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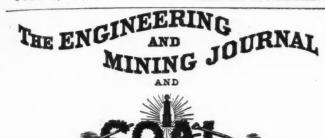
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THE ENGINEERING AND MINING JOURNAL.

No. 5.



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The price of silver this week fell to the lowest point on record, having been quoted at 26§ pence per sterling ounce in London, and at 57§ cents per fine ounce in New York. On March 3d, 1894. it sold at 27 pence in London, and 584 cents in New York, and for two weeks or more the London price was between 27 and  $27\frac{1}{2}$  pence. The price was steady during nearly all of 1896, but this year the decline has been almost continuous, having been interrupted only by a slight upward reaction in March.

The first point in the litigation between the Cowles Electric Smelting and Aluminum Company and the Carborundum Company has been secured by the latter, the United States Circuit Court for Western Pennsylvania having just given its decision. The suit was brought by the Cowles Company to enjoin the Carborundum Company from using the Acheson electric furnace, on the ground that it infringed the Cowles patents. The suit was begun about three years ago, but a new element was recently introduced by the Cowles ownership of the Bradley patents, to which reference was made in the Engineering and Mining Journal for February 20th and 27th and March 13th last. The Court now decides that the Acheson furnace is not an infringement. We have not yet the text of the decision, but hope to give an abstract of it shortly.

A correspondent in another column calls attention to the advertise ments of Klondike "companies" which are now appearing in the daily newspapers of New York, Chicago and other large cities. The warning is timely, since there is no doubt that many of the swindlers who are always on the lookout for an opportunity are taking advantage of the new excitement to obtain money from credulous people. The prospect of success for a man who goes to the Yukon on his own resources and at his own risk is uncertain enough; to entrust money to strangers is to increase the risk.

It is altogether probable that many of the advertisers have not the slightest intention of going anywhere near the Yukon, nor of equipping parties to go there. We warn our readers that any investment of the kind proposed is pretty sure to end in loss. If they want to put money into the new gold-fields, there will be legitimate opportunities enough before long; but neither at present nor in the future should they risk anything except with known and responsible parties.

Prof. C. Thureau, late government geologist of Tasmania, described a very remarkable occurrence of gold and tin ore in a paper recently read before the Geological Society of Australia. Mt. Cameron, which is situated near the town of Gladstone in the northeastern part of Tasmania, is composed of granite, crossed by dikes of porphyry, which is capped on the southern and northeastern flanks by metamorphic slate and sandstone schists. Several gold-bearing quartz veins have been discovered in the schists, not far from the contact with the granite, a peculiarity of these veins being the resemblance of their filling to fine-grained grey to reddish quartzite. In the Royal Tasman vein the quartz became poorer in gold with depth, while cassiterite made its appearance, particles of gold and crystals of cassiterite being found in close juxtaposition. We believe that such an occurrence of gold and cassiterite has never been noted before, although a remarkable association of tin sulphide and gold and silver minerals is found in Bolivia, and the genesis of these Mt. Cameron veins will be an interesting problem for geologists. It should be mentioned that workable deposits of tinstone exist in the same vicinity.

The Calumet & Hecla report for 1898-97, which is given in another column, is of the usual unsatisfactory nature. Beyond the facts that the company's mines produced last year 92,475,595 pounds of refined copper, and the dividends amounted to \$40 per share, the report tells us absolutely nothing. We have not even the gross earnings or the net earnings of the company, and it is impossible to draw any valuable deductions from comparisons of the statements of assets and liabilities with those of previous years. Of the average selling price of its copper and the cost of producing it we can learn nothing; all this information, which stockholders have a right to, is very carefully withheld. Unfortunately this is the company's usual policy, and its adoption by directors and officers, who have served honestly and secured great profits for the shareholders, has served as an excuse for other corporations where the management has not been honest and the results deplorable. It is, we believe, not only a wrong, but also a totally mistaken, policy to suppress information in this way. The Calumet & Hecla stockholders have permitted it with little protest, because they have received large returns; but there are signs that they will not always submit and that some of them are inclined to demand the information, which they have a right to receive.

The decline in the value of silver, which is due probably to the continued large production and the recently decreased demand from the East, has forced exchange in Mexico up to a point never before reached the quotation of 225 being recorded one day this week. The rapid rise has, of course, paralyzed business in Mexico, since no merchant can afford to buy goods abroad with the possibility that a few points further advance will wipe out his profits on their sale. The present high rate of exchange materially decreases the dividends of foreigners who derive income from Mexico, unless payment is specifically guaranteed in gold, and in the latter case makes it harder for those in Mexico who have to pay the money. In this connection it is worth noting that there are now comparatively few Americans  $\epsilon$ m-loyed in Mexico under contracts requiring payment of salary in gold or United States currency. There was a time, not many years ago, when an American engineer, chemist, miner or mechanic engaged to go to Mexico could make such terms, but now it is only those who are specially wanted who can do it, which is equivalent to saying those who can command their own salaries anyway. As for the rest, there are now so many Americans in

Mexico that it is unnecessary to send to the United States for a man to fill any ordinary position, and services bring naturally less reward. An assayer, surveyor or machinist now receives nominally about the same salary or wages as he would in the United States, but it is in Mexican dollars. Living, of course, costs less correspondingly, but when the exile returns to the United States the shrinkage in his savings is appalling.

There have been no changes of much importance during the week in the situation among the Western coal miners. The Pittsburg conference of operators held this week resulted in the preparation of a "uniformity" agreement—that is, an agreement providing for a scale under which miners in different districts and different classes of mines will receive fairly uniform wages, and the cost of production in different districts will be approximately equalized; but it is by no means certain that it will command the approval of all the mine operators.

As it has from the beginning, the question of the success of the strike turns upon the action of the West Virginia miners, and the leaders of the movement have concentrated all their efforts upon that State. What the actual situation is there it is difficult to say, since the news telegrams are contradictory in their tenor, and are evidently colored by local feeling. The facts seem to be that very few of the miners have yet given up work, and most of the mines are still shipping steadily. As long as this continues, there will be no important change.

No scarcity of coal is yet reported from any important point. The dispatches sent from Cleveland last week were incorrect, and the factories of that city have a sufficient supply. At Chicago and other trade centers there has been no want of coal, though prices have gone up a little.

In some quarters the strikers are evidently growing uneasy and there are fears of violence. No outbreaks of consequence have yet occurred, however, and the strike thus far has been a remarkably quiet one.

#### The Canadian Government and the Klondike Placers.

On July 27th the Dominion Cabinet decided to demand a royalty on the output of the new diggings of the Yukon. Under regulations previously issued, a fee of \$15 per claim for registry and a tax of \$100 per annum were imposed. Now, in addition to this, a royalty of 10% of the output is to be collected from all claims producing \$500 per month and 20% on those producing more than that amount. Moreover, every alternate claim on all placer ground is to be reserved as the property of the government, to be sold or worked for its revenue. The establishment of such a system, which is, we believe, without precedent on this Continent since the end of Spanish rule in Mexico, is startling to those who have already acquired property on the Klondike by right of location and possession, if not by title from the government, and to prospectors who are proposing to go there.

The right of the Canadian government to make such regulations is unquestionable; the policy is doubtful. There is a suspicion that they would not have been so severe if it were not that most of the miners in the district were Americans, and the rush of prospectors thither promises to be chiefly American also. It was, of course, to be expected that the Canadian government would take measures to reimburse itself for the expenses of administration in the new district, and there is a plausible reason for a departure from the policy of liberality in granting public mineral land for the purpose of developing the unsettled parts of the country, since it is likely that the Yukon District has few natural resources besides its mines, and when the latter are exhausted the district will be abandoned; but this looks only to the easily worked placer deposits and fails to take into account the lodes whence they originated, which some day will require capital and industrial freedom for their exploitation. The measures adopted, however, seem to us unwise, owing to the retardation in the development of the mineral resources of the Canadian Yukon which they will cause, and the hard feeling they are sure to breed among the American prospectors, who are likely to clamor for retaliatory measures. These will be, moreover, dif-

ficult and expensive taxes to collect, since it will be nearly impossible to watch every miner, and the Klondike is so near the American frontier that clandestine exportation can hardly be prevented. It is a sound principle of government that revenue needed should be raised in the most inexpensive manner possible, and any other system is unjust to the people who have to pay the taxes.

Most of all to be regretted, however, is the possibility of friction arising between two nations whose interests are really identical; since recent history has demonstrated that rich gold mines are a prolific source of contention and hard feeling.

#### The Design of Metallurgical Works.

In a recent communication to the Transactions of the American Institute of Mining Engineers, criticizing Mr. L. S. Austin's paper on "A Modern Silver-Lead Smelting Plant" (read at the Colorado meeting, September, 1896), Mr. H. A. Vezin takes up the question of the location of metallurgical works, discussing the advantages of a level site over a hillside. A journey through the mining regions of the West will show that by far the greater part of cur metallurgical works, especially the ore-dressing works, stamp mills, chlorination and cyanide works, and silver amalgamation and leaching mills are located on sloping ground. This is to a certain extent a peculiarly American practice. Although many instances of it are to be found in Europe, it is by no means so general there as it is here, and the new dressing works at Lautenthal, in the Upper Harz, which are erected on a steep hillside, are spoken of as following the American model. The common adoption of this plan in the United States is due undoubtedly to the theory that labor in handling material will be saved by providing for its regular descent through the works by gravity. This, then, resolves the question into one of cost, but Mr. Vezin, who is an engineer of wide experience, states that he does "not recollect ever meeting a metallurgist . . . who had . figured how much he gained or lost by one or the other method." and we fear that he is right in his assumption that an unprejudiced investigation of the question is commonly ignored.

Mr. Austin advocated originally a modification of the hillside location by "utilizing an extended surface with a moderate slope," admitting for works on a level site the advantages of good ventilation, accessibility and compactness, but in the final form of his paper omitted this expression of opinion. Mr. Vezin, whose criticisms are based on Mr. Austin's original paper, shows that with a coal consumption as high as 10 pounds per horse-power per hour the cost of elevating 30 feet is only 0.5 cent per ton, and considers that if it were four times as much the advantages admitted by Mr. Austin would be cheap at the price. He also mentions that the first cost of works on a level site is less than that of hillside or terrace works; that a more convenient arrangement can be made, and that every part of the works can be made alternately inferior or superior to every other part. This states concisely the case of the advocates of level sites, but it would have been interesting if Mr. Vezin had elaborated his criticism a little more. He admits, however, that advocates of the two systems will probably not come to an understanding of what they really disagree about until each has designed works according to his ideas of what is best and shown in dollars and cents what he gains; and for the same reason it is difficult, in the absence of specific data of the two methods of construction, to make precise comparisons.

There are, nevertheless, certain points which are evident. It is clear that in seeking a hillside location a more convenient level site is often forsaken, and in the construction of hillside works a greater amount of excavation and filling, and masonry for retaining walls, is required than for works built on level ground; in general, also, the framing of a regular building on level ground can be designed more simply and cheaply than a building on a hillside, which circumstances are apt to make more or less irregular. We are referring to hillside locations, rather than to gentle slopes and terraces, as representing the extreme of the case. The steeper the slope the works are built upon the more cramped they will be, and the greater the complications in making subsequent enlargements which were not originally planned. These are objections from which the works planted on level ground are free.

The advantage gained by the descent by gravity of the material treated in a hillside or terrace works would be more apparen. if it were not that even in them there is likely to be a good deal of stuff to be sent back from a lower to an upper terrace, wherefore they too must be provided with elevators, the only difference after the original elevation of the ore being in the height of the elevators required. In the case of the stampmills where there is nothing to go back and only a moderate fall is necessary, or of smelting or other works in which there is no product to be returned from one department to a preceding one, a gentle slope or a series of terraces may be chosen possibly with advantage except as to the first cost of the works, providing the location is convenient. It is certainly advantageous to have a good fall in the ground for the final disposition of the waste products, slag or tailings,

122,

Some of the best metallurgical works in the United States are built on evel ground, and the advantages gained thereby are appreciated by evel ground, and the advantages may be mentioned the dressing works of the dressing level ground, and the advantages gained thereby are appreciated by their operators. Among these may be mentioned the dressing works of the St. Joseph Lead Company at Bonne Terre, Mo., where the cost of dressing is about as low as anywhere in the world, and the works of the Metallic Extraction Company, at Florence, Colo., where fine crushing and cyanide lixiviation are carried out probably as cheaply as at any point in the United States. Mr. Herbert Lang built the pyritic smelting works at Keswick, Cal., on level ground, and was warm in his recog-nition of the advantages gained thereby. We shall be glad to open our columns to a discussion of this subject.

#### NEW PUBLICATIONS.

THE BLUE BOOK OF AMERICAN SHIPPING. Cleveland, O.; The Marine Review, Pages. 448; illustrated. Price, \$5.

THE BLUE BOOK OF AMERICAN SHIPPING. Cleveland, O.; The Marine Review, Pages 448; illustrated. Price. \$5. This exceedingly useful manual gives complete information relating to the marine interests of the United States. It contains dimensions, etc., name and address of owner or manager of every American steam vessel over 100 tons, and every seagoing sail vessel. This is given in addition to a separate list of vessels on the Great Lakes. It is also a directory of the Society of Naval Architects and Marine Engineers, the American Associa-tion of Masters and Pilots, and contains names and addresses of 3,650 masters and pilots and over 5,000 marine engineers. One list of 500 names and addresses includes owners of 2,400 of the largest vessels in the United States, and a directory of passenger steamer lines owning 700 steamers gives the name and address of purchasing agents. A complete directory of steamship lines between the United States and foreign ports, particu-lars of coast dry docks and marine railways, and exports by ports for five years of principal commodities are also included, with many statis-ties of the iron ore and other business of the lakes. A classified and a port directory of the principal marine business concerns adds to its value. It is illustrated by nearly 100 engravings, including photographs of lake and ocean steamers. of lake and ocean steamers.

ELECTRIC POWER TRANSMISSION. A PRACTICAL TREATISE FOR PRACTICAL MEN. By Louis Bell. N-w York; The W. J. Johnston Company. 1897. Pages 492; illustrated. Price \$2.50.

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#### BOOKS RECEIVED.

In sending books for notice, will publishers, for their own sake and for that of book buyers, give the retail price ? These notices do not supersede review on another page of the Journal.

Ministerio de Hacienda Estadistica Tributaria de España Año Econo-mico de 1894-1895. Madrid, Spain; Ricardo Rojas, 1897, containing 27 maps with text.

- Frinter. 1890. rages, 45; With maps.
  Eleventh Annual Report of the Commissioner of Labor, 1895-'96. Work and Wages of Men. Women and Children. Washington, D. C.; Government Printing Office. Pages, 671.
  North Carolina Geological Survey. Bulletin No. 3. Gold Deposits of North Carolina. By Henry B. C. Nitze and George B. Hanna. Winston. N. C.; Public Printers, 1896. Pages, 260; with maps and il-Instrations.
- Transactions of the American Institute of Mining Engineers. Volume XXVI. February, 1896, to October, 1896, inclusive. Dr. R. W. Ray-mond, Secretary. New York; published by the Institute. Pages, 1,141; illustrated.
- Annual Report of the Board of Regents of the Smithsonian Institution, for the year ending July, 1895. S. P. Langley, Secretary. Washing-ton, D. C.; Government Printing Office. 1896. Pages, 837; with illus-trations and maps.
- Kritische Betrachtungen über die Naviersche Bogentheorie und die Neuere Elasticitätstheorie Kontinuierlicher Fachwerkstragbögen. Von Heinrich Haase. Regensburg, Ger.; Herman Bauhof. 1897. Pages, 74; with diagrams.
- Boletin de la Comisión Geologica de Mexico. Num.1. Fauna Fosil de la Sierra de Catorce San Luis Potosi. Por Antonio del Castillo y José G. Aguilera. Mexico. D. F.; published for the Commission. 1895. Pages, 55; with 24 plates.
- Das Grundgesetz des Horizontalschubs versteifter Tragbögen Kontinuier lichen Systems. Statischnathematisch und experimentell nachge-wiessen von Heinrich Haase. Regensburg, Ger.; Hermann Bauhof. 1897. Pages, 102; with diagrams.
- 1897. Pages, 102; with diagrams.
  Twelfth Annual Report of the Illinois Society of Engineers and Surveyors. Being the Proceedings of the Society at its Twelfth Annual Meeting, held at Springfield, 111., January 27, 28 and 29, 1897. Peoria, Ill.; printed for the society. Pages, 156.
  Boletins del Instituto Geologico de Mexico. Num. 2. Las Rocas Eruptivas del S. O. Cuenca de Mexico. Pages, 46; illustrated. 1895. Num. 3. La Geografia Fisca y la Geologia de la Peninsula de Yucatán. Pages, 57; with map and diagrams. 1896. Nums. 4, 5 y 6. Bosquejo Geologico de Mexico. Pages, 274; with maps and illustrations. 1897. City of Mexico; State Printer.

#### CORRESPONDENCE.

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

#### Precautions Against Fire in Metallurgical Works.

Precautions Against Fire in Metallurgical Works. Sir: I read with interest the article in the Engineering and Mining Jour-nal of July 17th, on "Precautions Against Fire in Metallurgical Works," and wish to call the attention of parties interested to the risks of fire in many of the mills and reduction works throughout the West, arising from the manner of installing their electric plants. It is no uncommon thing to see wires conducting direct current 120 to 500 volts strung about the mill on wooden cleats, and drawn through timbers and floor joists, with only a low grade of weather-proof insulation to protect the wires and prevent leaks and short circuits. Another practice that ought to be prohibited—and soon would be if the insurance companies would refuse to take risks on buildings where it is done—is running cir-cuits with wire as small as No. 16 B. S. gauge. This is sometimes done simply to make a cheap job, though if there is any class of work that pays to have well done, it is electric work. Another error is in wiring small isolated plants with so heavy a loss in the conductors. While expensive in the long run, both as regards fuel and lamp renewals. FLORENCE, Colo., July 26, 1897. S. T. J.

#### Klondike "Companies "

Klondike "Oompinies" Sir: The Engineering and Mining Journal, as representative of the mineral industry, should vigorously raise its voice against the numerous swindles being worked with the aid of the Klondike excitement. You will note in the New York papers of Sunday numerous invitations to subscribe to the stock of companies and syndicates formed and forming for the alleged purpose of doing something or other in the Klondike. Thousands and millions are promised invectors. The columns of yester-day's Chicago papers contain dozens of similar advertisements. All over the Central West and East the same thing is observable, and there is good reason to believe the general public is pouring in its money, in individual driblets, that aggregate a large whole. Probably not one in a hundred of these companies, so called, has any intention whatever of sending anybody to Alaska. The purpose of the promoters is simply to gather a few thousands by means of a cheap, vulgar swindle. Getting as much money as possible, they will vanish. The "stockholders" in the concern actuated by better faith will fare no better. The ground is placer ground and rich. If a newcomeer should in the brief period of possible prospecting locate anything good, human ature will have to change, and history is a he if stockholders ever get their share. Rich placer bars always were and always will be an indi-vidual mining proposition. No one has found the source of the Alaska of the money to these Alaska companies, but I am as to the damage th will do legitimate mining. The reaction which will shortly come will ad impetus to the belief that mining is a fraud and all mining men swindlers; it will make more difficult than it now is the task of interest-ing capital in genume mining enterprise. R. M. Cmeaso, July 26, 187.

CHICAGO, July 26, 1897.

#### Explosion of a Hartsfeld Furnace,

Sir : The water jacket of the Hartsfeld smelting furnace at Oro Grande, San Bernardino County, California, blew up on June 8th last, killing two

men and severely injuring two others and completely wrecking the plant. I visited the scene lately and made myself acquainted with the circumstances, which may be of interest to your readers who are toler-ably familiar with the name of Charles L. Hartsfeld, the designer of the aratus

ably familiar with the name of Charles L. Hartsfeld, the designer of the apparatus. The plant was an extremely crude and worthless one, consisting of a 48-in. circular water-jacket stack, with the water space closed up, and so arranged as to generate steam, which was conducted into a large sheet-iron box where it met the current of smoke from the furnace, and assist d, according to Hartsfeld, in precipitating the "voltic metals," which no other known form of furnace is supposed to catch, or any other furnace builds r to know anything about. A steam plant of about 10 H. P. and a fan blower of diminutive size, completed the plant. They ran, or attempted to run, for two months, making staggers at smelting the ores of the country trying to produce lead bullion, but never got a pound of it, the extent of their work being shown by the output of s me eight or 10 tons of slag, not too well melted, which lies around the place. Hartsfeld himself conducted that he was to stay 30 days and put the thing on its feet. The control then fell to a superintendent fresh from the plow, and the result was as above mentioned. The explosion was caused by the formation of steam in the water-space and the conse-quent collapsing of the inner sheet. The rivets were sheared cle anly off, and the force of the explosion was chiefly felt at the feed door, whence was less lucky, being simply cooked by the hot slag and living some hours. So much for trying to make a steam generator out of a water-jacket smelting furnace. Their metallurgical plan was on a par with the apparatus. They

Their metallurgical plan was on a par with the apparatus. They bought a ton of pig lead, melted it and granulated it by throwing it into water. Thus prepared they added it to the charge in the stack in home-opathic quantities, expecting it to take down the gold and silver and subside at the bottom. But it refused to subside, and went into the slag; and the only bullion they got was that recovered from the hide of the unfortunate furnace-tender after the thing blew up. Los ANGELES, Cal., July 19, 1837.

#### METALS IN THE NEW TARIFF.

We give below the provisions of the new tariff act in relation to metals. After each clause we have added the duty under the late tariff in parenthesis, with P. preceding the rate: 172. Aluminum and alloys of any kind in which aluminum is the com-ponent material of chief value, in crude form, 8c. per pound (P., 10c.); in plates, sheets, bars and rods, 18c. per pound (P., 10c.). 173. Antimony, as regulus or metal, \$c. per pound (P., free). 174. Argentine, albata or German silver, unmanufactured, 25c. ad valorem (P., 15%).

174. Argentine, albata or German silver, unmanufactured, 25c. ad valorem (P., 15%).
175. Bronze powder, 12c. per pound (P., 40%); bronze or Dutch metal or atuminum, in leaf, 6c. per package of 100 leaves (P., 40%).
176. Copper in rolled plates called brazier's copper, sheets, rods, pipes and copper bottoms, 2½c. per pound (P., 20%); sheatbing or yellow metal of which copper is the component material of chief value, and not composed wholy or in part of iron ungalvanized, 2c. per pound (P., 20%).
177. Gold leaf, \$1.75 per package of 500 leaves (P., 30%.)
178. Silver leaf, 75c. per package of 500 leaves (P., 30%.)
181. Lead-bearing ores of all kinds, 1½c. per lb. on the lead contained therein (P., 4c.): Provided. That on all importations of lead-bearing ores the duties shall be estimated at the port of entry, and a bond given in double the amount of such estimated duties for the transportation of the ores by common carriers bonded for the transportation of appraised or unappraised merchandise to properly equipped sampling or smelting establishments, whether designated as bonded warehouses or otherwise. On the arrival of the ores at such establishments they shall be sampled according to commercial meth ds under the supervision of government officers, who shall be stationed at such establishments, and who shall submit the samples thus obtained to a government assayer, designated by the Secretary of the Treasury, who shall make a proper assay of the the sample and report the result to the proper customs officers, and the import entries shall be liquidated thereon, except in case of ores that shall be removed to a bonded warehouse to be refined for exportation, as provided by law. And the Secretary of the Treasury is authorized to make all necessary regulations to enforce the provisions of this paragraph.
182. Lead dross, lead bullion or base bullion, lead in pigs and bars, graph.

graph. 182. Lead dross, lead bullion or base bullion, lead in pigs and bars. lead in any form not specially provided for in this act, old refuse lead run into blocks and bars and old scraplead fit only to be remanufactured; all the foregoing  $2\frac{1}{6}c$ . per pound (P., 1c.); lead in sheets, pipe, shot, glaziers' lead and lead wue.  $2\frac{1}{2}c$ . per pound (P., 1 $\frac{1}{4}c$ .). 183. Metallic mineral substances in a crude state, and metals un-wrought, not specially provided for in this act,  $20\frac{2}{6}ad$  valorem (P., or leaves of this kind): moneting end end there is a state of the provided for the state of the provided for the state of the provided for the state of th

clause of this kind); monazite sand and thorite, 6 cents per pound (P. not mentioned).

mentioned,.
184. Mica, unmanufactured or rough trimmed only, 6c. per pound and 20% ad valorem (P. 20%); mica, cut or trimmed, 12c. per pound, and 20% ad valorem (P., 20%).
185. Nickel, nickel oxide, alloy of any kind in which nickel is a component material of chief value, in pigs, ingots, bars or sheets, 6c. per pound (P. 6a.)

pound (P., 6c.).

189. Quicksilver, 7c. per lb. (P., 7c.): The flasks, bottles or other vessels in which quicksilver is imported shall be subject to the same rate of duty as they would be subjected to if imported empty.

as they would be subjected to if imported empty. 190. Type metal,  $1\frac{1}{2}c.$  per pound for the lead contained therein (P.,  $\frac{4}{3}c.$ ); new types, 25% ad valorem (P., 15%). 192. Zinc in blocks or pigs,  $1\frac{1}{2}c.$  per pound (P., 1c.); in sheets, 2c. per pound (P.,  $1\frac{1}{2}c.$ ), old and worn out, fit only to be remanufactured 1c. per pound (P.,  $\frac{4}{3}c.$ ).

pound (P.,  $\frac{3}{4}$ .). 193. Articles or wares not specially provided for in this Act, composed wholly or in part of iron, steel, lead, copper, nickel, pewter, zinc, gold, silver, platinum, aluminum or other metal, ard whether partly or wholly manufactured, 45% ad valorem (P., 35%).

The free list is as follows, so far as metals or minerals are concerned:

JULY 31, 1897

476. Antimony ore, crude sulphite of. 492. Bells, broken, and bell metal broken and fit only to be remanu. factured.

factured.
505. Brass. old brass, clippings from brass or Dutch metal, all the fore going, fit only for remanufacture.
511. Bullion, gold or silver.
520. Chromate of iron or chrome ore.
523. Coal, anthracite, not specially provided for in this Act, and coal stores of American vessels, but none shall be unloaded.
582. Copper in plates, bars, ingo's or pigs, and other forms, not manufactured or specially provided for in this Act.
583. Old copper, fit only for manufacture, clippings from new copper, and all composition metal of which copper is a component material of chief value not specially provided for in this Act.
534. Copper, regulus of, and black or coarse copper and copper cement.
550. Emery ore.
583. Iridium.

583. Iridium.

583. Iridium.
583. Junk, old.
603. Loadstones.
605. Magnesite, crude or calcined, not purified.
606. Magnesium, not made up into articles.
629. Ores of gold, silver; ores of copper, or nickel, and nickel matte;
weeping of gold and silver.
637. Pewter and britannia metal, old and fit only to be remanufactured.
641. Pletina in incots, sheets and wire.

641. Platina, in ingots, sheets and wire.

642. Platinum, unmanufactured, and vases, retorts and other appara-tus. vessels and parts thereof composed of platinum, for chemical uses,

643. Plumbago. 683. Tin ore, cassiterite or black oxide of un and tin in bars, blocks, pigs or grain or granulated.

#### THE BAKU PETROLEUM PRODUCERS' LEAGUE.

A correspondent of the London Standard, writing from Baku, says: The great question of the day in Baku is the renewal of the League of Naphtha Oil Producers, whose first term of trial expires on October 1st. The *i* anager, Mr. Antanoff, has just published articizes in several leading Russian papers, pointing out the advantages and profits which the oil business acquired in Russia during the two and a half years it has been in existence. He urged the importance of its consolidation for a longer period on more organized and solid ground. The American Standard Oil Company formerly controlled the oil markets from west to east. The cost of transporting Russian oil was so great that it exceeded the sale price, and thus its export to foreign markets was stopped. With the for-mation of the league this state of things changed; the prices were firmly held, and if Russian oil could not find a tree market in Europe it was sent to the Far East. The league concentrated in its hands all the oil products of the Baku District, and exported them through special con-tractors. The small dealers were thus able to enter the market on equal terms; while the principal firms agreed to give the league a trial, in order tractors. The small dealers were thus able to enter the market of equa-terms; while the principal firms agreed to give the league a trial, in order to accertain in what degree such a union could be of advantage to them. Now that the period of this experiment is drawing to a close, a great movement is in progress between two parties, one including the firms of Nobel, Rothschild and Mantasheff, and the other smaller dealers. The Nobel, Rothschild and Mantasheff, and the other smaller dealers. The latter are trying to renew the league for a further 10 years, while the former are endeavoring to secure modifications in several articles of the uniton. The largest exporter of Russian oil to the Far East is the Eng-lish firm of Samuel & Company, which has had with the Caspian Black Sea Company (Rothschild & Company) a contract for 10 years, beginning in the year 1892. The business of this firm is yearly extending. It now pos-sesses 13 large ocean steamers, reservoirs in 15 different ports, from Bom-bay to Vladivostok, and great factories for making tin and wooden boxes. Last year this firm exported 11.000,000 to India. 1,000,000 to Japan and the remainder to other ccuntries in the East. India is the principal consumer of Russian oil in liquid form and petroleum in boxes. Japan receives 20% of the oil exported and China 28%. The other great export firms are Nobel Brothers & Company, the Caspian Black Sea Company (Rotnschild) and Mantasheff & Com-pany. Nobel Brothers & Company (Rotnschild) and Mantasheff & Com-pany. Nobel Brothers & Company many years ago established in Ger-many a company (Deutsche-Russische Naptha Import Geschichte) to export Russian petroleum to the center of Europe. But it proved a failure, owing to the Standard Oil Company, which has a strong footing in Germany. The same firm exports largely to the north of Europe, and has leased for that purpose the two steamers *Swiet* and *Loutch*, of the Russian Steamship Company. The Caspian Black Sea Company has a contract with Samuel & Company, and furnishes part of Tuikey with oil, especially the Syrian ports. Its head agency, which is in Paris, con-trols all its export business. The third firm, Mantasheff & Company, has its own agents and st an cre, and wholesale depots at Salonica, Smyrna, Ezypt and formerly in Constantinople. Some years ago it cxported about 2.000,000 b x:es, but last year, on account of the political troubles in the East, its export amounted to only 1.00 latter are trying to renew the league for a further 10 years, while the short time a prosperous position.

Manganese in Ohile.—The principal deposits of manganese in Chile ex-ist in the province of Coquimbo and are owned by W. Creighton Tripler, of Coquimbo, and Joaquin Naranjo, of la Serena. The deposits owned by the latter are situated in the hactenda de Marquesa, 32 km. from la Serena, on the line of the Elqui Railway. The greater part of the ore dis-closed there assays from 35 to 45% Mn, but there is a vast amount with a tenor of 50%.

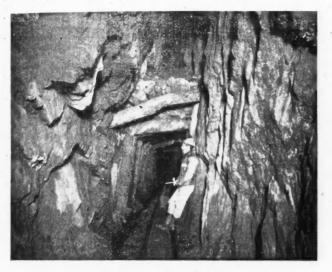
The Slate Industry of Maine .-- The slate industry of Maine is confined to Piscataquis County, the most important quarries being situated at Blanchard, Monson and Brownville. The grater part of the output is turned out as roofing slate, but maniels, hearthstones, bath-tubs, tables, blackboards, etc., are also manufactured. The rock is generally quarried in blocks from 1 to 3 ft, thick, and 2 to 6 it, square. The waste rock is sold to contractors for building foundations, etc.

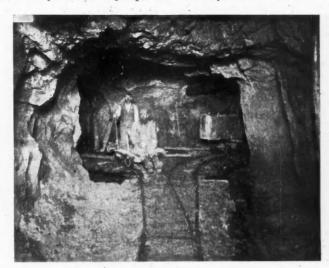
#### UNDERGROUND PHOTOGRAPHY.

## Written for the Engineering and Mining Journal by James Underhill.

The value of photographs in a mining report is evident to everyone and there are few engineers who have not wished at various times that they could illustrate their papers by means of the camera. I will en-deavor to show how, with the simple appliances that can easily be car-ried into a rough country, photographs can be secured which will much more than repay the slight cost and trouble in taking. The camera is the most important part of the outfit, and this should be the best obtamable, and in most cases where portability is an object car-rying not larger than a  $5 \times 7$ -in. plate. It should be folding, self-con-taining and, where necessary, focussing by a scale in front, without the aid of the ground glass. The camera should have double swing-backs

camera must be leveled carefully as the wide angle distorts somewhat, even under the best conditions. This operation is quickened by having a level or a pair of levels on the swing-back. If the swing-back is level the picture will not be distorted, but the plates must be perpendicular, no matter where the lens is pointing. A ball and socket joint aids in leveling, but makes the camera less steady. By moving candles or lights in front of the camera one can tell exactly how much ground the lens covers and just what the photograph will include. There is rarely enough light to see the image distinctly on the ground glass. Every-thmg being ready the slide is withdrawn from the plate-holder, the shutter opened, unless it was left opened in the beginning. The lamp is set going from behind, or to one side of the camera a few inches back of the lens. The flash must never get in front of the lens, though candles or lights may be left burning if they are not moved. The exposure lasts according to the size of the workings and the length of the flash can only be learned by experience. Perhaps three thimblefuls of

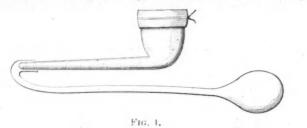




JUNCTION OF TWO VEINS. BEGINNING OF A STOPH PHOTOGRAPHS TAKEN IN THE PRUSSIAN MINE, COLORADO.

