. Our rivers show ample evidence of this up-henving lorce, as they are all of considerable depth for some distance from the lakes—a condition of things that could not exist under any other circumstances than that of an up-heaving force—which would necessarily drive back the elevated surface waters muot the rivers, just as we see them at different points where the rivers discharge themselves into the lake."

into the rivers, just as we see them at different points where the rivers discharge themselves into the lake."

**Barytes, if ever so white, will not make so permanent a white paint as sulphate of baryta prepared artificially. Kuh'mann & Wagner's process is as follows: The native sulphate is at first reduced to sulphide of barium by calcening, in iron crucibles, four parts, ground to a fine powder, with one part of powdered coal and from five to eight per cent. ol coal tar. After the proces; has continued for several hours, the mixture is removed from the crucibles, and re-calcined in a closed furnace to prevent any oxidation. When cold it is treated with hydrocloric acid, the liquid being kept alkaline to prevent the admission of other metals, and from the chloride of barium thus obtained, by means of sulphuric acid, is precipitated the permanent white.

FDT. E. Drechsel has achieved a triumph in synthetical chemistry by producing the oxalate of soda by means of carbonic acid. A mixture of pure sodium and dry sand is heated in a fiask to about 350°C, over which a stream of dry carbonic acid is rapidly passed. After a few hours the metal becomes red and ultimately black. To avoid the reduction of the carbonic heat should be moderated in the latter part of the operation, and the whole slowly cooled. Left in the air to oxidize, and then exhausted with water, about one-tenth of the mass is found to be oxalate of soda. In the same way oxalate of potassams be obtained from an amalgam containing 3 per cent. of potassion.

way or next of potential control of the Athenœum, M. Galy Cazalat has invented a process to be employed in casting steel, so that tilting is rendered unnecessary. The mould is made of the greatest possible strength, and is provided in its apper part with a chamber in which a quantity of inflammable powder is placed. When this powder is ignited an immense pressure is exerted upon the surface of the steel, the noiter metal is thereby forced into every minute portion of the casting, expels the gases contained in the steel, and causes the metallic particles to be brought into the mest intimate union.

metallic particles to be brought into the most intimate union.

23 An artesian boring near Geneva, Switzerland, to the depth
of 142 feet, and at an elevation of 1,600 feet above the level of the sea,
showed an increase in heat at the rate of 19 Fahr. for every 55 feet; while another at Mendorff, in Luxemburg, which penetrated to the depth of 2,394 feet,
gave an increase of 19 Fahr. for every 57 feet.

23 According to H. Baumhauer, when the cloan surface of
either potassium er sodium is exposed to the air, oxidation is sufficiently rapid
to produce an evolution of light.

All Forts.

AT For testing the relative value of various oils used as machinery lubricants, there is, as far as we know, no perfectly reliable instrument in existence. Until a recent period the specific gravity alone has turnished a guide in determining the value in this respect of standard oils, but of iate years the nearly interminable variety of oils that have been introduced, causes the test to be nearly useless. An English patent has lately been granted for a new apparatus, constructed on the principle that the best oil is the one which allows the greatest number of revolutions to be performed by a shaft with the least possible increase of temperature of the bearings, and that all others may be graded on a descending scale as to value, according as they fail to approach the standard.

AF For welding iron and steel a composition has lately been patented in Belgium, consisting of iron filings, 1,000 parts; borax, 500; balsam of copaiva, or some other resinous cid, 50; and salammoniac, 75. They are mixed, heated, and pulverized. The process of uniting the iron and steel is as usual. The parts are heated to a cherry red, covered with the preparation, brought together, again heated and welded.

Another composition for the same purpose is 15 parts of borax, 2 of sulammoniac, and 2 of prussiate of potash. Being dissolved in water, the water should be gradually evaporated at a low temperature.

AF The catalogue of the University of Michigan for the current year is published. The number of students at present in attendance is 1,223, divided as follows: Department of science, literature, and art, 416; department of medicine, 418; department of law, 337. In the literary department the students are divided as follows: Resident graduates, 13; seniors, 48; juniors, 48; sophomores, 87; freshmen, 104; in mining engineering, 8; in selected studies, 69; in higher chemistry, 51. The whole number of degrees conferred last year in all the departments was 292.

