# AMERUCAN <br>  

$\left.\begin{array}{c}\text { Yocrar } \\ \text { Nrixur } \\ \text { i. }\end{array}\right\}$
ASHCROFTS PATENT LOW-WATER DETECTOR.
The importance of a reliable instrument for the detection of low-water in stem boilers is too evident for comment. The accomparying illustration represents a "Detector," which, if we may julge from the numerous letters presented to us for inspection, vouching for its efficicney, may safely be recommended to those in need of such an insfrument. To show the favor with which it has been reeeived, Messrs. Wood, Morrill \& Co., of Philadelphia, have fifty in operation in their establishment, and the Pacife Mills, Lawrence. Massachusetts, sixty. It is stated that it requires no care or attention on the part of the cugineer, or person in charge of the boiler. The olject is not to relieve the engineer from eare and responsibility, but to act as a vigilant watchman. If the astendant performs his duties faithfully, the "Detector" remains at rest; but if the water is allowed to fall below the alarim water-line (see ent) an alarm is immediately given. By reference to the cut it will be seen that $\mathbf{E}$ is an air chamber ; C, a chamber, furnished with a union joint in which D , a dise of fusible alloy, is secured and made to close the opening F; B, a cock, and G, a coupling by which the tube is nttached to the boiler ; H , is an alarm whistle. The operation of this instrument is as follows: After the boiler has been filled to the water-line, the pressure of the steam forces the water up into the air chamber. There being no cireulation through the instrument so long as tho lower end of the tube remains cximer water, that part of the column above the cock $B$ will be of a comparatively low temperature, and the dise D will be solid. But whenever the water in the boiler falls beLow the end of the tube, the steam immediately displaces the water in it, and melts the fusible dise, and rushing out through the opening, F, gives notice through the whistle that the water is falling to a dangerous point. To replace a disc, open the cock cantionsly nutil the water reaches the opening at the top, then shat the cock, and when the water above it has become cool, the dise may be replaced with satety, and the cock fully opened. Address communications to John Asheroft, 50 John street, New York.

## Smelting Furnaces.

Mr. William Balk, of Hanover, engineer, has specifiet certain "improvements in furnaces used for smelting and melting iron and other metals," This invention is especially applicable to thoxe classes of firruaces which are worked contimonsly, and are only stopped when parts are burned or worn out, such as blast furnaces employed in smelting iron or other ores; and the invention consists in applying rollers at those parts of furnaces which are most liable to wear or to be burned out ; these

NEW YORK, MAY $12,1866$.

again restored or remade. The joints of the rollers or places of contact with the other parts of the furnace where the rollers are situated are repaired and luted so as readily to make all parts sound after turning a roller.-Colliery Guardian.

## Atmospheric Pressure in Mines.

M. Simonin, a French savant, publishes the result of some very interesting experiments made by himself on this sulject. Until now the only researches made at considerable depths tended to fix the law of temperature in regard to altitude. M. Simonin's experiments were for the purpose of ascertaining the increase of atmospheric pressure under similar circumstances. As this increase has generally been found to be 1 millimetre for every 10 metres as we descend, it remained to be seen whether the same would be the case in the shafts of mines where the air, confined in a narrow space, is at the same time exposed to the action of a powerful draught, and more or less impregnated with steam, and at various temperatures. Operating in very deep shafts, the author had the oppor tunity of bringing the barometer below the level of the sea. His experiments were condncted in the basis of the Saone and Loire, where the coal pits of the Crenzot and Epinac are situated. The shafts are here 400 metres deep, and since the average leading of the barometric altitudes at the orifices is about 355 metres above the level of the sea, M. Simonin operated at a clear depth of 45 metres below that level. From his observations it appears that at Epinac, as regards temperature, there is an increase of 1 degree centigrade for 50 metres of vertical descent ; and, as regards pressure, a rise of 1 millimetre in the barometer for 11 degrees of verticall descent. At the Crenzot there was an increase of 1 degree in the temperature for every 40 degrees of vertical descent, and an increase of pres-

of being turned so that the surfaces which have formed | turned inwards; by which arrangements and construc- | sure of 1 millimetre for every 10 metres. The averages, part of the interior of a furnace for a time and become thereby burued and worn, are turned away from the interior, whilst other parts of the rollers which are new or have beea restored or re-made are at the same time
tions of furnaces the parts most liable to wear are readily restored without stopping the furnaces, whilst the parts of the rollers which have for a time been interior of a furaace can, when turaed outwards, be
therefore, are: For temperature, 1 degree for 45 metres; and for pressure, $\mathbf{1}$ milimetre for $10 \frac{1}{2}$ metres. N. Simonin has taken care to operate only on shafts through which pure air enters

## Ahtining summary

Colorado.
We extract the
General ticre
connes to us berat
 1561, 1si2 and 1sGt wre very mith, there being but few
ctoudy days and wery little snow ; the two suceceding winters were very cold, the winter commeneing in the
 warm and pleasiat. The smmers are dry and hit
during the day ant cont at night oa the plaits; aiwarscool and pleas:ant in the mowitains During the
 that at least once-thirl of the 1 lhansof colorato centain that that theory is correct. As yet, very few coal vein
have been epened aud worsed, and most of these ar on lands that had been survesed previons to the dis
covery of the coal, so that the amout foumd an returied by the mirreyors is comparatively small. In
a comutry where there is not a streant that doos not


 ED.). Spathic ore, yidding sevent-tive per cent. of
iron, is fomm tin vens hear Goldencity, and there is mo part of the Territory that docs not prodnce iron in crected during the cominy year at Goden city, for the
purpose of prepring rairead iron, for the sairond

 varions parts of the Territory. But one saline is yet
worked, foated in the sonth thrk, ind worked only in a small way: price of salt, twenty cents per poind Oil Creck, producing about two barrels per day; price
of retined oil, $\$ 3$ per gallou. © Oher oil springs are found along the tave of the monutains, but are not
worked. A small mill for srindink syimu is rumine on fear creek. Lead, copper and ant ineny, though
abuudant sud a great source of future wealth, will hut pay for mining now, aud minst wait the coming of the
railroad. Late in the fall of lsifi, silver wis discovere on the high mountuins near the headwaters of Nonth
Clear creck, but the latemes of the season and the great altitnde, prevented any derelopments until this
sumuer. There are now solue three hundred miners at work in that district, with crery propect of onceces.
The ore assiays froul Bol to s.iobi to the ton, of silver, but how extensive the veins are is yet to be the ermined,
 limits of timber, in a portion of country to which aecesse is had unly br a hurse trail, no that it will consume the
rest of the summer to get a road luitt, and faily teot the ores by the application of nacho is aluost at a stand-stilh, only 1,50 onices per werk is,
being pronluced in the h hove mining resion of Culorado, and the prodnct for the vear will not exceed t,pno, oun. high prices of thaner, and the hudian war. The speenta ofd mills in order to introdnce new miachincry. This
 the ladian tronbles, and the conse nuent high price of frcight, which rose during the winter to 2.5 eents per
poumb, and even now stanls at 15 cents. A fum of the new mills are now in motion, but at the present cost of expenses. Maily companies are donng huthethins ; onile waiting for machinery some experimenting on new gg their affiars to ign want men, and sone who never sf to sto per day; board s20 per week; hay in the
nines during the winter was 25 cents per pound, and in the summer 4 cents ; yrain of all kinds from 19 to 2.5
 and itt order, by the timul! mill process, a ton of or can be mined and trate d for thirty doliars. If all the
gold could be extrinted lhe provits wonld be enornons average, mope than twenty per eclit, of tio assay, mah worth only forty dollars, or but ten dollate per tun profit on the richest ore here. There are, perlhaps, ten lodes
now worked in the Territory that contain over $\$ 200$ in gold to the ton, and these alone can be worked at a profit. The number of lodes that contain from 850 to worked with protit with labor at 82 per day, or by any Trocess that would extract ninety per cent. of the yold. the Pacitic hailroal to some point witlin the Territory. Every hundred miles of that railrow conepleted wiil when the whole is completed there is not orke of and the
thousands of lodes in Colorado that will not eontritute its slare to the wealth of the nation. The government will expend this year on the Indian war, and the pro-
tection of the line of commmnication, enough money to build the railroad to this point. The railroad would
put an end to all trouble with the Indians, and add wil
liums to the resources of the nation. The government
gives to the raitroad companies enongh to buid the road, and vet, atter three years of talking, not one bar
of iron is laid west of the Missouri river. The question hether any pracess could be invented which would ave all the gold in the ore, is being tested by every which bid fair to succeed. The tirst is a disintegrating rocess by which the ore is reduced, by means of superrated stean, and at the same time freed from sulphur. It is then amalgamated perfectly, so that ore which
 thicr process first erushes the ores, dresses them wit water till nothing but the sulphurets remain; these
we then smelted with lead and other fluxes in a furnce, oobl, where the cold and silver are fonnd in the lead, hile the copper aud iron remain in the slag. The Both these processer are new here, and will have to
stand the test of work iny on a large scale; but the exstand the test of working on a large scale; but the experiments, so tar, 111dicate successs wishoud mis sles wirch of the machinery that has been bronght here and revolionize the whole system of mining in Co durcts of copper, and contain from ten to thinty-five cr cent. of that metal, At present the copper is no inth smeiting, except, perflaps, a simgle frinaee migh to gold ouly prepares the ores for reduction to eopper, opper can be mmelied. . A correspondent of the Ata, at troldint, gives the forming items concening upper toor a "Blake" critsher breaks the ore to about ball-grinder ormed of a revolving iron barrel, with the staves hout one-sixtechth of an meh apart. Within the barrerize the oro until it is fine cuough to pass between pper floor, wher (up of the furnace), afterwards being scraped by a rake ato long who, whe an arele it moto an ele vator, which carrics it to the upper floor
again. Herc, after passing through a screw, it runs nto an iron pipe, four inches in diameter, at one end of which is a sluall blower, and at the oller the fireplace onsisting of a circular sheet irou stove, three feet in diancter and three in beight, lined with fire brick. This tirephace ope the mulverized ore throurl the thare In the tirephace (emsing the sulphur to ignite) into the finnace, where the ore, coming in continuously with Haming sparks, heeps the whow mass in the furnace on tire, mutir alf the suphur has exhausted itself and the farnace is full. The vapors and fumes pass off through chimes. The ore is then scraped out of the farmae into a vault below, and is allowed to cool. It is then carriced by eteviturs to the second floor and fed through At hopper into small ball-grinders, on the same principle Cach, of cast iroh. These pntierize the ore as fine as (urslies to the square inch) into a vat where there is a stream of water. The ore is mised with the water by revolving combs, and the mixture then passes out of the eat pe pipes ont of a wadtiooard, and are kept oscel lating by machinury. These work: ean, it is stated treat forty tons of ore daily, and only require eight hands and a thiteen horse-power engine to run them1, saving the precions metals, has cansed Cotorado stocks every propect we shall have lively times sloortly in few weeks it is expected that some twenty mills will he rolling ent the gold. The Naragansett, Gumell, and
Smith \& farmice mills aro doing well. The Black Hawk Company, ono of the strongest in the Territory will soon have sixty stamps going on the old process are going to build for that purpose. The loeat paper athost daily report sales of minng property in the Last,
and sonctines in Earrope. Many of these, $I$ an afraid, are not founded on facts, or aro the py exaggerate betore ther reach the sanctums of the purvevars for th
press. 1 t is not likely that many large sales will bo eticeted before some good dividends make their appearance. . . The Hope Company (Baltimore capital), who list year purchasce part of a celebrated lode, known as thinery to work' the Keith Desulphurgeer, at an expens chincry to work the Keith Desnlphurizer, at an expens
of over $⺀ 250,006$, is cleaning up $\$ 2,000$ per week, and ex pee to treble this yield when they get all their shaking
tollus it work. The keith process for desulphurzing refractory ores hus cost its projectors a lare sum o mone suld much time and patience to perfect. It is mythung evee in the tield, always exeepting the old and the survey is being made to connect the gold mines of Gipinin comnty with the coal mines and water powers
on Clear Creek near Golden City. This road is beom ing a necessity on account of the seareity of woed in the mines. By it the ore will be brought down to the coal to be treated, and the coal will be carried up to the mines for hoisting ore. This road will be built from iron made here, and will be 22 miles long. . The werland stage Company are now enyaged in making a This road will shorten the overland route about 100 miles, and passes throngh the finest agricultural portion of Colorado, and a part too which as yet has not reen settect, and wheh win need surveys as soou as the the Territory has overy appearance of prosperity. The towns are being buitt app with brick buildings, and town property has adfaused in value.