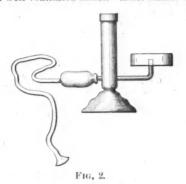
and sliding front. The tripod, as in surveying, should be adjustable to different heights and is much steadier by having its legs in only two sections. One should have two lenses, wide angle and rectilinear, for underground and surface work, and these should be able to cover a larger plate than the camera carries, so that the image is sharp when both sliding front and surface work, and these should be best lenses are none too good, as great rapidity is almost always an advantage. The most useful shutter is probably the automatic B susch & Lomb with iris diaphragm. I use a  $4 \times 5$ -in. folding Kodak, sliding front and double swing back, Bausch & Lomb lens and shutter. The Poco, Premo, Wizard and some other cameras, when fitted with wide angle lenses, are admirably adapted for underground work, and are very portable. The plates used should be the quickest possible to obtain. Seeds 27 and Carbutts, also the quick plates of some other makers, work nicely, but little or nothing can be done with a slow plate. Films rarely give complete satisfaction, but where great portability is required cut-films seem to work.

satisfaction, but where great portability is required cut-films seem to work fairly well. The lamp is very important. I have found the "Perfection" lamp (Fig. 2), while not perfection, perhaps the nearest to it of any lamp. The "Perfection" is a magazine lamp, and will serve for from 5 to 15 expos-



pure magnesium, or about twice the quantity of blitz-pluver, would light an ordinary sized drift or stope. If the photographer stands behind the camera and causes the lamp to move in an arc from one side over the top to the other, blowing slowly all the while, so to throw the light in all directions, the best results can be obtained. A reflector is sometimes useful

ful. Care should be taken not to let the smoke get in front of the camera, as this fogs the picture. This is very difficult in taking low drifts and upraises. In such places it is usually necessary to use blitz-pulver where the plate is exposed and the flash finished before the smoke really gets started. In all cases it is well to study the direction of air-currents both while making the flash and also when a good exposure is desired. I have found it almost impossible to take a second good picture within a reason-able time, even in well ventilated mines. After flashes as well as after



ures without refilling. An admirable lamp is made by taking a clay pipe, wiring on to it a lamp wick. The magnesium powder is put in the bowl and the wick, previously soaked in alcohol, is lighted. The magnesium is blown up through the flame by means of a rubber tube or a bulb such as is used with the shutter of the camera. This outfit, costing about 14c., will make as good a picture as the best lump in the market, but has to be filled each time it is used. Thus, however, is perhaps an advantage as it enables the photographer to control the intensity of his flash by the amount of magnesium used, which has to be guessed at with a magazine lamp. Fig. 1 shows the contrivance ready for use. Bitz-pulver may be used without a lamp and simply ignited on a rock or shovel. It is easier to regulate the amount of light and much quicker, but it is harder to direct the light and makes more smoke. Magnesium most cases better than bli z-pulver. A box to contain the instruments, plate-holders, etc., together with a flask of alcohol for the lamp, is use tul. At all events, they should be carried in such a way as to be easily found in obscure light. In taking the picture it is not necessary to focus very carefully, as the wide angle lens is very nearly universal focus. The best way is to focus with the ground glass on some object about 20 ft. away, make some kind of a mark and use this where the light is obscure underground. The

blasting, even when the smoke is gone, there seems to remain a practi-cally invisible gas which throws the objects in the picture all on one plane and makes the photograph look like a bas-relief. In taking pictures of shaft-houses and mills even in daylight it is often advisable to give one or more flashes to bring out more detail in obscure places. The con-trasts otherwise are liable to be too great.

one or more manes to ming our more detail in obscure places. The con-trasts otherwise are hable to be too great. A few words should be added on the subject of developing and printing. Underground flashlights having so little contrasts need a good light in developing. They should be developed slowly and will often be improved by intensifying later on. The author prefers negatives bordering on dense and thinks that it is difficult if not imposible to over-develop a properly exposed or an under-exposed plate. In the boxes with the plates will be found formulas from the makers for developer, intensifying and reduc-ing solutions and these are usually best suited to the particular brand of plates. Eastman's eikonogen powders and Dr. Anderson's eikonogen car-tridges are very useful in traveling. They are cheap, take up httle room and do very good work. In developing in tents and the like, starlight or indirect moonlight does little or no harm. The engineer rarely does his own printing, but he will be rewarded as a rule when he does. Platinum paper gives the best results, as it tones down the sharpness of the ordinary flashlight negative. It is the easiest and quickest paper to handle, though somewhat more expensive than the

gelatine papers. Bromide paper, except for very thin negatives, is not as good as platinum, as it is likely to intensify the faults of the nega-tives. It is admirable, however, for enlargem ats, and most negatives taken by flashlight can be enlarged with good results. The accompanying illustrations are reproductions of underground pho-tographs taken in mines in the vicinity of Clear Creek and Idaho Springs in Colorado. They show what can be done with the camera in a mine.

#### THE YUKON GOLD EXCITEMENT.

Not for many years past has the country been as excited over reported gold discoveries as it is to-day. Three weeks ago the Pacific coast was in its normal state; now it is ablaze with an excitement that is extending all over the country. Everywhere men are preparing to start for the gold-fields in the belief that they can find fortune there. Is this belief war-ranted by the facts of the case? Thus far we can only answer by present-

ranted by the facts of the case? Thus far we can only answer by present-ing those facts as briefly as possible. Prospecting has gone on in a desultory way for the past dozen years and previous to July, 1896, no great strikes were made, but in that month coarse gold was found in the Klon like or Reindeer River, a tributary that flows into the Yukon from the right, about 1,800 miles above the river's mouth. Some 300 claims were promptly staked out, each 500 ft. river's mouth. Some 300 claims were promptly staked out, each 500 ft. long, and extending across the narrow valley, and the older mining camps of Circle City and Forty Mile Creek were quickly deserted for the richer discovery. Shortly afterward Bonanza, El Dorado, Hunker, Dry Fork and West Fork placers were staked out, all on affluents of the Klondike, and during the past winter they gave employment to some 3,000 men. From these claims gold dust valued at \$1,000,000 has already reached civilization, and there is doubtless a larger amount awaiting transportation at St. Michael Island, on Norton Sound, near the mouth of the Yukon, but it is not probable that it is a large as rumor makes it. Knowing this we may be permitted to believe that the Klondike is a very rich placer gold deposit, and that in the unexplored mountain range in which it takes its source there must be some valuable quartz lodes awaiting dis-covery. covery.

The country produces very little food; a few wandering moose, caribou and bear, and in summer numberless berries and a great quantity of migratory salmonidæ are all that can be reckoned on. The country produces very inthe root, a rew wantering moose, caribou and bear, and in summer numberless berries and a great quantity of migratory salmonidæ are all that can be reckoned on. Beyond them every pound of food, and supplies of all descriptions, must he carried in by way of one of three passes in the Mount St. Elias Alps, or else journey by an indirect route of more than 4,000 miles from Seattle or Vancouver to Circle City, by way of St. Michael Island. Provisions are necessarily high-priced by the time they reach the diggings, and owing to the sudden growth of the present excitement, and the un-prepared condition in which it overtook the trading and transportation companies, no very large supplies can by any ingenuity be rushed through during the present season. It is not likely, however, that any large numbers of men will be able to reach the upper Yukon this summer, so that a heavy mortality in that region is hardly to be feared. They may get to St. Michael Island or to Dyea, at the head of the Lynn Canal, but beyond that they will find transport lacking. The claims on the Klondike consist of some 15 ft. of gravel overlying the bedrock. The pay streak is usually half a dozen feet thick, and the gold is very coarse, nuggets the size of a pea being often found. On ac-count of the cost of living, nothing but the very rich ground is sluiced at present. All the redd so for brought out is believed to have some from the Cana-

count of the cost of living, nothing but the very rich ground is sluiced at present. All the goldso far brought out is believed to have come from the Cana-dian side of the line, though there are rumors of very rich strikes on a gulch below Forty-mile Creek in American territory. Order has been well preserved by a detachment of 20 of the Northwest mounted police, and 80 more are on their way to Dawson City. No difference has been made between American citizens and Britisn subjects, and, not-withstanding reports to the contrary, it is hardly likely that any laws tending to exclude aliens will be passed at Ottawa, though a tax on all gold taken out is now to be levied. In one respect the intense frost of a winter, lasting eight full months, is a benefit. It renderes the following of the pay streak through the frozen subsoil comparatively easy, tunnels with little or no timbering sufficing, the dirt being piled to await the advent of spring. When the thaw comes, short sluices are set up and in a few weeks the result of the year's work is known. Wages are said to have risen to \$15 a day last winter, and even at that price labor was scarce. Some 800 claims were worked. The weather on the upper Yukon remains pleasant until about Sep-tember 15th, but after that very cold snaps and gales accompanied by snow are frequent. Between the closing of navigation in September and the beginning of travel by dog sled and snow shoes in October there is a month during which the would-be traveler can do nothing but rage im-potently. The coldest weather of the winter is generally early in De-cember, though the average is lower in January. As low as 65° below zero is sometimes recorded. The spring is late, all the ice not leaving the lakes until June, and the summers are consequently very short, but they are hot, and so near the Arctic Circle there is, of course, practically, no night for several weeks. In winter the reverse of this obtains, and a short twilight is an apology for the day to which dwellers in lower latitudes are ac

In lower latitudes are accustomed. Of the two best-known routes to the new gold-fields, that by way of Behring Sea is naturally the less arduous, while its rival is considerably shorter. Heretofore steamers have sailed once each month from Seattle for St. Michael on Norton Sound, connecting, more or less closely, with the small flat-bottomed, stern-wheeled steamers in which the 1,800-mile journey to Circle City is made. On account of the extreme shallowness of the many mouths of the Yukon, none of these steamers may draw more than 4 ft. of water.

The fare by this route has heretofore been \$150 first class, in-The fare by this route has heretofore been \$150 first class, in-cluding board and stateroom, but since the excitement began it has cost somewhat more to secure a passage. By way of Dy a and the Chilcoot pass Dawson may be reached in 15 to 20 days from Seattle; usually, how-ever, it takes a full month or six weeks. The all-sca route is only open for three months, June, July and August, no boats as a rule sailing from Puget Sound or San Francisco later than August 10th—even that is dangerously late, as the Yukon freezes by September 25th some seasons.

By way of Dyea the prospector may go in as early as April, and may come out in tolerable safety until September 20th, but for six months in the year frequent storms render the passage of the Chilcoot Pass extremely hazardous. They come up without warning and sometimes last for many days. A man caught in one rear the summit is lost. After the divide has been gained, at a point 17 miles from salt water, the descent into the basin of the Lewis River begins. Lake Linde-mann is reached 23 miles from Dyea, and from it there is a continuous waterway down which a staunch craft may float right to Klondike, 550 miles away. The White and Five Finger Rapids are, however, danger-ous spots and wise men drop their boats through by hand and portage their loads, many adventurers having perished in these treach-rous cur-rents. Weekly steamers run from Seattle or Vancouver to Dyea. The fare in ordinary times is \$40, including meals and berth, but just now pre-mums of bundreds of dollars are being paid to fortunate ticket holders by men who will go at any cost.

men who will go at any cost. In conclusion, a few words extracted from Surveyor Ogilvie's latest report to the Canadian government seem to warrant repetition. He

writes: "Until better means of communication are established a man under-takes serious risks in going to the Yukon region unless he has sufficient resources to tide over the long winter. After September egress from the country is practically impossible until the following June, and a person who has not been succe-stul in locating a paying claim has to depend for his subsistence upon finding employment. Wages are at times abnor-mally high, but the labor market is very narrow and easily overstocked. It is estimated that up to the middle of May 1,500 to 1,600 people had crossed the Dyea Pass this year. Several hundred more will go by steamer up the Yukon. Whether employment will be available for all and for the considerable population already in the district is somewhat doubtful." doubtful.

doubtful." Late advices state that the Dominion government has decided to impose a royalty on all placer diggings in the Yukon, in addition to \$15 registration fee and \$100 annual assessment. The royalty will be 10% each on claims with an output of \$500 or less monthly, and 20% on every claim yielding above that amount yearly. Besides this royalty, it has been decided, in regard to all future claims staked out on other streams or rivers, that every alternate claim shall be the property of the govern-ment, and shall be reserved for public purposes, and sold or worked by the government for the benefit of the revenue of the Dominion.

#### PRACTICAL HINTS ON LIMESTONE ANALYSIS.

#### By K. J. Sundstrom

In this paper, published in the Journal of the Society of Chemical In-In this paper, putoisned in the *sournal* of the Society of Chemical In-dustry, Mr. Sundstrom says that in manufacturing bicarbonate of soda the writer had to use linestone, varying in composition with every cart load, and it was therefore an imperative necessity to analyze it quickly and correctly. After many trials he is satisfied that the following meth-ods gives a correct result. (A.) Weich out two portions of 1 g each of the final providered

ods gives a correct result. (A.) Weigh out two portions of 1 g. each of the finely powdered sample, transfer to small-sized basins, add to each about 100 cu. cm. dis-tilled water. To one run in 25 cu. cm. normal HCl, cover with a watch glass, and allow to stand until all action ceases. Heat to boiling, cool and neutralize with normal NaHO, using a drop of methylorange as indi-cator. Cu. cm. HCl — cu. cm. NaHO = HCl required to saturate the carborate of line and memory.

carbonates of lime and magnesia. (B.) To the other portion of 1 g. add cautiously 5 cu. cm. concen-trated HCl, keeping the basin covered with a watch glass to prevent loss trated HCl, keeping the basic covered with a watch glass to prevent loss by spurting. After all effervescence has ceased, evaporate to complete dryness over a low flame. When dry, cool and take up with a little hot water and a few drops of concentrated HCl. Heat to boiling and filter through an ashless filter, being careful to wash all insoluble materials into the filter. Wash with boiling water until free from all trace of chloride

chlorides. (C.) Dry the filter and contents and ignite in a platinum crucible to bright redness, cool under desiccator, and weigh for  $SiO_{g}$ . (D.) Neutralize the filtrate and washings from (B) with NH<sub>4</sub>HO in slight excess. Heat to boiling, filter and wash the precipitate, if any until free from chlorides. Dry at 110° C. and ignite; cool and weigh for

until free from chlorides. Dry at 110° C. and ignite ; cool and weigh for  $Al_sO_s$  and  $Fe_sO_s$ . (E.) Heat the filtrate and washings from (D) to boiling and add a concentrated solution of ammonium-oxalate, "also heated to boiling." Allow to stand until settled clear, which is done, if rightly treated, in two or three minutes; decant the clear solution into a filter and dissolve the precipitate in HCl and reprecipitate with  $NH_4HO$ . Allow to settle, decant as before, and then wash the whole precipitate into the filter and wash with hot water until free from chlorides and oxalates. Dry at 110° C, and ignite in a platinum crucible, at first cautiously, and then over a blast-lamp, until completely converted to CaO. Cool under a desiccator, weigh, and calculate per cent. CaCO<sub>s</sub> from weight of CaO. To check results tirate the CaO with the normal HCl. Divide percentage of CaCO<sub>s</sub> by 5 (= cu. cm. normal HCl required for (A) and multiply remarder with 4.2 for per cent. of MgCO<sub>s</sub>.

Estimation of Sodium Bicarbonate,—Professor Lunge in Zeitschrift f. Angewundte Chemie, 1897, 169-171, de-cribes a rapid and sufficiently ac-curate method, which is used at the soda works at Trenton, Mich. It is based on the following reaction:  $NaHCo_3 + NaOH = Na_2CO_3 + H_2O$ . When all of the bicarbonate has been converted into the normal carbonwhen all of the bicarbonate has been converted into the normal carbon-ate the addition of a single drop of caustic sola solution causes the mix-ture to give a brown coloration with silver nitrate solution on a test-plate. The total alkali is determined by titration with N. acid, and the two determinations give all the data necessary for the calculation. The caustic sola solution is made up from commercially pure NaO ft to  $20^{\circ}$  B, precipitating with BaCl<sub>2</sub>, saturating with barium hydrate and diluting to N strength.

#### NEW CYANIDING PLANTS AT MERCUR, UTAH.

#### Written for the Engineering and Mining Journal by Our Special Correspondent.

Two important new cyaniding plants are soon to be put up in the Mercur District in Utah The first is to be at the Golden Gate mine, owned by Capt. J. R. De Lamar. This will be the largest cyaniding plant in this country, if not in the world, the next largest, in point of capacity, being the De Lamar mill at De Lamar, Nev., where, ordinarily, 400 tons are treated daily, with a high average metallic extraction. The Golden Gate mill is to be an all-steel and iron structure, save the rock foundation, with no woodwork any-where. The Gillette-Herzog Manufacturing Company, of Minneapolis, has the contract for the building, which is to be finished on November 15th, 1897. With the exception of the tankage the capacity will be 800 tons in 24 hours, though at the outstart it is proposed to treat but 500 tons. The mill is to be high on the hillside above the main working shaft to allow for ample dump, etc. All ores, whether free cyaniding or rebellious arsenides, will be calcined before going to the leaching vats, while the refractory arsenical mineral will be roasted, flues and chambers being provided to condense the poisonous vapors and fumes without reaching the open air. It might here be noted that no patented process is to be employed, but a system of treatment designed by Daniel C. Jackling, the metallurgical engineer who has experimented on these ores for months

employed, but a system of treatment designed by Daniel C. Jackling, the metallurgical engineer who has experimented on these ores for months at the Golden Gate test mill. L. C. Trent, of Salt Lake, under direction of Manager Hartwig A. Cohen, is getting up the detail plans for the mill. It is to be a thoroughly modern plant, with every labor-saving device. No expense is spared to arrive at the lowest possible cost in conducting all milling operatious. Power both. for mill and mine will be furnished by the Telluride Power Transmission Company, of Colorado, from Provo Canyon, where there is one of the best streams in Utah. From the generating station to the Golden Gate the distance is 35 miles, and power must be supplied by

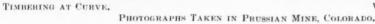
60°. It is not demonstrated that all of this material carries paying values, though the ore seam proper is proven for a thickness of 15 to 35 ft. The Boston inclune is down over 350 ft. and 500 ft. to the south the discovery incline is 265 ft. The company owns 1.000 ft. on the strike and 4,50 ft. horizontally in direction of the dip. This ore zone is opened in Omaha and Daisy ground to the south and in Edna May and Gray Rooster on the north, indicating ample supply for a large cyaniding plant. In fact, the West Dip lode is traceable for 12 miles and while paying products may not occur at all points sufficient is proven to warrant the forecast that several valuable properties can be profitably worked. In order to obtain a water supply for the mill and other needs two farms were purchased by the company, to secure early priority rights from Ophir Cre. k. A gravity pipe line is being installed 5½ miles long, 660 ft. fall, pipe 4 in. in diameter. Below the mine La Cigale town is showing vigorous growth, with 20 odd buildings finished and others go-ing up.

snowing vigorous growth, and ing up. The Boston & Mercur Gold Mining Company is a Utah corporation, with 200,000 shares, of a par value of \$10. Robert B. Blodgett is presi-dent, C. H. Scheu vice-president and manager, John Murray Marshall secretary-treasurer; these, with T. Ellis Brown and M. J. Cheesman,

Pillars in German Coal Mines,—In the Rhenish-Westphalian coalfield it is laid down by law that in every scam a pillar of coal at least 21 m. in thickness must be left between the various collieries. The quan-tity of coal thus left unworked in Westphalia has been estimated to be 26 000 000 tope. 28,600,000 tons

A New Nickel-Iron Alloy.—Dr. Charles Guillaume, of Neufchatel, has reported the discovery of a new nickel-iron alloy. The expansion and contraction of this material under the influence of temperature are smaller than with all other alloys produced so far. Dr. Guillaume pre-pared at the works of the Commentry-Fourchambault Company, at Im-phy, an alloy of 36 parts of nickel and 64 parts of iron, the ductility of





WORKING ON THE VEIN

December 1st, or 137 days from the signing of the contract. On July 15th nothing had been done in the way of construction though on Decem-ber 1st a minimum of 300 H. P. or maximum of 800 H. P. is call d for in the contract at §60 per H. P. per annum. Not only will all the ordinary power be electrical, but it is proposed to to conduct mining by electrical power drills. Captain De Lamar some time ago took the needed pre-

power be electrical, but it is proposed to to conduct mining by electrical power drills. Captain De Lamar some time ago took the needed pre-caution to solve the water supply question, by purchasing the controlling interest in the Gold Belt Water Company. Rhodes & Thompson have the contract for the excavation and masonry, to be finished in 45 days from July 17th. Excavation will con-sist of 16,000 cu. yds. of solid rock; retaining walls over 8,000 perch of rock and a half million brick in flues, roasters, etc. T. B. Rhodes has the contract to build three-quarters of a mile of railroad grade to connect the mill with the Salt Lake & Mercur Railroad, a considerable portion being heavy rock work, to be completed under forfeit in 15 days from July 16th. All told the expenditure for the new plant complete will be \$300,000. A new departure in Utah mining is to be introduced in the Golden Gate, doing away with costly timbering, by adopting the caving system of working the large continuous ore bodies. Mr. Duncan McVichie, for-merly of Iron Belt, Wis., is to have charge of affairs underground. On a low foot-hill of the west slope of the Gold zone here dips to the west, which has given the name West Dip to a considerable stretch of country. This is the portion of Camp Floyd district most ricen'ly found to be gold-bearing and the cyaniding mill, to demonstrate that the ore can b- profitably treated, is rap dly nearing completion. Before the end of August it will be handling 150 tons per diem and within six months the tonnage will be increased to 500. There are a number of novel leat-ures in the work. In working the ground the cave method of mining is also to be used here. The ore is solicious, absolutely free from arsenic or quicksilver and

also to be used here. The ore is silicious, absolutely free from arsenic or quicksilver and averages \$6 gold per ton. It is worth recalling that the Mercur and other mills are handling \$2.40 ore with a profit over mining and milling. The true foot-wall of this huge zone is a chert lime, the hanging a tale shale; the mineralized mass between measures 140 to 170 ft. thick, dip 45° to

which was but one tenth of that of platinum. For measuring apparatus and machines exposed to abrupt changes of temperature this invention is of high importance.

The Elba Iron Mines.—The right of working the Elba iron-ore mines has been accorded to Mr. Tonietti, son of the previous concessionaire, on the basis of a royalty of 7.25f. per ton of ore exported. The royalty is a heavy one in comparison with the 4.50f. obtaining in the previous con-tract. According to the new contract the annual output must not be less than 100,000 tons, nor more than 200,000 tons. The concessionaire must employ a certain number of workmen, and must keep the Follonica charcoal furnace in blast. After the exportation of 2,000,000 tons of ore, the royalty will be reduced one-third.

A Rapid Method for the Determination of Silicon in Silico-Spiegel and Ferro-Silicon.—C. B. Murray and G. P. Maury, in the Journal of the American Chemical Society, 1897, 19, 138–139, describe the following method: 0.5 gr. of the sample is placed in a porcelain or plati-num dish; 50 c. c. of water, 10 c. c. of hydrochloric acid (sp. gr. 1:20), and 12 c. c. of sulphuric acid (one part of sulphuric acid [1:84 sp. gr.] to three parts of water) are poured on it, and the contents of the dish theated until copious fumes of sulphuric acid are given off. When cool, 10 c. c. of hydrochloric acid are added, and the whole is heated to soften the sulphate of iron: finally it is treated with 75 c. c. of water, and raised to boiling. The heating is discontinued, and note taken as to whether there is any effervescence when boiling ceases. Should this occur, the liquid must be evaporated until copious fumes of sulphuric acid are again given off, and then it is treated in the manner above described. The solution is illered, washed with hydrochloric acid and hot water, ignited in a platinum crucible, and weighed. A few drops of sulphuric acid and enough hydrofluoric acid are added to dissolve the silica. The liquid is then evaporated to dryness, heated to decom-ness the authors acid and enough hydrofluoric acid are added to decom-A Rapid Method for the Determination of Silicon in Silico-Spiegel and the silica. The hquid is then evaporated to dryness, heated to decom-pose the sulphates, cooled and weighed. The difference in the two weights represents silica. The whole operation can be accomplished in 30 minutes

#### UNITED STATES' PIG IRON PRODUCTION IN 1897.

The American Iron and Steel Association has received from the manu-facturers complete statistics of the production of all kinds of pig iron in the United States in the first half of 1897; also complete statistics of the stocks of pig iron which were on hand and for sale at the close of the half-year. With a single exception direct returns have been received from every blast furnace company in this country whose furnace is now active or is likely to be some day active. For the single furnace company from which no report was received directly a careful estimate of its produc-tion during the first six months of this year and of the unsold iron on hand on June 30th has been furnished the Association by one of its lead-ing selling agents. The total production of pig iron in the United States in the first half The American Iron and Steel Association has received from the manu

ing selling agents. The total production of pig iron in the United States in the first half of 1897 was 4.403,476 gross tons, against 4,976,236 tons in the first half of 1896 and 3,646 891 tons in the second half of 1896. As compared with the first half of 1896 there was a decrease in the first half of 1897 of 572,-760 tons, but as compared with the second half of 1896 there was an increase of 756,585 tons. The production, arranged according to fuel wead, was as follows: used, was as follows:

Fuel used. Anthracite Charcoal Bituminous	136,697	Second half 1896. 462,401 173,547 3,010,943	First half 1897. 473,837 124,757 3,804,882
(Deta)	4 076 936	3 646 891	4 403 476

of pig from in the first half of 1857 over the fast half of 1856, 6-4,055 tons, or almost six-sevenths, was of Bessemer quality. The production of spiegeleisen and ferro-manganese in the first half of 1897 was 80,622 gross tons, against 83,010 tons in the first half of 1896 and 48,930 tons in the second half. The production of basic pig iron in the first and second half of 1896 and the first half of 1897 by States was as follows: First Second First

	half	balf	r irsc baif	
- States-Gross tons.	1896.	1896.	1897.	
New England, New York and New Jersey	6,171	16,521	27,916	
Pennsylvania-Allegheny County	88,573	79,522	139,970	
• Other counties		12,893	58,473	
Maryland, Virginia and Alabama		26,058	42,741	
Ohio, Illinois and Wisconsin	10,522	9,722	12,510	

..... 191,687 144,716 281,610 Total..... The total production by States for the periods covered was as follows :

States.	First half 1896.	Second half 1896.	First half 1897.	
Massachusetts		980	1.702	
Connecticut		6.531	3 172	
New York	. 99,870	106 205	108,929	
New Jersey		24.728	37,863	
Pennsylvania		1.777.413	2,149,252	
Maryland	. 51.807	27,665	80,333	
Virginia		154,592	153,472	
North Carolina	2,151			
Georgia		8,000	8.141	
Alabama		457,965	436,505	
Texas		90	2,604	
West Virginia		40,148	53,735	
Kentucky	44,450	26,210	17.185	
Tennessee		113,984	140,431	
Ohio		452.882	593,962	
Illinois	638,186	287 053	519,671	
Michigan	. 65,193	84.318	61,531	
Wisconsin	102,586	55,898	29,773	
Missouri		7,790	5,215	
Colorado		14.439		
Total	4,976.236	3,646,891	4,403,476	

The following States increased their production of pig iron in the first half of 1897 as compared with the second half of 1896 Massachusetts, New York, New Jersey, Pennsylvania, Maryland, Georgia, Texas, West Virginia, Tennessee, Ohio and Illinois. The following States show a decrease : Connecticut, Virginia, Alabama, Kentucky, Michigan, Wis-consin, Missouri and Colorado. The two charcoal furnaces on the Pacific Coast, one in Oregon and one in the State of Washington, have not made nig iron for several years 'North Carolina has produced no pig iron since pig iron for several years ; North Carolina has produced no pig iron since the first half of 1896; and for the first time for many years Colorado does not appear as a pig-iron producer in the midsummer statistics, the three

Colorado furnaces having all been idle since September, 1896. The whole number of furnaces on blast on June 30th, 1897, was 146, against 159 on December 31st, 1896. The number out of blast on June

against 159 on December 31st, 1896. The number out of blast on June 30th, 1897, was 319. Two new furnaces were being built on June 30th, 1897, one in Pennsylvania and one in Ohio. The statistics of unsold stocks of pig iron on June 30th, 1897, show a considerable increase over the unsold stocks on December 31st, 1896. On June 30th the stocks which were unsold in the hands of manufac-turers or their agents, and which were not intended for their own con-sumption, amounted to 827,163 gross tons, against 711,649 tons on Decem-ber 31st, an increase of 115,514 tons. These figures do not include pig iron sold and not removed from the furnace bank, nor pig iron manufac-tured by rolling-mill proprietors for their own use.

iron sold and not removed from the furnace back, nor pig iron manufac-tured by rolling-mill proprietors for their own use. Included in the stocks of unsold pig iron on hand on June 30th were 75,085 tons in the yards of the American Pig Iron Storage Warrant Com-pany which were yet under the control of the makers, the part in these yards not under their control amounting to 146,515 tons, which, added to the 827,163 tons ab we mentioued, makes a total of 973,678 gross tons of pig iron which were on the market at that date, against a similar total of 847,686 tons on December 31st, 1896. The total stocks in the above-named warrant yards on June 30th, 1897, amounted to 221,600 tons, of which almost four-fifths were held in the South.

Lapis Lazuli in Ohile.—This mineral exists in Chile at Yulabuen estate, on the western side of the Andes, belonging to Don Félix Marin Car-mona. The deposit occurs near the line of perpetual snow in great masses, which are exploitable only in the summer season.

#### ABSTRACTS OF OFFICIAL REPORTS.

#### Calumet & Hecla Mining Company, Michigan.

The very brief report of this company covers the year ending April 30th, 1897. It gives no statements as to cost of producing copper or other details of operations. The statement of production says that during the fiscal year the mines produced mineral equivalent to 86,809,266 lbs. of refined copper; the product in refined copper was 92,475,595 lbs. against 85,552,776 lbs. for the fiscal year 1895-96. The price of copper has varied from 10½c. to 12c. per pound, and is now 11½c. The statement of assets and liabilities is as follows:

e statement of assets and naphities is as follows.	
Cash at Mine office. Cash at New York office. Cash at Boston office, exchange, copper at 8½c, per lb., and	15,000
mineral at 40 per lb Bills receivable at Boston and Mine	6,599,428
Total assets       \$84,354         Drafts in trappit       4,532         Employees' aid fund       4,532         Hills payable at Boston and Mine       232,305         Machinery contracts       562 00'         Aid fund, hospital, insurance fund       249,000	
Balance of assets	

The holisting engine Superior has been thoroughly overhauled, as "The holisting engine Superior has been thoroughly overhauled, as well as the machinery connected with it. The rope wheel to connect the Superior with the compressor plant has been erected, and the greater part of that machinery, as well as the engine to run it, is now in place. The engines designed for No. 5 Calumet shaft are now in place; they will operate holisting wheels of the Whiting system. At the Red Jacket shaft we have erected a large iron shaft house, with a capacity nearly equal to that of four of our ordinary shaft-houses. This we are now equipping with breakers and other machinery. The few additions necessary to complete the holisting plant at this shaft are now under way, and we are at work on fitting the shaft itself. We hope to have all our new machinery at the Superior, at No. 5 Calumet shaft and at the Red Jacket shaft in operation before the close of navigation. We now have small hoisting engines at each of our shafts, to enable us to handle to advantage our timber and other material intended for underground. to advantage our timber and other material intended for underground. We have also added a number of underground hauling engines for tramming.

ming. "At the mills the boilers which were formerly used at the water-works boiler-house have been transferred to the mill boiler-house, so that our boilers are now under one roof. The greater part of our mill buildings at Torch Lake have been covered with iron, and we hope to have them all properly protected before the coming fall. There have been no changes of importance either at the Lake Linden or at the Buffalo Smelting Works Work

A fire broke out on Sunday January 17th, 1897, between South Hecla "A fire broke out on Sunday January 17th, 1897, between South Heela shafts 8 and 9, on the 24th level. This spot was most fortunately isolated from the rest of the mine, so that the mine officials were able to prevent the fire from spreading to the nearest shaft by damming the extremity of the level and flooding it. The erd of the level was then walled off, and after five days our regular mining operations were resumed. "The expenditures on account of the aid fund for the fiscal year amounted to \$49,509. Since January the company has paid the men's contributions to the fund. The value of the aid fund at cost is \$123,241."

Estimation of Zinc.—E. G. Ballard, in the *Journal* of the Society of Chemical Industry, May 31, 1897, recommends the use of a bright solver plate for determining the end point in the titration of zinc with sodium sulphide solution. If the titration is done with a cold solution, a large excess of ammonia is to be avoided.

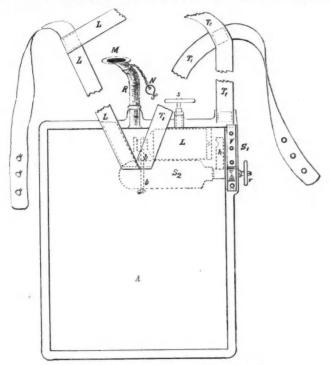
Estimation of Nickel in Nickel Steels.—J. Spüller, in the Chemiker Zeitung, 1897, 21, 243–244, states that the following method gives satis-factory results: 2 g. of the sample to be examined, and 2 g. of a normal nickel steel containing a known amount of nickel, are weighed out into two 250-c. c. flasks, and about 60 c. c. of nitric acid (sp. gr. 1·2) added to each. The contents of the flasks are boiled until solution is complete, and nitrous fumes are no longer given off. When cold, the iron is precipitated with zine oxide, and the green colors of the resulting filtrates are compared, a white homogeneous paper being used for a back-ground. Since nickel steels generally contain from 1% to 7% of nickel, a fairly reliable result can be quickly arrived at, if the standard has about the same percentage of nickel as the sample. The author employs three standard nickel steels containing 1, 3 and 5% of nickel. More accurate results may be obtained by comparing the colors in a calibrated vessel and adding a krown volume of water to the test until the color is iden-tical with the standard. Steels containing under 1% of nickel cannot be submitted to this method, on account of the faint color of the solution.