AF Greek fire is not so danagerous as is represented. It consists of phosphoric

now receiving on his investment of ten dollars, eight hundred dollars per annum in gold.

AF The Philadelphia Academy of Natural Sciences has received from Kausas the bones of an enormous reptile embedded in crystalized gypsum, and is now eugaged in chiseling them ont and putting them together. The vertebral column is over thirty feet long and the whole monster is believed to have been more than fity feet in length. Professor Cope pronounces it a hitherto unknown species of saurian, but would perhaps, have difficulty in pronouncing the name he has given it, darmosaurus padvurus.

Special Motices,

FOn a recent visit to the extensive store of Davis Colla-more & Co., 479 Broadway, New York, we had the opportu-nity of examining many beautiful articles of porcelain and silver plated ware. The store, with basement, is a magnificent nty of examining many beautiful articles of porceain and silver plated ware. The store, with basement, is a magnificent one, being 200 feet by 28 feet in its dimensions, and extending with one direct floor from Broadway to Mercer street. Words fail us to describe one fiftieth of all we saw and admired and curiously fingered. There were glass ornaments of all kinds engraved with crests and initials and monograms; beantiful ware of plain white china, Dresden china, English china, French china, and Chinese china. There were vases, china, French china, and Chinese china. There were vases, lamps, flower stands—all elegant and nnique; breakfast, dinner, and tea sets. of the most exquisite designs, superior to anything we ever gazed upon. We thought it impossible that food should ever taste insipid or appear uninviting in that splendid ware. But what have editors to do with Parian marble, Bohemian glass, classical statuary, or seducing punchowls. We felt almost awed into silent admiration as we looked at the year erray of dazzling ornaments: broke the looked at the vast array of dazzling ornaments; broke the

tenth commandment as many times as there were objects to admire; wished, yes, ardently sighed, for riches, and walked away, feeling that if we only had some of those steel silverplated knives such as are represented in Davis Collamore & Co.'s advertisement; the pangs of hunger would be assuaged by the thoughts of using them during our hours of domestic retirement. retirement

To all those of refined tastes we say, go, admire, select if you can, and purchase; in so doing you will encourage the useful and fine arts.

In another column will be found the advertisement of Messrs. Evans & Gould, bookbinders and printers, 117 and 119 Third avenue, New York. These gentlemen have done some diffi-cult and delicate work for us; and gratitude compels us to say in their praise that not one of the twenty vexations things which so easily beset bookbinders occurred to rouse our wrath. Our books were not kept so long that we forgot where we had sent them; diagrams and tables of contents were not mis-placed; corners of leaves were not found turned up and made volumes—one of them, Rittinger's Aufbergitungskunder, was lettered; and, finally, the price charged was no more than fair. This notice is our comment of thanksgiving for an unusual blessing. How rarely does one receive volumes from a book-binder without desiring to throw them at his head!



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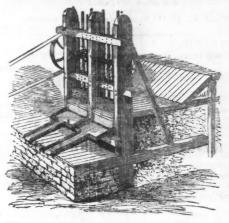
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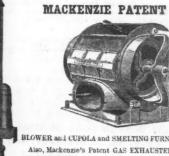
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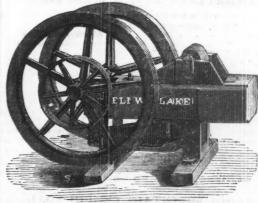


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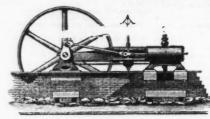
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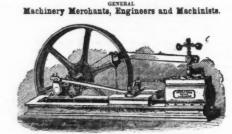
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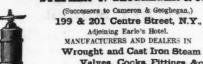
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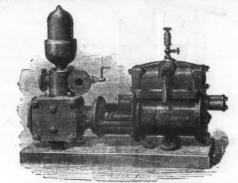
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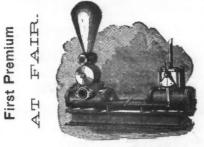
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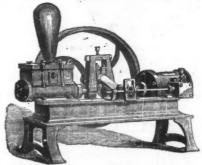
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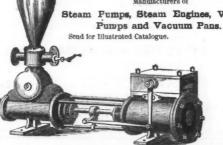