Santa Clara.-There are now about 1,300 men ngaged in mining, reducing, sorting, and other work at the New Amaden Quicksilver mines. The company have recently ereeted hew and very extensive reduction will be put in operation. It It is believed that a large saving will be made in the quicksilver by this improvement, and that the company wil be thereby enabled to work at a profit, a lower grade of ore than they have the main tarel may thome considered refnse rock thoo poor to pay for workiug by the old proecss-had accmulated in rears gone by and the company are now overlauling this, sortng it down closely, and working it, getting hansdome returns from Prospetial Prospeeting is constantly going on, tunels being run
into the mountain in every direction, and new leads of smaller size than the original Xew Almaden, developed and made to yield their quota towards the grand aggregate product of the mine. The "Cora-Blanche" is the
most extensive and promising of these new leads. The most extensice and promising of chesene carls. The much below the stand el of fea seare since but the improvements in the system of rednction, and the thonsand and one labor-savigginventions brought into uise be the present company, euable them to work a quan-
tity so much the greater, that the amnal production is teadily increasing
Placer.-The sluices of the Beloit clain at Dutch Hat, says the Anburn1 stars and Stipes, were visitect one migh scamps ot nething the comby ed $\mathrm{pp} \$ 1.900$ from 14 tays Company cleaned up recently and got a handsoned dividraulie the result of 17 days washing. The Yuba Ditel, wlich supplies the mines in the vicinity of Gold Run with water, has been seriously damaged ly land slides in
the vicinity of Bear Valley. Worlonci have been cin ployed to repair it. An inmensely rich vein of tharts passing throngh the Fair Hydratic claims, situated on the ravine hime since soith of Gold ran, mas un size and value from $\$ 5$ to $\$ 25$, were fonnd, in aidition to whiel rood assays have been oltaned trom all tions of the ledge thus far tested. . . . Last week the Rough Gold Company at Bath elcaned np from one
week's run 173 ounces of gold. The previons week they eleaticd up over 160 ounces. Other compuies in thic vicinity are doing well, but we have no nigures fron them. A A very rich quartz ledge has been struck in Anburn. . . The Mincrella quarty claim in Baltimere Ravine near Ambirn, orncabr Mallet in iney, is, say best in the district. The lelte is atout a fot in widt and the rock taken from a shaft sumk on the ledge t Hie depthof thirty fed, shows considerable tree sol Five tons of the rack taken fron near the surface and
erushed in an arastra, vielded ower an onnce of gold to the ton, while a trailings. They are yow tikin? out rock which the believe to be much rieher than that which they cruslied Mallett d Havey are now negotiating for a mill, whic hey design erecting upon the ledge, and which, no Conbt, will prove a renmemerative enterprise to them. the ledge below the betton of the shaft-a work which will greatly facilitate the getting ont of rock. $1 ;$. We understand that the hydranlic diggings owned by B. F. $\$ 6,000$ per week. Near by are the claims of hathburn alizing from their lydraulie claims all the way from 83,000 to $\$ 5,000$ per week
Mariposa- - A rery rich specimen of copper ore fom the Buchanan lode, simated on the head of the Detta, by hev. J. Mckelvey. It looks as though it was nearly all copper, and Mclielvey assures ns that by
smelting in a common forge it vields 75 per cent. of pure netal. The lode is five feet wide and rich all the way. state in eopper. shipped for San Franiseo, lately, 86, 133 pounds of cop-
per ore, from the Union mine, Copperopolis. .. The lariposa Gazelte of April 7th says: The predictions of certain wise ones that the copucr mincs on the Chow-
chilla were of no consequence, are not likely to be verified. Agreat many wins of nearly pure copper have the mines giving ont as they are smin npon, they increase in richness, watr and permanency. The vien at Buchauan Ifollow is live teet thack, and of the richest his smelting works twent-sesecth hours, and the pro-
 Shent the Curer
Shasta.-The Courier of April th records the following mining intelisgence: On saturday last tho twelve days with ten stamps and twelve days with eight stamps-an averago of twenty-four days with nime stamps. The result, as assayed be E. Lewind do., was
tho snag sum of 85,37131 For this rum the counpany
divided $\$ 4,290$ to twelve shes divided 84,290 to twelve shares- 303500 to the share. The roek erashed averaged $s 20$ to the ton. The com-
pany now have their lode stripped one hinndred and fifty feet-from top to lowest tumel-by four hundred thiek, and going up it varies from five to eight feet. There is another tumnel in over four hundred fect, and some two hundred feet lower. We are assured that tho company ean easily select rock from which a run o
$\$ 15,000$ or $\$ 20,000$ could be had in a ferf days crushing
if it was at all desirable to get up a sensation. We are
somewhat particular in giving these returns, from the fact that there are outside barbarians who lack faith in the richness of our quartz lodes. We find that a company at Middletown are going to erect a flume some Diteh to some mining ground discovered and prospected Gulch. This flume will not only furnish the company's claim, which is rich and extensive, but will be of sulticient eapacity to alford water for hundreds who can and will occupy ground below it. The Horse Shoe Bend the capacity of the tumel, and a river bed of over three miles will be laid bare to the operations of the hardy miner. The 1'otosi mill started last saturday. It bas four stamps and two pans, and is propelled by a hurdygurdy wheel, and it by hydraulic power. Afembers of be company assire ns that it works like a eharm. As a beginning, the mill is working up a lot of loose truek
that has been lying around, and on Monday will commence on Potoski rock.
Nevada.-The Eureka Mine, says the Transcript of April Gth, is located at North Sani Junn, and is the parties who took up this cham a number of years age, expended $\$ 180,000$ before a cent was realized from it. About a year ago the original owners sold to a San Francisco company who are how working it. At the time it was sold it was paving from $\$ 15,000$ to $\$ 20,000$ at each taken out in one ron of ten doys was upwards of $\$ 30,000$ and to-day it is paying as well if not better than ever before. Whe celebrated Yuba Tumnel at Sebastopol, in Bridgport township, is nearly completed. The ring the vear 18t0. They have worked constantly on it for the past six years, and expended an immens amount of monev. It has cost them as high as $\$ 40$ per amount being paid for a few ivet only. Itse distance
already run is 3,000 foet. The claims, owned by the already run is 3,000 feet. The claims owned by the could not be worked intil the tumnel was completed. Juan to Timbuctoo is belug successfully worked. Arn great many of the chams between these two places have not been worked for vears until this season. They men. . . The old lalmer diskings, which has been unworked for several years, were started up at Sebastopol a few weelis ago. The company cleaned up, last week, a large amount of dust. . . . Kerr, Falcon \& Co., ship, are taking out an immense amount of money A blast of 300 hegs of powder was let off in the Golden Gate claims, at North San Juan, one day last week. This blast shook the whole town, and in a house near by a man was thrown completcly ont his chair while readung a paper. Considerable damage was done by
the breaking up of pipes, hose, flume, ete., in the diggrings. scarcely a piece of the cement can be picked up in the Golden Gate claims but what is filled with gold. . We understand that several very fine ledges of quartz have been tiseovered on and near Bush creek during the past few weels. One of them is very rich
indeed, and the ledge is extraordinary large. French Company, at French Corral, cleaned up week, one run of ten days, the sum of $\$ 27,500$.
Crall $d$ Co., owners of the American Company's claim at Sebastopol, are preparing to put in their elaims a
blast of 600 kecs of powder. The eement which is very rieh, requires to be loosened and broken hip by claims have been paying on an average of \&1,000 pe day during the whole season. . . The Knickerbocker Company at North San Jnan put otl' a blast of 200 kegs of powder last Thursday, which tore up the ground for ing the same kind of cement as that of the Golden Gate and Ameriean companies. . . From Birchville we learn of the unparalleled prosperity of the miners. At
ths last clean np of the San Joaquin Company they took ont $\$ 8,000$. The Kemebec and American companies near by, are now taking out an enormous ampant o money. No claims in the connty pay more regularly of Adril 10th siys : A contract has been taken by the owner of the Pilmer mill to crush rock for the season, taken from the star spangled Banner mine. It is estithe Banner mine every twentr-four hours, if mills enough could be scenred to crush it. . . We nnder-
stand it is the intention of the owners of the Talbot guartz ledge, at Willow Valley, to put up a mill upon their ledge some time this season. Thev are rumning We understand that a company of Portugese mining at Pleasant Fat struck some very rich dirt one day last week. At one chenn up they realized the sum of f1,500. in constant operation worknug cement which are kept in constant operation workng cement. The claim of
Buckmand Curran, which has an eight-stamp mifl, is paying handsomely. They commenced running about three months ago and lave averaged 81,509 per week in the working of the cement. The top dirt, from sixty to eighty feet to the cement lead, which is washed off and run throngh shuees, has averaged $\$ 1,000$ per week-
making the weekly returns from this mine $\$ 2,500$. The making the weekly returns from this mine $\$ 2,500$. The
other mill at that place is owner by Pond \& lemington They have just struck the celebrated cement lead, which prospects from $\$ 10$ to two ounces to the paa. They will commence washing their top dirt in the ceurse of a week, being the same kind as that of Beck
Siskiyou.-All the Chinese claims on Lower Hum bug, from Frenchtown to the Klamath River, says the rain storm, but the Big Ftume Company is all safe, hav ing been busy gromnd-sluieing since last ande, hav Mining on Lopg Gulch and Canal Gulch, north of torn
has been paying rich lately, some of the claims realiz-
ing as high as $\$ 100$ a day clear.

## Idaho.

At a public meeting of the citizens of Boise City and vicinity, recently hold at that place, for the purpose of devising the necessary steps to be taken on their part to secure the establishment of a United States Branch Mint, a Central Committeo was appoint consisting of Joseph Miller, John Cummins, Hill Beachey, and U, statistics and da cions metals prodnced anmally in ldaho. The following ics and estimate were received from the ditierent committee. Hon. W. H. Parkinson furnished the following statemeut from Pioneer City, Boise, March 7 1866: "The amonnt of gold dust faken from the pionce Distriet, according to the best information 1 have, wil
not fall short of one million $(\$ 1,000,000)$ dollars for the vear 1864; my opinion however, is that it will exceed the above amount." There are many other ricl and extensive mining distriets lying within Boise county ; the gold and silver prodnct of which cannot be asecrtaine at this the. From the most anthentic information a ing estimate will be under the actual amount of bullion and gold dust prodnced and taken from the mines in Boise connty and its immediate viemity: $\$ 400,000$ per month; or, $\$ 4,800,000$ per anmmm. Mr. L. Hartwig, Minung Engineer, whose long experience in Mexico as a and whose perfect familiarity with the extent and mine ral resources of the South Boise eonntry, reports as
follows to the committee : The number of mills in Alt ras county, which lies withim one hundred miles Boise City, may be designated as follows
Harris Mill
1daho Mill
Farnham Mill
Waddinghau Mill
Libby Nill.
Nelson Mill
Maj. Speers Mil
De Frees Mill.
Total number of Mills.
12 stamps.