#### AN APPARATUS FOR BREATHING IN MINES.

#### Written for the Engineering and Mining Journal by Richard Cremer.

After an explosion of fire-damp or coal-dust, and during underground fires, the air in a mine is usually more or less impregnated with car-bonic acid and carbonic oxide. If it were possible to remove quickly the workmen out of the poisonous after-damp into the fresh air, or to restore the air-gates, which are as a rule destroyed, there would be a possibility of saving many lives otherwise sacrificed in the after-damp. Statistics prove that most of those killed in explosions in mines are suffocated. Consequently it is of the utmost importance for a rescue party to descend at once after an explosion, and during or after an underground fire. The apparatus hitherto in use are suitable only for persons stationary in places full of gas, and presuppose a supply of condensed air. The dynamite-explosion which took place in the Hoheneggerschacht, Austria, the property of the Archduke Frederick of Austria, on March 16th, 1895, was the incentive that led to the invention of a serviceable breathing apparatus. Under the immediate impression of that catastrophe the idea on which the apparatus is based was conceived. During the follow-After an explosion of fire-damp or coal-dust, and during underground apparatus. Other the indicate indicates indicates indicates in the classroom of the idea on which the apparatus is based was conceived. During the follow-ing year continued experiments were made, which led to the present form of the "Pneumatophor." It was originally intended only for miners, but has proved useful also in factories, and at fires on board ship and on laud.

The pneumatophor (invented and patented by Rudolph Chevalier de Walcher-Uysdal, Gustavus Gaertner M.D., and Gustavus Benda) is intended to make the user independent of condensed air, and to enable rescuers who to make the user independent of condensed all, and to enable rescuers who are provided with it to enter immediately without danger those parts of the mine which are full of after-damp. The lightness and completeness of this apparatus are of particular importance. It enables a miner work-ing in a fiery mine to save himself, and then to proceed to the res-cue of his comrades, if he take the apparatus with him every day, or if a number are deposited at suitable spots in the mine. As the pneu-



"PNEUMATOPHOR" BREATHING APPARATUS

"PNECMATOPHOR" BREATHING APPARATUS. matophor does not require a second person to set it going, it is of great value to those in the mine also when the descent of the rescue party is de-layed by damage to the winding apparatus. This apparatus consists of the breathing-bag A, the oxygen cylinder S, the caustic soda apparatus L, the nose-clip N, and the satchel. The breathing-big is 450 mm, long, and made of gas-proof stuff. In it hangs a network of strips of dimity loosely knitted, intended to absorb the solution of caustic sola. In the middle of the top of the bag is the breathing-pipe R, a single pipe without a valve, with an ebonite mouth-piece M. By the side of it is the opening for the screw s, of the caustic soda apparatus. On the right side of the bag is the slit S, by means of which the caustic soda apparatus and the oxygen cylinder are inserted in the bag. This slit also enables one to turn the bag inside out after it has been used. The two metal plates V close the slit gas-tight, while at the same time they serve to hold fast the neck of the oxygen cylinder, the wheel r remaining outside. Attached to the middle of the bag is carried. They are passed over the shoulders, under the arms, and fastened at the end with hooks and eyes. The vessel S for holding the oxygen is a seamless steel cylinder tested for 250 atmospheres, with a content of 0.6 L. At a pressure of 100 atmospheres it holds 60 L of oxygen. In the neck of the bottle is a valve, on the mouth of which is the outlet-pipe h. The bottle bag. It is important to keep the valve well closed. To increase the absorbing surface the oxygen hottle and the caustic soda apparatus are covered with bags of a soft material. The bottle is so inserted in the bag through the slit S that its end rests in the sling sup-

porting the caustic soda apparatus; the pipe h is turned upward, its opening toward the bottom of the caustic soda apparatus, its neck be-tween the clips V. The caustic soda apparatus is a cylinder of perforated sheet-metal con-taining a class beta paratus in the problem of perforated sheet-metal con-taining a class beta paratus in the problem of perforated sheet-metal con-taining a class beta paratus in the performance of the performanc

The caustic sola apparatus is a cylinder of perforated sheet-metal con-taining a glass bottle with an india-rubber stopper, and contains 426 c. c. of 25% solution of caustic sola. It is 200 mm. long, and has a diam-eter of 80 mm. at the bottom. Between the bottle and its cover is an iron ring in which, perpendicular to the long axis of the vessel, is at-tached the thread in which the screw works. The caustic soda apparatus is placed in the bag in such a manner that this thread passes through an aperture at the top of it. Wire is wound round outside the india-rubber which surrounds this to render the neck of the bag gas-tight. The wheel which turns the screw s is, accordingly, outside the bag, and is fastened by means of a thread with a lead seal which shows if it has been turned or not. Turning this screw breaks the glass bottle inside the metal-cylinder. The screw, however, does not press directly on the bottle, but on an intermediate metal-plate, which causes complete breakage. An india rubber ring ard piece of card prevent the glass bottle from coming in con-tact with the metal cylinder. In order to increase the absorbing surface and to catch the broken glass the entire caustic soda apparatus is covered with muslin which has the size washed out. Under the caustic soda appar-ratus is the oxygen cylinder, the end of which rests in a sling attached to with muslin which has the size washed out. Under the caustic soda apparatus is the oxygen cylinder, the end of which rests in a sling attached to the neck of the caustic soda apparatus. The nose-clip N is a simple nose-clip, the cheeks of which are covered with soft leather; it is fastened to the breathing tube by a string or chain. Each apparatus is furnished with two nose-clips. When the apparatus is put into the satchel, its top with the mouth-piece and screw is uppermost. When packed, the whole apparatus is about 380 mm. long. 290 mm. broad and 100 mm. thick. A common sack will do for apparatus kept at fire stations, or at the pit's mouth, or underground.

sack will do for apparatus kept at fire stations, or at the pit's mouth, or underground. Before being put into the satchel the sides of the apparatus are folded over, and then it is wrapped up in a square piece of linen to keep off dust and dirt. Then a strip of paper is put round it and fastened with a lead seal, so that the apparatus cannot be taken out without tear-ing the paper. The following four actions suffice to set the apparatus going: 1. Taking it out of the satchel and removing the covering. 2. Strapping the apparatus on and taking the mouthpiece between the lips or teeth. 3. Breaking the glass bottle of the caustic soda apparatus.

Strapping the apparatus on and taking the mouthpiece between the lips or teeth. 3. Breaking the glass bottle of the caustic soda apparatus. 4. Opening the oxygen cylinder and putting on the nose-clip. As already mentioned, the oxygen is inhaled through the breathing pipe. The breathing should be as even as possible. Only a small part of the oxygen inhaled at one breath is absorbed by the lungs; conse-quently the air breathed consists of about 4% carbonic acid and about 96%oxygen. The carbonic acid is absorbed by the caustic soda which wets the sides of the bag, whereas the oxygen is breathed again. It is that which makes so small a quantity of oxygen last so long. If the user be quiet, or make but slight movements, the apparatus can be relied on to enable him to breathe for nearly an hour and a half. If he move or work, the oxygen will last at least half an hour. After breathing for some time the bag should be raised to mix the air in it. The weight of the apparatus is only 4.50 kc,, which make it possible to take it into the pit every day, unless it be thought better to deposit it at life-saving stations in the mine. Naturally the apparatus is of the great-est value for the rescuers, as it enables them to go into places full of after-damp, and to carry out work necessary to restore the ventilating

after-damp, and to carry out work necessary to restore the ventilating

after-damp, and to carry out work necessary to restore the ventilating apparatus.\* When estimating the value of the pneumatophor the question of the possibility and advisability of breathing pure oxygen has to be con-sidered. On this point Dr. Gustav Gaertner, professor of experimental pathology at the University of Vienna, writes as follows: "The breath-ing of undiluted oxygen, as experiments have proved, cannot hurt the human organism at all; on the contrary, its effect is refreshing and re-viving. I have watched over several hundred oxygen-inhalations, car-ried out to cure the lungs, heart and liver, and have myself repeatedly breathed pure oxygen, four times with the apparatus here described (once uninterruptedly for 55 minutes), without once observing any symptom which could be regarded as a sign of injury to the organism. In the case in question, in which we have to do with men who probably have for some time breathed an atmosphere containing carbonic oxide, the administration of pure oxygen is the most suitable means of freeing the blood from the poisonous gas as rapidly as possible, and restoring it to its natural condition."

<sup>10</sup> If may mention that by an order dated April 6th, 1897, of the Austrian Mining Government, the use of the pneumatophor has been made com-pulsory in the Ostrau-Karwin District and five apparatus must be supplied for every 100 workmen of a colliery.

Arsenic in Australia.—White arsenic, containing 98% arsenious oxide, and gray arsenic, containing 92% arsenious oxide, are now produced at the Spottiswoode Smelting Works, near Melbourne, Australia, and some of it has been exported recently to London.

Smelting Gyanide Bullion.—Arthur Caldecott, in the Journal of the So-ciety of Chemical Industry. suggests the following method of handling the slags resulting from the smelting of cyanide slimes, which, it is well known, are apt to be rich in gold. To lessen the gold con-tents of the slag, a mold to receive the contents of the crucible may be used which has a small hole bored in the side a couple of inches from the bottom. While pouring, this hole is plugged up with clay, and a few minutes afterward, when the surface of the slag has solidified, an iron rod is thrust through, whereupon the still molten slag inside runs out. During the interval after pouring, any shots of metal contained in the slag settle to the bottom, or are caught on the partially chilled layer next the sides of the mold. Hence the outflowing slag is, as experimentshows, nearly gold-free. That portion of the slag which remains as a shell in the mold can be returned to the crucible when the next charge is melted.

\* Electric safety lamps greatly assist the work of the rescuers who are provided with the pneumatophor. If there be smoke, spectacles must be worn to protect the eyes.

#### THE WITWATERSBAND GOLD-FIELD AND ITS WORKING-VI." THE TREATMENT OF TAILINGS.

WRITTEN FOR THE ENGINEERING AND MINING JOURNAL BY W. Y. CAMPBELL.

 WRITTEN FOR THE ENGINEERING AND MINING JOURNAL BY W. Y. CAMPBELL.

 The gold in the conglomerates is won by the successive methods of:

 1. Amalgamation on plates and smelting;

 2. Concentration by vanners or strakes, chlorination and smelting;

 3. Cyanide leaching, precipitation, smelting;

 4. Slimes leaching, precipitation, smelting;

 4. Slimes leaching, precipitation and smelting;

 5. Cyanide leaching, precipitation and smelting;

 4. Slimes leaching, precipitation, smelting;

 and nature and future years; No. 3 is of little moment and will probably become less, the ores here not favoring concentration in view of their grade and nature and of the success of the cyanide treatment of sands. The year 1896 saw 2,807,963 tons of sands cyanide, yielding 663,467 oz. bullion, value \$\frac{80,882,485; the average yield per ton being \$\frac{93,52; the average year 1893 saw the process in course of adaptation all along the line, and step by step improvements have been made in arriving at economic solutions, cheap handling and incre

A HIC LOUISING	NO ACCOLG	EN BREE SH	ALL SA ADD S	M12 66-2 8 - 2-1	
Year.	Tons treated.	Ounces.	Value.	Yield per ton.	Profit per ton.
		160,168	\$2.411.556	\$1.80	\$2.28
1892					1.64
1893		304,498	3,582,736	3.44	
1894	2.691,700	587.3:9	8,507,866	3.14	1.62
1895	2.757.167	638,733	9,352,526	3.38	2.06
1896		663,467	9,882,485	3.52	2.4:

The tonnage treated in the first five years of the

The tonnage treated in the first five years of the cyanide industry varied from 54% to 106% of the ton-nage milled; the erratic ratio is, of course, due to the treatment of sands milled prior to 1893, concurrently with the mill output from 1893 to 1896. The general gold output figures for the years 1893 to 1896 are affected in the same way. The normal ratio of the gold produced respectively from plates and vats. re-duced to fine gold, is in every 100 oz. gross yield 77.57% from plates and 22.43% from vats. The monographs and articles on cyanide leaching of Rand tailings are so many that other than passing reference to the process itself is unnecessary, and a glance will only be given therefore at costs and results at date. Costs of treatment vary on the mines from \$0.84 to \$1.56 per ton, calculated on the tons of sand treated. The basis as often calculated from and on the tons of ore milled is misleading. New plants on a large scale treating large quantities of non-acid tailings and con-structed on the latest and best experience as to econom-ical methods of handling, charging and discharging, can save from 25 to 50c. per ton treated on the costs of some of the older or smaller plants. Close analysis of the 1896 results from fairly typical cases will be the best illustration. These plants are several years old and work in sequence to 70 or 80 head mills and on 10-dwt, ores. The ton unit is calculated thus: Sands with only 10 to 12% moisture, 27 cu. ft. = 1 ton. The result of the treatment in one special case is as follows: "Yons treated 1896, 49.577; yield in bullion,

The result of the treatment in one special case is as follows: Yons treated 1896, 49.577; yield in bullion, 10,692 oz.; yield in fine gold, 7,144 oz ; fine gold per ton, 0.14 oz. The year's averages are given as follow

ing cost per ton about \$1.31. The stores used in treating included 466'8 tons coal; 21'9 tons coke; 14'44 tons cyanide; 4'53 tons zinc; 1'275 tons borax; 0'800 ton soda; 1'500 tons sundries. The cyanide used was all from Hamburg, trade standard, 99% pure cyanide—in reality 97% is a safe figure. Of the ore sent to mill and passed over the plates 68% is dealt with in the cyanide vats as sands and 28% is settled and kept in dams as slimes to be treated later. In some cases where water is plentiful and overflows allowed the percentages are less, but in this case under review and others like it where water is scarce, the figures given apply. Slimes are 40% poorer in gold contents than the sands from which they have been separated. A cup of lime is added to each truck of sands on its way to the vat. The vats vary in capacity, but taking a typical case we have, in short, the following: Into a 196-ton vat of limed sands, 57 tons of 0'3% solution is run into and through the sands and drined off in 36 hours; then rest 24 hours, then three successive percolations of 0'16 solution of 26 tons

\* No. I. of this series appeared in the Engineering and Mining Journal for June 19th, page 631; No. 11., June 26th, page 659; No. 11., July 10th, page 36; No. IV., July 17th, page 67; No. V., July 24th, page 96.

each with interval periods of 6 to 12 hours; then two final cleansings or washings of the sands with weak or 0.08% solution, totaling 61 tons. Total sands, 196 tons; total solutions, 196 tons; period of treatment, five to six davs

Better extraction and lower costs are secured by having the sands dry; wet sands take longer percolation and more cyanide. Zinc boxes, if properly run, should not pass gold in solution in excess of 6 gr. per ton-about 1 oz. per month unrecoverable. The loss in smelting is 0.02% of the year's bullion.

the year's bullion. The above represents the single treatment process. Some mills run the double treatment process, but extra catch of gold, 0.02c. per ton, does not appear to cover the increased costs of double handling. In some works the solution occasionally rises to 1 or 2 dwts. of gold per ton. Electrical methods of precipitation now being tried only catch 40%, and so far the process is not a success; the remedy appears to be in the proper handling of the solutions and zinc boxes themselves prima-

VALUE OF WITWATERSRAND ORE MILLED FROM 1890 TO 1896.

Year.	Tons	<b>To</b> us. (c)		Range of Value Per Ton Milled.		Range of Value Per Ton Cyanided.		Range of Total Value Per Ton Ore. (d)	
	Milled.	Sands Cyanided	Highest.	Lowest.	Highest.	Lowest.	Highest.	Lowest.	Won.
			s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	£ s. (
1890	711,877		a 46 8				a 46 8		1.661.046 6
1891	1,154,145		a 40 6				a 40 6		2.337,143 12
1892	1,979,354	*********	a 35 3				a 44 2		.4,371.589 11
1893	2,200,704	6620,348	37 1	32 11	616 6	b13 7	49 10	43 9	5,116,423 18
1894	2,826,330	2.674,673	35 3	31 9	14 3	12 11	51 3	47 5	6,974,181 5
1895	3,456,575	2,759,066	33 8	28 2	14 8	12 2	49 0	40 4	7.859,191 8
1896	4,011,695	2,807,963	28 7	25 10	15 8	13 11	41 0	38 0	7,842,446 18
Totals	16,340,676	8,862,050							36,192,022 17

(a) Average. (b) The first report of amount of sands cyanided is for the month of August, when 107,586 tons were so treated. (c) The ton of ore is supposed to be 2000 lbs., but in practice is probably not more than 1750 lbs.; the ton of sand varies from 24 to 30 cubic feet, (d) Includes value of gold won from concentrates.

YIELD PER TON OF ORE MILLED BY WITWATERSRAND MINING COMPANIES

Company.	1890,	1891,	1892,	1893,	1894.	1895,	1896,	Highest for Period,	Lowes for Period
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
urora	31 9	31 2	21 9	20 9	21 6	35 7	Nil.	35 7	20 9
lanket	13 1	15 0	13 6	25 1	37 6	41 11	Nil.	41 11	13 1
Sonanza	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	100 11	100 11	100 11
hamp d'Or	Nil.	84 1	46 9	28 8	63 6	53 6	33 8	84 1	28 8
hamp d'Or Deep	Nil.	Nil	Nil.	Nil.	24 6	28 2	Nil.	28 2	24 6
ity & Suburban	69 1	27 6	45 N	65 7	47 1	39 7			
rown Reef	62 3	40 6	51 11	45 4				69 1	27 6
Jurban-Roodepoort	45 8				43 0	40 11	44 11	62 8	40 6
erreira	67 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		52 9	53 0	46 2	41 7	53' 0	37 5
leldenhuis Deep			69 2	81 0	93 7	84 4	74 3	93 7	59 2
	Nil.	Nil.	Nil.	Nil.	Nil.	18 0	26 10	26 10	18 0
leldenhuis Estate	Nil.	73 6	44 2	41 7	35 2	32 6	27 0	73 6	27 0
leldenhuis Main Reef	61 4	34 10	24 9	27 7	34 4	40 11	35 4	61 4	24 9
leorge Goch	45 8	29 8	27 2	25 7	30 6	34 7	28 6	45 8	25 7
llencairn	24 4	20 4	36 4	29 6	48 10	39 7	26 10	48 10	20 4
linsberg	Nil.	Nil.	Nil.	Nil.	38 8	52 10	45 3	52 10	38 8
Ienry Nourse	42 0	50 2	52 11	61 6	79 11	62 B	57 3	79 11	42 0
ohannesburg Pioneer	70 6	57 6	59 11	40 8	39 4	55 10	73 9	73 9	39 4
umpers	29 9	26 0	31 6	31 3	40 10	42 4	33 4	42 4	26 0
ubilee	79 4	51 2	67 1	47 0	48 0	35 10	32 1	79 4	32 1
anglaagte Estate	56 11	50 7	34 0	31 11	37 6	38 5	30 1		30 1
anglaagte Block "B"	Nil.	16 3	19 0	28 6	31 11	26 2	23 0		
anglaagte Royal	69 11	34 10	30 7	29 8	40 0			31 11	
	21 6					23 0	21 1	69 11	21 1
anglaagte Star			17 2	16 9	Nil.	Nil.	20 8	21 6	16 9
anglaagte United	*******	13 5	27 8	22 3	22 8	27 11	Nil.	27 4	13 5
ancaster	25 1	Nil.	Nil.	Nil.	Nil.	35 %	Nil.	35 2	25 1
lay Consolidated	48 1	2H H	31 6	32 11	37 0	38 8	30 0	48 1	28 8
linerva Block Reef	Nil.	Nil.	· Nil.	16 6	19 10	32 7	21 6	32 7	16 6
leyer & Charlton	50 11	80 3	68 3	70 9	53 3	41 5	33 1	80 3	33 1
letropolitan	28 4	18 0	18 5	15 10	28 0	31 3	28 6	28 6	15 10
New Heriot	35 9	16 3	48 3	71 7	56 6	52 3	51 6	71 7	16 3
New Chimes	66 10	51 3	41 10	44 7	41 10	42 4	26 7	66 10	26 7
New Midas	Nil.	Nil.	14 0	Nil.	Nil.	122 4	39 0	122 4	14 0
New Primrose	42 2	35 3	39 4	40 6	39 10	34 7	28 7	42 2	28 7
New Rietfontein	118 8	Nil.	79 10	104 0	48 11	44 8	36 6	104 0	36 6
New Kleinfontein	19 6	15 6	Nil.	34 11	37 1	32 6	00 0	37 1	15 6
lew Modderfontein	84 2	Nil.	52 3	43 6	49 4	Nil.	23 9	84 2	23 1
ligel	143 0	141 9	193 5	142 0	157 8	93 9			
ew Comet	Nil.	Nil.	Nil					193 5	
	62 3			Nil.	46 9	34 7	29 2	46 9	
low Creesus		35 9	31 2	31 7	Nil.	26 6	25 4	62 3	25
ew Heidelberg Roodepoort	Nil.	Nil.	Nil.	30 0	Nil.	Nil.	16 6	30 0	16
Prion	Nil.	35 6	33 4	22 8	40 9	40 10	26 0	40 10	26 (
rincess	12 10	17 6	15 5	21 11	40 2	48 4	43 5	48 4	16 5
'aarl Central	Nil.	11 6	22 5	18 0	34 1	36 0	Nil.	36 0	11 (
andfontein Porges	Nil.	Nil.	28 4	38 10	-26 4	42 8	33 9	42 B	28 4
lobinson	113 0	108 11	96 2	104 0	96 10	80 6	76 2	113 0	56 5
toodepoort (Kimberley)	Nil.	12 0	13 0	16 2	24 3	61 53	27 6	61 53	12 (
toodepoort Deep	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	32 6	32 6	32 €
alisbury	83 7	85 10	88 9	67 8	54 2	39 6	28 0	88 9	28 (
immer & Jack	38 4	31 7	28 8	27 8	38 0	46 8	42 8	46 8	27 1
stanhope	60 0	43 4	50 6	43 8	52 7	39 9			32 (
reasury	Nil.	48 1	47 4	65 10				60 0	
						Nil.	26 7	65 10	26
Jnited Main Reef	30 7	20 0	25 2	27 10	50 7	48 2	37 10	50 7	20 (
an Ryn	40 2	Nil.	28 3	24 7	35 7	46 1	30 7	46 1	24 7
Village Main Reef	Nil.	Nil.	56 10	49 5	53 10	111 8	Nil.	111 8	49
Wemmer	55 4	74 2		66 3	54 3	64 2	51 3	74 2	51 3
Witwatersrand	18 5	15 9	*******	*******		*******	31 2	31 2	15 9
Volhuter	20 5	Nil.	31 6	34 10	51 5	39 10	33 7	51 5	20 1
Vorcester	60 2	54 9	46 0	51 2	82 11	57 0	37 9	60 2	46 (

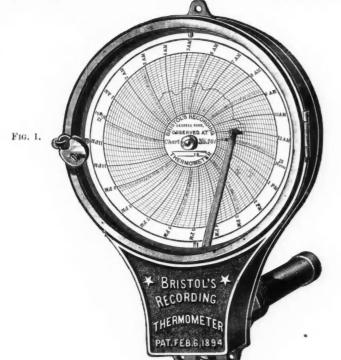
A positive, if small, loss is that of cyanide from oxidation, and nothrily. A positive, if small, loss is that of cyanide from oxidation, and noth-ing has been discovered yet to prevent that; probably if it was prevented the loss in other ways might be greater. Cyanide has fallen from 72c. to 96c. per pound, when operations began, to 48c. in 1896, 42c. in 1895, 34c. in 1896, and 21c. now per pound. The bulk appears to come from Germany, where it is produced as a by-product at chemical works. These are local prices.

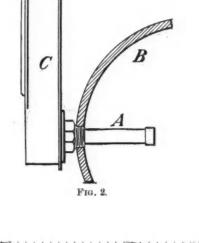
The comparative product of a typical mill chosen above in mill and cyanide gold (reduced to fine gold) for the year was:

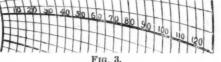
77.57% 22.43% Total ...... 39,060 oz. 100.00%

The average profit from tailings per ton was \$2.44 for 1896, but it must be borne in mind that this is the profit based on taking the gold-bearing sands as they leave the mill, having previously been mined and crushed; no charge for mining and crushing is shown against the cyanided sands debit account.

no charge for mining and crushing is shown against the cyanided sands debit account. The average profit during 1896 from all sources over 4,011,695 tons mined, milled, cyanided and in part vanned and chlorinated was only \$1.82 per ton, and the natural question arises was no profit made in the mill? The answer to the superficial question appears to be that total costs and total figures alone show the eventual and final loss or profit. *Rand Bullion.*—The bullion won by plate amalgamation is retorted and then smelted. It is practically free from all metals other than silver, which runs from 100 to 130 in 1,000 parts of bullion, the balance. 870 to 900, being fine gold. The bullion from the east section of the Rand shows slightly more silver than in the west section, with slight variations in all mines. In certain mines the bullion from the lower level is about 0,50 finer than that of the upper levels. Smelted gold from mill plates averages in fineness '870 to '880. Smelted chlorination gold averages '990. Bullion from the cyanide process has a very wide variation, owing to crude methods of precipitating and refining, of from '480 to '810 fine. The average for the whole fields is '720. These bullion figures apply only to the gold won from the Rand aurif-erous conglomerates. The gold matrices in other parts of the Transvaal are various and their bullion likewise varies in fineness. In the Lydenburg District copper shows up; in Dekaap it varies from







THE BRISTOL RECORDING THERMOMETER.

almost fine to very refractory, and in Malmani District, the percentage of silver becomes excessive, as it does in many cases in Rhodesia. The Rand gold industry is singularly free from trouble in gold quality or varieties. variations

The accompanying tables show the average returns obtained from different Rand mines for a series of years. These tables appeared in Volume V. of *The Mineral Industry*.

#### A NEW ATMOSPHERIC RANGE RECORDING THERMOMETER.

The instrument herein described has been developed to meet a demand The instrument herein described has been developed to meet a demand for a recording thermometer for atmospheric ranges of temperature that can be applied to air, gases or liquids in a closed pipe or room. Fig. 1 shows the complete instrument, which consists of a Bristol recording pressure-gauge in which the helical tube is completely filled with an expansible liquid. This tube, which is sensitive to and is operated by changes of temperature, is inclosed in the cylinder projecting from the back of the case of the recorder as shown in Fig. 1. This cylinder pro-tecting the sensitive tube is furnished with a screw-thread so that it may tecting the sensitive tube is furnished with a screw-thread so that it may be conveniently located within a gas main, through the side of a tank, or through the partition of a room, as may be desired. Fig. 2 is an oulline of one of the thermometers as applied to a large gas main; A representing the protected sensitive tube, B a cross-section of gas main, and C the recording portion of the instrument. It will be observed that the work-ing part of the thermometer is entirely protected from any action of the gases or liquids of which the temperature is being recorded; hence the operation of the instrument is absolutely independent of the pressure or vacuum within the closed snace.

operation of the instrument is absolutely independent of the pressure or vacuum within the closed space. Fig. 3 shows a specimen section of the chart of these instruments for a range from 0° to 130° Fahr. Other ranges may be made by using weaker or stronger pressure gauge tubes. By varying the quantity of expansible liquid enclosed in the pressure tube the lower end of the scale may be limited and a very open scale provided at the normal degree of temperature. These instruments have been in successful operation for several months and are very useful for many purposes. They are being manufactured and placed on the market by the Bristol Company, of Waterbury, Connecticut.

-Worrall vs. Wilson (70 Northwestern Reporter, 619); Supreme Court of Iowa

MODE OF ASSESSING MINE FOR TAXATION.—The market value of a mine at a fair private sale, and not the income of such property, is the cri-terion for ascertaining its true value, for purpose of taxation, where the law requires that property shall be assessed at its "true value."—Hurd vs. Cook (36 Atlantic Reporter, 892); Supreme Court of New Jersey.

OPERATION OF COAL MINE DURING INSOLVENCY PROCEEDINGS.—The receiver of a coal company used part of the income in making perma-nent improvements during the two years succeeding his appointment, under the order appointing him ; and then on his application the court authorized him so expend \$1,000 per month in improvements during the next two years. It was held by the court that creditors were entitled to preference over the trustee out of the future current receipts, or the pro-ceeds of the mortgaged property when ultimately sold, the parties hav-ing proceeded, and the court having administered the trust, in the same manner as in the case of a railway receivership.—Manhattan Trust Com-pany vs. Scattle Coal and Iron Company (48 Pacific Reporter, 333); Supreme Court of Washington.

QUESTIONS OF NEGLIGENCE OF MINER FOR THE JURY.—Double car tracks in a mine extended from the track in the main slope into the side entries. As empty cars were coming down the main slope the switchman received a signal to allow them to pass his entry and run to the fourth entry. To comply, he set the switch so the cars would pass him and then went into the entry, to be out of danger, as was proper. He stopped on the track used for empty cars, some 25 ft. from the entrance. When such cars came to his switch, instead of passing on, they left the straight track and ran into his entry and he was injured. The other track in the entry was filled with loaded cars and he could not with safety have stood be-tween the tracks when the cars were passing. It was held that the ques-tion of contributory negligence was for the jury to determine.—South-western Coal and Improvement Company vs. Rohr (39 Southwestern Re-porter, 1017); Court of Civil Appeals of Texas.

## RECENT DECISIONS AFFECTING THE MINING INDUSTRY.

#### Specially Reported for the Engineering and Mining Journal.

COMPANY LIABLE FOR ACT OF SHIFT-BOSS.—The shift-boss of a mine acts as vice-principal in directing a miner to work at a certain place with-out notifying him of unexpected blasts at such place, the existence of which is known to the boss.—McMahon vs. Ida Mine Company (70 Northwestern Reporter, 748); Supreme Court of Wisconsin.

WHEN COMPANY IS NOT LIABLE FOR ACT OF FOREMAN.—The foreman of a gang of men engaged in shoveling coal into cars from a large pile, the surface of which had been frozen, acts as a fellow-servant of the men in so directing the work as to leave a projection of the frozen coal over the men at work.—Miller vs. Thomas (44 New York Supplementary Re-port, 277); New York Supreme Court.

ABANDONMENT A SURRENDER OF LEASE.—Under a written lease for 10 years, with right to mine coal, the lessee entered, but within a year ceased to operate the mine, removed all the apparatus which was necessary to its operation, took out the curbing and said he would do nothing further under the lease; but three months afterward he attempted to re-enter. It was held that the abandonment operated as a surrender of the lease.

#### THE ENGINEERING AND MINING JOURNAL.

#### PERSONAL.

MR. H. S. MCKAY, of Boston, one the large wners of La Cigale mine, at Mercur, is summering owners o in Utah.

PROFESSOR SMYTHE, of Harvard, was at Mercur. Itah, last week, examining the Vanderbilt and Utah last week, examining the other properties

MR. GEO. H. ROBINSON, after a tour of inspection on the Mother Lode, California, is enjoying a few days on the Atlantic Coast.

MR. CHARLES M. ROLKER arrived in Salt Lake from the North in time to join the throng attend-ing the Utah Semi-Centennial Jubilee.

MR. A. D. HODGES, after a short trip to Denver, is again on the West Dip, Camp Floyd District. He is making a very thorough study of that area.

MR. CHARLES G. YALE, a well-known mining en-gineer of the Pacific Coast, has gone to the Klon-dyke District, on the Yukon. He will winter there.

CAPT. D. C. KINGMAN, who was one of the party that took possession of old Fort Yukon for the United States government, is now residing at Chattanooga, Tenn.

MR. GEORGE A. SONNEMAN, mining engineer, of Spokane. Wash., has started on a trip of six weeks or so to Baker City, Ore., Silver City and the Seven Devils District in Idaho.

MR. A. M. ROBERSON, a mining man from Kim-berly, South Africa, is now in Butte City, Mont., examining the mines and smelters with a view to introducing parties in South Africa.

DR. R. P. HUDSON, of Nashville, Tenn., has re-turned to his home after a month's trip through California, Colorado, Wyoming and other Western mining States. He made a close inspection of the Colorado mining field.

MR. H. B. PATTON, professor of geology and mineralogy at the State School of Mines at Golden, Colo., has been in Cripple Creek during the week collecting specimens of phonolite and other rocks of the district for use at the school.

PROF. S. F. EMMONS returned to Salt Lake from Tintic July 19th. Before leaving Utah he made a flying trlp to Sevier Canyon, over the Rio Grande Western. He expects to sail for Europe in a few days to attend the International Geological Con-gress at St. Petersburg.

MR. J. W. GATES, President of the Illinois Steel Company, of Chicago, together with Mrs. Gates, and MR. and MRS. J. A. DRAKE, have been making a tour of investigation through the mining regions of British Columbia. Mr. Gates proposes making some investments there.

some investments there. MR. GEOBGE E. QUINBY, of Webb City, the present mine inspector of Missouri, has, been reappointed in-spector of lead, zinc and iron mines for the two years' term, from July 17th, 1897, to July 17th, 1899. Mr. Quinby was appointed to fill the unexpired term of Francis A. LaGrave, and his appointment gave such satisfaction that his confirmation for the full term followed as a matter of course. MAL INVING A. STEARNS has been tendered a

full term followed as a matter of course. MAJ. IRVING A. STEARNS has been tendered a testimonial dinner on his retirement from the man-agement of the coal companies of the Pennsylvania Railroad Company. The dinner is given on the evening of July 31st at Concordia Half's in Wilkes-Barre, Pa. Major Stearns' retirement from this position is much regretted both by the company and by his associates and subordinates, and there is a general desire to wish him success in his new field of action.