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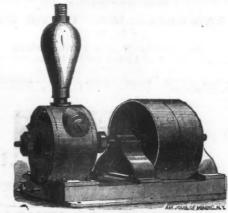
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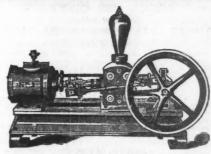
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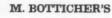
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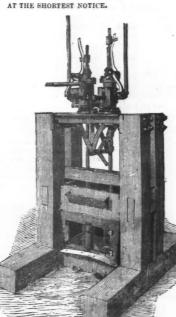
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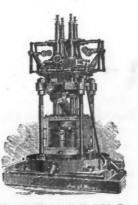
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Manufacturing and Mechanical Notes. No. XVIII.

Railways and Engines

The smallest practical railroad curve is an arc of a circle whose radius is 720 feet. Consequently a railroad would have to be nine-elevenths of a mile long in order to make a complete circle. A railroad embankment must be three times as thick at the base as its perpendicular height. In other words, the slope, in order to stand without sliding, must not be more than about thirty degrees from horizontal. The highest embank ment in the world is on one of our Western roads, 240 feet, with a base 730 feet thick .- Ex.

ENGLISH EXPRESS ENGINES.

The Great Northern Railway of England, have recently put The Great Northern Railway of England, have recently put upon their lines several engines specially designed for running the heavy express trains on that line of railway. These engines have recently completed the journey from King's Cross to Peterborough, a distance of seventy-seven miles, in one hour and twenty-eight minutes, although they had to contend with heavy gradients for forty miles of the distance, and with twenty carriages behind them. The leading dimensions of these engines are as follows, viz.:—The driving and trailing wheels are 7 ft. in diameter, and coupled together; the leading and tender wheels are 4 ft. 3 in. in diameter throughout; the barrel of the boiler is 10 ft. 1 in. long by 3 ft. 10 in. in diameter barrel of the boiler is 10 ft. 1 in. long by 3 ft. 10 in. in diameter inside in the smallest part; the fire-box casing is 6 ft. 4 in. ter inside in the smallest part; the fire-box casing is 6 ft. 4 inlong by 4 ft. wide outside; the cylinders are 17 in. in diameter, with a stroke of 24 in.; the heating surface in box is 114½ square feet, and in the tubes 907 square feet, making a total heating surface of 1,021½ square feet, with a grate surface of 19¾ square feet; the tender holds 2500 gallons of water and two tons of fuel; the propelling power of the engine is equal to 12,000 lb., and the adhesion on the rails may be taken at 11,700 lb.—Boston Railway Times.

COMBINED ENGINES AND PUMPS FOR COAL-CUTTING MACHINES.

Messrs. Carrett and Marshall, of Leeds, England, have brought out a combined pair of engines and four pumps, which have been successfully applied in the working of their patent hydraulic coal-cutting machines. One of the engines intended for the Weardale and Sheldon Waterworks, combines economy and adaptability to various purposes, including the work of dip-level pumps in mines. The following is a description of the engine, with four pumps, all fixed in one bed-lete for working coal-cutters, water-works &c.—"This compate for working coal-cutters, water-works &c.—"This complate, for working coal-cutters water-works, &c.:—"This combined engine and pump, of 30 horse power, is all fixed, self-contained, on one plate, and independent of foundations. It is designed and constructed to force a continuous stream of water, at 500 lbs. pressure, to any required distance. The steam-cylinders are 14 in. in diameter and 20 in. stroke, and the four ram pumps 6 in. in diameter each and 12 in. stroke. the four ram pumps 6 in in diameter each and 12 in. stroke. The cranks are at right angles, and the engine, where preferable, can be made to condense. This apparatus is used in coal mines, to force water any distance along the workings, or expel it to the top of the shaft. This pressure of water, besides working coal-cutters, can be further used in various distant places to work pumps in dip levels, and to turn rotative hydraulic power for winding, &c. The pressure can further be adapted to force the waste water out of the shaft. This present of engines and pumps is, with larger pumps, now how the shaft is the shaft of th arrangement of engines and pumps is, with larger pumps, now being fixed at Shildon, for the Weardale and Shildon Water works, to force 350,000 gallons 470 feet high in 24 hours. It is a compact, simple, and effective arrangement for this and other purposes, and costs only about 500L."