There number of Stamps...................... is is estimated that operation about twenty arastas. It rected within six months in the Yuba Distriet, with nerease of mills stamps each. But should there be no tion and course of construetion, the amount of bullion from the mills and arastas as above designated, mus placer mines is variously estimated at from $\$ 120,000$ to $8: 265,000$ per is vam The committee is of the 000 that tho amount will not fall short of $\$ 120,000$ per year There can be no donbt but that every dollar invested in the mining and milling property in the South Boise well directed labor due skill in the reduction of the with and the necessary amonnt of capital to upen the mines, under the management of prietical and eompetent me the south Boise mines will rival the richest found on tho continent. The milling companies have had much o contend against during the past year. The disadvan gainst, and which, in many respects, are common and nucident to new enterprises and operations. The late ness of the season at which their mills were eompleted the severity of the winter-wheh prevented the openng of the mincs and the transportation, oroch op against and avoided in the future. . O. H1. Purdy furnished the following from the Owyhee Mining District :
Number of cing star mil-ELOHT stamps.
umber of days running time
${ }_{7369} \begin{array}{r}426 \\ 5-8\end{array}$
Am't of bullion up to M'eh 9,1866...... $\$ 1,127,617.39$
More, Foque \& Co., Proprietors.
minear mll- Five stamps.
Number of days rumning time

| 136 |
| ---: | ---: |
| $1,1013-10$ |

Am't of bullion up to M'ch $9,1866 \ldots \ldots . . .8172,860.16$
More, Foges at Co., henters.
This mill has been rented by More, Fogus \& Co. since
eptember 10th, 1865 , and working "Oro Fino" ore. Jackson mill-FIVE stamps.
Number of days rumning time
tons ore reduced.
${ }_{431}{ }^{37}$
Am't of bulliou up to M'ch $9,1866 \ldots \ldots . . \$ 48,084.19$ This mill has been rented by Yore, Fo, di Co. since ctober 10, 1865, and working "Oro Fino" ore Number of days running time

$$
\begin{aligned}
& \text { tons ore reduced. } \\
& \text { ledges ore taken }
\end{aligned}
$$

Am't of bullion up to Feb. 1,1866
73
124
8
Co., Proprietors.
The following is the report of the Mlinear Mill-five stamps, from the time it first started up to the time ngaged in prospecting ore from the Morning star, Roxbury, Allison, Whisky, New York, Caledonia, Home Tieket, Ophir of ldaho, Ladd \& Reed, Golden Eagle, Oro Fino. Eur
Badger ledges:
Number of days running time.
150
1400
tons ore reduced.
140
Amount of bullion......................... $\$ 100,000$
In addition to the aboye, but of which I am pot able
to give returus at present, are the Ainsworth Mill, of orking ore from the Oro Fino Extension, Poorman Trook \& Jennings and Columbia ledges. Probable womt of bullion, $\$ 500,000$.
Shonebar Mill.
New York \& Owyhee Mill
Cosmos Mill.
Grenzebach Mill
.20 stamps
-1il...... 20 6 10 ported. Next sesson they will be in successful operaion, and will, without doubt, yield over $\$ 4,000,000$ in
bullion. ullion.

| of M | 10 |
| :---: | :---: |
| " Stamp | 102 |
| " Days rumnin | 8 |
| " tonis of ore rednced | 10,336 1-1 |
| "* ledges ore taken | - 31 |
| Amount of bullion. | 463,755.7 |
| Average yield per ton |  |
| Cost of transporting bullion to San cisco ta 8 per cent. | $\$ 117,100.45$ |
| Cost of transporting coin from San cisce to Owyhee © 4 fer cent... | 58,550.22 |
| Total expense | \$175,650.67 | It is difficult to estimate the amount of shipments of

gold dust from this county during the past three years. In addition to the above the committee received from Hon. Gilmore Hays, the County Recorder of Owyhee ounty, a systematic report, corroborating the faets so A. Chittenden, report of Mr. Purdy; also a fetter from entleman of great learming and scientitic attainments. The Committee also reecived from a very creditable source the following statement, showing the amount of reasure passing through the olfice of Wells, Fargo \& Co. at the Dalles, Oregon, from April, 1865, to Septem-
ber, 1865 , a period of six months:

|  | from cantos. | pales. | trp ruver. | total. |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| Mfay | 34,567 | 112,050 | 500,000 | 616,207 |
| Jun | 47,242 | 100,000 | 550,000 | 697,242 |
| July | 56,308 | 108,000 | 475,000 | 639,308 |
| Ang | 52,459 | 135,000 | 440,000 | 627,459 |
| September. | . 51,606 | 207,000 | 450,000 | 708,606 |
| Total, | \$275,905 | 800,500 | 2,815,000 | 3,891 | Total, $\$ 275,905 \quad 800,500 \quad 2,815,000 \quad 3,891,405$ mount was shipped from the "Wo-thirds of the above Boise Basin mines, to that of the Dalles, or any other intermediate foint. It may be said, withont the least disparagement to the other prodnctive mmeral localities in the Territory, that owyhee has advanced more rapprise of Messrs. Atore, Fogus \& Co. is to be attributed the favorable impression at home and abroad of the Owyhee mines. The hberal spirit which has eharacpany have only equalled their merited snccess and im-

Owyhee.-Upon invitation, says the Owyhee Avalanche, we visited the Dardanelles ledge. It lies at the Silver, and the same distance west diseovered abont six months ago by Messrs. Harkin Frankin, and Bell Brothers. The discovery elaims in Messrs. Dewey, Musprave, Mecian and Fingerlee are owners. A tunnel, run directly across the ledge, show its actual width of solid quartz to be forth-three feet as meet in the botton presence. A shaft is sunk twenty-nive feet in the botton, and about forty feet from the mouth the north casing of the ledec. The ledre bas been traced by labor and croppings over three thousand feet We only heard of one extension being taken on the the North and two on the south. The diseovery partie are interested in the extens. A. Also E. Bohamnon an the sontl. The croppiges are twelve feet wide on th surface, or the second sonth extension. The course of the ledgo is North and Sonth, and crosses the head of Hich Gulch. Its richness is unquestionable. It has have been inade from different portions of the ledse D. Ar. Bohannon obtain ed $\$ 183$ in grold from two and one-half pounds of roc by hand process. Mrs. Harkin has prospected all qual ities of it, and obtained tlattering prospects each trial By burning in the stove it blisters richly. After burn
ing a small quantit? this way, Jtrs. H. panned out the ashes and got half an ounce of sold and silver globules Messrs. Dewy and Mfusgrave have subjected the metai to acid tests, and are certain of its purity. The smal bricks obtained by hand process are worth from threo to four dollars per ounce. The small clay seams run-
ning throngh tho ledge are full of free gold. Every pound of it vields a splendid prospeet by the process. These are no sensation statements. The dis covery was kept a secret intil this week, for good rea sons. In the meannme, frequent tests have beeu uade and work has progressed vigorously. The attention of the secret was easily kept. There is a larce tract good timber at the mine and an eligible milf site, both of which are elaimed by the Dardanelles Company. We believe this the most mportant discovery made in Ida ho, not excepting the Poorman. With a small outlay stamp. There is no possible show of its being tied up
by litigation-the bau that aftlicts most valuable ledges.

## Montana.

The Montana Post of March 17th contains the follow ing interesting intelligence concerning the Indian diffine : Four mies south of Benton, ou shomkee creek the chief, Big Lake; thirty miles aorth of the forts on
the Murias, is Litile Dop, with one hundred lodges,
The Bloodp and Blackeot ire in yery strong forec ncar
 Thee in large numbers within the past tew moveths peaceable of all, and express much sorrow for the must der or Euniche and Le.rree. Four hundred of the war
riors ame
 the last threce monith therer have bece elleven men billed troubles, a great stampede among Bentonian squaws is reported-the duaky mistresses learing the goowl


 whites, who left here some time silice, are repported have arrived safels at the month of the Musce shell
Reeculty, fonr Blackeet stole an ox from theun, andid lee iow detected whill lintelcrering it three of them wer
killed. A tew Flatheals, who had aceounpanied the whites, were immensely tickled with the seal les, and are talking of havine a big dance, The same paper of pitly dinpatelh was received by us on Thurstary eve. ning: "Friend Ben : You may' toot the old hoin and

 greater than ever known to any minues before", The

 extracted antuon or wiver, by wething, with the and or
 lion extracted, aceordiny to billetts esestimate on trinl of Ata California, Helena, writes as follows :" 1 was hait faverally iupressed with the appearanec of Virginin
City, Montanla, upmal my arrival tuere. The town app pearrs to be settled ly a difierent elass of people from
the minuing tawns of California and Nevalda. There doers not appear to be the satue energy and enterprise The town was built ap upon the dixecovery of pold on aud very yirh. I have heard very lirge estiwates madd
 frty millious, and the
 amount of treastre taken from the gulch, and 1 do not think numch aver hill thas been takece ount, it teing very
 bark, the prodiet or mint ivar the town; the superiuthe ton-mill process. The maclinery becing imperfeet,
they work for the free gold. Helena is ibout oue $y$ ear
 and activit, and is margerp pince. tirgima, it is said, Place betwecn three and font thoussand inliabitants.
 instance, nearere are severeral thartiz mills suilt and hee every week from titeen huuired to two thonsanid dol
lars in
Kold
; the
vield per ton 1 did not learn. Ther are a mumber of uills to to ecrected thiss cear. Haxing
been llere so shoort a time, it is impossilec for me to
 there are vert rich miutes here, but how extensive the are $I$ do not think any one kinews. Aew discoreries ary
made every week, mill a stampede occurs as oten for made every week, mid a stauppede occurs as otten for
the new digrines. Gold dust appears to bo used as a circulating unectiun, and both coin and legal tender,


 keep it on land tor momthik, ,ometimes, waiting tor num Poprk overlaud. sonctinees severral nuite, procure

 city. 1 telieve if a liwe of stages were pit on the
Hinimboldt ronte, and Wells, Farro. Co.s express carried it ower to san Franciseo, that all, or erearly all the
reasure of this Territory would
go, that way to Franciseo, and it would hive a greater tenderey to did vert the trade to san Franciseo than any movev that
could be male. The bankers and merchumts here all greatly desire. to have an express eestabiblishecel. The eal
 cisco, were there an cxpress to that point by which rame conld ship their treasure. They would seidid tlieir bars or dhast to San Praneisco, dispose of it to the buukers
there, and have them place the proceeds to their credit there and have them place the proceeds to their credit
with their New York correspondents. This, it appears
 this Territ.
Franeisco.

In conversation with the repreentatives of some
tenvy St. Lonis honses, who are laryely interested im
 adnitted that the trade of the Territory was , pon a
bilance whether it would po East or West, that whatever party held out the greatent inducements wonld b pinion, a responsibile exprress to sau Franciseo would be almost certain to take it there, for the supply trade wonll follow the treasure. The agricultural nterest of this Terrimery 1 do not took upoun as important, excep fhey conld have no market for their produce; but hew They have a home markef for everyting they produce. rown here. it it the liest wateres country have ceen There is scarcely in valley throngh which there is not
 been ammeed at times to hear the extravagant exprecsions nsed by the people of this Territory in prase or
He country and cimate. One entlusiastic individual the country and elimate. One entlusiastic individual
wliom 1 mett at the station just after llad crossed the
 there were valleys in Montana that were as warm the car ronnd as the levee at New Orleans. Ithought that yon cond ther the clinate of sontaua, partieuarry as nily valley and see sulow within hall a mile on the hinls wards, I met another person, (whom I supposed to be like myself, a stranger in the comntry, but who, I after wards ascertained, was one of them, and was telling in saying that the climate was as warm as New Orleans when he, with the gravest countenance imaginable, ex claimed: "That is true-no doubt about it !" "Why, where the grasshoppers live all winter!" That story let me out, and pertectly satistied me as to the clinnate of Montana. I intended when I passed throngh that theni to Barmum, giving him their history, but as the not get any grasshoppers. But, jestiug aside, the eli-
mate is very ditferent from what I expected to find it, and 1 was agreeably surprised. After crossing the Montana, it is like getting into a very different climate and is not so cold as it appeared to be on the west side of the divide. The road from Virginia City to this town, for a great part of the way, runs throngh some beantifnl valleys; the road was perfectly level, smooth The farmers all aloig were building fences and prepar ing to cultivate the soil. There will be considerable touring barley raised here this seasou; thereare two will be erected in different localities this year. A year ago the row dies and desperadoes had complete posses people formed a Vigilance Committee, and, from wha leau leam, have pretty effectually eleaned out tha class, having disposed of about one huudred by hang ing. The Commmtee is still an organized mstitution and is a terror to evil-doers. The community is quie the 1 wepetrators will he sure to hang; ; in lact, there are
very few ontrages committed. I expect to leave her in a few days for Confederate Guleh, a very rich mining camp about thirty miles northeast of this, and will re tance west of this. The Blackfoot and Deer Lodse conntries are said to be very rich in placer diggings There was quite a stampede to a new di
Creek, thirty miles northeast frou here.