#### OBITUARY.

WILLIAM HENRY CONLEY, one of the best-known structural iron manufacturers in the country, died in Pittaburg, July 26th, aged 57 years. He was born in Pittaburg, educated in the public schools and learned the printer's trade in Plymouth, O., but returned to Pittsburg in a short time and went into the iron business. Some 30 years ago he established the firm of Riter & Conley, and its business has been gradually built up to its present dimensions. The firm has filled contracts for iron and steel buildings in all parts of the United States and in many foreign countries.

#### SOCIETIES AND TECHNICAL SCHOOLS.

Association of AMERICAN STEEL MANUFAC-TUBERS.—At the regular quarterly meeting, held at the Brighton Casino at Atlantic City on July 23d, Mr. G. M. McCauly, general manager Cen-tral Iron and Steel Company, was elected presi-dent; Mr. A. F. Huston, first vice-president of the Luken's Iron and Steel Company, vice-president and Mr. Albert Ladd Colby, metallurgical engineer of the Bethlehem Iron Company, secretary and treasurer. A vote of thanks was extended to the retiring officers, including the president, Mr. W. L. King, general manager Jones & Laughlins Company; the vice-president, Mr. G. M. McCauly, and the sec-retary and treasurer, Mr. H. H. Campbell, superin-tendent of the Ponnsylvania Steel Company.

LEHIGH UNIVERSITY. - Governor Hastings, of

Pennsylvania, has approved the first and second specific appropriations, amounting to \$150,000, and disapproved the third and fourth appropriations, amounting to \$50,000, in the bill passed by the legis-lature appropriating \$200,000 for the Lehigh Uni-versity. The first two items are for maintenance and general expenses, and the other two were for general educational purposes and special mainte-nance of the plant. The trustees of the University have issued a statement announcing that the uni-versity will be open as usual in September, that the appropriation has entirely relieved them of any anxiety arising out of the temporary and partial failure of its income, and that the prospects for its continued usefulness and growth are in every way satisfactory and encouraging. The grant from the State will be made to cover two years, when, it is confidently expected, the income of the University will have been restored to its usual proportions, will have been restored to its usual proportions.

#### INDUSTRIAL NOTES.

The Ætna-Standard Iron and Steel Works Wheeling, West Va., have resumed operations.

The Central Connellsville Coke Company will construct a coke plant of 120 ovens in Unity Township shortly.

The McKenna Re-rolling Rail Company, of Joliet. III., has made a test run, and everything went well. This plant is said to be the only one of its kind in the world. The plant will start up in a few days and give employment to 200 men.

The Edward P. Allis Company. of Milwaukee, is building a complete concentrating plant for the Highlander mine, at Ainsworth, B. C.; also a com-plete gold stamp mill with Reynolds Corliss engine for the Andes Mining Company, in the Argentine Republic.

The Shipman Manufacturing Company, Rochester, Y., has been incorporated to manufacture ma-ninery and metal work. The directors are Alfred Wright, John C. Woodbury, William J. Creei-nan, John A. Creelman and James Fitt, of Rochester,

The E. H. Eldridge Lumber Company, of Indian-apolis, Ind., has been incorporated with E. H. Eldridge, George O. Eldridge and Henry C. Murphy as directors. The company will sell coal and fuel and manufacture lumber. It starts out with %35 000 conital 35,000 capital.

The Rancocas Chemical Works, of Rancocas Creek, Burlington County, N. J., have been organ-ized to manufacture phosphorous fertilizers. Capi-tal, \$50,000, Incorporators, Robert L. Thetter, of Oswego, N. Y.; George P. Deacon, Bowers, N. J., and Eli A. Wakefield, Philadelphia,

The United Gas Improvement Company, of Phila delphia, is erecting at Atlanta, Ga., a water tower and tank. The tank has a capacity of 10,000 gals. and is supported on a tower 60 ft. high. They have let the contract for furnishing and erecting the tank and tower to the Berlin Iron Bridge Company, of East Berlin, Conn.

The improvements at the Southern Phosphate The improvements at the Southern Phosphate Works, at Macon, Ga., are about completed, and the capacity has been doubled in preparation for next season's business, which commences in Oc tober. The output of the works will amount to about \$700,000 next year. At present they are run-ning night and day, and giving employment to about 150 hands. for

The Scottdale Iron and Steel Company, of Scott-dale, Pa., is making considerable improvement in its machine shops. An addition is being built in which new machinery for the manufacture of the Hays metallic lathing will be installed. The com-pany recently placed an order with the Wais & Roos Punch and Shear Company, of Cincinnati, for six steam doublers.

A certificate of incorporation has been issued to the George B Sennett Company, of Youngstown, O., organized for the manufacture of engines, ma-chinery, forgings, castings, etc., with \$100,000 cap-ital. The incorporators are George B. Sennett, Florence Sennett, Thomas E. Davey, Thomas W. Lloyd and C. D. Hine. The company has its plant completed and ready for operation.

Articles of incorporation of the Tony Ore Reduc-tion Company, of Pueblo, Colo., have been filed with the Secretary of State. The capital is \$100,000, and the organizers propose building ore concen-trators under a new patent issued to a local man. The incorporators are Frank Pryor, Charles Hen-kel, A. N. Fink, John Martin and William R. Bush-by, the latter the patentee of the concentrator.

A proposal has been made to the Johnstown, A proposal has been made to the Johnstown, Pa, Board of Trade by capitalists desirous of building a tin mill. They will build and equip a mill with modern machinery throughout, and at their own expense, and entirely free from liens or encum-brances, to employ 125 hands at the outset, on the condition that Johnstown will furnish the working capital, this to be in the shape of preferred stock.

President E. G. Acheson, of the Carborundum Company, of Buffalo, N. Y., has returned from Ger-many, where he went to establish a branch carbo-rundum works for the home company. The plant in Germany was started in order to preserve the patent rights of the company and the works were

set in motion only a few days before the rights would have expired unless the manufacture had been begun.

scheme has been proposed to prevent American A scheme has been proposed to prevent American weldless steel tubes from coming into competition in Europe with English tubes. A capital of \$400,000 is said to have been subscribed in London to acquire the business of the Ellwood Weldless Tube Com-pany, the Greenville Tube Company, and the Ameri-can Weldless Steel Tube Company, of Ohio. Should this plan go through, American tubes will be sold only in this country.

The Columbia (S. C.) Phosphate Company, of which Mr. W. A. Clark is the President, will in-crease the capacity of their acid chambers about burners now in use. When all the contemplated changes have been made the mill will turn out 15,000 tons of phosphate annualy instead of 10,000 tons as at present. All the new work will be com-pleted by the last of August.

The new steel plant at Birmingham, Ala., has been put in operation by the Birmingham, Ala., has been put in operation by the Birmingham Rolling Mill Company, and it has been determined to add an-other furnace to the plant. This will give a capacity of about 80 tons per day, and furnish all the steel the rolling mills can use, besides probably leaving a surplus, which will be sold to other Southern mills. The operations of this plant are being watched with a great deal of interest by the furnace men of the district, and rumors are very general that other plants will be erected in the near future.

plants will be erected in the near future. The sale of the Baltimore Iron, Steel and Tin Plate Company's plait at Locust Point, Baltimore, to Messrs. W. H. Harris and David Tamplin on be-half of a new company salled the Baltimore Tin Plate Company, has been ratified by the Circuit Court. The purchasers have bought the property outright, the consideration being \$50,000. Mr. W. H. Harris has been elected president of the new company; Mr. Frank G. Turner, secretary and treasurer protem. Mr. Harris was formerly man-ager and secretary to the Villiers Tin Plate Com-pany, at Britton Ferry, Wales.

pany, at Britton Ferry, Wales. On July 26th a charter was granted to the Com-pressed Coal Company, of Norfolk, Va. The com-pany is empowered to hold real estate to the amount of 500 acres. The capital stock may be \$25,000 to \$500,000, in shares of \$1(0 each. The prin-cipal office is to be in Norfolk. The officers and directors are all from New York City and are as follows: Charles W. Kohlsaat, president; John T. Davis, vice-president; Clarence A. Blanchard, treas-urer and secretary. Directors, the above and George R. Blanchard, Alfred H. Brown and John M. Shuffrins. The annual meetings of the stock-holders will be held on the first Monday of each August. August.

#### TRADE CATALOGUES.

Messrs, James L. Robertson & Sons, 204 Fulton street, New York City, have just published a very complete catalogue of the machinery they sell. They manufacture indicators, reducing wheels, plain-meters, damper regulators, feed-water heaters, exhaust pipe heads, shaking grate bars, coils and pipe bending, waste oil filters, steam separators, oil extractors, Eureka packing, tools and supplies.

oil extractors, Eureka packing, tools and supplies. We have been favored with a copy of the new cata-logue of the Hendrie & Bolthoff Manufacturing Company of Denver, Colo. This firm is so thoroughly and favorably known throughout the mining regions of the West that it is almost super-fluous to say that they carry a very full line of min-ing supplies and machinery, and the advertising de-partment of the company is to be congratulated on the very artistic description of the contents of the firm's storehouse with which they have furnished us. Messrs. Hendrie & Bolthoff represent the fol-lowing firms: W. S. Tyler Iron Works, John A. Roebling's Sons Company, Knowles Steam Pump Works. Dodge Manufacturing Company, Norwalk Iron Works Company, James Leffel & Company, Lingerwood Mar ufacturing Company, Nonparell Cork Manufacturing Company, Nonparell Cork Manufacturing Company, Netwer the Biting & Packing Company, New York Safety Steam Power Company, and many others.

#### NEW PATENTS.

#### UNITED STATES

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

#### WEEK ENDING JULY 20TH, 1897.

WEEK EXDING JULY 20TH, 1897.
S86,567. PROCESS OF MAKING POLYSULPHIDES. Bernhard von Schenk, Heidelberg, Germany "The process con-sists in c-mbining and thoroughly mixing sublimed sulphur and hydrated line in about the proportions of 66% of sulphur and 46% of line, boiling the mixture in water for a suitable period, reducing the specific gravity of the 1ye thus obtained by the addition of boiling water to about 10° Baume, then decanting the lye, then further reducing its specific gravity to about about about and about the properties of the specific state, then decanting and evaporating the

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- trodes and passages arranged to convey material through the annular arcing-space traversed by the potating arc.
  588,83. ELECTRIC FURNACE. Francis J. Patten, New York. The process of electrically heating a homogeneous mass of material of low and approximately uniform conductivity, consists in passing an electric current through such a mass and establishing around such a mass a magnetic field.
  588,835. PULYKRIZING MACHINE, John C. Clark, Atlanta, G. G. The combination of a grinding ring and a rotatory group of grinding rolls acting upon each other to a find the material, each roll adopted to swing outward by centrifugal force and the outer rolls of the group also acting upon the ring.
  588,836. APPARATUS FOR 'ICKLING OR WASHING METAL. George Mesia, Pittsburg, Pa. The combination with an overhead wheeled carrier arranged to move horizontally in parallel lines, of conveying mechanism for supporting long sheets or strips at two or more points in their length, tanks located beneath the carrier in its path of travel, agitating apparatus being arranged to give the sheets or strips an agitatory motion in the tanks, and mechanism on the carrier for lower ing the sheets into and raising them out of the tanks.
  586,586. FEED TABLE FOR ROLLING MILLS. John A. Potter, Cleveland, O. A feed-table having a plurality of parallel endless chains, and driving mechanism. Therefor constructed and arranged to operate them all in the same direction or a portion of them in a different direction from the remainder as desired.
  586,586. MELTING FURNACE. John D. McDonal, Sudbury, Canada, assignor of two thirds to Richard Watson Demorest, same freue, and Rinaldo McConnell, Mattawa, Canada. The combination of rails or ways having notched or cut-

- portion. 586,538. HYDRAULIC MINING-GIANT. John P. Simmons, San Francisco, Cal. A hydraulic giant comprising a stationary pipe, a curved movable section and a ball-bearing joint connection between them.

#### MACHINERY AND SUPPLIES WANTED.

If any one wanting machinery or supplies of any kind will notify the *Engineering and Mining Journal* of what he needs he will be put in communication with the best manufacturers of the same. We also offer our services to foreign correspondents who desire to purchase American goods, and shall be

pleased to furnish them information concerning goods of any kind, and forward them catalogues and discounts of manufactures in each line. All these services are rendered gratuitously in the in-terest of our subscribers and advertisers; the proprietors of the *Engineering and Mining Journal* are not brokers or exporters, nor have they any pecuniary interest in buy-ing or selling goods of any kind.

#### GENERAL MINING NEWS.

THE COAL MINERS' STRIKE.—The incidents of the strike during the week have been many, but the results small. The efforts of the managers have been concentrated on West Virginia, but up to the present time the greater part of the miners in that State continue at work and heavy shipments of coal are going to the West and Northwest. There have been partial strikes at the Fairmont and Monengah mines, but through the Kanawha and Pocahontas realize that success is impossible while this continues, and every effort is being made to induce the men to stop; but they do not seem disposed to do so. In the Pittsburg region the only mines at work are those of De Armitt and some of the New York & Cleveland Gas Coal Company. Here also great efforts are being made to induce the men to stop work, with the probabilities in favor of success. In the West the Illinois miners are generally out, such are of chieago. In low at he strike is only partial, but the nines at work are chiefly the smaller ones which suply the local trade only. The conference of operators at Pittsburg District on ake it binding. The agreement provides for cash appointed to store, suminers, of wages, uniform price for pick mining in the thin and the full quantity of coal contained in the mine car, abolition of company stores, semi-monthly pay THE COAL MINERS' STRIKE.-The incidents of the

weighting on the tipples, inders to be credited with the full quantity of coal contained in the mine car, abolition of company stores, semi-monthly pay days, uniform price for pick mining in the thin and thick-vein districts and screens not exceed-ing  $1\frac{1}{2}$  in. It also provides, in case of violation of the provision and terms of the agreement, for a penalty of 10c, per fon on the total output of coal mined by the violator, to be paid to a commis-sion, subject to the right of further arbitration or appeal. The penalty when collected is to be dis-tributed among the signers of the agreement pro-rata. The commission is to be chosen annually, and known as the Uniformity Commission. It is to be composed of nine members, sworn faithfully to perform the duties of their office, empowered to en-force the judgments and awards, and to subpena witnesses. The difficulty will be to secure the sig-natures of the requisite number of operators to this agreement, as two or three of the large companies are not disposed to sign. are not disposed to sign

#### ALABAMA.

ALABAMA. (From Our Special Correspondent.) During the present summer Dr. Smith, the State (Geologist, will be engaged in the field work in Cle-burn, Randolph and Coosa counties. He will visit personally the prospecting work being done, and will probably himself prospect to determine further facts relative to certain districts along the line of strike of some of the known ore-bodies where no discoveries of gold have yet been reported.

#### (From Our Special Correspondent.)

discoveries of gold have yet been reported. (From Our Special Correspondent.) That portion of the Alabama coalfields which lie in the immediate vicinity of Birmingham, Pratt inotes, as well as the mines at Hargrove, in Bibb County; Aldrich and Monta Vallo, in Shelby County, and the mines in Walker and Tuscaloosa coun-ties have not been affected by the coal miners' strike. There has been no general strike in Ala-bama; some of the mines owned by the Tennessee Coal, fron and Railroad Company and the Sloss Iron and Steel Company have been idle since July Ist, because the companies notified the miners that they would be expected to accept a reduction from the old scale of wages. Every effort was made by both parties to come to an agreement, so that neither would suffer materially; consequently a settlement has been arrived at wherebytheminers accept 37%c, per ton, and it is expected the mines will all be running full-handed by August 1st. Of course the for and Railroad Company have been alte to mine has been insufficient to supply coke enough to keep all their furnaces in blast, therefore three at Besse. The quantity of iron ore mined during July will, of course, be considerably ess than usual, and the pro-duction of dolomite and limestone used for flux will also show a decrease. DEMENCEE COUNTY. (From Our Special Correspondent.)

#### CHEROKEE COUNTY. (From Our Special Correspondent.)

(From Our Special Correspondent.) The bauxite mines, operated by the Republic Min-ing and Manufacturing Company, produced during the months of May and June 1,778 tons; this was omitted in the returns made by the State Geologist through a misunderstanding. The production of the mines operated by the Southern Bauxite Com-pany is this year being hauled by wagon to Cave Spring, in Georgia, and shipped from that point on the East Tennessee, Virginia & Georgia Division of the Southern Railroad.

I was recently informed by the general agent of the Alabama Mineral Land Company, of Anniston, that he had received instructions to have the de-posits of bauxite, which were discovered on the property of that company near Anniston last year, further developed, and to make arrangements for shipping the product.

#### CLAY COUNTY.

(From Our Special Correspondent.) HOLLINGSWORTH - WATTS PROPERTY.—The test which was being made by Dr. Phillips at the old Hollingsworth-Watts property has been completed, but the result is not yet known.

Holingsworth-Waits property has been completed, but the result is not yet known. IDAHO MINE.—The Huntington mill at this mine is being run regularly. A good deal of trouble was cocasioned during the past two or three months be-cause of an attempt made to use iron for the roller rings and ring dies instead of steel. The casting was done at a local foundry, and if the substitu-tion had proven satisfactory a great saving would have been effected in replacing the wearing parts of the mill, but after a series of accidents directly attributable to the change the management decided to put in the parts as furnished by Fraser & Chal-mers and avoid further cost from delay and break-downs. This property will in future furnish a monthly shipment of builion and rank among the regular producers. It has been demonstrated that it can be operated at a profit with only one Huntington mill. Prospecting work is being per-formed on the west end of this ore-body about 600 ft. distant from the present cuts; and will be also carried on at the east of the present workings, which are almost in the center of the property, whilh are almost in the center of the property will have more prospecting work done, than has been its policy in the past, in order to determine how expensive a crushing capacity the ore-body will warrant. BANDOLPH COUNTY.

#### RANDOLPH COUNTY. (From Our Special Correspondent.)

(From Our Special Correspondent.) A Montgomery syndicate which has been doing some prospecting in Clay County has, I understand, optioned a property near the Tallapoosa River in the extreme southwestern corner of Randolph County and proposes to prospect the same. The test this syndicate was making at the Horn's Peak property has been completed, and, I am informed, resulted unsatisfactorily. The five-stamp mill used for this test is to be moved to a body of quartz which is located northwesterly from the Idaho property, about two miles distant. ALASKA.

#### ALASKA.

ALASKA. On another page will be found matter treating at some length upon the present Alaska excitement. Gold has been found in the gravels of the Klondike, a tributary of the Upper Yukon, and some claims are said to be worth \$200,000. All the bed of the stream, as well as those of its tributaries, have been staked. The total amount of gold so far received from this Territory as a result of the winter's work is about \$1,000,000. Fresh discoveries are rumored to have been made on Stewart River, and also on the American side of the 141st meridian, but they lack confirmation. lack confirmation.

the American side of the Prist meridian, out they lack confirmation. The San Francisco Examiner has sent two ex-peditions to the Klondike District On Wednesday, July 28th. E. H. Hamilton, Charles G. Yale, Helen Dare and Joaquin Miller took passage on the Excel-sior to St. Michaels, and from there they intend going up the Yukon River to Dawson City. Edward J. Livernash will lead the other party to Juneau and will go overland through the Chilkoot Pass to Dawson City. From all accounts the rush to this section is on the increase, and in a few months there may be 10,000 people in the district. The old miners who have returned discourage the idea of going in unless the parties are well equipped with money, provisions and clothing, and are ablebodied enough to withstand the rigors of the elimate. Al-most all who have returned express their intention of going back next March, and say the reports pub-lished fall short of the reality. FRINCE WILLIAM SOUND.

#### PRINCE WILLIAM SOUND.

Copper ore has been brought to Sitka from this district by Mr. F. C. Lawrence. The ledge on which most of the claims are located is a distinct one and can be traced for 300 ft., when it sinks beneath the sea. The width is 80 ft. Local mining men think highly of the discovery.

#### ARIZONA.

ARIZONA. GILA COUNTY. BLACK WARBIOR.—The superintendent of this property has taken on 45 extra men on account of month comprised over 400 ft. of drifting and sink-ing. The Montgomery tunnel has been driven 350 ft. on the vein and is in low-grade ore the entire length. The company is making preparations to haul ore to the Buffalo smelter, and deliveries will begin about August 1st and will amount to proba-bly 30 or 40 tons a day, the limit being 50 tons. There is now 500 tons of ore on the dump, and there will be no difficulty to supply the maximum quantity. About 1,800 ft. of 18-in. gauge track has been laid from the Montgomery claim to the end of the wagn road to facilitate the handling of the ore.

#### CALIFORNIA.

AMADOR COUNTY. (From Our Special Correspondent.)

ore.

DOYLE .- This mine, two miles south of Jackson;

on the mother lode, between the Amador and Amador Queen mines, has been opened up under the superintendency of F. A. Bagard.

the superintendency of F. A. Bagard. MONTE CRISTO.—At this mine, which is six miles northwest of Volcano, development work is being pushed rapidly. The ledge shows 60 ft. of porphyry mixed with quartz stringers, the whole mass yield-ing from \$2 to \$3 per ton. The working tunnel, now in 750 ft. on the ledge, shows from 40 to 60 ft. of pay ore, and it now has 300 ft. of vertical backs, 425 ft. on the raise. A five-stamp mill has been working day and night for the past two years. A 6-ft. Huntington mill has just been completed. Thomas Dillon is superintendent. CALAVERAS COUNTY.

#### CALAVERAS COUNTY. (From Our Special Correspondent.)

(From Our Special Correspondent.) BLUE MOUNTAIN.—Fred Greve, of Blue Moun-tain, bonded last week to Oakland and San Fran-cisco parties the Eureka, Neutral and Oro Fino or Black Wonder quartz mining claims, all in Blue Mountain mining district, for a term of two years for \$19,000. The condition of the boad is that the bondees enter within 30 days upon the properties and develop them in a workmanlike manner. bind-ing themselves to perform during the year 1897 at least \$300 worth of development work, that one-quarter of the gross proceeds derived from the re-duction of ores shall be turned over to Greve imme-diately after each clean-up, which amount shall be applied on the purchased price above named. CALIFORNIA EXPLORATION COMPANY.—At last

applied on the purchased price above named. CALIFORNIA EXPLORATION COMPANY.—At last the power plant of the Blue Lakes Water Company, situated on the Mokelumne River, near Mokelumne Hill, is in motion, and Mokelumne Hill, San An-dreas and other towns in Calaveras County will be lighted by electricity. This plant, one of the largest on the Pacific Coast, will deliver power to the Cali-fornia Exploration Company, which has its poles and wires up for a distance of 17 miles from the power plant, and is extending them in all directions to light the towns along the mother lode in Cala-veras County. This company will also furnish light and power to the mines in that section. MARIPOSA COUNTY.

#### MARIPOSA COUNTY.

(From Our Sp. clal Correspondent.) MOUNTAIN BELLE – Mr. N. G. Wright has bonded this mine. It is near Princeton, just cutside the limits of the Mariposa Grant. A force of men has been put to work been put to work.

#### NEVADA COUNTY.

NEVADA COUNTY. (From Our Special Correspondent.) BELLE-FONTAINE.—At this mine, located on Deer Creek, three miles east of Nevada City, the vein has widened out from 13 in. to 24 in. About three tons of high-grade ore per day is taken out in sinking the shaft. Hoisting works are being put in and cross-cutting will be commenced at once. Six hundred feet of pipe has been purchased to supply the water wheel

Wheel. GASTON RIDGE.—At this mine, four miles south of Graniteville, and 32 miles from Nevada City, at an altitude of 3,000 ft., which is being worked by a series of tunnels, a strike has been made in the lower tunnel. The ore which runs as high as \$35 per ton is packed on burros up to the mill, which has a capacity of 35 tons per day. The ledge has every indication of holding out.

every indication of holding out. REWARD.—A rich strike is reported in the Reward mine, about one mile from Nevada City. Accord-ing to the mining record this mine was opened about five or six years ago and shaft sunk several hundred feet. All along the prospects were promising, but on the 200 and 300 levels they were better than at the surface. The sinking continued until the 400 level was reached a week or so ago. Ore assaying \$1,200 per ton was taken out. The chute is between 12 and 16 in. in thickness, and it is widening as the men continue to sink. widening as the men continue to sink.

SNEATH & CLAY MINE - A deal has just been completed by which this mine passes into the hands of a number of Cincinnati men. It is near Nevada of a number of Cincinnati men. It is near Nevada Ci y, and the name of the new company is to be the Phcenix Mining and Improvement Company. Prominent in the deal are August Voss, H. K. Shockley, Dr. I. K. Mott, C. H. Karlsruher and other Cincinnati men, as well as some prominent mine prospectors in the West. The mine is an old one, having been worked about war times. Mr. Shockley will act as manager of the plant. Of the company Mr. Karlsruher is president and Mr. Voss secretary and treasurer. WASHINGTON DISTRICT.—In this district. about.

secretary and treasurer. WASHINGTON DISTRICT.—In this district, about one mile southwest of the Spanish mine, a strike has been made on Poormau's Creek. After the tunnel was in 120 ft. on the ledge, a crosscut was made, which showed the main ledge to be 23 ft. in width, the whole formation between the walls be-ing from 35 to 40 ft. wide. Every sample taken from the ledge and stringers shows free gold to the naked eye, and the sulphurets are very rich.

#### PLACER COUNTY. (From Our Special Correspondent.)

CEDAR CREEK AND MINERS' GULCH.—These hy-draulic mines, near Dutch Flat, are reported as sold to an English syndicate, who will work them on a large scale under the superintendency of J. E. Doo-little.

HORSE SHOE BAR.—Bed rock at this placer mine, on the Middle Fork of the American River, has been reached at a depth of 36 ft. The gravel prospected averages well all the way down. About 40 men are employed employed.

TRURO.—This drift mine is on Ford's Bar on the American River, 114 ft. above the bed of the stream. It was opened about a year ago. A tunnel was run 315 ft. to the channel, and was continued 100 ft. further without striking the other rim. prospects \$2.50 per carload. The grav

#### SISKIYOU COUNTY.

#### (From Our Special Correspondent.)

DEMING-GARDNER PLACER MINE,-This mine, in DEMING-GARDER PLACER MINE. - Inis mine, in the Oro Fino District, is now making the anuual clean-up. Their run this year was seven months, with a yield of \$12,600 gold dust. EASTLICK PLACER. - This placer, in the Oro Fino District, was again equal to its former record of nearly \$15,000 for the season, which was a short one

this year.

R. H. CAMPBELL PLACER .- This placer is leased H. CAMPBELL PLACER.—This placer is leased by Mr. Hobart, who has worked a large gravel bank to bedrock, but has not cleaned up. The intention is to prepare the ground for next year's piping. Notwithstanding the lack of a regular clean-up, the sluice boxes yielded several thousand dollars. WRIGHT & FLETCHER PLACER.—At this placer, in the Oro Fino District, they had but three months' run of water this year. Their clean-up averaged &2.000 per month.

\$2,000 per month.

#### STANISLAUS COUNTY.

(From Our Special Correspondent.) BLACK OAK.—The shaft at Soulsbyville is now down 900 ft., and 40 men are employed. The vein is from 6 to 12 ft. in width and the 20 stamp mill is kept busy on ore that averages \$10 per ton. The company is taking out considerable sulphureted ore, which goes high in gold. The ore is broken up, sacked and shipped below for treatment. The univer BLYER\_—In a short time onerations

up, sacked and shipped below for treatment. TUOLUMNE RIVER.—In a short time operations will be commenced on the river between the Davis rangh and La Grange by a company that intends dredging the river bed and securing the quantities of gold that are supposed to be lodged on the hard pan that forms the bed of the river. It has been bonded with the exception of three or four places. Work will probably commence as soon as the water gets low enough for them to commence dredging.

#### TRINITY COUNTY.

#### (From Our Special Correspondent.)

(From Our Special Correspondent.) HALL CITY.—An important discovery has been reported. The rock is a black, white and gray granite and is traversed by veins of heavy spar. The formation runs north west and southeast, from Tehama to Del Norte counties, and lies between a dike several hundred feet in width on the north and porphyritic 200 ft in width on the south. The out-croppings, which are about 600 ft. in width, have been followed for several miles. The pay streak assays about §15 to the ton. Prospectors are flocking to the new find and claims have been staked off for several miles on the supposed lode. TUOLUMNE COUNTY.

#### TUOLUMNE COUNTY. (From Our Special Correspondent.)

(From Our Special Correspondent.) BLACK OAK.—Late shipments of ore from this group of mines, near Soulsbyville, to the smelting company have been very rich, running over \$80 to the ton in gold, besides silver which goes sev-eral dollars to the ton. In the 800-ft. level, now be-ing run, the rich chute shows from 8 to 20 ft. in width, and about 400 ft. in length. A winze which has been sunk north of the shaft from the 700 ft. is now down 45 ft. on the hanging wall, and the ore in it shows equally well. The plant in opera-tion consists of a 20 stamp mill, 10 Frue concentrat-ors, and a 30-ton cyanide plant. The ore is princi-paily galena and copper sulphurets, carrying gold in minute particles. The concentrates average \$200, and the tailings \$\$ per ton. The ledge has every in-dication of permanency. CONSUELLA.—One and a half miles southeast of

CONSULLA.—One and a half miles southeast of Carters and east of the North Fork of the Tuolumne River, this mine has been developed on each side of the gulch, cutting the vein at a depth of from 150 to 200 ft. from the surface. The pay chute averages about five feet in width where exposed in the workings.

GOLDEN GATE.—The shaft is down 725 ft. and sinking has been discontinued. The 20-stamp nill is kept running on ore from the 300 and 400 ft. levels. No levels have been run from the station at the 400-ft. to the 700-ft. level. The mine is one mile southwest of Sonora.

SANTA YSABEL.—This group of mines, at Stent, is being developed on a large scale. The three hoists, 20-stamp mill, and other machinery are run by electric power, and the grounds and works are lighted by electricity. About 70 men are employed.

#### COLORADO. CLEAR CREEK COUNTY.

ALICE MINING COMPANY.—This property, at Yankee Hill, is reported sold to Eastern parties for Yankee Hill, is reported sold to Eastern parties for \$250,000. The announcement is rather premature, for the deal is not to go through until satisfactory tests are made. The lode is 310 ft. wide between walls, but most of it carries low-grade mineral and no satisfactory system had been found by the old company for the treatment of the ore. However, it is believed that concentration can save the values, and if the tests now being made prove this, the mine will start up at once and the mineral will be quar-ried, so extensive is the showing. A mill is at the mine and this will be remodeled for the treatment of about 175 tons of the material per day. FLOYD HILL.—The first discoveries of mineral

FLOYD HILL.-The first discoveries of mineral

JULY 31, 1897.

near this station on the Gulf road have just been made by the finding of a lode with 4 ft. of quartz which will pay to treat by amalgamation. The location is the most easterly in the county and is about four miles directly east of Idaho Springs. GOLD MEDAL.—This is one of the new discoveries on Seaton mountain which is attracting attention. In sinking the shaft to a depth of 210 ft. about 4 ft. of \$17 mill dirt has opened up and near it is a streak of free gold which varies in width from 1 in. to 8 in., and is very rich. NEWHOUSE TUNNEL.—Several important strikes

NEWHOUSE TUNNEL.—Several important strikes have been made in this big bore, at Idaho Springs, within the month, for the heart of Seaton Mountain is now being pierced. It is no longer an experiment as an exploration scheme, for the lodes are found at a depth of 1,800 ft. as good, it not better, than at the surface. A number of blind leads have been cut, but these are quite generally covered at the surface by other locations of years ago. Samuel Newhouse, who is at the head of this undertaking, is very much pleased with the more recent discoveries, for it only bears out what he has long contended, that the veins in Clear Creek and Gilpin counties do not pinch out as depth is gained. If the present show-ing continues, and with a gradual increase in lodes over the discoveries at the surface, he will cut prob-ably 1,506 different veins before Central City is reached. Of this number about 200 are producing mines. NEWHOUSE TUNNEL .- Several important strikes

mines. P. T. MINE.—This property, consisting of three claims, has just been sold to the Rocky Mountain Mining Company for \$18,000. This group is to be consolidated with the Calumet group and the differ-ent lodes will be worked through the latter set of workings. The property is located at Idaho Springs. ROSCOE PLACER WORKS.—This company, oper-ating on Clear Creek with hydraulic power, has never been able to secure sufficient pressure because of the poor system adopted in bringing the water to the pits. Some washing is going on, but until a flume with a pipe line from it is installed so that there can be some pressure and force in the washing of the ground, it will never prove a financial suc-cess.

cess. Sun & MOON GOLD MINING COMPANY.—A new plant of machinery has just been placed at the Minott shaft and the workings will be joined and worked through one set. The mine is located at Idaho Springs, but is owned in Cleveland. Very extensive development of the group of five claims is contemplated, and the shaft will doubtless he sunk to a connection with the Newhouse tunnel.