No. XIX. Boiler Inspection.

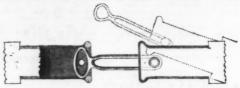
In the large manufacturing City of Manchester, England. there is an association with Dr. WILLIAM FAIRBAIRN as Pre sident. This gentleman has expended much money, time and study in scientific pursuits. He has instituted, and superintended numerous and complicated experiments on the strength of iron, and boiler plates, the application of steam, and the form of steam-engines; in addition to the supervision of his own very extensive steam-engine works, he has found time to own very extensive steam-engine works, he has found time to write some excellent books of practical information for engineers. A recent annual report of the Mauchester Association states that during the past year one of the largest colliery companies in the country, appreciating the value of independent periodical inspection, enrolled with the Association the entire number of their boilers, amounting to 150; and, also, that the boilers in the War Department of Her Majesty's service, in use at Woolwich Arsenal and other places, and amounting to 146, have been placed under its inspection. Applications from abroad are constantly being received for information respecting the Association, and for copies of its reports, with a view to the formation of similar institutions in the countries from which the applications come. Some in the countries from which the applications come. Some time ago very full information was furnished, in answer to enquiries from the Master of the Calcutta Mint, and an Act for the Inspection of Steam-Boilers in that place was passed by the Government, which adhered very closely to the plan of in-spection adopted by this Association. More recently similar information was supplied in answer to enquiries from Ballarat,

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Railroad Car Coupling.

We have had recently a more than average number of rail-We have had recently a more than average number of rail-way accidents. Some of these were, of course, caused by carelessness, others by a direct disobedience of orders on the part of employees, and others by the bad condition of the road and rails. The late Erie disaster has alarmed some minds into a comprehension of not only the importance of good rolling stock, but also of the need of couplings between passenger cars that will, by their instantaneous action, nitigate at least the horrors of railway catastrophes. The objects of the improvement illustrated by our engraving are to enable the cars to be easily coupled when brought together, and also to be instantaneously nacoupled in case one of the cars should to be instantaneously nacoupled in case one of the cars should get off the track, and consequently swerve from a direct



The device shown by the engraving is certainly very course. A wronght iron coupling bar, forged with a transsimple verse elliptical link, bears upon the two extremities of one of the draw-heads, and keeps in its place so long as the cars are on the track; the other end is held by a simple bolt. Should a car be thrown off the road, or upset by a broken rail, &c., the coupling is turned immediately into an angular position, and the opening is turned immediately into an anguar position, and the opening in the draw-head being diagonally larger than the elliptical portion of the bar, the latter slips out and clears itself from the adjoining car. The engraving represents one of the draw-heads with the upper portion removed, in order to show the manner in which the coupling is placed when in running order; an exterior view of the other draw-head with the least of the bolt that is put through the bar, will be easily head of the bolt that is put through the bar, will be easily

head of the bolt that is put through the bar, will be easily comprehended.

The dotted lines show about the position that the coupling bar would take in case-the car was thrown from the track and got disconnected. The advantages claimed for this simple device are, that, should a car get off the track, other cars are not pulled off with it; it is easily adjusted by first passing the small end of the elliptical link into the drawhead, after which it cannot be pulled out by any strain in a direct line, and of course, will yield slightly in motion when the cars are on a curve of the road. The invention for which a patent has been applied, presents no claims for the prevena patent has been applied, presents no claims for the preven-tion of accidents, but certainly in its adoption would tend to diminish the amount of destruction and the loss of life, too prevalent at railway accidents. Messrs. F. & F. A. Dana, of 67 Wall street, New York, have taken a deep interest in this invention, and all further information concerning it, may be obtained from this firm.

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have no spring that in other bells is always getting out of order, and in this respect are of course superior to English bells. Whilst we are talking about Patents, we would call

attention to a Patent Spring Tape Measure which can be carried about very convenwhich can be carried about very conveniently, and that doubtless finds its way into thousands of pockets and work-baskets to be taken from its resting place only to measure yards, it may be, of red tape, or fine linen; it matters not what, but to whatever extent, the measuring tape may be extended a slight side movement of the spring button to be seen in our representation, the whole length recoils quickly into its silver-plated case.