## Nevada

Austin.-Recent errespondence from Austin to the Philadelphia Commercial List states that: "There are now ing the wiuter but little progress was made upou them now, however, large forces of workmen are busily en gaged dressing the stone, aning the brick, framing the etc. Those already tinished are constantly elattering away upon the argentiferous ore. Besides the mills, there are many hoisting works in course of coustruction -one but a few steps from Main street, just west of the Court House. One has just beeu set motion upon usial, a large amount of work is progressing in , as various claims. In the Revenue Extension some fine developments may shortly be expected; Providential at
work sinking; Morse struck a new body of ore Savace taking out large quantities of ore, and producing more bullion than any other mine in the district; the Washnastou is now raising some splendid ore. During the assay, at the different establishments in the city, 25,241 ounces.
twenty
iles sonthw
Lone Monntain is situated some twand so silver Pul. On Com sar Antouio, near the the supposed scarcity of water, it had generully been avoided by the passimg prospector. More tham a year some ore which they had found there rich in copper,
but as that metal at present, in a locality but as that metal at presen, in on locahty so remot atteutiou was paid to the discovery. Recently, however, another party visited it, brought some of the ore to Mr. E. E. Rotte, who had charge of the amalgamating department of Hunt s Mill at Sanintorio, who assayed it, and found that it contained a large quantity of gold tions are now making to erect works for the reduction of the ores. Notwithstandiug its look of extreme sterility, an exptoration has disclosed that its canons contain considerabte water, and that its corrugated side in many places abound with timber. This mountain is reached the sinmmit to be the most lofty of any in th regiou. A working test of the ore gave the fine yield
of two hundred and fourteen dollars in gold, and twentyfifty aeres in extent, lies. near its base. From present
indications this isolated "Lone Monntain" is hliely to Hunt's Mill, San Antonio after the deser Hunt's Mill, San Antonio, after a few day's work upon of bullion. The mill is at present tde, the Lee not being sufficiently opened to furnish a constant supply of ore as was expected, and as will be the case when properly
explored. The mill company is now trying to nerotiate with the Liberty Mining Company for a supply of or I haey having several thonsand tons at their dump, but some reason, are not favorably disposed toward the mill company, on account of supposed favoritism slown at first to the Lee. Mr. Curtis, snperintendent of the
Macedon Company, is pnshing the work of development upon this company's mines alhead with snecess. fine mill, I nuderstand, will be erected by this company the ensuing summer." : : "Jimte Moontans.-The
Virginia Enterprise says: "J. P. Suanlding and a mat uaned Calalep, who have heen prospecting in the What Momintains, abont 50 miles sonthwest of the silver leal
District, have discovered and located 16 ledges, varying in size from 3 to 12 feet. They named the new district the White Mountain. Some of the veins exhilit gold without a trace of silver, and others silver withont a
trace of gold, and others again contain both gold and

Pahranagat.-Recent corre-jondence to the Alla "I write, presuming that a few items descriptive of thit new silver mining camp may be of intercst, especiall as its early development is identitied with the commer cial interests of yonr eity, situated as it is near the head navigation, on the Cororado niver, by which way i isco than by anve other route. It lies one limmedred and hirty miles north of (ally buting in the sonthens crin corner of Nevada, and three hundred miles sout of the Reese River district. Quite a rush has alread taken place from the districts of Washoe and liees o see the man who hiscovercd locatie, and have yo had experience in quatz, who does not conenr in th pinion that there are no more promising mines to b fomd in Nevada. There are some three incorporated companies, working with New York capital, who have
their mills now on the way, and will commence operaions at au early day this summer. The discoveries have thus far been confined to a helt of monntains emChey in three miles by ahout one mile in width eparated by narrow procipituns, broken into spirs, and and pine. The ledges in many cases may be seen con mous for a quarter of a nile, standing above the round from six ta thinty inches, erowning the tops and were struck about a year since. Attention had been revionsly ealled to this section as a mineral country miles east. An Indian, learniug from specimens seen in the hands of the miners, bronght to them a piece of silver-beariug quartz, taken fronn what is now known as
the Bay state Lode. The tirst locators here were old and experienced miners, men who mily appreciate the necessity of capital in the development of the wealth who would bring in a mill and werk the ore at a spei fied percentage, might be sure of reaping a rich harvest. Its situation, just outside the riun of the Great Salt Lake Basin, is a reason tor minch milder winters able, unequalled by nuy for hicalthfnluess. Standiug on the highest point of Silver Mountain, near the centre of the miniug district, a magniticent view is obtained distant, you see the fertile valley of Pahranagat, dis tinctly marked by its tall grass. Thirty miles sonth zona, the lake of the same name spreads its shining waters; a low range of bare and treeless mountains rumning north and south hound the farther side of the valley, and still Larther castward are the higher and here and there by sace brush deserts, with an abrup monntain rising now and then from the desert plain On this side, towards the west, the gromnd rises gradu
ally for ten miles, when yon come to the foot of the mountains where the mines are located. The Valle of Pahranagat is forty miles long, by about one and i
half miles wide. It is fertile and well watered by ruuning spring st wiose tran can no where be surpassed. The lands are all taken hab, andiug much of it wil be cultivated this season. In ing Utah Territory. Their range extends to the cant ern slopes of the kocky Mountains, and westward to docile and friendly to all mincrs. Thes lave in the past cultivated some portions of the ir valley, irrigating corn and squash vincs of last vear's growth, still re crop. Their number is about two hundred. They keep no horses or grazing stock of any kiml. The reason in said to be, their more warlike neighbors, the Muddy
Indians, who inhabit the Muddy river valley on thie south, have, in the past, been in the habit of making tives of their squaws.

## Arizona.

A gentleman thoronghly eonversant with the business of copper miniug, and one of the earliest
pioneers in Arizona, asks the Alta to publish the folowing coumumication, as to the probabilities of obores of Arizoua on the ground: "Since my arrival in san Franeisco thave found opinious of arizona not at
all favorable to that country. When I meet any of my
former acquaiutances, after the first greeting they
generally ask me where I have been, When I tell generaly ask me where thare been,
then, I thenerally perceive a desire on their part to get
away, they took on me with suspicion, as if they away; , they look ou me with suspicion, as if they
thought that I wanted to sell feet. Now I wish to iul torm all my friends that 1 Mm 'not on it.'. Though I
lave my share of ground I don't want to sell now lave uyy share of ground, I don't want to sell now,
though a year ago I would like to have sold very much. But things get different, you know. Siuce the Great Central Company havo got a smelting furnaee up, I hold uy copper interest very high. Their furnaces are not very large ones, but as they are only intended
to do their own work they answer all purposes, and will prove that lary work they answer all purposes, wind will subject discussed since institutions. I have heeard the that people have a very wrong impression. They seem to thuk that there is no fuel. Now, that is a grand
nistake, thongh any one to look over the vast plains would be very likely to say that there is not wood go to work cutting and cording np, and they will be astonished, after liaving got a thousand or two thousand cords put up, to know how it was possible they did it,
for, to all appearanee, there will be as much timber for, to all appearanee, there will be as muchi timber
standing as there was before thev commenced werk. know this to be the case, for I have been there. That was at the 'Ajo' miue, south of the Gila, ten years
ago; and though I was one of the locaters of that unine, I forget the exact number of cords cut, but it was a four years aro, I conld not perceive that there was any less trees, and yet that was some sixty miles from any water course, while on the river there is any amount of cottonwood, and besides the great fuautities of wood a speceies of the 'cactus,' that grows in the dry places.
Now, my advice to all companies owning claims in the Williams' Fork, Freeman and Irataba districts (eopper), and those holding in the Castle Dome, Eureka district the distriets above named. They need not be afraid. The Great Central has taken the lead, and at their own expense thave made the experiment, and they are now
proving to those interested in that country that their not in all 'level.' What will work in Arizona will there contain their own flluxing properties, and are very Bulletin from lion.
. Recent corresporidence of the Bulletin from La Paz states: "The surveying party sent from that place to the Colorado at or near Williams'
Fork, have returned to Date Creek, 110 miles east of this phace. They report the route as impracticable, without water or grass, cut mp with innumerable canons
and covered by vast beds of basaltic lava, called by the Mexieans malpais. The espedition has proved a failure, and the explorers will now proceed to locate the wagon
road from Wickenburg to Fort McDowell. It las been very lively here the past weck. Over thirty teams, princi-
pally loaded with Government supplies, have left for Hace, lave, anrivel quite a crowd, tor this nsually duil Wuaderlich, with their families, en route for Prescot, together with Messirs. Samsen, Moore, Noyes, sweat and several others arrived from California oi the 21 st
Mr. Borger has a 10 -stamp nuill which arrived at the mouth of the river on the 12 th, per isabel, intended for some mines in Biy Bug district. Messrs. Samson and
Moore lave two Little Grant engines and crushers (Gardner's, 1 believe. which arrived here on the opposition steamer Nina Tilden on the 20th, and which are
also going out to the vicinity of Prescott. The Nina Tilden, with a barge in tow, and bringing up 140 tons mrrived here from the nouth of the river in 5 thays-
better time than was ever made by the old line. slould, however, in justice be stated that the river is in splendid condition, being four feet above low water
mark. Two stcamers of the old liue are reported on the way up from Fort Yuma. Mr. Reed has left for the Eureka lode, Walker's Creek, near Prescott. two mills at Wickenburg were ruming and doing well. 1 regret that some of your Califoruia quartz miners do not take a trip down here and inspect some of our
पunartz ledges, for 1 believe that within a circle of six miles of this town more indications are visible that have seen, our prospectors saly, bears no comparison with the indications and denoistrations-which I lave is sece-in the vicinity of Prescott. In eopper, there is no question that the miues in the viciuity of Williamss
Fork and at Harcorm, beat the world-the Mine incluted. If any of your prominent copperhead donbt this assertion, let thiem cone down and convince themselves. They can see piles of sacksof ore, guaran-
teed to average 40 per cent., lying on the bank of the river waiting for a chance of slipment, besides thousands of tonss exposed to view in the various mines now
opened.". . We hear of the discovery of a rich gold lead, called the sonora, said to be the richast mine yet
discovered, alout eight miles from lresentt. It is said discovered, alhout eight miles from lrescott. It is said ping out over tive hundred wide on the surface, cropping out over tive hundred yards in length, and pros-
pecting equally well the whole distance. Near by is a good nill site, with an abundance of timber, water, \&c., and good agricultural land.

## Oregon.

The Portland Herald, referring to the reported discovcry "f a rich gold bearing vein near Vancouver, some of the rock has been tested at the Oregon Iron Works, and a yield of $\$ 20$ per ton obtained. A speci-
men estibited to us yesterday, appears to be burnt quartz, of a reddish color. On a trost examiuation, it wight be taken for iron ore, but upon eloser scrutiny
with a glass, small particles of gold prescut themgelvy to view.

## Louisiana.

On Petite Anse lsland, in the southern part of Louisiana, there is a bed of rock salt eovering over one hun-
dred acres, which, during the late war, supplied nearly
the whole of the Trans-Mississippi district. Tweuty-
one million pounds were taken from it in three months.位 it is reported that but a very small portion of the deposit has been cut away.
taking to develop tho mine.

## North Carolina.

Dr. R. P. Steveus of this city has just returned from a brief examination of the mines of North Carolina, and states that te is satisfied that if the mumes in that
State are judicionsly worked, they will yield a handsome profit.

## British Columbia.

Exchanges of April 6, states that in the British Columbia Legislative Councila a motion to abolish the threetures was lost ; the Cattle Import bill was thrown out. The out put of eoal at Nanaimo for March was four
thousand tons ; shipped, tifteen hundred tons. Miners are said to lave reached Lillooet from the Brid ge liver mines, and reported that they had found a district which prospected on the bars $\$ 12$ to the pan. The submarine telegraphic eable which is to connect Vauconver Island with Washington Territory has been landed at Esyui-
malt, and wil he laid in a few davs from the British malt, and will be laid in a few days from the Britisi
Government boat Forward. Boend intelligence, says tho Vietoria Chronicle, has been Becen ined in a private letter from the head of slinsway
receive
Lake. The Lake. The letter is from a driver of one of smith d Ladner's tabogons, or dog sleds. He has been through
to Columbia liver three times during the winter, and on each ocasion tw and courersed with miners the month of French Creek. He writes: "All to whom spoke told the same tale-the diggings are rich and lasting. In some claims tho pay is unform from the surface to the bed-rock. On the bed-rock the gold is
coarser than in the upper dirt, where it is freguently coarser than in the upper dirt, where it is is frequently
tine-not flour gold, but sealy. ** ${ }^{*}$ I saw oue miner with $\$ 500$, which he said hic had scraped together during the winter. ${ }^{*}{ }^{*} *$ I saw one of the parthers
of Lateur Co . This company made hiyou grold last of Lateur © Co. This company made hiyou gold lasi
fall $\$ 18,000$ apiece in two weeks after striking pay. Ho fall- 818,000 apiece in two weeks after striking pay. He
lias been down to Colville, and got back with a good dealof trouble from ice and snow. This Frenehnan said he wanted one more month to work his claim, and
 ${ }_{*}^{\text {the town is in the wrong place-new towns nsually are }}$ ing this winter, with their dogs and sluts. Colnubia liver is frozen stiff across, I went over it twice with my sled. * * * It is drizzling here to-day. It think
by the loth of next month (April?) all the ice aud suow will be goue.". Mr. Nelson, the Kootenay expressman, says that at Fort Sheppard he saw a party who Arrow Lake. Ther reported ten miles of ico on the
Columbia River, above kotenay Riple. Several parties Columbiaa River, above Kootenay lipple. Several parties at this point spoke highly of the dygings, and were
anxious to return to their elainus. The river was opeu anxious to return to theer clains. The roer was open
here. At Colville there was about one foot of snow on the ground. A great many men were at Coville, pre-
paring to start in the middle of Mareh for Beg Bend. -o miners had then returned from below. Mr. Nelson saw the steanboat Forty-Nine lying at Colville; she was being fitted with a hurricane-deck, and is about the
size of the old Fraser steamboat Hope. They expected to run as soou as the ice was out of the river. Scyeral Bigh Bend miners had as hish as $\$ 2,500$, and all the
"boys
seemed to be "flush." On the 25 th of tebru "boys" seemed to bo "flush." On the 25th of February a Chiuaman was frozeu to death at Fort sheppara,
Our informant left Colville on the 1st of March. At Sheppard the supplies were short ; but at Colville there sheppard Mr a yood supply of everything. At frert named John Gallagher and John Claston (both well known in Cariboo), who had taken out of their claims,
in only twenty-six davs, $\$ 6,091$. Th. They coumenced wasling pay on the 5th of the month.