#### (From Our Special Correspondent.)

(From Our Special Correspondent.) CROWN POINT-VIRGINIA MINING COMPANY.— Through some arrangement this mine was sold at sherifi's sale to Joseph Stanley for \$13,131 to satisfy a judgment on notes which had been given. It looks very much like the consummation of a freeze-out game which was connenced some time ago to place the mine in the hands of a few Eastern parties. The notes were given and in turn it was sold to about the same individuals. The mine is one of the best in the Idaho Springs District and is under development. Immese bodies of ore are blocked out, but none of it will be moved until the sherifi's deed can be made perfect, for under the laws of Colorado the property can be redeemed within nine months' time. In the bottom of the shaft at a depth of 700 ft. 3 ft. of pay ore is showing and is generally understood to be high-grade smelt-ing ore, but the report cannot be confirmed. DICITATOR.—Sam Markel, working this mine near

DICTATOR.—Sam Markel, working this mine near Lawson, has opened into a very rich streak of ore that runs 2,700 oz. silver per ton; with it is some lower grade which runs 400 oz. silver per ton. A shipment has just been made through the Idaho Springs ore buyers.

Springs ore buyers. GRIFFITH MINING COMPANY.—This property, at Georgetown, is being worked exclusively by leas-ers. The streak measures 15 in, wide and returns are as follows: On one carload 3% oz. gold, 58 oz. silver, 64% copper, and 18% lead per ton; on the other carload 2% oz. gold, 61 oz silver, 7% copper and 20% lead. This comes from the shaft. An adit level is also being driven in mineral.

Mr. McGREGOR.—This property, at Empire, has passed into the hands of Kalamazoo, Mich., people who are arranging plans for its extensive working.

SEATON GOLD MINING COMPANY.—A company has been formed for the working of the Seaton group of mines at Idabo Springs and the develop-ment work will be continued. F. S. Goldsmith re-mains as manager. The property is under system atic development and has some large bodies of both smelting ore and mill dirt blocked out. A tramway will be erected for bringing the ores from the mine will be erected for bringing the ores from the mine into town if satisfactory arrangements cannot be made for the working of the lodes through the New-house tunnei. The manager says that the company will build a mill for the treating of the low-grade product by concentration product by concentration.

product by concentration. CUSTER COUNTY. GEYSER MINING AND MILLING COMPANY.-Mr. James W. Cartwright, treasurer of this company, writes: "Our work at the mine is progressing well, and the latest news is very satisfactory to the man-agement. We are stoping out some ore of very good quality from between the 2,200 and 2,300H. levels. Are running in a drift on the 2,400-ft, level, and the material is all country rock; are also sink-ing the main shaft in the same material to the 2,500-ft, level. The future outcome of this enter-

prise for a successful issue never looked brighter than at this time."

#### EL PASO COUNTY.

GILLETT CHLORINATION WORKS.—These works will soon have their roasting capacity considerably increased by the erection of another 36-ft. Pearce turret furnace, the contract for which has been let to the Stearns-Roger Manufacturing Company, of Denver.

#### (From Our Special Correspondent.)

(From Our Special Correspondent.) ANCHORIA-LELAND GOLD MINING COMPANY.— Between 700 and 800 tons of smelting ore a month are being shipped. The shaft is down 750 ft., and mining will probably be resumed about the first of the month and continued until the water becomes troublesome. Work in the shaft will then be stopped until the water can be pumped out through one of the tunnels that piece Gold Hill. The com-pany paid the usual monthly dividend of \$6,000 on the listh.

the 15th. AREQUA TOWNSITE.—The Lindsay lease on this property recently struck a large flow of water, which drowned the pump then in use. The pump has been recovered, and with the assistance of a tank the water is kept down. A second pump is now ready to be put in use. The shaft is 165 ft. deep and the amount of water is estimated at about 60 or 70 gals. per minute. A new find of ore has been made, but on account of the water none has been taken out. Couver, Sinking is being numbed in the sheft.

on account of the water hole has been taken out.  $C_{RANK}$ .—Sinking is being pushed in the shaft on Rasin Hill. About two months ago a new hoisting plant was completed. The hoister is a high-geared one made by Frazer & Chalmers, a bucket with a gross-head being used. The shaft is now 300 ft. deep and is dry as yet.

cross-head being used. The shaft is now 300 ft. deep and is dry as yet. CRIPPLE CREEK & GOLD HILL TUNNEL.-Work was recently commenced on a contract for an addi-tional 800 ft. of work on the tunnel. It calls for the extension of the tunnel from 2,300 ft. to 3,100 ft., where it should cut the Anchoria-Leland shaft at the depth of 700 ft. Power drills are being used, and the management states that the contract will be completed within 90 days. The tunnel is now nearly 2,400 ft long. KEYSTONE MINING COMPANY.-This company owns the sitting Bull, the Cripple Creek and the Panther lodes, which are situated on Bull Hill, near the town of Independence. Some ore is being shipped from the Sitting Bull lode. MARINETTE MINING COMPANY.-A new Deane pump, with a capacity of 500 gals, per minute, has just been put in Abe Lincoln mine of this company. It is installed at a depth of 300 ft. There is also a No. 9 B. Cameron sinker pump in the shaft. A drift is being run to connect with the amount of water produced by the mine will be about 160 gals. per minute. Sinking in the shaft, which is now 320 ft. deep, will be resumed at once.

Moss. —No work is going on at present on this property, though considerable work has been done here in the past, and a large amount of ore shipped. The mine has paid 8180,000 in dividends altogether, the last being in January, 1896.

REFORM.—A new shaft-house has been built on his property; also a steam hoisting plant put in. he mine is on Bull Hill, near the Blue Bird.

UNION GOLD MINING COMPANY.—Burrier & Company have just commenced work on their lease, on the dump of the Porcupine claim of this com-pany. The dump of the Orpha May No. 2 claim of this company is also being worked by lessees.

#### GUNNISON COUNTY.

(From Our Special Correspondent.) CHICAGO.-Great improvements are being made upon this property at Irwin, preparatory to active development. A large force of carpenters are erect-ing the necessary buildings, and a complete plant of boisting and pumping machinery is being put in,

EL DORADO.—New machinery has been put in at this property near Waunita, and shipments will be commenced as soon as everything is in working order. A fine body of ore, rich in lead, was recently opened up.

GUNNISON.—A new boiler is being put in at the Gunnison mine near Spencer, and pending its com-pletion work has been suspended in the mine. Ship-ments will be resumed within the next two weeks,

MAMMOTH CHIMNEY.—Eastern parties have se-cured a \$10,000 option on this property. MoMUS.—This property, located at Midway, was recently sold to George H. Whitelaw, who will op-erate it in conjunction with his other properties. MOUNTAIN GEM.—The repairs to the machinery have been completed, and work in the lower levels is again under active headway.

#### · LAKE COUNTY. (From Our Special Correspondent.)

Grom Our Special Correspondent.) BIMETALLIC SMELTER.—This plant, which started up on the 9th with one furnace, is now running all three furnaces, and is treating over 300 tons of ore per day. Manager Ballou is receiving over 250 tons each 24 hours which is placed in the bins. It is ex-pected that receipts will be fully 300 tons daily be-fore long.

CATALPA-CRESCENT,—This combination, under the management of Mr. Jos. F. Horner, is doing an im-mense amount of work, and is one of the leading producers of the camp. Shipments have been run-

ning from 200 to 300 tons of ore per day, and this tonnage is to be largely increased. There are three different leases on the combination which are work-ing and are producing the ore mentioned above. The Arthur leasee on the main shaft, at a depth of 350 ft., is mining a big body of manganese, and ship-ping about 125 to 150 tons per day. About 100 tons of this stuff goes to the smelter at Pueblo. In the McGreavy lease, at a depth of 160 ft., the big iron body is being developed, and from 60 to 75 tons a day of this character of ore is being shipped. The Morseman lease is also working in good iron and is shipping from 20 to 30 tons a day of iron ore. Little new work is being done, excepting in the Arthur lease, where prospecting is going on extensively. I also learn that the manganese shipments will be in-creased by August 1st to 200 tons per day. DOWNTOWN PUMPING PROPOSITION.—The delay

Downtown PUMPING PROPOSITION.—The delay caused by August 1st to 200 tons per day. Downtown PUMPING PROPOSITION.—The delay caused by the absence of the winches for the down-town pumps is virtually over, and all preparations are again under way for the drainage of this area. The first of the winches has arrived, and the others will be here before the end of next week. In the meantime work on the foundations and other preparations are under way, so that there will be little delay unless something unforeseen occurs. The second payment due the pumping association from the parties who signed the contract, \$40,000, has all been paid in, and there will be no hitch on this score. The balers for the Weldon and Bohn will be finished and ready to turn over to the re-spective properties certainly not later than July 30th, and probably before. They are being built here. The two balers for the Weldon will hold 624 gals. These automatic dumpers need no man at the top of the shaft and the score not man store the second not be the the top of the shaft and the second near the second near the score the second near the score the second near the score the the top of the shaft and the score the second near the score the the score the second near the score the second near the score the sco gals. These automatic dumpers need no man at the top of the shaft, and it is expected they can make a round rrip every three minutes or so. They are to cost \$600 and should assist materially in the drainage of the downtown area.

MAB.—It cannot be long before I have to report the opening of the big Mahala ore chute in this ground. As already described in the Engineering and Mining Journal, the Mab is a new shaft, started near the Mahala, and is being sunk for the purpose of opening up the same rich contacts. The new shaft has reached a depth of over 850 ft., and within another 50 ft. the sulphides should be reached. The shaft is now going through gray porphyry. porphyry.

OUTPUT.—A careful estimate by conservative min-ing men puts the output of the camp at this time at about 1,300 to 1,400 tons of ore a day. Of this amount 500 to 600 tons are iron, and the balance is divided between silicious ore and sulphides. From what I can learn there will be an increase in ship-ments during August, even though the downtown mines cannot be looked for as shippers nuch before the first of the year. A number of the iron produc-ers, however, have made contracts with the valley and local smelters to handle more of their iron, and in several cases shipments are to be doubled. The Catalpa-Crescent people alone will increase their shipments over 100 tons a day during August. The Yankee Doodle will also increase from 50 to 100 tons per day. In fact the tonnage will commence to increase next month and will keep it up until the first of the year, when it is believed it will have reached the high-water mark and will be fully 2,000 tons per day. 2.000 tons per day.

2,000 tons per day. RANSOME LEASING COMPANY.—Under the man-agement of W. F. Page, three shafts are being worked on the Matchless property, and are tapping big iron bodies at a depth of 200 ft. They have been raising about 50 tons a day, but from August 1 shipments will be doubled. The iron handled is of a low grade and is being consigned to the valley smelters.

WELDON MINING COMPANY.--Now that the Wel-don property is out of the hands of the receiver, and is to be actively operated with the starting up of the downtown pumpa, Mr. Griffith, the receiver, has stepped out and the new manager, Dr. E. H. Whitmore, took charge this week. He is a Gilpin County man who has mined in this State for 12 years.

years. WOLFTONE.—Ex-Mayor Nicholson is manager of the lease on the Wolftone property and at a depth of 700 ft. is developing a body of good sulphide ore, from which he is now shipping some 50 tons per day. Later on it is intended to get out the water and work on the rich ore body which was uncovered just as the Maid pumps were pulled and which was so quickly flooded.

YANKEE DODLE.—Although this property was purchased by New York and other Eastern parties but a short time ago, it is being vigorously operated and the shipments, which have been 50 tons per day of iron ore, will be doubled by August 1st, and ex-tensive development work is planned.

#### LA PLATA COUNTY.

COLUMBUS.—The owners are now sorting and sacking, and will ship 100 tons of high-grade tellur-ium ore in the near future. The entire dump is be-ing washed and sorted for tellurium. The man-agement announces that the shaft is to be sunk to a greater depth this summer, and contracts have already been let for packing and hauling the coal and other supplies for next winter's work.

DURANGO GIRL.—About 50 sacks of high-grade tellurium ore are ready for shipment from this property. Further stoping ground will be opened as soon as this shipment is made

FOREST QUEEN.-Robert Dwyer has been doing some crosscutting on this property, on the South Fork of Lighter Creek.

GOLDEN ROSE.—B. Kern, assisted by C. C. Eddy, is opening up the workings of this property, and will resume shipments in the near future.

SMALL HOPES.—The ore is increasing in extent in the north drift from the deep crosscut on this prop-erty and the conditions are favorable in the Valley King, recently purchased by Pret, Trachsler & Company.

#### OURAY COUNTY.

(From Our Special Correspondent.) BACHELOR.—Messrs. Hurlburt, Armstrong and Sanders, owners of this property, are considering the advisability of putting in a stamp mill and concen-trator of large capacity. It is thought that a plant of this kind would effect a great economy in treat-ment. ment.

BACHELOR No. 2.—E. L. Thompson has been awarded another contract for driving the tunnel an additional 50 ft. or to the vein. The breast is now in over 200 ft., with something like 30 ft., according to surveys, yet to go before the vein is cut. The force was enlarged July 18th and the breast is being driven at the rate of 12 ft. per week.
BALD MCINTYRE.—A big strike is reported from this property, situated in the big blowout just north of town. It is being operated under bond and lease by Buskirk Bros. and others. A few days ago a vein of ore was broken into which measures 5 ft. across the breast, and is improving rapidly in quality and quantity. A test lot was sent to Denver for mill run, which returned \$122 gold per ton. But 100 ft. remain to be driven before the tunnel reaches the east continuation of the American Nettie and O. & N. formation, where it is expected large pockets of ore will be encountered.

pockets of ore will be encountered. CLEOPATRA MINING AND MILLING COMPANY.— The smelting plant recently put in operation by this company has so far failed to meet with the suc-cess hoped for it by its projectors. The first mishap occurred immediately upon the furnace being blown in, when the stack, a wooden structure about 50 ft. high, burned to the ground. It was at first proposed to operate the smelter with but one shift, but this was found to be impossible because considerable time was lost every morning in re-heating the con-tents of the furnace which had cooled over night, and it has a yet been impossible to secure enough this may be feasible in a few weeks. DANIEL BONANZA.—This well-known Mt. Hay-

DANIEL BONANZA .- This well-known Mt. Hay DANIEL BONANZA. -- This well-known ML. Hay-den property recently shipped another carload of ore which netted the lessees \$750 for a month's work. A carload of \$30 ore was also shipped at the same time to the Fowler smelter. LITTLE HOMER.--This mine, in Saw Pit district,

LITTLE HOMER.—This mine, in Saw Pit district, is undergoing exploration work by the owner, James S. Blake, who is prospecting for the ore con-tact. Some time since the ore chute, one of the largest and richest in the Saw Pit region, was thrown out of place by a fault which has necessi-tated considerable dead work in the efforts of the owner to re-locate it.

Litze considerable dead work in the enorts of the owner to re-locate it. LIZZIE G.—This property, a half mile from Saw Pit, continues to produce a car load of gold ore per day, which is shipped to smelters and nets the own-ers and operators, W. H. Wheeler, of Saw Pit, and the Gurley Investment Company, of Denver, \$150 to \$250 per car. The ore lies in a contact vein on top of the limestone strata, and is from 3 to 5 ft. in thickness by 35 to 40 ft. in width. The ore is easily mined, and a force of only 15 men is employed. The ore contact has been thrown out of place and dropped by two or three faults, so that it is now necessary to hoist it up inclined shafts a distance of about 125 ft., making the cost of getting the pro-duct to the surface quite heavy. This, however, will be overcome in the course of the next few months, as the owners are making preparations for driving a crosscut tunnel, 4,000 ft. in length, which will tap the contact at the lowest depth it is known to have dropped, and 350 ft. abead of the present workings. After this tunnel is completed the out-put will be largely increased. RED MOUNTAIN DISTRICT.—The big mines of this motion are choined and the present work on the present.

put will be largely increased. RED MOUNTAIN DISTRICT.—The big mines of this section are shipping as much or more ore than ever. The Congress is shipping an average of two car-loads per day, mined during the past winter. The St. Paul is working 10 men on good ore and is also sinking a new development shaft to facilitate hand-ling the product. The Lake is employing 10 men and is running a level to crosscut the veln at the old shaft. The National Belle, owned by the Guston Company, is employing a small force, but outputting a large amount of ore.

#### SAN JUAN COUNTY.

SAN JUAN COUNTY. LUCY.—This claim in Ice Lake Basin lies between the two groups owned by the Golden Horn Mining and Milling Company, and in character its ore is similar to that of the Grand View and Columbus, free milling quartz, carrying just enough iron py-rites to assist in saving the values on Frue vanners. On the Lucy there is now but 150 ft of devel-opment, but it is all in ore. The vein is 85 to 10 ft. wide, with ore from 4 to 7 ft. The owners will con-fine themselves strictly to development work for the next year. next year.

#### SAN MIGUEL COUNTY.

(From Our Special Correspondent.) BULLION MINING COMPANY.-This company's Tremaine steam stamp mill, treating from 35 to 40 tons of ore daily, is now running full capacity on a 300-ton lot of ore from the Attica mine, under bond to the Bullion Company. If the test is to the satis faction of those concerned it is understood that the company will at once take up the bond it holds on the property, erect a bucket tramway between the mine and mill, materially enlarge the capacity of the latter, and employ a large force of miners. The Attica vein carries a pay streak from 14 in. to 2 ft. in width which averages from \$60 to \$75 per ton in gold and silver. The mineral is heavily impregnated with iron sulphides, and therefore good concentrat-ing ore. The mill has the latest concentrating ma-chinery, and is effecting a close saving of values. The results obtained so far have been highly satis-factory. factory.

BUTLER.-F. P. Magensen, the owner of this mine, located near Ophir station, has a small force of men employed on development work which, when com-pleted, will permit the shipment of several carloads of ore per week. The high-grade mineral encoun-tered while prosecuting exploitation work is shipped to smelters, and runs from \$90 to \$125 per ton in gold, silver and lead.

to smelters, and runs from \$90 to \$120 per confit gold, silver and lead. COLUMBIA-MENONA MINING AND MILLING COM-PANY.—There are now 100 men employed in the company's mines, and the 30-stamp concentrating plant is treating from 100 to 110 tons of ore per day, which yields about 15 tons of concentrates that run 300 to 400 oz. silver, 6 to 8 oz. gold and 40 to 60% lead per ton. The mill is principally supplied with ore from the deep levels, where it is richer in gold than nearer the surface. The vein was intersected at a depth of 450 ft. below the lowest of the upper work-ings in January by a tunnel crosscut 1,450 ft. in length, and since that time drifts have been run on the lead each way from the intersection, blocking out considerable areas of ore ready for stoping. The property is this year managed by Austin 11. Brown, formerly superintendent of the Tom Boy Mine. The present season promises to be the most profitable in the history of the company. DU QUESNE GOLD AND SILVER MINING AND MILL-

DU QUESNE GOLD AND SILVER MINING AND MILL-ING COMPANY.—This company. DU QUESNE GOLD AND SILVER MINING AND MILL-ING COMPANY.—This company is composed of Pitts-burg, Pa., capitalists, with J. H. Schofield as super-intendent. An upraise for ventilation was recently completed between the two main tunnels, and the upper one is now being driven into the mountain as rapidly as possible. This tunnel is in several hundred feet, its objective point being the intersection at a great depth of a large fissure vein crossing the entire group, and it is expected to reach it in the course of the next three or four months. If the vein at the intersec-tion shows up as well as it does on the surface the company will immediately proceed to the erection of a mill on Howard's Fork of San Miguel River, in close proximity to the mines. H. M. H. GROUP.—This promising group of gold

close proximity to the mines. H. M. H. GROUP.—This promising group of gold lodes, located on Upper Bear Creek, is owned by H. M. Hogg, of Telluride. A fine stamp mill is to be erected near the property, at which to treat the product. One of the parallel leads traversing the claims was recently intersected at a depth of several hundred feet by a crosscut tunnel, and at the in-tersection it shows 4 ft. of quartz that assays from 1 to 4 and 5 oz. gold per ton. The tunnel is being continued to intersect the other lead, about 45 ft. distant and showing 6 ft. of mineral on the surface. The mill will be completed and ready for operation in a week or 10 days, and shortly after, if the ore yields as expected, the owner intends to add five more stamps. LENISA GROUP.—Milton Evans, of Placerville and

LENISA GROUP .- Milton Evans, of Placerville, and LENISA GROUP.—MILION EVANS, of Placerville, and Chas. Jordan, the owners of this group, in Prospect Creek basin, are vigorously prosecuting develop-ment work, and are having the ore so taken out packed down to Ballard's stamp mill, one mile be-low Telluride, for treatment. It is yielding an average of an ounce in gold per ton on the plates. The Louisa vein is from 6 to 10 ft. wide and the ore is free milling. free milling.

SAN JUAN GOLD AND SILVER MINING AND MILL SAN JUAN GOLD AND SILVER MINING AND MILL-ING COMPANY.—This company, operating the Com-mercial mine, at Saw Pit, and the Little Annie, in Summit Creek, about a mile up San Miguel River from the town of Saw Pit, is making preparations to use cushion drills in the heavy development work in progress on these properties. The drills will be operated by electricity, taking power from the lines of the Telluride Power Transmission Com-pany. which already supplies power for the opera-Whit be open the Telluride Power Transmission Com-the lines of the Telluride Power Transmission Com-pany, which already supplies power for the opera-tion of several mills in this district. Some very good gold and silver ore has been opened up in the Little Annie lately, and it is very probable that

Shipments will commence soon. SHOEMAKER.—This property, near the town of Ophir, which has been worked under lease by Britton & Wiley for about a year past, is now being operated on a more extensive scale than ever before by George Shoemaker, of Telluride, the prin-cipal owner. The mine is opened up at a consider-able depth by a cross-cut tunnel, several hundred feet in length, and drifts on the veins both ways from the intersection. The lead carries from 3 to 4 ft. of gold ore that runs from \$10 to \$100 per ton in the yellow metal, and while the mine was being worked by lessees several carloads of the ore were shipped to smelters and a large quantity treated at the local stamp mills, which yielded them a good profit. Mr. Shoemaker will soon make arrange-ments for the treatment of the ore as rapidly as it is taken out, and when that has been accomplished the forme will be materially increased taken out, and when that has been accomplished the force will be materially increased.

SHOEMAKER GROUP.—A retort weighing 76 oz. was brought over to Telluride a day or two ago. It was caught on the plates from 50 tons of ore from this property treated at the Suffolk mill. The ore also yielded concentrates which run \$50 per ton in the yellow metal. Robert Neely, late foreman of the Tom Boy mine, is superintending work on the property and the force is being steadily increased.

property and the force is being steadily increased. TELLURIDE SAMPLING WORKS —These works, constructed this Spring by E. W. Richardson and E. W. Greenfield, were put in operation for the first time last week, treating mineral from the Good Luck, in Bear Creek, a mine owned by Her-bert and Purdy. The mill is equipped with Hunt-ington mills, copper plates, vanners, etc., and has a capacity of 20 tons of ore daily. Enough ore has been arranged for to keep the plant running several months. months.

months. WHEEL OF FORTUNE.—Mr. John Ross, of the firm of John G. Eversman & Company, Denver, and others of that city, own this mine and are develop-ing it. A crosscut tunnel, now in about 700 ft., is being driven to cut the vein at a great depth, and is nearly completed. On the surface the lead carries a large pay streak of iron sulphide ore assaying from \$50 to \$200 a ton in gold. As soon as the vein is intersected drifts will be run and a large quantity of ore taken out for concentration and shipment. The property is located in the immediate vicinity of the Silver Pick, one of the largest gold producers in San Miguel County. San Miguel County

#### GEORGIA. CHEROKEE COUNTY.

CHEROKEE COUNTY. GEORGIA MINING, MANUFACTURING AND IN-VESTMENT COMPANY..-This company's affairs were wound up at Atlanta a few days since, by order of the Superior Court, after a lengthy litigation. The amount realized at the sale was \$24,805, far less than had been anticipated, seeing that the actual prop-erties represented by the subordinate corporations consist of 50,000 acres of very valuable mineral lands, two iron furnaces, 300 coke ovens, 40 miles of rail-way, 15 miles of underground railways, coal and iron mines well developed, more than 100 head of stock, about 500 buildings of various kinds and 7 locomotives, besides the tools and machinery for the operation of the mines. The property was sold subject to the bonds outstanding, the price repre-senting the equity of the stockholders. The sale was a consummation of the plans of the bondhold-ers, as it now gives the reorganization committee the entire property free from all incumbrance.

PUTNAM.—This mine was sold a few days ago to Messrs, E. E. and E. G. Pope, of West Virginia. The Putnam was worked from 1833 to 1865, and it is said a great deal of gold was taken out. Messrs. Pope also own 160 acres adjoining the Putnam. The price paid was \$15,000, of which only a part was cash down.

#### IDAHO. OWYHEE COUNTY.

DE LAMAR GOLD MINING COMPANY.—The 50-ton Pelatan-Clerici plant, which has been in operation at this company's mine for some time past, and which was erected by the General Gold Extracting Company, of Denver, has been finally accepted by the De Lamar Company and turned over to that company.

#### SHOSHONE COUNTY.

SHOSHONE COUNTY. HELENA & FRISCO M.NING COMPANY.—The mill has been closed since December, but development work has progressed steadily. A new hoist costing \$35,000 has taken the place of the old one at the 666 ft. or working level. The old bed did not have the capacity required when the Exploration Com-pany bought 51% of the company's stock last year. The new hoist is operated by a powerful engine and can lift 800 tons of ore every 16 hours from a depth of 2,500 ft. Since the reorganization of the company sinking has been progressing rapidly until now the 800 ft. level has just been reached. As the working station is 666 ft. below the apex of the lead, the mine has attained a depth of 1,466 ft. Stations have beer, cut at the 400 and 600 levels and one will be put in at the 800. The superintendent in his report wites that the cast drift of the 600 level has been extended 31 ft. since July 1st, all in ore. The aver-age size of the extension is 10 ft. wide by 12 ft. high. At the 600 station a crosscut has been commenced with a view of cutting another vein. It is supposed that this vein will be reached after driving 500 ft. C. A. Molson, consulting engineer of the company, has arrived from London and will proceed in a day or two to the mine, where he will examine the with a view of cutting another vein. It is supposed that this vein will be reached after driving 500 ft. C. A. Molson, consulting engineer of the company, has arrived from London and will proceed in a day or two to the mine, where he will examine the property.

#### MICHIGAN. COPPER.

# In relation to this the Standard says: "The facts In relation to this the Standard says: "The facts in this case are that this selling of stocks upon the facts as represented in this circular is a fraud. Mining men who know say there is no more gold in the quarcz veins of this property than in the lava of the surrounding country. The Alki mine was relocated by C. W. Meade on March 31st for Mrs. T. T. Tucker, and another party was hired to do the developing work on the mine and is now wondering where he is to get his pay. This hole in the ground, known as the Alki mine, belongs to a group of mines to which has been given locally the name of 'Spiritual Group,' as they were at one t'me under the direction of a Chicago medium, and one of the group, called Allright, was worked quite extensively, or rather quite a little money was

spent upon it by the orders of this medium, whom parties had hired to direct them in the operations. ISLE ROYALE CONSOLIDATED MINING COMPANY,-The \$1,000,000 stock offered for subscription has been more than taken, and allotments will be made pro-portionally. has been

QUINCY MINING COMPANY.-It is reported the management has under consideration the build-ing of an electrolytic plant at Houghton.

Ing or an electrolytic plant at Houghton. TOLEDO GROUP.—Frank J. Lyons, of Butte, who has had a lease on the Toledo group of mines, near Sheridan, has purchased a 30-ton smelting plant, and had it shipped to Sheridan, and from there he will have the machinery moved to the mines, says the Anaconda Standard. Quite a large force of men are at work building the room for the mill, the foundation is laid, and Mr. Lyons thinks that within 60 days the smelter will be in operation. MINNESOTA

#### MINNESOTA. (From Our Special Correspondent.)

HINNESOTA. (From Our Special Correspondent.) Ter shipments are exceedingly heavy, there being daily receipts at Duluth from the Mesabi Range daily receipts at Duluth from the Mesabi Range doubt 800 cars, or 20,000 tons, over the Duluth, where the Duluth & Iron Range docks last weet baded 45 vessels, the greatest number in its history. The average capacity of the craft was about 3,000 tons; one of these cargoes was 5,500 tons. Freight rates are still low, and capacity for August has been on the market at 50°. a ton, which state of a flairs the most of. Shipments from other and lower lasts out about 700,000 tons so far this year. The coal strike has bindered shipments of ore to send their boats to Duluth without coal cargoes us du the docks are well filled with ore. This estimated that the recent very heavy rains for states than \$80,000 and some of them have not yet supported to the desabiand Vermilion ranges for states to railways were considerably more than the shafts are not cleared of water. Contain the shafts are not cleared to the state states than the shafts are not cleared to the the shafts are the state to a strike has binderes to the state the state state. State the shafts are not cleared to the state the state state the shafts are not cleared to the state state the state state state the nore state state the state state states and these of incorporation, and those of its subsidiary ining and transportation company has the subsidiary to the state the state state head quarters al and transportation the state to a flates the states to the

along. Surveys are being made by the Consolidated Iron Mines for a railroad track from its line at Hibbing to the Pillsbury property, but the line will not be built this rear

to the Pillsbury property, but the line will not be built this year. The largest cargo of ore ever carried on the lakes was taken from Duluth last week by the schooner *Polynesia*; it was 6,134 tons. The largest cargo car ried on Lake Michigan was taken last week from Escanaba, and was 5,520 tons. There is renewed talk of an independent railway line from Duluth to the ranges; this time the rumor mentions Franklin Rockefeller, of the Franklin group on the Mesabi, and the Zenith, on the Vermil-lion, as the projectors. There is probably nothing to it. to it

to it. The county of St. Louis, finding it necessary to raise its assessed valuation about \$18,000,000, in or-der to get the amount in taxes required and to meet the deficiency created by the reduction in assess-ments in other lines, proposes to put an increased valuation on mines, much to the mine owners' dis-gust. Earnest protests are being made and it seems as if the disgracefully large sums demanded by the county will be scaled down to within hailing dis-tance of reason. IRON-MESABL RANGE.

#### IRON-MESABI RANGE.

Explorations have been going on near the old town of Mesaba, at the eastern end of the range, where the first discoveries were made, but where no good ore had been found. It is known that there is ore there, but the iron runs low, though it is very free from phosphorus.

BIWABIK BESSEMER COMPANY.-At the Biwabik mine 200 cars of ore are shipped daily; with two shovels in the ore 10 hours a day. The stripping goes on rapidly.

CINCINNATI IRON COMPANY.—Considerable ex-loring with the diamond drill is to be carried on at this property.

GENOA IRON COMPANY.—In one day recently 75 nen left work here to go to the harvest fields of the Jakotas, and there is a scarcity of men at all mining camps.

MAHONING ORE COMPANY.—The big shovel at this mine is loading with ease about 6,000 tons a day, and has so far cost the company a phenomenally small amount for repairs and refittings. Slipments from this mine are very heavy, and stripping is going to construct the stripping is going on constantly

#### IRON-VERMILION RANGE.

CHANDLER IRON COMPANY.—This company has laid off its night crews, there being so much off coming out of shaft that the stock piles could not be reduced as fast as was desirable.

PIONEER MINING COMPANY.-This company has about 350 men at work, and is mining and shipping very rapidly.

#### MISSOURI.

JASPER COUNTY. (From Our Special Correspondent.)

JOPLIN ORE MARKET .- The past week was gener

ally an active one in mining circles considering the very hot weather, and the sales show an increase of two carloads of zinc ore and one car of lead ore over the preceding week, and compared with the corresponding week of 1896 there was an increase of 11 cars of zinc ore.

very not weak of zinc ore and one car of lead ore over the preceding week, and compared with the corresponding week of 1896 there was an increase of 11 cars of zinc ore.
The price ef zinc ore was weaker on all grades except top grades, which held steady at \$23 per ton for four carloads of Joplin ore, and for the Alba product. Oronogo, Springfield and Stott City products from 50c. to \$1 per ton. Lead ore started in at \$22.55 per thousand pounds, and by Friday was advanced to \$22.55, and the week closed firm at that figure. The price of lead ore for the last three weeks has advanced \$1 a week. The same week of last year there was a general advance of \$1 per ton to \$21.50, but the Scotio ore sold at \$23 and one other lot \$22.50, several buyers bidding for these products. Lead ore dropped 50c. to \$15.50 per thousand pound less than it brough the past week of this year. There is only a very small surplus of zinc ore in the district, and about 1,500, 600 lbs. of lead ore that is held at \$25 per 1,000 lbs.
The sales of lead and zinc ore for the week ending July 24th, 1847, are as follows: Joplin zinc, 1,151,650 lbs; lead, 226,000 lbs; value, \$17,580. Carterville zinc, 1,002,710 lbs: lead, 179,020 lbs; value, \$16,689. Webb City zinc, 639,950 lbs; lead, 60,670 lbs; value, \$25,98. Value, \$33,601. Aurora zinc, 555,000 lbs; lead, 20,000 lbs, value, \$425. Oronogo zinc, 231,000 lbs, value, \$33,601. Aurora zinc, 555,000 lbs; value, \$300 lbs, value, \$43,601 lbs; value, \$200 lbs; value, \$46,460 lbs; value, \$300 lbs, value, \$46,460 lbs; value, \$300 lbs, value, \$43,600 lbs; value, \$46,460 lbs; value, \$300 lbs, is and \$300 lbs; is ad \$300 lbs; value, \$4,460 lbs; value, \$300 lbs, value, \$300 lbs; value, \$46,460 lbs; value, \$300 lbs; value, \$300 lbs; value, \$43,600 lbs; value, \$43,600 lbs; value, \$400 lbs; value, \$40,000 lbs; value, \$40,000 lbs; value, \$43,600 lbs; value, \$43,600 lbs; value, \$32,000 lbs; value, \$43,600 lbs; value, \$3000 lbs; value, \$3000 lbs; value, \$43,600 lbs; value, \$3000 lbs; value, \$3

GREAT WESTERN MINING COMPANY,-At this ine on Turkey, east of Joplin, they took out 5,000, of lead ore in two hours recently. This is the st record since the Hell Upon Earth Company Leadville Hollow took out 14,000 lbs. of lead ore in four hours

Hoo Hoo MINING COMPANY.—At their mine on the Becky Sharp lease this concern made another big strike of pebble jack, through the accidental cavel in an old drift. Two hundred tubs of the caved drift made five tons of zinc ore, and at the spot where it caved a large face of ore is exposed to view. This is luck pure and simple.

view. This is luck pure and simple. INTER-URBAN MINING COMPANY.—A lease on 40 acres of the Richards land, three miles west of Joplin, is now held by this company. There are quite a number of prospect shafts going down on the lease, and several have struck pay dirt. Bodine & Company, at 62 ft., have opened up a 12-ft. face of zinc ore. Fifteen feet of zinc ore-bearing dirt has been developed in seven drill holes, and shafts, are being sunk on each of these drill holes.