Reader, should you visit the elegantly fitted and well stored

rooms of Julius Ives & Co., at No. 49 Maiden Lane, in this city, you will find a great many calls, loud, gentie, musical, silvery calls on your purse which, if long enough by tape measure will help you to a seat in Congress.

An Artesian Well and Subterranean River

In sinking the second and last artesian well at the Chicago stock yards, three distinct veins of water were encountered.

The first vein was struck in the thick bed of limestone following The first vein was struck in the thick bed of limestone following the second shale, and yielded about 15 barrels an hour. After passing this stream no water was seen until the 90 feet of limestone under the first sandstone had been reached. In this reck a very extensive spring, flowing at the surface of the well about 65,000 gallons a day, was opened. The third and large vein was struck in a bed of hard limestone, 1,190 feet from the starlight. The following table will show the depth from the surface at which the several strata commence, and the beds in which streams of water were found. Water was not found at the depths indicated, but was in the necks which commenced the depths indicated, but was in the rocks which commenced at those depths:

Distance from surface.	Nature of rock
eneath surface of earth	
40 feet	First limestone.
300 feet	
400 feet	
420 feet	
550 feet (first water)	
877 feet	
1,010 feet (second water)	
1,100 feet	
1,130 feet	
1,160 feet	
1,172 feet	
1,190 feet (third water)	Same.

The vein from which the greatest supply of water was obtained appears to be about eight feet in depth, so fas as can be ascertained by sounding. The current is a very strong one, and is apparently passing from the northwest to the southeast. This fact was ascertained by lowering into the bore, by means of a fine wire, a long lead plummet. The weight would descend steadily until it reached the stream of water, when it would instantaneously be snatched or ierked out from when it would instantaneously be snatched or jerked ont from the perpendicular line from the direction indicated. In relation to the velocity of the stream, one of the attendants ex plained that it was "about the swiftness of a catfish." The experiment with the plummet explains this remark. The current of water is sufficiently strong and rapid to snatch the heavy lead, and bear it away, as a fish would snatch an insect, and carry it beneath the surface of the river. The water in the wells presents a marked and singular difference. In the old well it is strongly impregnated with sulphur. So thorough is the impregnation, that the water not only smells and tastes of the substance, but deposits it profusely at the bottom of the trough in which it is received, and the tank in which it is collected. After exposure to the air for a few hours, the sulphur is precipitated and partly carried off by the air, leaving a perfectly colorless and tasteless fluid. In the second well, on the other hand, there are no sulphurous evidences; but the on the other hand, there are no sulphurous evidences; but the water is strongly charged with one of the oxides of iron. It has no perceptible odor, but chalybeate characteristics are very apparent to the taste; and to the eye, in the iron-brown deposit which covers the bottom of the receiving trongh. The force of the water of the last well is sufficient to discharge 600,000 gallons a day at the surface. In carrying itself to the height of the tanks, an altitude of 45 feet from the ground, it loses so much force that only 450,000 gallons are discharged at this point daily. It is estimated that at a further height of 130 feet, being 175 from the surface, the water would assume a stationary position, and would readily obey King Canute or "any other man," if he told it to rise no farther. The wells are both now in running operation at the stock yards. They are the only means used in the supply of the immense amount of water there constantly required, and prove highly successful in every respect.—Chicago Times.

New Chemical Discoveries.

Dr. Hoffmann announces the discovery of a new acid which bears the same relation to napthaline that acetic acid bears to marsh-gas. A few weeks ago the same eminent chemist cominunicated to the Royal Society the discovery of "the mustard oil of the ethyl series".—Mechanics' Magazine.

In our last week's issue, we give an interesting list of new and important books for practical men. They have been recently published by Henry Carry Baird, of Philadelphia. Many of these books should be in the hands of miners, engineers and mechanics, and comparing the price of them with others, we consider the rates very reasonable. We have in our library some of the works named in the advertisements, and know well have valuable they have proved to been parts. and know well how valuable they have proved to be on many occasions. Mr. Baird furnishes all applicants with a descriptive catalogue of 56 pages, 8vo, which is sent free of postage.

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