## Canada West.

We understand that considerable preparations are being mate towards the proper development of the
Hull iron mines, and briuging their hididen treasures into proper use, An immense smelting furnace is to ablo the iron to. be successfully and properly brought out. An American company has undertaken to work the mines, and considering the extraordiuary per centevery prospect of their being in full aud paying operaation in thoespring.

## Mexico.

Gold has been fonnd near Santa Fe , and in liaa Arriba county a silver mine has been found whieh was once
worked by the Mexicans, nond which las been hidden for years; and near Los Vegas a company under Mr. they repott round about these mines embraces the sandia Mountains and their spurs, and prospects well for other metals besides copper.

## (bil summary,

## Pennsylvania.

The oil market is lookng up. Says tho Reno Times of 3d inst.: Prices took an upward turn on Monday last ou the stevenson Farm, Benneloff Run and thereabouts onave been filining contracts for several days past, and,
last at present have but a small stock ou land. The
jult jirmness and upward feeling in the market is partially owing to the smalla mount on hand, and partially to the Report of the Committee on Ways and Means, recom-
mending the repeal of the tas on ernde, on or before
the 1st of July next, which will have a tendency to in-
duce small producers, at least, to hold on to their oil if possible, and thus save the tax. The shinment Pittsburgh dwring the past week have been large thent notwithstanding the heavy receipts prices have ad vanced a tritle at that point. The following are the
closiug prices: At Reno on Platform..
Tarr, Blood and story Farms.
Bennehoff Run, (at wells)....
On Pithole, (at wells)...
Petroleum Centro.....................
Rouseville (on bank or Platform)
Boating from Petroleum Centre to

$425 @ 425$
425 @ 40
"

> Tarr, Blood and Story Farms. Petrolenm Centre to Shaffor Ronse ville.,
" "~Reno to Pittsburgh. Empties from $\qquad$ 75
70
West Pithole.-The rec
strike on the National Oil Company's tract, on what is known as tho Suedaker
Farm, two miles above the month of West Pithole, once nore directed attention to this quarter, and a consider course. Omitting these, however, and starting from he montl of the strean the first producing well which is found is called the Greer Well. It was bored last summer, and subsequently abandoned on account of the mimense atractions offered on the other branch of the tresting was recently renewed and although subsided, prodnet of the well is sinall, tho promises aro excellent, and the oil already produced of a very tine quality indeed. Proceeding upwards the next productive point is the Pitcher wen, on the National On Co.s territory, is probably pumping about one hmdred barrels the same compauy have two other wells in an advanced state, both of which will shortly be tested. Between dozen new wells going down, about half of which will be ready for testing in a fortnight from the present is Mr. Jone of the principal operators on this territory enced choice of territory is no small recommendatiou to its general prospects of success.

## Michigan.

The oil excitement at Almont, Lapeer county, is running high, A company from lort hiron has been organzecs there to test the ol territory in the town of
Dryden, seven miles west. Thero have also been five conpanies organized, who have leased several hundred acres for oil purposes. It is now thought by those who
profess to lee competent to jndgo that there are sure ludications of oil in the regions above named. Professor Winehell, of Michigan, says in a letter: "The horizon than any formation which lias hitherto afforded petroleum in productive amounts, thongh nearly all
transformations have been known to aftord it in quantitice large or small, 1 am not prepared however to express a theoretical opiuion entirely adverse to the prospect of suecess, even in the Lake Superior sandstone. Oil was first oltained in large amounts in the Chemming and Portage sandstones of Penusylvaniathe bottom of the coal measuros in Western Virginia and Ohio, and lastly in the lower silureans in Kentucky and Teuncssee. There can bo no theoretical reasoi why it shomid hot occur a hitle lower stil at Lake sin perior. If the surface indications are such as you state,
Tincline to the opinion that there are feasons for cautions explorations for oil. In your district are some dark bituminous shales, which, if underlying the porous sandstone, sustain the same relation to the oi-containIng rocks as the black shales of Penusylvania, Kentucky
and T'ennessece, and 11 should not be at nll surprised and Temessee, and 1 should not be at all surprised if
oil slound be obtained there by you. Nevertheless it musi not be forgotten, that the geological condition are somewhat dittercnt from those of any known oil
rccion, nind expectation slould not be pernitted to run high."

## Alabama.

A private letter from .ew Orleaus states that: "Oil Gadden struc by parties who were boring for it a thereabouts was in a state of intense olcaginous ex eitement. Several prominent oit-promising resionsor our own state have reeently changed hands at high menced and arraaty the work of boring has been comwhere a sandure formation was struck at a denter, one hundred and twenty feet. A considerable number of oil springs have been fomm in the same vicinity and in the interior of the state. A valuable spriug has also
been discovered within two miles of been raftecerered withul two mines of hed river, above
the ratt and the Onachita river, in
Arkansas, aro estreme

## California.

The Los Angeles News of Apirit 6th has tho following:
"'Three barrels of crude oil are procured daily froun three springs near san Fernando, which are under the supenints are beug made that will largoly in that arrangements alected from the springs. Water and oil the amount collected fon we springs. Water and on
continue to flow from the well of the pioner Coil pany, near this city we have bocing for eil, in the

## Canada West.

Professor C. W. Wright in an atticle upon the Petro-
leum Wells of Camada and Kentucky sayd: "The oil lands of Eunistillen county, Canada Wist, are located in the Derowian formation. Those of the upper cum-
berland have, in the main, the same geotogical position The surface oil of both, is, as a general expression, of
The lubricating quality. After descending for a few
hundred feet，in both regiouts，the oil is of the qutality
known as burning fluid．In beth regions more or less known as burning thuid．In beth regions more or less
oil－cas is evolved．Salt water is frequently encontered in beth lecalities．In each of the localities flowing and pumping wells have heen obtained；and tinally，in bath localitios the fossiliferous and lithological character of the formations present indubitable evidenees of the
at the same period in the history of the werld．In $\mid$ the higher Cumberland，we are not fully prepared to Canaula，as a general fact，the operator has a greater
vertical ilepthupon which to operate．There can be no question bit that the operator can rely upon at least eleven hund red vertical feet，and a lateral extent nearly，
if not quite equal to that of the renowned Cumberland not quite equal to that of the renowned Cumberland
oil lands of this State and those of Tennessee．As to
speak．Those of Warne and Russell counties，Ken－
tucky，have a vertical advantage，as a general thing over these in Cumberland county，in the same State． still there ean be no question but that it will require many years to exhaust the oil reservoirs in Cumberland ceanty，even should the flow be equal to the expecta－

GOLID．

| company． | SIARES． | Stor K ． | hox of mine． | miary a place of br | compant． | smares．${ }^{\text {d }}$ | stock． | sitration of ming． | skcretary a mlace of beaness． |
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| Fssex \& Diadem | 145,406 | $\because 500,00$ | -ierra dis, Humbotdt C . | A. R. Wetmore. 81 Vesey st. N.Y. | Republic. Revenuc | 15.1(4) |  | Ahator. |  |
| Fraisklio |  |  |  | 1 linatelptaa | Revenue Extll |  |  |  |  |
| Globe | 100,000 | S(H), 00 | Uustip. Nevala |  | п¢ャロ | $5: 3$ | 1.4)0,060) | -ivaloa. M | neisco. |
| Gool thop | 20,006 | 1.000 .00 H | 10 ml = of Austiu, |  | Rought pia |  |  |  |  |
|  |  |  |  | New York | In Antorio |  |  |  | 1.1 k"w y y |
|  | 300,000 |  |  | J. P. Whitney | $\begin{aligned} & \text { sominole } \\ & \text { silas Wright } \end{aligned}$ | (6), $14 \times 4$ | the | A |  |
| Nevala. | 20.000 | 2.000 .00 | Luton Dis, Nye Co, |  | Silver Hill. | 40 \%en | 1.000 , |  | , 12, 13/way N.Y |
| Lander County |  |  | ala | New York | silver Seri |  | 1 (tar) | batmer | W. B. Rugers. 11313 way, N. |
| $1 . \mathrm{th}$ |  | 1.0 | Owylee | *) Proadway, N | Southimise, T- | - 0 |  |  |  |
| Lw'r calito | \%100 | 2, | - | IV. W. J'erk ilis, | sther ${ }^{\text {cher }}$ |  |  | Celor | Canastoto, New Yor |
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| Morring Star. | $5,1 \mathrm{NH}$ | 5,0w.00 | Owy lice Comty Ifal | 137 Broatway , N. Y | Tempest. |  |  |  | Kangs I. Pine street, N |
| Mouut C [rnon. | 5001010 | 5. 000,100 | Nount Vernon \& Ma District, Nevada... | New York. | Trumba |  | 5.11 |  | d. M Brown, 15: B'wy , N Y |
| Monnt Vis | 50.000 |  |  | J. Clapmarr, 81 Bway, New York. | Uuion \& Fil | 100,400 | 1,100 | Moz |  |
| National | 15.006 | 1.500 .06 | Owyhee Co. | 115 broadway N. | Upper sissuari. |  |  |  |  |
| Sevada | 110988) | 310.00 | Houmtin Wells. IUC | 23 Walnut street. Phi | Wanda Yunal. | tandour |  |  |  |
| Neval | 120.000 | 1.200 mm | Sevalia. |  | Whits Mountain |  |  | Sew Hampahire | 111 Broadway, New York. |

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[ H1...s:trated.]
GEORGE FRANCIS DAWSON, EDitor

By publishing contributions, the Jorrvat. of Mivinc does not necessarily endorse the positions assumed by conOFFICE, 37 PARK ROW, NEW YORK.

## Published Every Saturday Noon



Ese Correspondents, exchanges and others addressing us should be extremely careful to write "Jocran of Minisg." instead of " Mining Joreval," to ensure safe carriage.

For Europe.
At the request of numerous subscribers. we shall print an edition of

NEW YORK, SATURDAY, MAY 12.

## Contents of this Number.


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Minng Interest -The Union Parifice Railroad Survey-Min ing Machinery, etc: hing Statimtisof Now, aychort's Patevet Low. Watrk Detector, described and illis trated.
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## NITRO-GLYCERINE EXPERIMENTS

Mr. Nobel is giving his attention to the best method of rendering nitro-glycerine innocuons, when stored or in transit. He states that by mixing this powerful agent with methylic aleohol (a cheap spirit popularly known as spirit-of-wood) the nitro-glycerine is rendered unexplosive, either by percussion or heat. When required for use, water is added, which absorbs the spirit, and the oil sinks to the bottom of the vessel, whence it is drawn by a syphon and its explosive nature therenpon found to be restored. Experiments for testing the valne of this discovery were made on the 5th inst. in this city, which are said to have been very satisfactory. Its formidable power has also been tested lately in California, both in San Francisco and on the Central Pacific Railroad. In these experiments the downward power of the charge was forcibly developed. From the numerous trials made, we shonld judge that nitro-glycerine may be safely prepared and used by practiced hands, as, for instance, by Mr. Nobel but, until the causes of the late accidents are more
fully known, the public will not be satisfied that its general use is unattended by danger. For instance, a Mr. S. P. Ely, of Marquette, Michigan, states that he had prepared nitro-glycerine for blasting, and from some unexplained cause the substance exploded in his office ; moreover, that on a second trial he met with similar bad success. Mr. Nobel is reported to say that the material of which nitro-glycerine is composed, will not generate heat of themselves We presume, therefore, that they will not decompose. Mr. Ely says that nitro-glycerine can only be prepared at a low temperature, and violently decomposes with an increased temperature, and consequently generates heat. We look upon the subject as one of the greatest importance to miners, and shall be glad if the new discovery enables ns to transport nitro-glycerine, at least as safely as blasting powder, while we believe that it has already been proved much more efficacious.