MEESE & COMPANY.—This firm has leased 80 acres of Reed's land, about a mile northeast of Jackson Station. There are some 20 prospect shafts going down, and five are producing lead ore, one raising over 5,000 lbs. in 9 hours holsting. The ore is found from 35 ft, to 90 ft, down.

PARKER & ANDERSON.—A good strike of rich zinc ore-bearing ground was made last week on the Or-chard lease, three miles west of Joplin. The strike was made at 122 ft. in the bottom of the shaft, and they are still sinking in pay dirt. They only com-menced to sink the shaft about eight weeks ago.

PORTER & STILLWELL.—They are getting out enough dirt at their pump shaft on the Rexland to keep the plant running steadily five days out of the week. Their turn-in last week was 15 tons of zinc ore for 2½ days' run.

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ore for 2½ days' run. SHORT CREEK MINING COMPANY.—The company is composed of P. H. Leddy, Will and Albert smidt, of Galena, Kan., and Richards & Conover, hardware merchants of Kansas City, Mo. They haveleased 70 acres of the Porter land, adjoining the Reed land. P. H. Leddy is the superintendent. The company is draining the land with an 8-in. lift pump. There are about 50 prospect shafts going out pay dirt, and make turn-ins every week. The ore is found from 19 to 85 ft. down, in open ground, and water is scarce. The first turn-in was made May 1sk, 1896, and every week since they have turned in from one to two carloads of lead ore, and are piling up the crushed ore for a plant. Sweet HEART MINING COMPANY.—A lease has

SWEET HEART MINING COMPANY.-A lease has been signed on 40 acres of the Reed land, about a mile north of Jackson Station. There are about 30 prospect shafts going down on the lease, several of which are hoisting pay dirt, and are making weekly turnins. There have been several new strikes made every week for some time. The ore is found from 25 to 95 ft. below the surface, in open ground with very little water. with very little water.

WONDER MINING COMPANY.--On the Beckwith & (ompany's lease this company is hoisting rich lead dirt and producing 20,660 lbs, of lead ore weekly.

#### MONTGOMERY COUNTY.

(From Our Special Correspondent.) HAUGHTON & JONES BROTHERS, —They have opened up a large body of ore in open ground, and have a lease on several of the old town lots on the Wright land at Belleville. They sank a shaft on new ground to a depth of 65 ft., have put up a steam hoist and will take out pay dirt soon.

INEX MINING COMPANY.—At the old Germania shaft on this company's lease east of Joplin, they are hoisting good lead ore and fine dirt, and as the ore is free they clean the dirt on hand jigs They produce about 10 tons of zinc ore and 3,000 lbs. of lead ore weekly. One pump drains the mine and furnishes water to wash the ore.

MCKINLEY COMPANY.—This company's pump re-cently broke down, and this accident has shut down all the mines on the lease. It will be some days before the pump will again be in operation, as it had to be sent to Holyoke, Mass., for repairs. MONTANA.

#### BEAVERHEAD COUNTY.

GOLD DREDGING COMPANY.—The heaviest piece of machinery ever hauled here was the new dynamo for this company. It weighed 13,600 lbs.

#### CASCADE COUNTY.

SNOWSLIDE.—The entire output of the Snowslide, about 12 tons a day, will be handled by the smelter at Great Falls. Arrangements have al-o been made to care for the increased productions from the Nei-hart and Barker mines, all of which, together with what is now arriving from Fort Steele, should keep the smelter busy all the year.

#### DEER LODGE COUNTY.

DEER LODGE COUNTY. GOLD RING.—Messrs. Mentor Wetzstein and Lee Eisenberg, of Livingston, have taken a six months' lease and bond on this claim. The bond is for \$150,-000, of which \$2,000 was paid down. Some English capitalists are behind the bond. The property is a promising claim adjoining the Mayflower, for which W. A. Clark gave a quarter of a million dollars. The same parties are interested in the Sunrise claim, which adjoins the Gold Ring.

MAMMOTH.-The management is putting in a new boiler preparatory to further development, and outlook is excellent. The Mammoth mill has b outlook is excellent. The Mammoth mill has been running on ore from neighboring mines, but will soon be run for the Mammoth mine as the ore already in sight is sufficient to supply the stamps for some time. All the way down from Coloma to Bearmouth there are miners at work. The mines in First Chance Gulch, a tributary to Bear, are ship-ping ore. The indications are that this tributary of Missoula will become one of the richest sections of the State.

#### GRANITE COUNTY.

GRANITE GOUNTY. TACOMA PROSPECT.-Col. C. W. Griggs and W. Rust, manager of the Tacoma smelter, left here this week after an inspection of this mine, which is situ-ated three miles from Royal and 12 miles from the Northern Pacific Railroad. Mr. Rust decided while away to join Colonel Griggs, A. G. Foster and W. H. Fife in purchasing and operating the property. It is a free-milling proposition running about \$20 to the ton on an average. Four veins have been opened on the surface, running 16 to 30 in. in width at a depth of 20 ft., and growing wider with depth. Work has been in progress for eight months. A tunnel is now being run which will strike one of the veins at a distance of 125 ft. It is intended to put in a 10-stamp mill at once, and the owners be-lieve that development will result in finding an ore body sufficient to run 100 stamps. LEWIS & CLARKE COUNTY.

#### LEWIS & CLARKE COUNTY.

LEWIS & CLARKE COUNTY. BELL BOY.—An important strike has been made in this mine, which is owned by Samuel Word & Sons. The mine has been idle several years, but was recently pumped out and some prospecting was done, with the result that a vein of free-milling ore running from \$15 to \$50 a ton has been uncovered. It is the intention of the management to run the ore through the 60-stamp Empire mill and to discon-tinue, for the time being at least, work on the surface rock. The latter carries good values, but is not nearly so high grade as the rock taken from the Bell Boy. Bell Boy.

#### MADISON COUNTY.

MADISON COUNTY. ALKI.—According to the Anaconda Standard stock in this mine is being offered in the East, with a prospectus which speaks of the claim as being a recorded one, 1,500 ft. long by 600 ft. wide, title good and all work done necessary to secure a patent, with a 300-ft. tunnel crosscutting a vein  $2\frac{1}{2}$  ft. wide, but the main vein has not been opened and is 3 or 4 ft. wide. Then the circuiar goes on to tell of the neces-sary amount of work that must be done before it will be on a paving basis. In telling of its good qualsary amount of work that must be done before it will be on a paying basis. In telling of its good qual-ities further on the circular states "that by sink-ing the shaft 200 ft. deeper without doubt the same vein of ore will be struck as is now being worked by the Kennett Mining Company in the Kennett mine. It also states that during the past year the property has been relocated and taken in a third vein that is from all appearances richer than the other veins, thus making the property at least one-third more valuable." valuable."

CLIPPER.—The cyanide plant at Pony is about completed and ready for work. The process will be under the supervision of Morris & Field, who will run the tailings at the Clipper mill, as well as treat certain kinds of ore from the Clipper group of mines. The owners, Elling & Morris, are now em-ploying about 30 men on their properties.

LongFELLOW.—Having secured a lease and bond on this mine located near Rochester, the Montana Smelting and Mining Company will immediately

put it in shape for working. New machinery, adequate to extend the shaft to a depth of 600 ft., has been ordered and a tunnel is to be driven to tap the lead at a depth of 900 ft.

the lead at a depth of 900 ft. LUCKY DREAM.—A good strike is reported in this mine in the Mayflower District, which is under bond and lease to McMillan, Williamson and others, of Butte. The claim is owned by Lacaille ard others. It is near the Mayflower—across the gulch. The new strike is a 9-ft. vein of ore somewhat similar to that found in the Mayflower, and the re-turns from the assay office run over \$60 per ton. BOULL & REALY GROUP The public at this

Rough & READY GROUP.—The mill on this group of mines, on North Meadow Creek, has begun dropping its stamps. The owners have a large body of free-milling ore to work on. The property belongs to Fred B. Alley and others.

property belongs to Fred B. Alley and others. STEINER.—Armed men patrol the Steiner mine at Sheridan, the property which, by reason of the fact that a number of people desire to possess it, has al-ready become famous. This property, which was discovered only recently,lies in the open flat just east of Sheridan. It is supposed to be very rich—suffi-ciently rich to justify the prospective long legal battle for its possession. It is located on patented ground, now in the possession of Mrs. Caroline McKay, of this city. The patent is about nine years old and the statutory time for mineral reversions expired some four years ago, but certain citizens of Butte, who have recently acquired Steiner's rights, con-tend that the title may be set aside. SUNBEAM.—Peter Coyle and Peter Clifford have

SUNBEAM.—Peter Coyle and Peter Clifford have taken a lease on this property, near Sheridan.

taken a lease on this property, near Sherham. WATSEKA.—The parties who have lately secured a lease and option of purchase on this mine in the Rochester mining district are at work getting the property ready for active operation. A new double compartment shaft will be sunk and the necessary machinery to do the work has been ordered.

#### NEVADA.

#### STOREY COUNTY-BRUNSWICK LODE.

STOREY COUNTY-BRUNSWICK LODE. CHOLLAR MINING COMPANY,-Shaft No. 1 has been sunk 12 ft. on the incline during the week; total depth, 992 ft. The bottom is in porphyry. On the 300-ft. level, are extracting ore from above this level, and understoping in the winze, below which con-tinues to look the same. On the 400-ft. level-are cutting out a winze station in the end of the south drift from No. 1 east crosscut, preparatory to start-ing a winze in the ore below this level. The stopes continue to yield about the usual quantity and quality of ore. On the 500 ft. level-advanced No. 2 west crosscut 16 ft.; total length, 50 ft. The last 19 ft. has been through solid quartz of low grade. The face is still in quartz. Have discontinued the main south drift and started west crosscut No. 3 opposite east crosscut No.5 and 52 ft. south of crosscut No 2. It is now in 16 ft. The face is in quartz and porphyry that gives low assays. Have sunk the winze fair assays. On the 600-ft. level--the main south drift has been advanced 34 ft.; mak-ing its total length 168 ft. from the north line. The face is in quartz and porphyry giving low assays. Have extracted and shuped to the Neveda mill face is in quartz and porphyry giving low assays. Have extracted and shipped to the Nevada mill during the week 102 tons and 750 lbs. of ore, assay-ing as follows: Top car sample, gold \$77.77. ounces fine silver 18'07; wagon sample, gold \$24.48, ounces fine silver 25 fine silver 25.

#### STOREY COUNTY-COMSTOCK LODE.

OPHIR MINING COMPANY.-The latest weekly of-OPHIR MINING COMPANY.—The latest weekly of-ficial letter says that on the 1,000 level, west cross-cut No. 3, 125 ft. north of the shaft station, is in 171 ft. The face is in porphyry, seams of clay and lines of quartz, which assays 50c. per ton. In the old Central tunnel ground from the sill floor from the west crosscut from the Mexican shaft, at a point 132 ft. in from its mouth, the south drift has been extended 12 ft.; passing through porphyry and quartz, assaying \$1 per ton; total length 140 ft.

quartz, assaying \$1 per ton; total length 140 ft. OVERMAN MINING COMPANY.—The latest weekly official letter says that the output of ore from the mine for the week amounted to seven mining car-loads, of the average assay value of \$41.25 per ton. This ore was extracted from small streaks, which are being followed above the north drift on the 900 level. There is no change in the appearance of these streaks, which are likely to furnish a fair quantity of good ore for some time to come. The mine was in operation five days only, as no work was done on July 5th. When there is a sufficient accumulation of Overman ore it will be worked at the Brunswick mill.

the Brunswick mill. POTOSI MINING COMPANY.—The latest weekly official letter says that the south drift from the top of the uprise, 100 level, has been driven 12 ft. for the week; total length, 48 ft.; face in porphyry. On the tunnel they carried the upraise above No. 2 cross-cut up 6 ft.; total height, 63 ft.; top in heavy ground. A large part of the week has been occupied in re-pairing the shaft and in dead work at different points in the mine, including the hoisting of ore stowed on the tunnel level. They hoisted during the week 74 tons and 750 lbs. of ore, together with 112 tons and 400 lbs. of ore already in the bins. The Nevada mill has started to work. The average bat-tery san.ple of two samples was: Gold, \$3.34; sil-ver, fine ounces, 12.76. SAVAGE MINING COMPANY.—At the annual meet

SAVAGE MINING COMPANY.—At the annual meet-ing, July 15th, the old management was unani-

mously re-elected, with George R. Wells as presi-dent, E. B. Holmes, secretary, and H. M. Gorham, superintendent. The latest weekly official letter says that the south drift from the top of the upraise above the 500-ft. level attained a total length of 14 ft., the face being in quartz giving low assays. The usual repars are being made to the main shaft. In the company's ground on the Brunswick lode shaft No. 1 was sunk 10 ft. on the slope during the past week; total depth, 980 ft.; the bottom is in porphyry. On the 600-ft. level the north drift from the station was advanced 19 ft.; total length, 78 ft.; the face is in porphyry and seams of quartz. No work was done in the mine July 5tb. UNION CONSOLIDATED MINING COMPANY.-At the annual meeting in San Francisco last week, the old management was re-elected for 1807, with Charles H. Fish as president, Charles Hirschfield, vice-president; E. L. Parker, secretary, and D. B. Lyman, superintendent.

YELLOW JACKET MINING COMPANY. -The latest YELLOW JACKET MINING COMPANY,—The latest official report says that the repairs to the engine at the main shaft of the mine have been wholly com-pleted, and men have been put to work making re-pairs wherever necessary on the 1,000 and 1,100 ft. levels. It is expected by the management that the latter work will be completed by August 1st, and that everything will be in shape at that time to re-sume prospecting on those levels at points where there are good indications for finding ore.

YELLOW JACKET MINING COMPANY.—At the an-nual meeting in Goid Hill, Nev., last week, all the old officers were re-elected for 1897. W. E. Sharon is superintendent of the mine.

#### NEW JERSEY. MORRIS COUNTY.

MORRIS COUNTY. New JERSEY IR ON MINING COMPANY.—The com-pressor house at this company's Hurd mine, near Port Oram, was destroyed by fire July 21st. The blacksmith shop, carpenter shop and the hoisting engine-house, being at some distance from the burning buildings, were saved. The three large boilers were saved by running water through them during the fire. Besides the loss of buildings, two driving engines, three air compressors, the dynamo, crusher and the separating machinery were de-stroyed. The fire threw about 100 men out of em-ployment, as the Hurd mine cannot be operated without the air drills, which were supplied by the three air compressors. The company has another engine-house at the mouth of the mine and the pumping engine is in this building, so that the mine can be kept free from water. The buildings will be rebuilt at once. rebuilt at once.

#### NEW MEXICO. GRANT COUNTY.

GRANT COUNTY. TREASURE MINING COMPANY.—This compay is sinking the main shaft upon the Atlantic vein, and a depth of 417 ft. has been reached. Drifts will be started when the 425-ft level is reached. The new concentrating machinery at the mill is working well. The tailings are said to only carry \$1 per ton a dapth of 417 ft. bas been reached. The new ad-dition to the plant cost about \$6,000. Under the old system the ore was crushed by stamps and then run over amalgamating plates, which saved a con-siderable percentage of the free gold; the residues the concentrates thus obtained being shipped to the smelter. The new process employed for the recov-prover build and the values saved being in the concentrates. The ore is passed through a tor ore free of gangue rock are extracted; the remain-ing material is then recrushed under stamps to be again concentrated on Glipin County bumpers, the again concentrates are shipped to the server proved that is then recrushed under stamps to be again concentrates are shipped to the server build be bumpers passing over Wilfley metal. The concentrates are shipped to the silver tailings from the bumpers passing over Wilfley metal. The concentrates are shipped to the silver build be a concentrate and build of the remaining metal. The concentrates are shipped to the silver to the stamp of the precentrates are shipped to the silver to the stamp of the precentrates are shipped to the silver the stamp of the precentrates are shipped to the silver the stamp of the precentrates are shipped to the silver the stamp of the precentrates are shipped to the silver the stamp of the precentrates are shipped to the silver the stamp of the stam TREASURE MINING COMPANY,-This compay is

## SOCORRO COUNTY.

SOCORRO COUNTY. (From An Occasional Correspondent.) The Magdalena Mining District is situated about 30 miles west of the Rio Grande River, in the Mag-dalena Mountains, and is fast coming to the front as one of the gold-producing mining centers of New Mexico. The formation of the district is porphy-ritic, mainly andesite, rhyolite and trachyte. The mountains rise from the table land to a height of high range is found the great gold-bearing zone. This zone is marked by a series of dikes, traversing therange parallel to its strike, from north to south. These dikes are in formation composed of trachyte, alternating with felsite. Along the flacks of the point is the strike, from borth to south. These dikes are in formation composed of trachyte, alternating with felsite. Along the flacks of the point is to the strike, from borth to south. These dikes are found rich mineralized streaks of crys-tallized quarts, carrying as high as \$6,000 in gold per ton, though the average value is but \$12 per ton. The gold is free-milling. The mineralized streaks from to 6 tt, wide. Development consists of shafts sunk on these mineralized streaks, from by local companies, founded on the develop-ment plan. So far the principal claims worked in the camp are the Mogul, Gold Star, Philadelphia. DREGON. (From An Occasional Correspondent.)

#### OREGON.

#### BAKER COUNTY

BONANZA MINE.—Dispatches from Baker City say that the sale of this mine has been consum-mated, and the papers signed. The price paid was

\$750,000, and \$50,000 was paid down. Half of the re-mainder is to be paid in 30 days, and the balance in 60 days. The purchasers are John M. Patterson, of Pittsburg; George Crawford, of New York; N. P. Hayes, of Philadelphia, and J. S. Wallace, of Den-ver. Albert, Louis, Emma, Edward and Franz Geiser had been the owners of the Bonanza for the last six years. Prior to that time it was operated by James Steele, cashier of the First National Bank of Portland. of Portland

by James Steele, cashier of the First National Bass of Portland. COLUMBIAN.—The Columbian ledge is in a slate formation. This quartz lead can be traced on the surface for 2,200 ft. At the extreme northwest end of the ledge the footwall is as well defined as it is in the workings below the surface. Two lots of ore were milled from the very surface of this vein that ran \$12.50 per ton. The incline shaft is 250 ft. long. Including drifts there is not far from 1,000 ft. of development work on this mine. From the surface to a depth of 150 ft, there is a fine vein of gold ore exposed. The average width of the ore is not less than 3 ft. At a depth of 75 ft. a drift was run over 200 ft. to the northwest in good ore all the way. This mine has over 20 ft. of water in the bottom of the shaft. Below the depth of 150 ft., where it was thought the shaft had left the vein, while putting in wall plates, more ore was found in what was supposed to have been the footwall. Mill tests on all the ore in this mine, excepting that in the 75-ft. level, which is the best, was \$15,20 and \$15,40 per ton in gold. ton in gold.

level, which is the best, was \$15.20 and \$15.40 per ton in gold. FLAGSTAFF.—A recent 14 hours' run on ore taken from the lower level resulted in a clean-up of \$1,000. The mill runs on an average of from 12 to 14 hours per day. The main incline shaft follows the ledge at about a 55 dip for 700 ft. This would bring the bottom of the incline to a vertical depth of 574 ft. below the surface. There is ample ore to keep the mill in operation for years, and from the 200-ft. level to the surface the pay ore is from 12 to 18 in. thick. No effort will be spared to obtain more water. To that end sinking will be continued until sufficient water is obtained to run the mill continually. The collar of the Virtue shaft being only 3 ft. lower than that of the Flagstaff, there is good reason to believe that an ample supply of water at about the same depth ; still the conditions that produce water in one mine, even in the same opeculiar features of the surrounding formation. The mine is equipped with a 10-stamp mill, with a spaceity for 10 additional stamps; a 60-H. P. en-gine, and Snow pumps, which give ample power to sink at least to a depth of 1,000 ft. There are 30 men on the pay roll. About 20 of these are actually en-gaged in underground work. The company is com-posed of French capitalists, and in the purchase of claims, the erection of a plant and development they have expended over \$320,000 in Bakeer County in a little over one year.

#### GRANT COUNTY.

DEADWOOD CLAIM.—James Beeson & Company are working two hydraulics on this claim, with very satisfactory results. George Snadderly has a claim on Deep Creek Gulch, which he is operating successfully. 9 Pr

ELK CREEK.—Sloan & Haskell are still piping on heir Elk Creek placer. This mine has made sevtheir Elk Creek placer. T eral clean-ups this season. their

eral clean-ups this season. LINCOLN NELSON CLAIM.—In the Susanville sec-tion, in the northern part of the county, unusual activity is noticeable in the mines. Especially have the placers taken on an air of prosperity. Though the water season has been short, the amount of gold taken out will by far outstrip that of any previous year. It is estimated that over §100,000 has already been secured. Among many of the promising properties is the claim of Lincoln Nelson, in Union Gulch. This claim has just been opened, and is paying well. The mine will soon be equipped with a hydraulic plant and all modern appliances for placer mining on a large scale. RAMBO.—This placer company has suspended

RAMBO.—This placer company has suspended operations owing to scarcity of water. The clean-up went \$10 to the man.

#### SOUTH DAKOTA

#### LAWRENCE COUNTY,

LAWRENCE COUNTY. ANNIE CREEK.—Rich uranium ore has been dis-covered in this district by Messrs. Von Davier and Herman Reinbold. Development work will be be-gun at once, as a contract is to be closed with an English syndicate that will take \$25,000 worth of uranium each year. Some of the ore is said to run \$150 in uranium to the ton. and

150 in uranium to the ton. BEAR LAKE.—This Black Hills property is show T. L. Mc BEAR LAKE.—This Black Hills property is show ing up in a very encouraging manner. T. L. M. Kinnon, of Lead. S. Dak., who has recently returne from a thorough examination of the region, says th whole district is now staked out, that some tri shafts are down 20 ft., and that silicious ore runnin from \$12 to \$200 to the ton has been taken out. ore running

LITTLE BLUE MINE.—This property, on Yellow Creek, is now shipping steadily to the Deadwood and Delaware smelter at Deadwood. The average value is \$60 in gold per ton, and the consignments run to \$12,000 a month. In the east drift a chute of ore 8 ft. by 6 ft. and of high grade has been struck.

TORNADO.—From a very small beginning the Tornado has grown and prospered, and in its develop-ment has been found to be one of the valuable min-ing properties of the Black Hills. Upon the ground which covers this mine the bustling town of Terry flourishes, and it receives its largest support from

#### JULY 31, 1897.

the Tornado. There is a wide vertical chute of ore, the depth of which is not known. It has been pene-trated to a depth of 300 ft, and enough ore is in sight to keep the mine running for many years to come. The ore averages \$30 per ton, and it is worked by chlorination process. A main shaft, 230 ft, in Fantail Gulch, near Terry, is used in working the mine. Out of this shaft about 200 tons of ore are taken daily and shipped to the reduction works at Deadwood, owned by the Go'den Reward Com-pany, which is also the owner of the Tornado. A free-milling ledge, which extends up through the quartzite formation in this mine, has been discor-ered. The vein of free-milling ore is very large and runs \$12 gold per ton. UTAH.

#### UTAH.

## (From Our Special Correspondent

(From Our Special Correspondent.) Last week there was but little work in Utah mines, save such as was absolutely necessary, for nearly everybody was in Salt Lake attending the Pioneer semi-centennial jubilee. At Tintic, where there is no trouble from water, the big mines closed down the last three days. It would seem that fully half the population of Park City and Bingham were in the metropolis of Zion, while Fish Springs and all other camps sent large delegations. Though this is not the place to dwell on the 50th anniversary of Utah's settlement, it can be sald, in a word, there never was a more successful historic celebration in the West, nor one more generally participated in. For a week it was a continuous holiday, all busi-ness and cares being thrown to the winds, while foremost among the participants were mine-owners and miners.

#### IRON COUNTY. (From Our Special Correspondent.)

# (From Our Special Correspondent.) OPHIR.—On the 105 level the vein shows seams of high-grade ore, from which picked samples return from 500 to 2,500 ozs. silver and \$10 to \$18 gold, A carload shipment will be made before the middle of August, that will be the most valuable rock ever sent away from State Line District. There are not as many men in the camp as the pioneers of last year expected this summer, but considerable busi-ness-like mining is on foot.

SULPHIDE.—J. A. Anderson has taken a \$25,000 bond for 18 months, binding himselt to do not less than 1,000 ft. of development before the expiration of the year and a half. He states that it is his in-tention to test the worth of the ground without loss of time. of time.

#### JUAB COUNTY.

## (From Our Special Correspondent.) TINTIC SHIPMENTS.—For the week ending July 24th : Bullion-Beck, 20 cars; Centennial-Eureka, 3 cars; Uncle Sam, 6 cars; Mammoth, 5 cars; Ajax, 4 cars; North Star, 4 cars; Gemini, 18 cars; the fore going lots were ore ; Eureka Hill, 12 cars concen-trates; Dragon Iron, 20 cars, hematite, for fluxing.

tratès; Dragon Iron, 20 cars, hematite, for fluxing, EARLY HARVEST CONSOLIDATED MINING AND MILLING COMPANY.—EAPly Harvest, Comstock and Victor lode claims, in Fish Springs District, compose the realty. Main shaft is down 150 ft., exposing a good vein carrying gold, the only one in the camp, some of the ore running \$30 to over \$100 gold. Gener-ally the ore is carbonates and galena. Work is to be started again in a week. Capitalization, \$300,000; shares par, \$1. Officers and directors: T. R. Cutter, president; William Racker, vice-president; John Roberts, secretary-treasurer; J. J. Thomas, J. A. Thomas, L. W. Brown, Thomas Austin, all of Lehi, Utah.

HOMESTAKE.-About 16 days ago the contractors HOMESTAKE.—About 16 days ago the contractors on the shaft gave up their contract, owing to an increased flow of water. Further exploration will not be long delayed, for, if the management cannot make a satisfactory new contract, the shaft will be extended by the company.

SIOUX MILL.—Last week the run on Star Con-solidated low grade was finished, and it is said to have given the most thorough satisfaction to the owners. The mill is now treating Sioux and Utah ore and the outlook for having plenty of products to handle is flattering.

SMUGGLER.—Immediately north of the Godiva, B. N. C. Stott has uncovered a showing of orein the Smuggler. He intends to carry on some sys-tematic prospecting in this ground.

#### SALT LAKE COUNTY.

#### (From Our Special Correspondent.)

(From Our Special Correspondent.) BINGHAM LEAD AND SILVER MINING COMPANY. —This is a recent incorporation, with capital stock of \$150,000 divided into shares of \$1 par value. Officers and directors: M. M. Freed, president; C. M. Freed, vice president-treasurer; C. W. Freed, sec-retary; L. D. Freed, Carl S. Schmidt, R. H. Carr. The realty consists of No 10 and '92 lode claims, from which shipments have been made. Explora-tion is in progress and is to be continued through-out the season. out the season.

LEVANT.—A quarry was opened in May, on a face of limestone, to obtain suitable rock for the founda-tion of the Highland Boy mill, in which an ore seam is exposed carrying gold, copper and lead values. It is of sufficient promise for further pros-pecting. This claim is owned by Governor Wells and Hebre Case pecting. This c and Heber Case.

NorrH LAST CHANCE.—Recently several impor-tant changes have taken place, resulting in a fair profit rather than a loss in mining and milling lead-silver low grades, of which there is a huge store. Superintendent J. P. Turner, wherever possible, is

doing everything by contract. The experiments with the Hodge jig have demonstrated that it does better work on this ore than the Frues; so the vanners are to be discarded, and sufficient jigs will be put in to increase the mill tonnage from 35 to 100 per diem. A new boiler, soon to take the place of the present one, will add greatly to the efficiency of the mill. As mined the ore runs 4% to 8% lead, 2 to 5 oz. silver. It is concentrated 10 into 1, making a \$40 to \$60 smelting product. The old workings in other portions of the property are being cleaned out, to reach bodies of low grade neglected in the bonanza days when the Last Chance was a large shipper of rich ore. PETRO.—Last week a lot of 100 tons of heavy

shipper of rich ore.  $P_{ETRO.}$ —Last week a lot of 100 tons of heavy carbonates was sent forward, the first for a con-siderable period. This will help out the Bingham July shipments, which will probably prove to be the smallest of the year when the figures are made up.

#### SUMMIT COUNTY. (From Our Special Correspondent.)

McINTOSH SAMPLER SHIPMENTS.—For the week ending July 24th, total pounds, 1,537,670; made up of ()ntario No. 1 ore, 224,000; Silver King, 474,480 ore, and 838,320 lbs. concentrates.

ONTARIO-DALY.-Everything appears full of promise for these two properties, operated under one management, which means fair prosperity for Park City. The majority of the employees voting on the question of accepting the proposed cut in wages, about 16%, decided the matter affirmatively, without calling in outside counsel. As given in last week's Engineering and Mining Journal the votestood 205 "aye" to 159 "nay." The only conces-sions made by the management are the reduction of board at the company boarding-house from \$7 to \$6 a week, and surface carmen are to receive \$2.50 a shift, in lieu of \$2.25, as proposed. Under the new schedule, to take effect August 1st, the wages are the same as those paid in other Utah camps. The Ontario. Daly & Marsac mil gives employment to \$00 or 900 men. From August 1st a full force will be at work, and in addition to the mining of a large ore tonnage extensive exploration will be carried on. VALEO.-What may prove to be an important

tonnage extensive exploration will be carried on. VALEO.—What may prove to be an important find was made a few days since in sinking the winze from the upper workings to the lower tunnel. At 90 ft, below the upper tunnel, or 160 ft. from the surface, copper ore running well in gold was met. Its extent is not known, but is being proven. Owners of adjoining ground are as elated as the Valeo folk, and it looks as though there will be considerable systematic prospecting done by them.

#### TOOELE COUNTY. (From Our Special Correspondent.)

BRICKYARD.—Substantial ore reserves are being blocked out, giving assurance of a handsome, steady output when active mining is the order of the day. This ground is to be worked, probably, as part of the Golden Gate, and an electric tram will convey the mineral to the top of the big mill. All the De Lamar mines will contribute to the 800 tons per diem this plant is to cyanide.

diem this plant is to cyanide. GOLDEN GATE. -- Excavation for the foundation of the mill was begun July 21st. It will be 390 ft. long by 300 ft. wide, extending from the east shaft to the top of the first ridge, and will completely change the aspect of that corner of the camp. Every available man is being set to work. Next week, when the masons start on the foundation, Contractor Rhodes states it will require 3 carloads of sand per diem to keep things moving on time. LA CIGALE.-- Operations underground were stopped last week while the gallows frame was erected above the main incline. To-day fire is under the boilers, the hoist is doing duty and development is resumed. Work on the 5½ mile pipe line from Ophir Canyon is being rapidly pushed. Some minor alterations are being made in the mill, which will probably be ready for the initial run in about a moth.

MERCUR.—August will see the mill entirely com-MERCUR.—August will see the mill entirely com-plete, so far as 1897 plans contemplate. The last addition of 10 tanks, making 47 in all, received their first charge of ore a few days ago. The intent of the management is rather to obtain a more perfect extraction, by allowing longer leaching, than to in-crease the amount treated. From 275 to 300 tons a day will be put through, according to the character of mineral cyanide.

of mineral cyanide. MERCUR WEST DIP GOLD MINING COMPANY.— This is a new company with 250,000 shares of a par value of 50c. each. The incorporators are: Arthur Murphy, A. B. Jones, B. T. Lloyd, of Salt Lake; E. P. Lynch, of San Francisco, and C. L. Prebble, of Mercur. The realty consists of nine claims in the West Dip portion of the Mercur area. There are 50,000 shares set aside for treasury stock. NORTH DAISY.—Last week H. E. Cary and E. A.

50,000 shares set aside for treasury stock. NORTH DAISY.—Last week H. E. Cary and E. A. Benson purchased an undivided  $\frac{5}{16}$  interest from C. H. Schen, J. B. Thompson and Capt. W. C. McFar-land, on basis of \$100,000 for property, consisting of 2,250 ft. along apex and three claims, or 1,800 ft. deep. The other owners are A. H. and L. R. Mayne. This means another incorporated West Dip Company, and probably a cyaniding mill, the construction of which would be under way before winter. Some of the best auriferous mineral of the Mercur area, carrying \$16 to \$35 gold, was exposed in the 400-ft. incline recently. The North Daisy shows large bodies of easily leached cyaniding products.