## "PULVERIZED" TURPENTINE AS A FUEL.

Among the latest adaptations of heat-producing substances to the furtherance of industrial art, is that of "pulverized" turpentine. Captain Shpacovski, Professor at the Panl Military School, St Petersburg, recently exhibited experiments upon this substance at the Old Admiralty. By an ap paratus which he called a pulveriser, he caused every particle of the fluid to burn. The flame from his apparatus was enormons, reaching two feet in height, and rushing through the burner with a noise similar to that of steam escaping from a pipe. The tem perature is equal to that of molten steel- 1,040 deg. Reaumnr. After melting wire, copper, etc., and showing how it was adapted to carbonizing wood for ship-building to the depth of only 1-120 of an inch he proceeded to deseribe his steamboats. The nodel experimented with-24 feet in length-wa propelled at the rate of six knots per hour by an engine of two-horse power, heated by fonr pulver izers, consuming 3 lb . turpentine per horse-powe per hour. He expects to reduce this consumption to $1 \frac{1}{2} \mathrm{lb}$. or 2 lb . per horse-power, and has order for twenty similar boats to he used for passenger traffic on the canals. The new fuel is more expensive than coal, but Captain Shpacoviski claims that this will be more than compensated for by the smaller quantity used. Steam can be got up with it in ten minutes, and the fire can be extinguished immediately when not required.

## COLORADO MINING INTERESTS

In another column we give the report of the Treasurer of the Bullion Consolidated Mining Co. This report is a most unprecedently favorable one, showing a gain, in six months, of $\$ 225,000 \mathrm{in}$ cash and stock in another company, of which the marke value is $\$ 50,000$. This gives, exclusive of the stock interest, seventy-five per cent. surplas for dividends. Mr. Whiting, who superintends the company's af fairs in Colorado, is a man of unquestioned integrity, and the possessor of vast and immensely valuable mining property, and, with ordinary management we do not see why this company, founded upon his property, can fail to be a very successful one The object of this company, in view of the extent of its mining property, is to make sales of portions of its mining lodes to those who will maki bona fide improvements, and thereby improve and make valuable the balance belonging to the company. Most liberal inducements are held forth to those desiring to invest in mining, by which all the eash contributed may be expended in actual mining, and the Bullion Consolidated Mining Co. to be paid only in case of successful mining, by a per centage of results. We would advise those interested in Colorado mining affairs to call at the office of the Bullion Consolidated Mining Co., 37 Broad street and examine the very extensive cabinets of Col orado ores,

## the dinion pacific railroad survey

The American Bureau of Mines, under an engagement with the Union Pacific Railroad to make a reological and agricultural survey of the lands acquired from the government, has delegated Prof. Egleston, of its Board of Experts, to conduct the field-work for a section of 100 miles. This gentleman, with a corps of assistants, took his departure for Omaha on Monday. The results of the survey will be reported this summer by the Bureau of Mines. The Union Pacific Railroad has taken a wise course in thus submitting to investigation, at the outset, the economical conditions of its lands, whether mineral or agricultural, instead of leaving their development to chance or mistaken energy. The first one hundred miles of the line pass through the Platte Valley-a beautiful section of prairie country, whose agricultural, if not mineral resources, this survey will bring out. It is said to be policy of this railroad company to induce immigration. The reports of the Bureau of Mines will be published in German, French, and English.

## MINING MACHINERY.

The report of the meeting of the Miners' Association, of Devon and Cornwall, Jingland, which we have been looking over, shows the obvious advantages which the modern appliances of machinery afford to miners. In England a prejudice exists among the miners themselves, against boring machines and new mechanical appliances generally. Capitalists, however, are begimuing to find out the great savings which may be effected by machinery. It was stated at the meeting, and it is undoubtedly true, that no business conducted with so much waste of time and money, as mining there is conducted, could possibly pay. Here these prejudices against new inventions do not exist, and all miners would gladly nse new appliances if they could make sure of the merits of the respective machines. We shall be glad to forward the interests of miners by publishing the results of actual working trials of machinery likely to be useful in mining operations.

## SULPHATE OF IRON'AS A DISINFECTOR.

Now that the cholera has actually made its appearance in this city, the following from recent correspondence in the London Chemical News will prove apropos:
Great attention is paid, and with reason, in this Comutry, (England,) in Holland, and in Begrinh, to the of the bovine race, infected with typhus, in order to arrest the ravages of this terribly contagions malady. The nse of phosplorie acid, which is proposed for this purpose, is rational, in that it emiches the manure, but not if you consider the expense, the difliculty of transport, and the many precautions necessary in handing value, (say, a farthing per pound), ceonomical, and casy of employment, and having great effect upon all animal matters, would completely purify the infected
places and the manures of avimals sutfering from places and the manures of animals suffering from typhms. It does not injure the mamure, but conserves
iis most energetic parts by converting the carbonate of immonia into sulp hate of ammonia, a fixed salt, which is easily appropriated by the plaits, It was in 1845 that Mr. schattermann, director of the mines of Bouxwiller, Departement dh Bas-Rhin, proposed the disinfection of
fecal matters and of manures by means of sulphate of fecal matters and of manures sy means of sulphate of ployed in France for these purposes. as well as to purrify The slaughter-houses, ditches, and all places where noxions emanations arise. Itsuse is very simple. Dissolved, it gives a very acid liquid, that can be handled
without danger, and which pentrates everywhere without danger, and whieh penetrates everywhere
wliren used to wash the infected places or to mix with the manures. When the cholera was at Marseilles, great quantities of sulphate of iron were used, not only in Fratuce, but also in Switzerland and in Germany, to disinfect elosets, slanghter-houses, and all places giving results.

## Exempting Petroleum.

It seems now to be a settled fact that crude petrolemm is to be exempt from tax or duty. The Committee on Ways and Means reported a joint resolution to that effect, which was considered by the Honse and passed.

## MINING STATISTICS

## vova scotla gold.

[Written by Dr. R. P. Stevens, for the dournal of Mang.) The question is so often asked in financial cireles - Does mining pay?' or quite as often put in another torm, "Mining does not pay," that any reliable statisties mpon this subject are to be received with pleature and satisfaction.

The report of the Chief Commissioner of Mines of Nora Scotia, the Hon. P. S. Hamilton, for the year 1865, is before me, and is eminently salisfactory.
I give a few extracts from it. There are in the Province nine prominent distriets, and some umproclaimed. From the whole the total amount of gold raised was $4867 \mathrm{oz}, 05$ twts, 22 grs. The average yield per ton of quartz was $1 \mathrm{oz}, 21 \mathrm{grs}$. The highest yield per ton wats from Stormont district-1 $02 ., 15$ dwts., $15 \mathrm{grs}$. . Stormont, Sherbrooke, Montagne and Waverly averaged over $1 \frac{1}{2}$ oz. per ton. Mine Harbor, Tangier, Oldham and Renfrew averaged nearly 3-4ths of an oz. The number of numes worked was 93 ; average number of men employed, 692. Amount of quartz emished was 23,835 tons-average per man, 34 tons. The average yield per man employed wat \$664 80. This amount of vahe ot earaings per man would not pay in our western terctories, where wages range from $\$ 5$ to $\$ 15$ per day; hut could pay in Nova Scotia, where men can be hired from 25 c . tust per day. and the best of miners for $\$ 125$. Say the average price per man is $\$ 1$ per day, the yield per day has been $\$ 213$, or \$1 13 profit on cach man's work. From this amonnt sbould be dedncted interest acconm and loss from deterioration of mine and machinery, whatever there may be, and still there is a handsome margin for nett profit. The highest yield of qutart\% was from Mine Harhor, $16 \mathrm{oz}, 10$ dwis; the next highest from Ohtham, $10.0 \%$. 17 dwts. The highest average yield per man was at Mine Harbor, the next Waverly, and the third at Sherbrooke. There is another quite as interesting view of the Novit Scotia mines, and this is their increasing prosperity.
In 1863 the yield per man was..... . 80 . 95 per day. In 1864
II 1865 139
213
with nearly three months of dranght.
Gold mining, from these shatisties, looks (at least in this Province) like a stendy and successful bn-itess, yielding a handsome remumeration to labor, amel profit to actual capital employed.

## MINING COMPANY STATEMENTS.

bullion consolipated minivg company, of coloraio
 Masstcurskris.
From the Treash
Fronlwin Preasurer's report to the storkholters, we athstract
the following: "since the organization of the Company in Octo.




 treasury.) This ammant of stork was received in paymeat lor
 time, at is pear share, and has great pross

##   <br> Dividend paid February 1, 1 N66....... $\quad 35,106$

Balance in Treasury ......................... $\$ 3,0$,006
of this amount there is applicable to dividends oue funtred Of this amount there is applicable to dividonds oue muntred
 dollars stili in the trensury. The amount of property dizinsed of so har has been trinhag comparel with the immense amome stil held by the company, and is exclosive of the property deseribed
in the printed pamplitet. Large quantities of ores, representing in the printen panples. orwarded to Europe, with maps, descriptions, etc, and the prispects of making barge sales it that direction are of a highty havor
nable nature. Refiable parties in this section are also engaged in obt unink subscriptorst for prechase and tevelopuchts of pro-
 perty of the Company, under the direction of its agent in to rato, and it is expected that at the next anmual meeting of the
 Company's offices: 37 Broad street, Xew York; 1 , 1 ,
treet, lhoston; Central City and Empire City, Colorado. broad top coal and iron company. 113 bhonimay, new York.
York.
The prospectus states that this property is situate at Coalmont, in the broal Top Coal Fiold, Menusylvana, and consists of 3 ,un
acres coal and iron land in one bundy, with the railway rumiug through it. A deep ravine penetrates the central portion of the property. giving free alranage and woulderful hacilities for the ecuno-
mical working of the coal. There are six heds of coal underlying
 The coal. especially that of the lower beds. is of the fluest
quality, unsurpassed for forge fires; and as a steam generator,


 beng so closely connected with the coal, causes the value of York than the cumberlame ind. It is sixty bive miles nearer to New York than the cumberlatid mines, and can be delieveret in limia.
delphia at a cost of $\$ .25$ per ton, and to New Yerk at $\$ 5.25$ per delphitia
ton.
HAPRON SILVER MINING COMANY OF NEVADA ; OZGaxize
 The nims of this Compay, suys the prospectus, are focated in

 was inale, with the fohowink resalts: luliama ledge, zinne.so per Company's ullice, 71 brualway, Now York.

## IVARKET REVIEW.

The price of coll to-thy reached 129 ; chsing at $12 \begin{gathered}2 \\ 7\end{gathered}$. The foan market continus easy, the difleuty being to prome bor rowers on safe terms ; 4 and even 3 prr cent, are, in some cases. accepted by lenders. Commercial paper is unchanged with but little demand.
Forcign exclange is stealy. Rills on Lomdon at biodays $1083 / 4$

 fefer to our tabular statcments. It will be sem hy reterenec our telegraplic report of the sinn frameiseo stowli market, that aur tedgraphice rejort of the sim framelsco
Coal. -The auply of lormign eonh is smath, with little demand es ar for gis eon. prices unchanged, auxal the stock increaced. The following are the infices realizel at the auction saber
 A new description of coal-brewn con!-lound in Midhlesex and market. A shaft is being sunk where the bore shewed a twelve leet beel.
arel with the thengh chal for the week and beason. com frare. with the same time last yemr

Week enling May fiti
Sume time list year
hicrease.

 Valley hailroad lor the weck and seasom. conmpared with the sante time has year:

## Suak pending nay shit

fucrease.

...3: 5 50, 0015217 gation Company for the week and season, compared with corres


Incrase...
 Amome of coal transportel on the Philalelphia and Reading Builroad for the week emsling May 31. 18sif.
Total anthracite coal for weok.
Bitumitoms coal from larrisharg amb baphin for the


Previoust
Total of all $k$
k
y this year.
Tosame lime liast ycar
$\qquad$ Compay for the week aur semosis of the Delaware lisision Camal thue last year
Week eading May 5. Is66.
5.13528

Week ending May 4, 1565...
Previous in $1 \times 5.5 . . . . .$.


Increase in 1866.
$143: 188$
$\begin{array}{r}-20,03885 \\ \hline 222.4137 \\ \hline 7\end{array}$
Coal transported on the Ielaware. Lackawama \& Western Rail road for the week and seazom, compured with the same time last

 The foilowing are the receipts of the Delaware Division Canal week ending May sth. Nrevending May sth.

Total.....

Week ending May 4, 1866
Previeusly in 186.