#### THE ENGINEERING AND MINING JOURNAL.

WASHINGTON. KING COUNTY.

Steps are being taken to impress upon Congress the requirements of Seattle in the way of an assay office. It is claimed that the city is losing much by not having the government tests for establishing the values of gold brought from Alaska made there.

#### PIERCE COUNTY.

GIG HARBOR.—The story of a placer strike near Gig Harbor, 10 miles from Tacoma, reached that city lately. The report is to the effect that a Mr. Peacock struck pay dirt that yielded the extraor-dinary return of \$3 to the pan in gold dust. The exact location of the new diggings is a little way from the road between Gig Harbor and Purdy, and about four miles beyond Gig Harbor.

#### STEVENS COUNTY.

STEVENS COUNTY. EUREKA CAMP.—People are flocking to this new camp by the score every day. The only trouble is to secure locations. Persons owning claims which are largely useful for town site purposes are afraid to allow building, as it is government land and res-ervation land as well, and they fear it may in some way jeopardize their rights. Mines can be devel-oped cheaply, as tunneling costs about \$3 a foot and for stoping where the vein is 6 to 10 ft. wide the cost would not be more than \$1 a ton. Work has just been commenced on several claims, among which are the San Puel, the Admiral, the Lone Pine and the Tenderfoot. Arrangements are being made to work the Jim Blaine, the Quilp and others. Work on the Black Tail is progressing and the property is showing up well. WYOMING.

#### WYOMING.

#### CARBON COUNTY.

KEYSTONE MINE.—Colonel Cecil Morgan, who represents the English buyers of the Keystone, has, it is reported, been instructed to close the deal. The capacity of the mill will be enlarged from 25 stamps to 100 stamps. The same interests have se-cured a bond on the Holy Terror mine at Keystone for 60 days. for 60 days.

#### FOREIGN MINING NEWS.

#### AFRICA

#### TRANSVAAL.

TRANSVAL. WITWATERSRAND GOLD PRODUCTION.—The out-put of the Witwatersrand mines for June was 251,-529 crude oz. gold. This is the highest ever re-ported, exceeding the June production for May by 3,224 oz. It is greater by 57,889 oz. than that for June of last year. For the half-year ending with June the production in crude ounces has been as below for three years nagt: below for three years past:

1895,           January	1896. 148,178 167,018 173,952 176,707 195,008 193,640	1897. 209,832 211,100 232,166 235,698 248,305 251,529
Total	1,054,503 860,431	1,388,430 1,132,959
This table shows the gradual	recovery f	rom the

depression following the political troubles of 1895-96. ASIA.

#### INDIA.

COLAR GOLD-FIELD OF MYSORE.—The returns of the four leading companies in this field show the following production of gold for the half-year end-ing June 30th:

1896         1996           Ounces         Ounces           S.9.04         38,904           Mysore         .52,197           Nundydroog         .21,177           Ooregum         .53,587	1897. Ounces 60,492 59,224 26,199 28,073
Total 149 165	173 022

#### AUSTRALASIA. NEW SOUTH WALES.

BROKEN HILL PROPRIETARY COMPANY.-This company's statement for the four weeks ending June 24th shows a total of 28,151 tons of ore treated. The output of the refinery shows a pro-

duction for the four weeks of 406 oz. gold, 629,435 oz. of silver, 1,589 tons of soft lead, and 45 tons of hard or antimonial lead. In addition there was produced copper matte, the assayed contents of which amounted to 39 tons of copper and 43,486 oz. of silver. The total production of silver for the four weeks was therefore 672,921 fine oz. This com-pany sets a good example in always reporting its production of precious metal in fine ounces and not in crude bullion.

#### TASMANIA.

TASMANIA. MOUNT LYELL MINING COMPANY.—For the four weeks ending July 1st there were 5,274 tons of ore treated, two furnaces running through the month and the third furnace 7½ days only. The product was 372 tons matte, the contents of which were 212 tons copper, 16,684 oz. silver and 1,181 oz. gold. The average result showed 402% copper, 318 oz. silver and 0.21 oz. gold per ton of ore treated. The matte produced carried 57% copper.

#### CANADA.

CANADA. Montreal despatches say that the Dominion De-partment of the Interior has received applications from a number of persons who desire to lease por-tions of the Saskatchewan River and dredge for gold in the sand at the bottom. It is understood that the ministry, after carefully looking into the matter, has decided to grant these leases under stringent conditions. One of these conditions is that a royalty on all gold brought up be paid to the government. After advertising the Stewart River, in the Yukon country, as open to tender for dredg-ing for gold, and several offers had been received, the department has decided that it would not be right to hand over the gold in that river without a proviso for a royalty, and therefore no contract has been awarded.

## BRITISH COLUMBIA-EAST KOOTENAY DISTRICT.

BRITISH COLUMBIA—EAST KOOTENAY DISTRICT. (From Our Special Correspondent.) CANADIAN PACIFIC RAILWAY, CROW'S NEST PASS RAILWAY EXTENSION—The details of this new route to open up Southern Kootenay have been nearly completed. The determination of the Cana-dian Pacific Railway Company to reach the Ross-land mines is very strong, and to do so at the earliest opportunity arrangement will doubtless be made with the Columbia & Western. The extension of the route to Rossland as well as to Nelson has been fully decided upon. The further extension of the road to the Boundary country is a matter for future consideration. In all probability Nelson is to be-come Canadian Pacific Railway headquarters in Kootenay. Kootenay.

#### BRITISH COLUMBIA-SLOCAN DISTRICT.

AMERICAN BOY.--The recent strike of 18 in. in the face of the main crosscut tunnel in this mine has widened out to about 3 ft. Two feet of this is clean ore, the balance being concentrating.

ATHABASCA.—This mine has now 25 men at work getting out ore. Two carloads of 20 tons each are to be shipped to the smelter soon. BRITISH COLUMBIA—WEST KOOTENAY DISTRICT.

(From Our Special Correspondent.) DOMINION GOVERNMENT FISCAL RETURNS.-The DOMINION GOVERNMENT FISCAL RETURNS.—The Canadian government returns for the fiscal year ended June 30th, 1897, including the customs re-turns, which have been furnished by Mr. George Johnson, collector for the port of Nelson, give some interesting facts and figures connected with the mineral industry of West Kootenay. These figures being official may be accepted as reliable. The ex-ports during the year from West Kootenay were: Gold, \$2,306,880; silver, \$1,767,643; copper, \$518,515; lead, \$248,421; total, \$4,841,459. As the production of ore and matte in West Kootenay, for the past six months, approximates \$4,200,000, it will be seen that there is a marked increase in the production for the first half of the present year. Le Rot. – Cantain Hall, the superintendent, re-

there is a marked increase in the production for the first half of the present year. LE Rot. - Captain Hall, the superintendent, re-ports the lowest working level of this mine to be at a depth of 500 ft. The principal levels are at 350, 400, 450 and 500 ft. The principal levels are at 350, 400, 450 and 500 ft. The principal levels are at 350, 400, 450 and 500 ft. The principal levels are at 350, 400, 450 and 500 ft. The principal levels are at 350, 400, 450 and 500 ft. The principal levels are at 350, 400, 450 and 500 ft. The shaft itself is a three compartment one, 4 × 5 ft. The great devel-opment began to show itself at the 300 and 400 ft. levels, but is more strongly visible in the 450 and 500 ft. levels, Mr. N. T. Trelgear is in immediate charge of the lower levels. From one of these drifts, commenced only a few weeks ago, ore has been shipped at the rate of 100 tons per day. Ventilation is now good. The compressor runs 3 pumps, 2 hoists and 18 drills, all in connection with the workings of the mine. Calcite is particu-larly noticeable on the face of the west tunnel at the 500 ft. level, which is being extended toward the Big Hear claim owned by the Le Roi Company, and where is located the big compressor, the "Senator." This west tunnel is all in ore. First-class ore consists of nearly massive fine-grained pyrthotite and copper pyrites, sometimes with a lutile magnetite or mispickel with more or less quartz and calcite. The value of this ore is given at \$53.05 net per ton. The bulk of the ore, however, is second class, and it runs from \$27.97 to \$40 The company employs 180 men and it has a pay-

\$49

\$49 The company employs 180 men and it has a pay-roll of \$15,000 per month. Since last September it has expended at least \$100,000 in building improve-ments and machinery and at least a similar amount for labor. The Le Roi has already paid dividends amounting to \$450,000 to date. Its capital is repre-sented by 500,000 shares at the par value of \$5 each, being a total of \$2,500,000.

LE ROI DIVIDEND.—This company declared another dividend of \$25.000 this month, making \$50,000 for July, or \$475,000 in all.

**500,000** for July, or \$475,000 in all. Sr. PAUL.-Mr. George Pfunder, who recently took charge of this property, is pushing the work with much energy. He has found it necessary to make some changes in the plans. The local tra-dition of the camp is that the tunnel had been driven into the rock regardless of the direction of the ledge, though the ledge is plainly in syght but a short distance up the side of the mountain. The tunnel is now being extended in the direction of the ledge, where it is expected the ore body may be enledge, where it is expected the one body may be en-countered. So far there have only been traces of the mineral in the hard diorite found in the tun-nel. Little can be said in favor of the previous management or its plans of development.

#### ONTARIO.

ONTARIO. GOLDEN STAR MINING AND EXPLORATION COM-PANY.—A big deal in Seine River gold properties has been reported closed at Duluth, Minn. Fifty-one per cent, of the stock of this company has been sold to Louis A. Hall and W. H. T. Hughes, of New York. The price paid was \$30,000, which represents the purchase price of the Randolph mine, owned by the company. The new owners intend to push work on the Randolph property at a rapid rate, and will develop new properties. (From an Occasional Correspondent.) MIKADO MINE.—The Mikado mine, which has

will develop new properties. (From an Occasional Correspondent.) MIKADO MINE.—The Mikado mine, which has attracted so much attention to the possibilities of the Lake of the Woods District as a gold producer, was opened up in July, 1896. Work has been pushed for the last 12 months with great persever-ance, and a 20-stamp mill is now ready to commence work on the ore mined. The vein is situated in the contact of the schist and granite. A shaft has been sunk to a depth of 125 ft. and a crosscut of 35 ft. on the 100-ft. level has been made, which proves the vein to be holding its original promising indi-cations. In the month of October, 1896, about 300 tons of the ore were shipped to the reduction works at Rat Portage, and an average return was ob-tained of 2½ oz per ton. The mill has been erceted under the superintendence of the manager, Mr. Theodore Brudenbach. He has had some 20 years' experience in various goldfields, and is a graduate of the Academy of Mines, Herlin. The mill is one of 20 stamps, of Fraser & Chalmers make, the stamps being 850 lbs. aplece. The crusher is also of Messrs. Fraser & Chalmers' Comet pattern. The tailings are to be run direct from the amalgamating plates to leaching cyanide tanks, the concentrates being very heavy. very heavy.

very heavy. YUM YUM.—The diamond drill work which has been pushed under the management of Mr. Burley Smith, has proved so successful that a shaft is to be sunk immediately on this property. The Yum Yum mine is situated near the Mikado, being about one-half mile to the south. Owing to the depression of the money and mining markets in London, considerable work that was contem-plated has for the present been postponed.

#### QUEBEC.

CENTRAL QUEBEC GOLD FIELDS COMPANY .-- This is a newly-incorporated concern, whose aim is to work for gold in the Beauce region. Messrs. James King, W. Yuile, Montreal; J. L. Tache, St. Hya-cinthe; J. P. Tache, Quebec, are its chief promotors. MEXICO.

#### COMOBABI DISTRICT.

DEVINE.—These mines were recently purchased by Frank Morgan and Mrs. J. C. Irwin. Samples of green ore taken from No. 1 mine assayed, it is said, 372 oz. in silver, while the blue ore from No. 2 mine showed a value of 215 oz. silver, and second-class green ore 152 oz. Four different dumps con-tain considerable tale, which carries good values in silver. silver.

#### SONORA

LOS ANIMAS.—Messrs. J. B. Storman and Ricardo Johnson have sold this mine, about 30 miles from Santa Ana, to Mr. E. L. Giroux, recently from Jerome, Ariz. Mr. Giroux has let a contract to Mr. A. L. Pelligrin to run a tunnel 100 ft. on the property. property.

#### (From Our Special Correspondent.)

The Las Higueras & Las Norias niter deposits located about 15 miles from Pesqueris, are sup-posed to be very extensive. Experts estimate there is at least 200,000 tons in sight. George W. Beer-maker, of San Diego, Cal., has obtained a conces-sion for five years to work these mines.

#### MICHOACAN.

YNGUARO.—These mines have, it is said, been purchased by the Boleo Copper Mining Company, of Lower California. The mines are situated in the State of Michoacan, near Apatzingan. SOUTH AMERICA.

BRAZIL. BRAZIL. ST. JOHN DEL REY GOLD MINING COMPANY.-The eport of this company for the month of June shows total production of 3,862 oz. gold, valued at £13,981. The average result was equal to 0.38 oz. gold per ton The

#### BRITISH GUIANA.

Exports of gold for the half-year ending with June were 51,478 crude oz., showing an increase of 2,382 oz., or 49% over the first half of 1896. At the values given the exports this year were equivalent to 43,791 fine oz., or \$905,158.

#### COAL TRADE REVIEW.

New YORK, Friday Evening, July 30. Statement of shipments of anthracite coal (approxi-mated) in tons of 2,240 lbs., for the week ending July 23d, 1897, compared with the corresponding period last year:

-1897 Pennsylvania Railroad...... 68,033 1,805,542 Year. 2,010,695 PRODUCTION OF BITUMINOUS COAL in tons of 2,600 lbs. for week ending July 23d, and for years from January 1st, 1897 and 1896:

	]	1897.	1896.	
Shipped East and North:	Week.	Year.	Year.	
Allegheny, Pa	57.347	1,321,151	1,318,048	
Barclay, Pa	*416	25,438	24,638	
Beech Creek, Pa	*90,792	2,040,790	1,705,174	
Broad Top. Pa	12,092	214,209	245,158	
Clearfield, Pa	109 611	2,536 414	2,804,517	
Cumberland, Md		2,093,281	2,012,319	
Kanawha, W. Va		1,704,691	1,913,618	
Phila. & Erie	881	164,735	39,368	
Pocahontas Flat Top	\$53,950	1,344,157	2,138,422	
Totals	581,960	11,474,866	12,201,162	
		897	1896.	
Shipped West:	Week.	Year.	Year.	
Monongahela, Pa	3,561	734.232	582,481	
Pittsburg, Pa	72,256	1,048,779	1,139 995	
Westmoreland, Pa	82 692	1,155,709	1,118,153	
Totals		2,938,720	2,840,629	
Grand totals	743,469	14,413,586	15,041,791	

Production of coke on line of Pennsylvania Railroad for the week ending July 33d, 1897, and year from January 181, 1897, in tons of 2,000 ths.: Week, 85,532 tons; year, 2,474,115; to corresponding date in 1996, 2,511,808 tons,

t For work ending July 10th. § For two weeks ending July 24th. \* For week ending July 21st. ; For week end-ing July 14th.

#### Anthracite.

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

bituminous region

#### Bituminous.

In the Eastern seaboard soft coal trade the chief interest is centered in the coastwise vessel market. The continued shortage of vessels has advanced freights where the consumer, in most instances, has felt compelled to limit his order to the producer, and it is thought that most of the orders that ne-cessitated prompt shipment have been shipped at the advancing freights. The prevailing south and southwest winds of the past fortnight have at last changed, and it is re-ported that a fair number of vessels are off the mouth of the Delaware and on the way to the Chesa-peake, but no doubt the earlier arrivals will be char-tered very promptly, and it is thought the market will be but slightly affected, and not until later ar-rivals will this happen. It has been noticed by the trade that a number of vessels usually loading coal are now carrying lum-ber. In the Eastern seaboard soft coal trade the chief

There is a fair accumulation of orders from ports east of Cape Cod in the hands of the producers, but most of them are prepared to wait for lower figures; The Sound trade, however, is calling for coal most strenuously, though to a limited extent. These buyers have a choice, at a slight advance, of taking coal from the New York harbor shipping ports in place of that from lower ports, something that they have done to a certain extent during the late dearth of yeasels.

earth of vessels. New York harbor trade is fairly good, consumers New York harbor trade is fairly good, consumers taking their usual supplies and possibly a little in excess. All-rail trade is quiet, most of the con-sumers in this line having slightly increased their stocks on account of the strike scare, and they are now ready and willing to take about the usual amount. Trade local to the shipping ports is quiet. The bunker business is of small extent, In regard to the effect of the strike on the sea-board trade, most operators believe that all chance of it reaching the regions supplying the coal is now over. The difficulty has been confined pretty closely to the region supplying the South and West.

Transportation from mines to tide is fairly good and there are large stocks of coal at shipping points and on the way. This week there has perhaps been some slight reduction in the amount of coal stand-ing in cars at the ports; even yet, however, stocks are much larger than is usual. The car supply is not large, though producers giving good despatch in unloading at tidewater have little difficulty in procuring all the empties at the mines they desire. There are no embargoes on any of the all-rail points. In the coastwise vessel market, vessels are scarce and in good demand. Freights are strong at cur-rent rates, and advancing if anything. We quote current rates of freight from Philadelphia to Bos-ton, 70c.; Salem, 70@75c.; Portland, Providence, New Bedford, and Sound ports, 60c.; Wareham, Portsmouth and Bangor, 75c.; Lynn, 80@90c; Newburyport, 80c.; Dover, 90c. and towages; Saco, 85c. and towages. An advance of 5 to 10 cents may be added to these rates on charters to lower ports. ports.

ports. Prices remain steady and there are few changes to notice. We quote the following general prices : \$1.70@\$1.85 per ton, f. o. b. Newport News; \$1.60@ \$1.90 per ton f. o. b. Philadelphia; \$1.75@\$1.85 per ton f. o. b. Norfolk; \$1.75@\$1.85 per ton f. o. b. Balti-more; \$2@\$2.60 alongside New York harbor.

#### Buffalo. July 29.

#### (From Our Special Correspondent.)

(From Our Special Correspondent.) Anthracite coal is selling slowly at annexed quo-tations. Shipments by lake continue very light at unchanged freight rates. Bituminous coal changes hands only for immediate requirements perding the strike. Buyers hold off for lower rates and dealers are unsettled in their views as to the continuance of strike and visible supply. Coke fairly active, with steady market and stocks fully adequate for trade requirements. Report says that the New York Central Railroad Company has made a contract for the year's supply of soft coal at \$1.20 per net ton delivered at Buffalo and Rochester. News has been received from Niagara Falls to the

the year's supply of soft coal at \$1.20 per net ton delivered at Buffalo and Rochester. News has been received from Niagara Falls to the effect that on Septemeber 1st the Power Company will have one of the new wheels in operation, and on that day it will send another liberal installment of electric power to Buffalo. Other wheels will be ready in October. The quotations on anthracite coal since July 1st are as follows per 2,240 lbs, delivered free on board vessel at Buffalo: \$5,05 for grate and \$5,30 for egg, stove and chestnut: delivered on cars at Buffalo to Suspension Bridge, \$4,75 for grate and \$5 for egg, stove and chestnut. Retail within city limits, de-livered per 2,000 lbs., nominally, \$5 for grate, \$5,25 for egg, stove and nut; \$3,75 for pea. Blossburg sells at \$4 per net ton delivered. Brier Hill region, per 2,000 lbs, in car lots on track Buffalo \$3,25 for lump. No. 1 Cannel, per 2,000 lbs, in car lots on track Buffalo \$4,50 per 2,000 lbs. Bituminous coal is unsettled; entirely nominal; quotations omitted. Coke per 2,000 lbs. in car lots on track Buffalo Reynoldsville, \$2,80@\$3.00; Connellsville, \$3,90@ \$4. The shipments of coal westward by lake from

Toke per 2,000 line can be a solution of the second solution of the

Sault Ste. Marie, 1,100 tons to Manitowoc, 5,675 tons to Kenosha, 500 tons to Bay City, 3,100 tons to Han-cock, 73 tons to Alpena and about 10,000 tons to mis-cellaneous ports by vessels first clearing for Tonawanda.

#### Pittsburg.

July 29

(From Our Special Correspondent.) (From Our Special Correspondent.) Coal.—Since our last there was a large rise, and a small coal shipment followed, aggregating 1,500,000 bu., shippers general, y are disposed to hold on to their coal waiting to see how the strike will terminate. Many of the mines at various points are running full, the miners refusing to join the strikers. The West Virginia miners refuse to quit work; they are well paid and well treated, and seem to know a good thing. Virginia has been a sad dis-appointment to the strike managers. Great efforts have been mads to bring out the Fairmont District mines, but it was a complete failure. The mines of the New York & Cleveland Gas Coal Company are still running; the men decline to come out. The coal market is steady, the supply fully up with the set gas, and will continue until the strike is set-tled. Present prices of coal are for slack 85c. a ton; run of mine, railroad coal, \$1.25@\$1.50 a ton; river coal, 360.5½c. a bushel. At Uniontown. Pa., two weeks ago the customers were eagerly scrambling for coal and bidding prices up, while operators picked their customers. Now demand for coal has sbrunk to such a degree that the operators are begging for customers. Tonnellsville Coke.—A big increase in produc-tion and shipments is shown. The report of the (From Our Special Correspondent.)

demand for coal has shrunk to such a degree that the operators are begging for customers. Connellsville Coke. – A big increase in produc-tion and shipments is shown. The report of the coke trade for last week shows 11,275 ovens in blast and a production of 113,740 tons, heing the largest output since the early weeks of 1896, and almost un-precedented for the season of the year. There are indications that the trade will continue to increase. The shut-down of some of the iron mills bas not had any noticeable effect on the iron and coke trades so far, and it will likely be over before any material harm can be done. The coal strike may cut more of a figure in the coke trade than the wage disagreements, and may probably result in the ever, the trend of the trade in the region is toward an increase, and it is probable that the active list of ovens will be further increased. There are now but 7,100 idle ovens in the region, and last week's output shows an increase of over 8,000 tons. The earson account of the increased fun in the coal sumers for West Virginia fields and the lower end of the Connellsville region. In the running or-der 2,001 ovens made six davs, 7,912 ovens five days, 2,805 cars; shipments were: To Pittsburg, 2,805 cars; shipmed West, 2,475 cars; sent East, 1,305 (From Our Social Correst of the increased of the Social Correst Day 28.

#### Cleveland.

July 28.

July 2.

**Creveland.** July 28. (From Our Special Correspondent.) That all danger of embarrassment by reason of the strike of coal miners is past for the manufactur-ers of Cleveland is the belief of the coal operators and shippers of this city. A member of the firm of M. A. Hanna & Company said to day that there was plenty of coal in the city at the present time, and the probabilities were that the West Virginia oper-ators would for ward a large quantity of fuel into the city before the operators came to an agreement in Pittsburg. It was reported yestarday that slack, which is used by a number of manufacturies of this credited by some of the larger dealers, who claimed that the story originated with bulls. From all that can be learned from reliable sources it seems that the coal situation in Cleveland is much easier than it was last week. It was reported early and compelled to close down its wire department on account of a scarcity of coal, but upon investigation it was found that a scarcity of coal was only in-cidental in connection with the shut-down, as the company has coal standing on a sidetrack. **Shangha, China.** July 2. (From Our Special Correspondent.)

#### Shanghai, China.

(Special Report of Wheelock & Co.)

(Special Report of Wheelock & Co.) **Coal.**—Owing to continued drought in Japan, the usual meaus of transporting that coal from mine to ports of shipment are rendered useless, and only small boats can now navigate the various rivers where hitherto large carrying lighters were used. Consequently Japan coal arrives in very limited quantities and thus commands enhanced prices, 65.50 f. o. b. being the quota'ion for ordinary kinds; this has neutralized the anticipated fall in prices, owing to rates of freight having declined, and coal has gone up in value as freights have come down. Ohnoura has been dealt in from first hands at 6 taels, ex.godown, and altogether a good business has been done during the past fortnight. There were no transactions in Cardiff coal, and Australian We quote prices as follows: Cardiff. 13 taels per

were no transactions in Cardiff coal, and Australian Wollongong remains quiet. We quote prices as follows: Cardiff, 13 taels per ton; American anthracite, 9 taels per ton; Sydney Wollongong, 8 taels per ton. Japan coal is 575 taels for Takasima lump, 5 taels for Namazuta lump, 575 taels for Miiké lump, and 6 taels per ton, with an upper tendency, for other sorts. Arrivals for the fortnight under review had an aggregate of 19,405 tons.

Kerosene Oil.-In American oil all business of a speculative nature has been put to an end by the arrival of some 260,000 cases of Devoe's, which have

thoroughly replenished stocks, and teashop trans-actions have been principally confined to taking delivery of previous purchases; sales were small. From first hands of ships to arrive sales have been put through to a considerable extent, and about 150,000 cases have been placed for September, Octo-ber and November clearance. All stocks of Cometoil have been cleared off. Stock in godowns amounts to 228.562 cases. Arrivals aggregate 256.789 cases of Devoe's. In Batum oil small sales of Anchor brand are reported at 1:50 taels. Stocks of all Russian kinds amount to about 280,000 cases. There was an arrival recently with 135,000 cases. Anchor brand oil. Stocks of Langkat amount to 63,000 cases. Quotations are as follow per case: American De-voe's, 1:56 taels; Comet, 1:53 taels; Russian Batum, Anchor chop, 1:50 taels, and horse chop, 1:45 taels; Russian Batum, bulk, 1:40 taels per two tins; Langkat, 1:40 taels.

#### **IRON MARKET REVIEW.**

#### NEW YORK, Friday Evening, July 30, 1897 Pig Iron Production and Furnaces in Blast.

		Week e	anding		From	From	
Fuel used.	· July 31, 1396.   July 30, 1897	uly 31, 1396.   July 30, 189			Jan., '96.	Jan., '97	
Anthracite. Coke Charcoal	F <sup>°</sup> ces. 39 130 23	Tons. 24,100 155,950 6,600	F'ces. 23 107 15	Tons. 12,750 150,359 3.25)	791,740 4,846,162		
Totals	192	186,659	145	166,350	5.892.828	5,083,136	

Coke150157150.251151.251152.251165.261112.352Total192186.600113186.3535.892.8285.083.183The advent of prosperity in the iron trade, for<br/>to be still further postponed. The volume of husin<br/>neas for the week has been nonderate, and there<br/>does not seem to be any immediate prospect of an<br/>increase. It is true that there has been some in-<br/>quiry for raw materials, but it has not been of a<br/>pressing nature at all; rathere has been does not seem to be any immediate<br/>deliveries, but are trying to see how far they can<br/>secure themselves for the future at low prices. The<br/>foundrice generally are not over-busy, and comolain<br/>of low prices and difficulty in collections. Forge<br/>iron is a drug in the market, buyers being almost<br/>entirely absent. What little activity is shown is<br/>among the steel men, and they are quite ready to<br/>hust or flow the second one in stocks of raw iron since<br/>Janary is rather depressing: and the fact that<br/>the torease of 100.000 tons in stocks of raw iron since<br/>Janary is rather depressing: and the fact that<br/>the these will remain low. In this respect it is<br/>still a buyers' market and sale-agents know that<br/>any attempt to raise quotations is useless. Good<br/>orders are not plenty enough to be refused, and are<br/>just now only to be secured by lidding a litle below<br/>the current rates. Bessemer pig is selling below §9<br/>per ton at Mahoning and Sheanango Valley furnaces,<br/>and steel billets at §14 in l'ittsburg are st a corre-<br/>sponding price. In foundry irons there are no fixed<br/>to sole are made on private terms—which means<br/>the bas cut under the nominal quotations.<br/>The inshed material the conditions are very sim-<br/>line. Demons of the second which marked the months July-<br/>Othe sale are made on private terms—which means<br/>to bo second and recease

Our views of the market may seem somewhat gloomy, but we believe that they are based upon the actual condition of affairs. Such a view is not

a popular nor an agreeable one at any time. It is a much pleasanter task to write of a rising market than of a falling one; and should the future dis-prove our present forecast, no one will be better pleased or more ready to chronicle the new pros-perity of the trade.

#### New York. July 30.

New York. July 30. Sales-agents report that business has fallen off considerably this week as compared with June. They state that although prices have softened some-what, buyers are still holding off. Conservative members of the iron trade tell us that the present quotations cannot continue very much longer, as they are on rock bottom and a reaction must conte. The Tariff Bill is settled, and it is expected confi-dence in business will soon be restored and the de-mand for iron and steel increase. A little difficulty is now being experienced in filling orders for prompt delivery. Many of the mills are cleaning up and in consequence there is hardly any material being stocked up to meet the demand. It is believed, however, that some of the mills will soon resume operations. Of the contracts taken we note one for 7,000 tons

operations. Of the contracts taken we note one for 7.000 tons of steel rails for Mexico and another for 500 tons for the Manhattan Elevated Road. In structural ma-terial there was a contract awarded a Pittsburg mill for 2,300 tons for a new structure, for offices and for the printing establishment for the New York Life Insurance Company. There was also a contract for 350 tons of material which went to a local concern. The Lukens Iron and Steel Com-pany recently shipped several carloads of plates to Mexico.

Mexico. We learn that the Illinois Steel Company, which received a contract from the New York Central for structural material some time ago, recently had it

received a contract from the New York Central for structural material some time ago, recently had it increased. We understand that a Western Pennsylvania firm has contracted to deliver this season's supply of hoops for a large concerage plant, aggregating 6,000 tons. A sale of 1,000 tons of wool bale hoops was also made this week. Recently a few contracts were taken for bridge work, and among these we note those awarded to the Wrought Iron Bridge Company. of Canton, O., for steel girder bridges over Onondaga Creek at Seymour and Temple streets: the former. \$4.832, and the latter, \$4,054. There will no doubt be more work in this line, as the recent rain has probably demolished several bridges up the State. In the export trade we understand that there has heen a good movement in electrical material from this port, many of the forelar continue to go for-ward in small lots, while mining and other machin-ery shows an increase over last week. Among those to receive mining implements are Cape Town, Delagoa Bay and Surinam. To Cape Town there were also shipped 300 bundles of bar steel, valued at \$2,075, and 1,806 pieces of iron pipe, valued at \$2,231. Four cases of iron pipe, valued at \$2,231. Four cases of iron pipe, valued at \$2,311 cases of hoop iron went to Alexandria, in Africa. A quantity of steel billets, valued at \$5.614, was sent to Antwerp. Begium. Honolulu, in the Hawaiian Islands, recently ordered Iron pipe valued at \$3.85, which went for which went to vake its share of our manufactures, and among the recent shinments we note 1,571 pieces of iron pipe, \$2,887 worth of steel rails, beside several vantities of railroad material and three locomo-tives; also 24 tons of pig iron, all of which went to Vakohama. Yokohama

Exports of ferro-manganese continue to be made,

I okonama.
Exports of ferro-manganese continue to be made, and the latest noted are 48 casks to Fiume. Austria, and 33 casks to Trieste. in the same country. It may be said that the Carnegie Steel Company is making these shipments principally.
The Ordnance Company of Bridgeport, Conn., has received a contract for three 40 knot torpedo-boats from a South American government. The exact destination of these torpedo-boats has not yet been given out, but it is supposed to be the Argentine Republic. The Backus & Johnston Company, of Lima, Peru, is said to have been purchasing consid-erable mining machinery and equipment in the United States. The first heavy shipment is to be made to day on the steamer Finance It is reported that the Mexican Southeastern Railroad has just signed a contract for 40.000 tons of rails for the first division of the road. For nig fron there continue many inquiries from abroad, but actual business from this source is meager.
Pig Iron.-A moderate business has been done in some brands of pig iron, but taken as a whole the marizet has hear quirt this preat. Some further

Pig Iron.—A moderate business has been done in some brands of pig iron, but taken as a whole the market has been quiet this week. Some further shading of prices is noted, and Northern irons are now quoted somewhat less than last week. South-ern iron, however, remains unchanged in price. Quotations are: Northern No. 1 X iFoundry, \$11.50 (@\$12 per ton; No. 2 X Foundry, \$100@\$11; No. 2 plain, \$10.25@\$10.50; grav forge, \$9.50@\$10; 5 outhern No. 1 Foundry, \$10.50@\$10.75 per ton; No. 2 x \$10@\$10.25; No. 1 soft, \$10.75@\$11; No. 2 soft, \$10.25 (@\$10.50; gray forge, \$9.50@\$10,75; Basic, \$10.50@\$10.75. All prices are for tidewater delivery.
Cast-Iron Pine,—Business has been at a mini-

Cast-Iron Pipe,-Business has been at a mini-mum this week, and prices continue low. Spiegeleisen and Ferro-Manganese,-Local trade continues quiet. Quotations are: Sniegeleisen, 20%, \$19@\$19.50; ferro-manganese, 80% foreign, \$46, delivered at buyer's mill.

Steel Billets and Rods.—The local market con-tinues quiet. Quotations are \$16@\$16.25 for billets at tidewater and \$20, nominal, for rods at mill.

at the water and \$20, nominal, for robs at min. Merchant Iron and Steel.—Business continues rather inactive, and prices continue easy. Quotations are: Common bar, 1@105c.: refined. 1<sup>-1</sup>0/@1<sup>-1</sup>5c.; soft steel bars. 1<sup>-0</sup>0/@1<sup>-1</sup>0c.; steel hoops, 1<sup>-25</sup>@1 35c.; steel axles, 1<sup>-5</sup>0/@1<sup>-6</sup>0.; tire steel. 1<sup>-05</sup>@1<sup>-1</sup>10c.; spring steel, 1<sup>-4</sup>0c., base: links and pins, 1<sup>-5</sup>0/@1<sup>-6</sup>0c.; cotton ties, 60c. per bdl. at mill.