## lacrease in 1866

6,510
14,397
82
Increase in $1866 \ldots \ldots . . . . . . . . . . . . . . . . . . .22 .41376$
Ter aut Hutson Gamal tor the week and scason over the Dela and the same periods last yeur

Deluware and Hutson Canal

For the same period last ye. Delaware and Hudson Canal
Peunsylvania Conlco

23,494 $\mathbf{6 6 , 1 5 5}$ ${ }_{30}{ }^{\text {Phi }}$


Iron-Prices for lig lave dectined. The demand is small an sales limited. The stock of scot di is estimated at 5,000 tons. The amply of american is smath, but increasing. The sales are-250

 Bar Iroz-ls trmer.
Copper -omy a momerne misimess in Ansen mat copper former priecs. The sales of taltimoreare in 28 ot $251_{2} c$, and
 netal-siy 40c. (ar the rormer and ane for the bitter. Tho
 Lead.-A rather lirmer leeling in the market and some hive demand. Eqanishi German rellied, and English are quoted Es 2 Suss 50. 1sur 90., shect and Pige 11
Spelter - shician, lirıu but little doing.
The inp rlation to Alrit 30 was
$121,100 \mathrm{plates}$
3.70
$\overline{117,-90}$ plates
Tin-ls tirmer. but without change of prico : 1 ,500 slabs sold at 2ber. moh

Therease. $\longdiv { 2 8 , 5 5 }$ pigs
fun rates show no particular clange, with little
Improtitiont to Aprila...
To same time last yoar.
$2.2,268$ toxng
125,205
Salt morrease. $\overline{137.010}$ boxes


Petrolent mish.
48
43
4 with an
45
Petroleum-Shows a decidedly improvel tendency with an tmath and the market is said to be over sold. The remeval or the duty ou Petroleum wilt undoubtedly cause many wells to he ngainstarted. and help to revive the trade. Beflited, in houl, is protellat 43 c . fir present delivery. Sales of aboot 2,000 bols. for June delivery, at 44c. There was received the following during the last week
Crule. Dbls.
nethues. '".
4.303
2.550

The exports were 345.000 gallons. Ta Cuba, $10: 360$ gatlons W Cork, 96.542 ; to Harre. 90.549 ; to Hamburg, 41,194 ; to Crontalt. 1uste2s. In this drection the denaud continually increases.
A1 Pitt
Al Pittsborg, May sh, there was a decidel tendency to hold ror higher prices, the rates were 14 . $14^{4}$, and $14^{\prime}$, for bulk, equal
to $1 \mathrm{~s}, 1$ : atul 19. including barrels. Receipts for mas weefk a.snc bibls, chietly in bulk.

Relined dil was active; buyers entered the market early, and number of parcels were disposed of, principatly for export to Philadelphia. The sales were as follows: Bonded, sales on the spot, 500 bbls, 350 , sales for Philatelphia delivery, viz: 1,000 bils bondel during the month, l. o., 42e. ; bales of two lots bols. Jave. Philadehlia, b o. A3c. soles of 1,000 bble Mey 5.0. it 42. . sales of $\mathrm{z}_{0}$ hbls., July delivery, be, ite; , May 1,100 bbls., September, b. o. $46, \mathrm{c}$. market is not large.
The following are the receipts of On by the rive - nat railroals at littsburg for the past week; also Irom the 1st of Jauuary, with a comparative table lor the satue period in 1865 :
Monday. Apil 30
Tuestay May 1
Wethestay, Miy
THuntey May
Terthestay, May
Trurstay May
Friday May 4
Total for week
Receints to May
ame time in 1865
Increase in 1 scif .

MINING AND OIL STOCKIS.

| OIL STOCKS. |  |  |
| :---: | :---: | :---: |

Reported for the Journal of Mining by Lombard \& Co., Bankers \& Brokers, Boston.


## New York Companies.



| COAAL. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Companies | $\begin{gathered} \text { May } 4 . \\ \text { Bib N*KED. } \end{gathered}$ | May 5. Iid. ASKED. | May 7. <br> Bto. Askst. | May 8. BID. ASKET | $\begin{gathered} \text { May } 9 . \\ \text { Mo. A=KED. } \end{gathered}$ | $\begin{aligned} & \text { May } 10 . \\ & \text { BD. Asked. } \end{aligned}$ |
| Lelmo |  |  |  |  |  | 3 |
| 1mint |  |  |  |  |  | 35 |
| ${ }^{\text {barar }}$ |  |  |  |  |  | (6) 1 |
| Frank |  |  |  |  |  |  |
| Gidmet |  |  |  |  |  |  |
| fienvil | (1) |  |  |  |  |  |
| Ibricich |  |  |  |  |  |  |
| $1.10{ }^{\text {cos }}$ |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |
| Matmet) | (1) |  |  |  |  |  |
| Monat Pre |  |  |  |  |  |  |
| Pom, mas |  |  |  |  |  |  |
| Stur ${ }^{\text {a }}$ |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Mavinc. |  |  |  |  |  |  |
| Companie | May 4. <br> mid. A:ken. | $\begin{aligned} & \text { May } 5 . \\ & \text { RID Asked. } \end{aligned}$ |  | $\begin{aligned} & \text { May s. } \\ & \text { BiD. asken. } \end{aligned}$ | May 9. <br> Hid. AKKED. | May 10. HD, A"KED |
| Allawy and Bost |  | 15 |  |  |  |  |
| 1 my | 11 | $\cdots \quad 11$ | 103 Cl |  | $10 \cdot \% 107$. | 10311 |
| Crat | \% |  | 11 |  |  | $5_{8}$.. |
| Gmeard |  |  |  |  |  |  |
| Coppar | +24. | 42 |  | 42 4; | $43{ }^{4}$ | $4: 14$ |
| Fra | 41 | 41.415 | 412 | 41 |  |  |
| Has | 194 | W, | 15: 19 | 11.19 |  | $19.1:$ |

PRICES OF ASSAYING IMPLEMENTS. Sm.itung
Cupelling
Assay Batances and
$--1=--$


NEVADA STOCKS.
SAN FRANCISCO QUOTATIONS.
late:t if mall.

| ME. | ${ }_{\text {Prmar }}^{\text {frma }}$ Aprili |  | Sules for week Euling April 15. |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\mathrm{O}_{\text {pen }}$ | ${ }_{\$}^{\text {Cosig }}$ | Shares. |  |
| Itisperial..... | 150 | * $152{ }^{\text {a }}$ | 9 | \$14.5.5 |
| Chollar-Potici. | 375 | \%\%5 | 243 | $100 \times 410$ |
| Yellow Jacket. | s:0 ${ }^{2}$ |  | 1 (6) |  |
| ${ }_{\text {Bullioa }}$ Brown | 112 | 112 | 123 | 14,3.5 |
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| overman | -21 | 77 | 73 | (193新 (0) |
| Ophir | (10) | 831 | mis | 41.96 |
| Excliequer ...... | 10 | $10 \%$ | 47 |  |
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| dance | 14 | 15 | 341 | 920 10 |
| Caledona funnel. |  |  | 40 |  |
| Il del soote. |  |  |  |  |
| Contileme... | 3 F | 3 | 14 | , 534 |
| latest by telegraph. |  |  |  |  |
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| valar-.iot |  | Yehow | Jacket. |  |
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| \& |  |  | pres | ....... 135 |

NEW YORK METAL MARKET.


FHDNIRAL SHCUIEITIES.



## Iron Smelting in Colorado

The business of Iron smclting may now be said to be fairly inangrated in Colorado. The Belmont furnace is in operation near Denver, and is turning ont two tons of pig iron per day. The ores used are prononnced by competent judges th be the best in the world, and are excelled in richness only by the Pilot Knob and lake siperior ores, bit possess an ad vand more economically worked The suppty ot ore is deemed inestranslible and is easily obtoy ore is man being able to mine three tons of it in a day.

## Watent chaims

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

The following claims have recently been issued from the Vnited States Patent Oflice
54,349.-Grate Bar.-David Honston, New York city b, connected to the grate har. a. It or near its centre, and resting at its ends upon the same barers as the ends of the bar, a, but
disconnecte. from said har, $a$ at its cuds so as to allow the grate 54,376.-Annealing Box.-James E. Lewis, Sharpsburg,
I clain censtructing cast iron amneating boxes, as described having the boty of the box tha s.parat- pieee from the bottom and top, or cover, tor the parpose of preveating its warping by
the action of the anneating ovel. 64,409.-Furnace.-George E. Reymolds, Philadelphia, rain
nace. surtstantially as and for the purpose hercin set firth. 45,412.-Method of Extracting Precions Metal from Ores. Van Buren Ryerson, New York city:
I claim ths proces of dermounsing sulphercts
I claim ths proces of decouppsing suphturcts, and in atmix-
ture in the oris of gotd and siver, by subjecting said ores in the ture in the orss of gond and silver, by subjecting said ores in the so as os convert the solphurets in solphates and sulphitus, sub-
stantiatly as and for the purpose des ribile And I inso clam, in combmation with the
 ain
54,413.-Atmospheric Hammer.-Johil Robertson, New
 and pistom, appliol and opresting us hercita belire sperif-t, the
 constructed as discribed, a variable crank. substastially as

54,414.-Apparatus for Refining Petroteum-William H. Sangster, Buiffalo, N.Y.
First. I claim the partition, A, or its equivalent. When construct
ed as and for the purpose herein substaitially deseribed aud set ed as
forth.
Serc
Second. In combination therewiti, the , plate B, or the equivalent
thereof, as and for the purgose doscribed. 54,415. - Grate Bar.-Horace B. Scofield, New York I claina a grate bar for farnaces, formed witb a straight upper
surface, and a rib on its under side, corrugated in the manner and surface, and a rib on its
for the parpuoss specitted
54,440.-Machine for Beuding Tubes.-James Sweeny, Sirst. I clainen, the comblnation of the bean, A, having a mor-
Lise, at in it, with the screw, $f$, when coustructeit as and for the purpose set forth.
Second. I chim saves, 4 d. in conbination with the chain, g, or its moivalent, am the serew f.
54,442 .-Magnesiam Lamp.-Hobert H. Thurston, ProvFirst, I cham this nse of the foed roller, If, as a surface on
which to burn a strip or wire of magnesium, substantially as de $=$ semon, The combination of the stationary seraper, $K$, with the
rotler, B, sulbstantially as described and for the purposes speci-54,45t.-Rock Drill.-Charles Hunter Webb, San Francisco, Cal.
the back of the cutters or thes. Wheluer with the arms or guites therent, at the game angle of 45 deg. of each edtsonf the wedge
by which the calters or thes are iriven at its points of centize with the cutters or dies, and atson at the same angle of t5 deg.o. of in their propulsivi by the blow theard the rock and their recoul therefrom, cacth separately and the whole conlectiveiy for the mir.
pose described. namely, the effective delivery of the blow with the least anmount of friction
54,470.-Cupola Furnaco.-Charles Truesdale (assignor first. I claien the procision in a cupola or melteng furna*e of one or more vertical suricic of tweers with graduated or dereas ing vantag
set forth.
forend. tweers whede propengement of one or mone the commontical or gencrics of lining wall, and are protected hy vertical pliers, substantially as sct forth.

## Gll suts.

Tat- A tashionable bat ignorant lady, desirons of purchasing a w.itch, was shown a very beautitit whe. the shop-
keeper remarking that it went thirty-six bours: - What, io oue day " " sle asken
pay- The coal trade at Richmond. Penn., is suspend ed in conscquence of the determintation of the laborens to resis 2et- A little boy being told by his mother to tak a powder khe had progker for him, ", owder, powne Trat A musical critic, speaking of the vocal permarkahle proof of the singer's power of execution
zer At a trial recently, a Cornish jury returned
the following verdict:"Guilty, with some littlo doubt as the followilg verdict;
wbether be is tne man ?
TF An immense shark was killed by whalemen ze- Sontebody amomnees, as the latest telegram from Rome, that the iope"s bull lias got the rimlerpest.
teyt- The Chilian Government has obtained a loan of $\begin{aligned} & \text { [J,00,00 } \\ & \text { pspor currency }\end{aligned}$

## 

supply of is asserted by competent geologists that the supply of coat in England is in process of rapuit exhaustiou.
According to tueasurements and underground exploratiens down as deep as four thinsand feet below the surface of the carth. ouly
cighty millions of tuns remain ciguty millions of tuns remain. This amount of coal was con-
sumed in sto. The consumption of the mineral increases, we are thld, at the rate of three and a half per cent per anuum
Mines could thet be worked at all at the depth of 4 ,000 feet. The coal tields of Encland are in extent but 5 , 400 squaro miles, and it is estimatod that these fields will be entirely exlhausted in less
thana thonsend years. Our coal finlds are 194000 square miles than a thrusend years. Our coal- ticlds are 194,000 square miles
in area. It must he said, however, that the probabitities are that wher coal is used up in England, seience will lave discovered a substitute that wil saswer for the use of manuacturing industry
and cornmercina int areonse
ze An exchange
he yieh of Virginia fity wes the following statement of numunt of ore takea out in Virginia and Gold Hili par day is 1,435 tans; per ummeh, 43,050 tons. Vathe per day, $\$ 4,050$, per
month. $\$ 1291,500$. In our estimatiug the profluctions of our mincs we have not tikear any ontside of the two cities. Tho Belcher. Apple, Overman and t'nele sum are all tating out pay
rock, as well as several others. We ask. where can another place be foumd, that, oute mite in length. the same amount ef present time, there is not gro- lalf the amomil of ore being taken out that will te in the course of three months. In fact, not ouehalf af the ground is being worked at the present time
7-To make a cast-iron magnet, take a smooth not and draw it to the cond, repuating the stoke always from the midfle to the end, aul ruthing in the same way cach thne. Thon place the middle of the lar to the south pole of the magnet and
rab) toward the oqposite end of the bar, repatitug as before. Magnets can be mate in this way of steel as well as of cast iron,
and may be in the form of a horse-shoe or star, as well as straight bar
danon Certain persons have discovered a veritable hathon wis.
 is not improbable that they have heen discoveren elsewhere. ship boari, dellement veathation may be compensated for by the lime will nobsorh thirty-cight or thirty nine cubtic feet of carbonic actid gas, which would be imtneliately replaced by an an equal
volume of fresh air contering through the crevices.
7e. The thicago and Great Eastern Railway Combauy has recm
structed of
zoy- The petroleum excitement which broke out厷 Rich silver mines, it is said, have been discovdin Hanover county. Va.

## Spural sumutitic Bravitivo

The We inderstand that Mr. Grant's Trans-mongoIan telegraphie selpme is already so far advanced as to give rea
ton to believe cuat we may expect to receive telegranis by the first stasmer from Tirutsill after the breaking up of tbe ice. Mr. whyne be will proced to Kiatela, with the purposo of forming
the line of conrers between Kiatcha and Tientsin.-China Mais.
zet The beaty of the Abbe Liszt's Sinfonia of bante is said to have driveu the tovers of muste in Rome balf ambiathe struggie between limself and the Abbe, but the matter was compromiser by an embrawe and a kiss.
fat A lady who had read of the extensive manuracture of odomelers, to tell how far a carriage has run, said she $t \rightarrow 11$ how far hashants had beeu in the evening wher they just
zo Sir Elwin Landseer has completed the model of two of the hons int inded tir the lisse of the Nelson Monument, in Trafatear square, Laudon, and the arran
T. In P'aris, lamps are to he immediately erected at the corner of every sliret, with blue glasses, having upon
thern the names of the streets in bold letters, so as to be easily read at night time
fity An agricnltural writer says of the children's favorit, pop-coru, that at abounls in phusphate of hune, just the
thing to liurnish material for their growiug bodies and brains. It very easily digested.
zig- H. J. Ellicott, a youth of eighteen, has executed in plaster, a life-size statue of Mr. Lincoln, which las been
placed in ttr ispital Rotunda, where it attracts much attention. zow Some experments mate at the Experiment
frounls nt wism suan seen to show that a small coveritg a Grounds at Wisinm fua, seent to show that a small covering. a Tay The Mobile papers report the arrival of a is lying at oute of the wharves.
zet The Suspension B-idge at Cincinnati will be Je The Philadelphia Aeademy of Art was opened

## MINING COMPANY MEETINGS

THE KNICKERBOKER GOLD Mining COMPANY of colo
 or the election of Trustees, sc.
Tue marietta mining company Wha, hold Their an.
vial, meotiak for the clection of Trustecs, al the offce of allan Hay. 3 lfroad street, N. Y., on June 5th, i866, at 12 31. TIEF MAMMOTH GOLD MINING COBPANY OF COLORADO Will hold the ir anmal meeting for the election of Diroctors, etc.,
at the office of the Company, 69 Liberty strect, X. Y., on May
THE CUMBERIAND COAL AND IRON COBPANY WHL, HOLD et., at the othce of the Compauy, 20 Broalway, N. Y., on Juse
4th, 1566 , at 12 M .

Historical Sketch of Metallurgy.
Gold, silver, copper, lead and iron, are the metals most anciently known, tout the precise time of their Lnerece, the discovery of metals is due to the burning Lnerece, the discovery of metals is due to the burning
of certain woods, which melted the ore contained in of certain woods, which melted the ore contained in donius atriburged that idea as absurd. Pasistance almost fabur serery of mines to a circumby the burning ot the fores, whel permatied sirface the ore of oress, which produced at the various depthe According to distole it was it herds who set the woods on fire. Diodorus of sieily in speaking of the Pyrenees mountains, says: "For merly they were covered with thick woods, but some shepherds having set them on fire, they were entirely consumed. The fire lasted several days, ind the earth was burnt up. It was for that reason these mountains were called Pgrences (from the Greek $\pi r p$ ). Streams of refined silver were run from the earth." Cadmus is said to be the first who discovered gold. Some authors attribute its discovery to Thoas of Thrace others to Mercury, son of Jupiter; others to Pisus, Kilg of Haty, Who havins kit his conntry, went to Erypt, where he was chosen King after the death of nizram, and recened he surname of god of Gold, on Cceens or the first who discowered Euches thinks Promethens not only discovered golif but also other metals. Polybius says it was a certain Auletus who discovered the silver mines of Spain. The upper and copper mones of the island of Cypros were discovered by Cynira, son of Agryopa ; and if we believe Hesiod, it was Cres, King of the island of Creta, who discovered iron mines in the mountains of Cerecinthia According to some anthors, Midacrites was the first who began the extraction of lead and in in the istand of Bassiteris. The Scriptures attribute the discovery of copper and iron, or rather the method of working them, to Tubal Cain, who lived long before the tlood. The metals most known were those which presented themselves the most readily. Were the most casily reto the surfere of the state, and were found the neares to the surface of the earth. Gold and silver were the Eugland was without doubt the tirst metol worled in Great Britain, and probably the first article of trade between that commtry and other nations. This was due probably to the cireumstance that tin ore by its weight indicates its properties, is decomposed by a light heat, and that it is fonnd near the surfice of the soil. Traces of the old searches are found in locations where the soil could be easily and fuickly tug where it could be readily reached by streams pur posely directed upon it, and which, carrying away with them the vegetable earth, lefi tin ore, retained by its own weight. That method, which was an ingenious improvement on the tirst works, was again tollowed itt certain explorations called siream torks, and al Lead was probably mined as early as tin. It is usnally tonnd near the sirface. It also presents a metallie aspeet, and is easily transformed into metal by a mod erate heat. Copper is generally found at a consider able depth, and the proportion of copper in the gen erality of ores is so small that the art of mining lad male material progress before that metal could be ex tracted from the earth. Having discovered the proper ties of ores, and the processes of smelting them, the method was then found to extract them from the earth, and follow the veins which contained them. At tirst this could be easily done where the elevation of monntains permitted the miners to work at a height
sufficient to enable them to direct the water, and carry sufficient to enable then to direct the water, and carry on the work of exploration hy means of litte canats Where the rock was not hatd enough to resist thei cases produced little etliet. From the simp ony tions, buen has becn gradually couducted in the ex tions, man has been gradually conducted in the ex ordinary exertions. First, it is evident, not only from the probability of things, but also from inspection of the old works of mining in every country, that the metals were at first extracted front broken pieces of ores, which had been by some nuknown cause sepa rated from the veins in which they were deposited It is thas that gold is obtained by the washing of the sand of risers, and that tin is fonnd under beds of sand itl the valleys of Cornwall and Devonshire,
[G. B.] The seath for naturally to the discovery of the veins in which they were contained, and in digging the soil to procur t rese pieces the veit was discovered. The first miners without doubt, proceeded in this way, bit the hitte works to $y$ possened It was only after the application of puups to exhanst the water that they could ro to a certain denth, and later the diseovery of powder enabled them to ope a road through the hardest rocks. These discoverie formed important epochs in the history of the art of mining, for since man had at his disposition these two powers-powter and pumps-neither rapid streams of water nor the hardest rocks have been obstactes to his subterranean mitrch; and his explorations have extended wherever ore was to be fonnd. The first im-
portant epoch in the history of mining dates from the use of powder. It was first used in Hungary or Germatuy aboutt the year 1620 ; introduced into England man minets brought up by Prince Rupert ; thence it extended to the Somersetshire mines in 1684 , and atterwards to those of Cornwall. It is very probable that it would have been impossible to work mines withont this power, and, till it was nsed, subterraneons operations wern' very difficult and uncertain. Hammers and sledges were the first tinstruments used to attack the roek; later, the piekaxe was substituted. Several think they were used by Saxons attl Danes; but it is prohable they date trom an epoen anterior to either of these two nations. When mining is carried to a certain depth, the withdrawal of water camot be done with simple hand-machines, and hydraulic power must he applied. Pumps were erected in wells, and put in motion by walrp-wheels. It is to the German miners that we are inlebted tor this invention. The introduction of the steaur engine gave to the art of mining a power susecptible of a general application, and man can now penemate to a depth which
possible to reach.-Jour. App, Chem.

Curious Properties of Magnesium Amalgam.
At a reoent tuceting of the Chmical Society of Condon Profeson Wanklyn read a paper "On Nagnesium," detailing some experiments made conjointy by bimself and Mr. E. T. Chapman. The authors fonnd the magnesiun riblon of commerce to be remarkably pure, which was proved by the quatitities of hydrogen exolved durug the shlution of known weights of the metal in certain, , liluted acids. The belavior of the metal in resisting the attack of ehlorine, bromine. and iodine, wats pointed ont, and also the very singucomposed water with even greater fiecility than sodimm composed
amalgan.
Protiesar Abel mentinned an observation of his own to the effiet that magnesintm tilings might be frused with dergoing caxidation and potish withont immediately inture, and long atter the oxygen had been treely evolvel, dit it serm possible to start the ignilion and brilliant combustion of tho metal. This tardiness was discovered in attempting to employ metallic magnesinta for certain pyrotechinic purposes.
WHAT IS SAID OF THE "JOURNAL OF MINING" by the press.
From the N. Y. Evening Past, April 4, 1866.




 and the prescut sticet looks as though it would mect the publie
want. A cesanal remark in an article on urilling ly compressed a air
bows that our cunntrymen thot not always suceed in kerping
 nethantieal improventems
 able sa steraid tor doing our nining work, at popints where stam cannot be used. Ile must seck out and set to work the best
nacchinery for dirling tue rock amd cutting the coal. More than nluce years of stouly work ut the sumpunt cuis tunnel, and almost as long in Epylish mines, icmunasirates the lat that there are must ; it our own comptrymen cannot forrisisit them we must im poit them or be belimel the age, 1 sit it not remarkiblue that in the department of miming and dimilig revks liw, in ary inppove-


 $\because$ The govi and silver mimes of Nevala, Montza, Ilato, Colo-
 Tlie copper proluwt of the grat copper region borilering lake


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it is sail, and mul meling so ernmmon and involving lieavy lossee,
 as a legit mate husmess. Bat as an husingss it can, without From the Messager Franco-Americain, April 4, 1865.


 petrolenm and lyal of Penusylvauia. The discription of the dif. lerent methods of mining, and of the machiory ivvented
modern gen ius, are accompanied by wood cuts drawn with care

The text is clear and legible to every one is fine, as far as
may be julged by u first and nicessarily very rapil examination

 terest in mining, wish to get a compte rais-nne or From the Mining Journul, Pottsville, Pa

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 indieation of capbeity to command success, which we lieartily year. From the N. Y. Allas, April 14, 1865.
 sapply a muall telt want. The raplit divelopment of the miniteral resomrus on this conntry thith has recently tikim phee, and the
rrait anecesity fom a reliable jourual of the kiml. to disseminate minirg hews, am serve as a medium or contion

From the Chicago Evening Journal, April 7, 1866.





From the Scientific American.
Anezax Jorrvan of Miswe-The is $n$ nest, well printel


From the Reno Times, April 5, 1865.



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y obscrved. is situate in the best miuiog disticts, and on the most favored localities th the Coruty.

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Secretary, S. E. MARVIN
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Gen. E. A. SERRITT, Quarmrmaster General S. N. Y., State Ar
Mav1D CowWE, second National kank, Troy, Now York,
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[^0]:    S, means section ; 7 , townsbip; R, range.

[^1]:    Possessing, as they do, an immense and valuable property-
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