60c. per bdl. at mill. **Plates.**—Business consists mainly of carload lots. We quote for universal mill plates 11000 115c. For steel plates prices are: Tank. 11000 115c.; boiler shell, 1:2000130c.; flange, 13500140c.; firebox, 16000175c., and 2:2502.50c. for locomotive firebox, according to quality, Charcoal iron plates are 2:25c. for shell, 2:75 for best flange and 3:25 for firebox. Rivets are 2:2502:50c. for iron and 1:75001:85c. for steel Prices are for tidewater delivery in large quantities. quantities

Structural Iron and Steel.-A few small orders were taken this week; otherwise the market quiet. We quote for angles, 1:10@115c.: 'tees, 1'2 1'35c.; channels, 1:15@125c. The price of beams. No York delivery, is 1:15c. for ordinary sizes, 1'20c.1 20-in., and 1'25c. for 24-in., carload lots. sizes, 1.20c. for

20-in., and 1.25c. for 24-in., carload lots.
Steel Rails and Rail Fastenings.-Orders are small, and business on the whole quiet. Quotations are \$18,5% (a \$19 per ton for standard sections and \$23 for girder rails. Lighter rails are figured on by a reliable concern as follows: 12-lb. rails, \$26 per ton at mill; 16-lb., \$24, 20 lb., 25-lb, and 30-lb., \$22 per ton. For rail fastenings tidewater quotations are: Angle bars, 1056a1 10c.; spikes, 1456a1 50c.; bolts, 1756a1 85c.; square nuts, 1806a1 85c.; hexagon nuts, 1906a1 95c.

1-900al '95c. Wrought-Iron Pine.—Trade is rather strong at advanced prices. Discounts are as follows : For plain pipe, out of store: 1½ in. and over. 67, 10, 10, 10, 10 and 10%; 1¼ in. and under, 57, 10, 10, 10, 10 and 10%. Galvanized pipe. 1¼ in. and over, 55, 10, 10, 10, 10 and 10%; 1¼ in. and under, 59, 10, 10, 10, 10 and 10%. For fair-sized orders these discounts are made with an additional 5% for less than carload lots. For carload lots this additional discount is 74% to 10%. lots. For a 71/2% to 10%.

Nails.—The wire nail market shows only a moder-ate business doing, and prices remain at \$1.40 per keg for carload lot<sup>o</sup>, and \$1.50(@\$1.60 for smaller quantities. Cut nails are being inquired for in a small way and quotations remain at \$1.30 per keg for carload lots on dock and \$1.40 for less.

for carload lots on dock and \$1.40 for less. Old Material. — With inquiries more numerous, the market is looking better than last week, but dealings are not very active. Sales of steel street rails aggregating 500 tons are reported at \$9.50@ \$10.50 per ton delivered at mill. Iron rails show a good demand for export, but no sales have been made this week. Quotations are : Iron T rails, \$10.50@\$12.25 per ton; steel rails, \$9@ \$10.50. No. 1 wrought scrap iron, \$10@\$11; ham-mered car axles, \$15@\$16 all f. o. b. cars; car wheels, \$10@\$10 per ton, delivered at buyer's works; ma ehinery scrap, \$9@\$10; wrought pipe and tubes, \$7.50@\$8, delivered. New York: wrought turnings, \$8@\$8.50; cast borings, \$6.50@\$7; burnt iron, \$5.50 @\$6.50 per ton, delivered at mill.

#### Cleveland. (From Our Special Correspondent.)

(From Our Special Correspondent.)
Iron Ore.—The change in the market during the past week has been slight, if any at all, so far as sales of ore are concerned. Small lots have been disposed of, some of Bessemer and some of non-Bessemer, but the aggregate of the transactions foots up only a small amount. The following prices prevail: Specular and magnetic ores, Bessemer quality, \$2.50@\$2.75; hematite ores, non-Bessemer quality, \$2.50@\$2.75; mematite ores, non-Bessemer quality, \$2.50@\$2.75; hematite ores, non-Hessemer quality, \$2.60@\$2.75; hematite ores, non-Hessemer doundry froms. The quotations follow: Lake Superior charcoal, \$13.25; Bessemer, \$9.75@\$10; No, 1 Ohio Secte, \$10.40; No. 2, \$9.90; gray forge, \$5.50@\$8.75.

#### Pittsburg.

(From Orspecial Correspondent). Two may be a set of the (From Our Special Correspondent.)

the machinery and rolls are being replaced with better. The Raney & Berger furnace has undergone extensive repairs and is now in success ful operation. The improvements on the Rosena undergone extensive repairs and is now in success ful operations. The improvements on the Rosena furnace are fast nearing completion. When fin-ished it will have a capacity lof 400 tons and will be the largest furnace in the Shenago or Mahoning valley. There are some very encouraging features, and they are important because of their sig-ficance, rather than because of any immediate bene-fits which can be realized. Sample lots of skelp, sheet-bars, wrought iron pipe and other articles which were sent abroad some time ago are now bringing in new orders. There can be no doubt whatever that American iron and steel and the prod-ucts thereof will find much wider markets in the future.

For sheet bars the demand is improving, with

future. For sheet bars the demand is improving, with liberal sales at \$16.75@\$17. For wire nails the market is dull; sales show a slight decline, \$1.25@ \$1.27; an improvement is looked for in the near future. For finished material the demand for small amounts is on the increase; prices are without change, but very low. For iron and steel pipe the demand is improving and prices are looking up; the mills in this vicinity are running full. The Latest.—ine firmness previously noted con-tinues; there has been an increased inquiry for various products. It may be truly said that very extensive operations are being made for the fall and winter trade. The Bessemer sales were the largest for some time. Some of the sales are for monthly delivery the balance of the year. The Shenango and Venango mill men declare that unless the Amal-gamated Association gives them thesame terms ob-tained by the Jones & Laughlins scale of prices they will start non-union inside a week A televeland, O., sales of 70,000 tons billets are re-ported, deliverable the balance of the year, \$13.90, an improvement of 15c, a ton over sales made last week. In sheet bars we note liberal transactions. COKE, SMELTED, LAKE AND BLOOMS, BILLETS, SLABS.

COKE, SMELTED, LAKE AND NATIVE ORE, Tons. Cash. BLOOMS, BILLETS, SLABS 

2,200 Delivered, Pitts. \$16 75 1,550 Delivered, Pitts. 16.50 1,000 Delivered, Pitts. 16.75 800 Delivered, Pitts. 16.85

500 Sheared, Pitts \$1.25 4 m. 400 W. G., Pitts., 1.10 4 m. 380 N. G., Pitts.., 1.10 4 m. SKELP STEEL

900 N. G., Pitts \$0,921/2 4 m 875 W. G., Pitts. 0.921/2 4 m 800 Sheared, Pitts1.10 4 m

STEEL WIRE RODS 1,500 Delivered, Pitts. \$20.00

MUCK BAR. 500 Neutral, Pitts ... \$18.50

BLOOMS, BILLETS, BAR ENDS. 1,010 Bloom & billet ends delivered...\$9.25

FERRO-MANGANESE 100 80% del., Pitts., \$46.00

OLD RAILS AND SCRAP. OLD RALLS AND SCRAP.
 350 C. W., gr., Pitts... \$ 8.50
 3.0 No. 1, W., net.... 11.00
 200 I. R., gr., Pitts... 11.50
 130 No. 1 Cast, gr., P. 8.59
 100 S. R., gr., Pitts... 9,00

(From Our Special Correspondent.) **Pig Iron.**-A fresh attack is being made on Pennsylvania furnace interests by Southern mak-ers and the result up to this afternoon is that quite an amount of Southern iron has been contracted for, for forward delivery, mostly at prices said to average 25 to 50c. under latest quotation for home products. Our people were taken by surprise and are making no effort to meet these prices, particu-larly not in the better and special brands. The buyers say home iron will have to come down, but if it has been shaded, as it is strongly hinted it has been, the quotations given out do not show it. The quotations are \$11 for Besserer; \$14.50 for low phosphorus; \$11.75(@\$12.25 for No. 1 X foundry; \$10.75(@\$11.25 for No. 2 X foundry. Standard mill irons are worth \$10. irons are worth \$10.

Billets.—At last users of billets have deemed it advisable to place orders. They have done so only for small lots, standing stubbornly out for \$16, Large consumers are rather anxiously awaiting ad-vice from their friends at Pittsburg as to what to do

Merchant Bars.—Our mill man have got a hiut that some car building orders are likely soon to be given out. They need such a lift badly, but per-sonal inquiries fail to establish the rumor ms a strong possibility, although most railroad companies are in need of cars. The movement in bars is mod-erate, and prices 1.05@1.10c, for refined steel bars are 1.10@1.15c.

Sheets.—The week's business proves that the larger buyers are placing contracts for later deliv-ery. Small buyers are also purchasing more freely. There is more firmness in prices, though no ad vance.

Pipes.-Pipe work is coming along,

Merchant Steel .- The handlers of merchant steel

Plate.—Within two days a large number of orders have been placed for boiler and bridge plates, some of them of considerable size. The big buyers are submitting specifications, but it will likely be found that they do not intend to contract for all the iron enumerated in specifications. The tone of the market is decidedly stronger, but prices have not been advarced and probably will not be unti-mills are fuller than they are at present. Tan plates are 1'10@1'15c.; universals, 1'15@1'20c.; flange 1:30c

Structural Material.—Bridge work has been coming in nicely for two days, and before Saturday noon some heavy orders will be placed. The sharp competition has resulted in what amounts to a break in prices. Small buyers have shown up sud-denly and want iron before they will all be able to get it. Some big contracts are hanging fire. Steel Rails.—Outpations are \$18,0319. There are

Steel Rails.-Quotations are \$18@\$19. There are no specific statements to be had.

Old Rails.—This week's reports show sales of old iron rails at \$11.50. Steel are quoted at \$10.25 without known sales.

Scrap.—There are sales of cast borings at #6 \$6.50, and of axle turnings at #8.50. Old iron axles are quoted at \$14; choice railroad scrap can be had at \$11.50; heavy steel scrap, \$10.50.

#### METAL MARKET.

NEW YORK, Friday Evening, July 30, 1897. Gold and Silver.

Prices	of	Silver	per	Ounce	Troy

July.	St. Kx.	London Pence.	N. Y. Cts.	Value of sil.in \$1.	July.	St. Ex.	London Pence.	N. Y. Cts.	Value of sil. in \$1.
24 26 27	4 .871/4 4 .971/4 4 .871/4 4 .871/4	271/4 27,3 26%	59 <sup>1</sup> /4 59 58 <sup>1</sup> /2	.459 .457 .453	28 29 30	4.871/4 4.871/4 4.871/4	263% 261/2 267/8	57% 57% 57%	144 .445 .448

The silver market made a new record this week, touching low-water mark on July 28th at 26%d. London and 58%c. New York. This is the lowest since March 3d, 1894, when silver was quoted 27d. in London and 58% in New York. The cause has been the poor condition of trade in the East, and consequent withdrawal of Indian orders, and as there were no Continental or mint orders to sus-tain the market, it broke under rather free offerings for prompt and future deliveries. The market rai-lied to-day on some Japanese buying and specula-tive covering; but these orders being filled it closes weak at 20%d. in London and 57%c. in New York. The United States Assay Office in New York re-ports the total receipts of silver at 60,000 oz. for the week.

#### **Average Monthly Prices of Silver**

In New York and London, per ounce Troy, from January 1st, 1897, and for the years 1896 and 1895.

	18	97.	189	96.	18	95.
Month.	Lon- don. Pence.	New York. Cents.	Lon- don. Pence.	New York. Cents.	Lon- don. Pence.	New Yurk. Cents.
January .	29.74	64 79	30 69	67.13	27:36	59.69
February	29.68	64.67	31.01	67.67	27.47	59.90
March	28.96	63.06	31.34	68.40	28.33	61.98
April	28:36	61.85	31.10	67.92	30:39	66.61
May	27.86	60.42	31.08	67.88	30.61	66.75
June	27.58	60.10	31.46	68.69	30.42	66'61
July			31.45	68.75	30.48	66 75
August			30.83	67:34	30*40	66.61
September			30.18	65 68	30.54	66.90
October			29 68	65*05	30.89	67.61
November			29.46	64 98	30.79	07.10
December.	*******		29.70	65.24	39.40	66 17
Year			30.67	67.06	29.53	65'28

The New York prices are always per fine ounce, III ounce of pure silver; the London quotation is per stand-ard ounce, or for metal '925 fine.

## Gold and Silver Exports and Imports

At all United States ports, June, 1897, and years from January 1st, 1897 and 1896:

1	Coin and bullion.		In c	In ores.		
	Exports.	Imports.	Exports.	Imports.	cess, Exp. or Imp.	
OLD une. 97 96	\$7,623,878 25,000,717 42,935,551	\$650,343 3,715,240 25,189,431	93,188	2.220.314	E. \$6,533,025 E. 19,158,351 E. 17,129,296	
une. 397., 396.,	5,086,863 27,894,9 $0$ 29,927,239	954,882 4,419,889 5,943,743	259.150	2,014,013 10,600,483 8,527,814		

18 SI

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

SKELP IRON.

COKE, SMELTED, LAKE AND NATIVE ORE. Tons. Cash. 12,600 Bess., 2,00° tons a month J'1y to Dice., inclusive, 9100, 1000 B, S., 00, N, P. 9,60 10,000 B, S., 00, N, P. 9,60 2,500 Ress., 00, Val..., 9,10 2,500 Ress., 00, Val..., 9,10 2,000 B, A., S., Val..., 9,10 2,000 B, A., S., Val..., 9,15 2,000 Bess., S., Val..., 9,15 2,000 Bess., S., Val..., 9,16 2,000 B, A., S., Nitzs., 9,55 1,500 Mill Iron, A., P. 8,70 1,500 Mill Iron, P. V. 7, 80 1,000 Bess., A., S., Val. 9,10 500 M, I., prompt, P. 8,25 200 No. 1 Silvery, P. 13,25 100 No. 2 Foundry, all ore, Pitts., 10,00 50 No. 1 Foundry, all ore, Pitts., 10,65 CHARCOAL.

110 No. 3 Fdy., Pitts. 15.00 75 Cold Blast, Pitts. 21.00 50 No. 2 Fdy., Pitts. 15.00 25 Cold Blast, Pitts. 21.50 BLOOMS, BILLETS, SLABS.

BLOOMS, BILLETS, SLOWS,
 Tons. Cash.
 5,000 Bill., A., S., Mill., 814, 40
 3,000 Bill., A., S., O., M. 14, 50
 2,000 Bill., J., A., Mill., 14, 25
 1,000 Bill., J., A., Mill., 14, 25

July 28.

#### Philadelphia. July 30. (From Our Special Correspondent.)

Gold and Silver Exports and Imports, New York For the week ending July 30th, 1897, and for yeart from January 1st, 1897, 1896, 1895, 1894:

1	Gold.		Silv	Total Ex- cess, Exp.	
	Exports.	Imports.	Exports.	Imports.	
We'k 1897 1896 1895 1894	\$2.204.250 27.287.216 40.327.798 35,062.582 80,316,001	\$67.995 2,147.742 17,494,397 24,205,616 10,989,711	22,114,713	1,193,078 1,388,102 1,022,825	K. 33,794.251

Of the gold exported for the week \$1,700,000 went to France, \$500,000 to Germany, and the balance to South America, Mexico and Turks Island; the silver went principally to London. The gold and silver imported came chiefly from Central and South America and the West Indies.

FINANCIAL NOTES OF THE WEEK.

FINANCIAL NOTES OF THE WEEK. The passage of the tariff bill by the Senate and the closely following adjournment of Congress last Saturday cane somewhat suddenly after all. Both were expected, but almost up to the last moment it seemed quite probable that the session might be extended a few days longer. The adjournment cut off all other questions before Congress, and they have gone over until the regular session in Decem-her. Outside of the passage of the tariff bill and a few appropriation bills, practically nothing has been done at this session. It is a relief to most business men, however, to have the tariff settled for a time and to have Congress out of the way, though it is for a few months only. ugh it is for a few months only.

though it is for a rew months only. The long-expected message of the President on the currency question was sent to Congress just be-fore the adjournment. It was brief, and said little beyond recommending the appointment of a com-mission to consider the condition of our currency, and report such measures or such plans of readjust-ment as might seem advisable. Coming at so late a date the message met with very little consideration. The House of Representatives, it is true, passed promptly and without debate a bill authorizing the appointment of a commission as proposed by the President; but the Senate paid no attention to the matter beyond referring the message and the House bill to committee. The general expectation that nothing would be done about the currency at this session has been realized.

In pursuance of the action of the Indianapolis Convention, Mr. H. H. Hanna, chairman of that convention, will appoint a committee to prepare a plan of currency reform, to be submitted to Con-gress next winter. It is announced that the Secre-tary of the Treasury is also preparing a plan to be submitted to Congress.

General business continues quiet, and the out-break of activity, which was to follow the passage of the tariff bill, has not yet made its appearance. The new conditions have been generally anticipated and discounted, so far as speculation is concerned, and they are not just now of a nature to give much encouragement to legitimate business growth.

and they are not just now of a nature to give much encouragement to legitimate business growth.

some months before; in 1879, as in 1897, gold actually left New York for London in midsummer."

It is a singular fact that while gold is going of from New York a considerable amount—about \$ 500,000—is reported on its way from Australia San Francisco under orders from London. The suation at present looks rather mixed. The sit

Imports of specie at San Francisco by water for une and for the first six months of the year were as follows:

Mexico British Columbia Mıscellaneous	17,410	Six mos• \$1,231,948 106,095 37,713
Total In 1896		\$1,373,756 \$1,529,564

For the six months this year there was \$436,591 gold, \$380,908 in bullion and \$49,683 in coin. The silver amounted to \$339,165, of which \$822,834 was in bullion and \$116,331 in coin. This statement in-cludes only receipts by water; a much larger amount comes by rail.

The statement of the United States Treasury, on Thursday, July 29th, shows balances in excess of outstanding certificates as below, comparison be-ing made with the statement for the corresponding date last week:

	July 22.	July 29.	C	hanges.
Gold	\$143,362,909	\$143,471,554	I.	\$108.64
Silver	31,872,478	33,665,593	1.	1.733.11
Legal tenders	27,249,336	28,764,884	1.	1.515.54
Treasury notes, etc	31,671,022	31,873,314	1.	202,29

Treasury deposits with national banks amounted to \$18,300,000, an increase of \$98,273 during the week.

The statement of the New York banks—including the 66 banks represented in the Clearing House—for the week ending July 24th gives the following totals, comparisons being made with the corre-sponding weeks in 1896 and 1895:

	1895.	1896.	1897.
ŧ	Loans and discounts.\$506,176,000	\$471,229,900	\$540,074.600
2	Deposits 570,942,900	493,358,200	622,525,700
\$	Circulation 13,138,600 Reserve:	11,676,700	13,534,600
	Specie 65,297,400	56,231,300	91,377,900
	Legal tenders 119,434,900	85,607,800	111,615,100
2	Total reserve \$184,732,300	\$141,839,100	\$202 993,000
L	Legal requirement 142,733,125	123,337,050	155,631,425
	Surplus reserve \$41,999,175	\$18,502,050	\$47,361,575

Changes for the week this vear were increases of \$5,920,200 in loans and discounts, \$9,258,500 in de-posits, \$146,700 in specie, \$3,492,600 in legal tenders, and \$1,324,675 in surplus reserve; a decrease of \$106,-600 in circulation.

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

		96		97
Banks.	Gold.	Silver.	Gold,	Silver.
N. Y. Asso	\$56,231,300		\$91,377,900	
England	239,400,710		183,092,060	
France		\$250,811,688	403,856,100	\$245,321,900
Germany	217,930,000		235,020,000	
Austro-Hun.	136,210,000	64,294,000	179,720,000	63,407,010
Netherlands.	13,178,000	35,086,000	13,053,000	25,183,000
Belgium	19,209,000	*********	20,454,000	********
Spain	42,028,000	56,811,000	44,597,009	54,448,010
Italy	60,075,000	10,320,000	60,290,000	10,995,000
Russia	451,710,000		483,310,000	*********

rately.

Shipments of silver from London to the East for the year up to July 15th are reported by Messrs. Pixley & Abell's circular as below :

8 8 8	India China	564,612	1897. £2,847,700 100,942	I. D,	£929,122 463,070	
i	The Straits		106,405 £3,055,047	D L	431,127 £31,925	
				1 m 1		

Totals. Arrivals for the week this year were £39,000 in bar silver from Chile, and £137,000 from New York; a total of £176,000. Shipments for the week were £151,000 in bar silver to India.

The demand for Indian Exchange has been strong The demand for indian Exchange has been strong and all the Council bills offered, 25-lakhs-were, promptly taken up at an average of 15'19d, per rupee. The announcement that a new issue of rupee paper would be made was the chief cause of the demand.

The rise in exchange and the resulting fact that order on onding July 29.

gold can be sold in India more cheaply—that is that a greater quantity of gold can be obtained for a given number of rupees—has lead to a considerable sale of gold in that country to native merchants and princes. For the week ending July 17th the ship-ments of gold from London to India amounted to \$1,250,000, or more than in any week for a long time past. past.

#### Prices of Foreign Coins.

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

Mexican dollars Peruvian soles and Chilean pesos	1010.	Asked. .47 .43
Victoria sovereigns		4.90
Twenty francs	3.87	3.90
Twenty marks	4.78	4.80
Spanish 25 pesetas	4.78	4.85

#### Other Metals.

Other Metals.<text>

Tin.—The market was softer, almost throughout the week, in sympathy with the quotations cabled from London, where prices gave way in consequence of the heavy decline in silver, but with the latter improving somewhat, tin, too, regained part of the loss which it had suffered. The market closes with

#### Imports and Exports of Metals.

Dent	Week,	July 22.	Year	1897.
Port.	Expts.	Impts.	Expts.	Impts.
"New York.				
Aluminum, boxes			1,963	
Antimony ore short to				808
" reguluscat				471
Brass, old short to			408	160
Copper, fineiong to		221	23,492	2,960
" malte "	44		4,780	161
" sulphate "	45		4.632	
Ferro-mangan'se "			1.606	55
ron ore	44			1
ron, nig, har, rod "		92	6,736	2,66
" DVri.es "	43			5.57
Lead, antimonial "	**			100
" bullion "	** 746		22,175	45.157
Manganese ore "	4.6			3.54
Nails	4.6		150	
Nickel	** 4	10	775	3
Rails, old "	46		5,785	
Spiegeleisen "	4.6		9.123	11,46
Steel billets, rods. "	** 737	583	14.781	12,200
Tin "	44 8	175	1.127	3,804
" dross	44	1:0	1,141	41.79
" and black plates, boy	Kes	23,381	*******	160.14
Vine long to	008		1,119	100,140
Zinelong to	** 16		1,119	
dross	10	*******	104	******
1§Baltimore.				
Brass scrap		********	1	
Chrome orelong to	1 900	*******	10	5,51
copper, me,	8,400	*******	23,202	2
sulphace	00	*******	1,610	
CITO-1197118511628C	29		3,293	29
rerro-Fincon				6
Iron ore		9,416	****	161,13
" pig, bar, etc. "	*6	*******	180	1,55
Lead	**		120	500
				6,459
				830
Steel "	44	750	2,710	3,250
wirebund	les	381	1,603	8.808
Fin long to	ons 59	411	770	5,744
" and black plates, boy	Kes	95		18,72
linelong to	008		63	48
" dross "	**		129	115,203
'#Philadelphia.				
Antimony	ka			2,71
Chrome ore				30
Copper orelong to				21.91
kerro-manganese "	64			4
Iron ore 44	**			1;9.60
Parter manuffer 65		4,000		1,50
Manganese cre "				76.85
Tin		50		€ 14

New York Metal Exchange returns, †From our Spe-al Correspondent, †† Week ending July 23, ‡Week

spot quoted at 13 90c., futures still remaining en-tirely neglected. In London the market last week closed at £61 178 6d., declined since to £61 74, 6d., but closes to-day at £61 15s. for spot and £62 5s. for three months prompt prompt.

Lead.—The excitement of last week has given way to extreme dullness without, however, visibly affecting values. Consumers still show a good deal of reluctance to enter the market, but refiners on the other hand adhere to the policy of either not quoting at all, or name prices indicative of a fur-ther advance. Consumption, especially in the West, shows an improvement, and with the certainty that at present prices ruling here, lead from foreign ores will have to be exported; and, furthermore, in view of the decline in silver, which will ultimately affect the production of lead unfavorably, it seems as though a higher level would be permanently estab-lished. At the close, offerings, particularly from second hands, are more relentiful than they have been, the best bids being 38%c Lead .- The excitement of last week has

The foreign market has scored another advance, the quotation for Spanish being £12 10s., and for English £12 12s. 6d.

English £12 128, 6d. St. Louis Lead Market.—The John Wahl Com-mission Company telegraphs us as follows: Lead is outet but reasonably steady at the late advance. Missouri brands are selling in a limited way at 365 ( $a3^{+}67^{+}6c^{-}$ , and argentiferous corroding brands at 370c. There appears to be a disposition on the part of consumers to refrain from buving as long as pos-sible and quite a number of them are firm believers that this late boom will not last.

**Spelter** is not quite so firm, the price in New York having receded to 4:30c., and in St. Louis to 4:10c. Production is constantly on the increase, and consumption not nearly sufficient to absorb the sup considerably lower figures than can be large plies, a la ported at realized at home

The foreign market, too, is somewhat easier, closing at  $\pounds16$  18s. 9d. for good ordinary brands, and 2s. 6d. higher for specials.

Antimony is firmer, owing to the fact that no more of this metal can now be imported except on payment of a duty of  $\frac{3}{4}c$ , per 1b. Quotations have advanced to  $\frac{73}{4}c$ , for Cookson's; 7.4c. for Haliett's, and 7c. for Japanese.

Nickel.—Business continues quiet, and no change in prices can be reported. We quote for ton lots 33½@36c, per lb., and for smaller orders 35½@38c. London prices are 14@16d, per lb., according to size of order. The London price is about on a parity with New York, allowing for the duty of 6c, per lb.

Platinum .-- Prices are firm at \$14(@\$15 per oz ew York. The London quotation is 558.@568 New per oz

per oz. For chemical ware, best hammered metal, Messrs. Eimer & Amend, New York, furnish the following quotations, the prices given being respectively for orders of over 250 grams, for orders of over 100 grams and less than 250 grams, and for orders of less than 100 grams: Crucibles and dishes, 54c., 55c. and 56c, pergram. Wire and foil are 52c., 53c. and 54c. per gram. per gram

Quicksilver.—The New York quotation has been reduced to \$39 per flask. The London price is £7 5s. per flask, with £7 2s. 6d. quoted from second hands.

The Minor Metals.—Quotations are given below or New York delivery : or

Aluminum : No. 1, 98% ingots, 2 th. 37 er 4 c. No. 2, 91% " 31 er 34 c. Hosthorus, 2 th. Rolled sheets, " 46c, up Alum.-Nickel, " 35 er 40 c. Variations in sec. Variations in price depend chiefly on the size of

the order.

#### **Average Monthly Prices of Metals**

In New York, for the years 1897 and 1896; in cents per

Month.	COP	PER.	TI	N.	LE	AD.	SPEL	TER.
month.	1897.	1896.	1897.	1896.	1897.	1896.	1897.	1896.
Jan	11.75	9.87	13.44	13 02	3.01	3 08	3.91	3.75
Feb	11.92	10.01	13:59	13.44	3.28	3.19	4.02	4.03
March	11'80	11.03	13 43	13.30	3.41	3.14	4.12	4 20
April	11'48	10.98	13:31	13:34	3:32	3.07	4.13	4 07
May	11.03	11'15	13.44	13.21	3.26	3.03	4 21	3.08
June	11.11	11 67	13.77	13.59	3 33	3.03	4.21	4 10
July	11.11	11.40	13 89	13.63	3 72	2 96	4 32	3.97
August .		10 98		13 49		2.73		3 76
Sept		10.66		13.15		2.77		3.60
October.				12.94		2.80		3.72
Nov		11.23		13 09		2.96		3.99
Dec	*****	11.28				3.04		4.14
Year		10.88		13.29		2.98		3.94

#### CHEMICALS AND MINERALS.

(For current prices of chemicals, minerals and rare ele-nents see page 150.) m

New York. July 30. New York. July 30. Heavy Chemic: Is.—Once more importers and dealers are looking satisfied now that the tarifi business is settled. In many cases prices have ad-vanced in consequence of the new bill, but the arti-cles that are manufactured here still retain their former valuations. For alkali there is a fair de-mand for spot supplies. Bleaching powder is some-

what quiet and the same may be said of the other

what quiet and the same may be said of the chemicals. Quotations generally are about as follows: Caustic soda, 60%, \$2.22%@\$2.42%; 70@76%, \$2@\$2.25 per 100 lbs, Alkali, 58%, 60c.for 50-ton lots and over, and 70@80c. for smaller quantities; 48%, \$1@\$1.20 for johbirg lots. Carbonated soda ash, 48%, 90@95c. per 100 lbs; 55%, 75%80c. per 100 lbs. Bleaching powder, prime brands.\$1.89@\$2: Continental F brand,\$1.85@ \$1.90; other brands,\$1.89@\$2: Continental F brand,\$1.85@ \$1.90; other brands,\$1.89@\$2: Continental F brand,\$1.85@ \$1.90; other brands,\$1.89@\$2: Continental F brand,\$1.85@ \$1.90; other brands,\$1.89@\$2; Continental F brand,\$1.85@ \$1.90; other brands,\$1.80@\$2; Der 100 lbs, 3.90@\$10 per 100 lbs. Content of potas,\$2.90; other brands,\$3.90@\$10 per 100 lbs.

And 1.400-002, in kegs, Childrate of potash, \$3,002,010 per 100 lbs. Acids.—There has been a moderate volume of business done in acids this week. Some mills have made good purchases of oxalic acid, while acetic is moving principally in a jobbing way. Sul-phuric acid has been almost featureless this week. Our quotations show little change. They are per 100 lbs. in New York and vicinity in lots of 50 carboys or over as follows: Acetic acid, commercial No. 8 (in barrels), \$1.40 (@\$1.50: in carboys, \$1.500@\$165: redistilled, 28%, in bbls, \$1.700@\$1.40: in carboys, \$1.900@\$2.05. Muriatic acid, 18°, 75@85c.; 20°, 85@95c.; 22°, \$1.15@ \$1.25. according to make and quantity. Nitric acid, 38°, \$3.500@\$4:40°, \$40.84.50: 42°, \$4.500@\$7.50. Oxalic acid, \$7 ex-dock and \$7.25 ex-store. Mixed acids, according to mixture. Sulphuric acid, 66°, 85c.@\$1 in carload lots, 10@15c higher for small quantities. Chamber acid. \$8@\$6.50 per ton at factory. Blue vitriol, \$4@\$4.25, according to grade and order. Brim-stone.—This market is very dull at present

Brimstone.—This market is very dull at present but prices are not receding. There are four vessels on the water to this port, and they will land about 3,500 tons of crude sulphur. Quotations are \$20.50 for best unmixed seconds and \$19.75 for thirds.

for best unnixed seconds and \$19.75 for thirds. Fertilizing Chemicals.—A satisfactory amount of business has been transacted this week, princi-pally for Southern consumption. Generally speak-ing the market is firm and the tendency is toward higher prices. Quotations are as follows: Sulphate of ammonia, gas liquor. \$2.10 for ship-ment, and \$2.20 for spot: bone. \$2.0% \$2.05 per 100 lbs. Dried blood, high grade Western, \$1.75% \$1.80 per unit New York: \$1.60% 1.65 per unit f. o. b. Chicago. Azo-tine, \$1.70% \$1.75% basis New York. Concentrated phos-phate (30% available phosphoric acid). 57% c. per unit. Acid phosphate, 13% %05%, av.  $P_2O_5$ , 54% 65% c. per unit at sellers' works in bulk. Dissolved bone black, 17% %18%  $P_2O_5$ , \$0c. per unit. Acidulated fish scrap, \$3.53% \$0% \$1.50% \$1.4% \$1.50% \$1.50% \$1.50% renor trated, \$1.35% \$1.40 per unit. f. o. b. Chicago; New York \$18.50: low grade, \$16.50% \$17. Bone tankare, \$19% \$20; ground bone, \$21% \$23. Bonemeal, \$19.50%\$22 50

Sulphate of Potash: 90%, New York and Bos-m. \$1.991/4; Philadelphia, Baltimore and Norfolk, ton.

ton. \$1.99.5; Philadelphia, Baltimore and Norfolk, \$2.01: Southern ports, \$2.03. Double Manure-Salt: Quotations for 48@49%, less than 24% chlorate, are 1.01@1.01%c. to arrive, and 1.02@1.03c, on apot: basis of 48%. High grade, 90@98% sulphate of potash, 1.96%@2.00%c. to arrive; basis of 90%. In bulk 24@36%, 56%@37%c, per unit O. P. Munita of Detech. We custer New York and

basis of 90%. In ours areas, and the process of 90% in our and process of 90% in our and process of 90% in our and process of 90% in the process of 90% in

Nitrate of Soda.—A quiet market ruled this week, but remains firm at 1.671/2c. per lb.

## Liverpool. Ju (Special Report of Joseph P. Brunner & Co.)

(Special Report of Joseph P. Brunner & Co.) The chemical market is quiet generally, while prices are practically without change. Soda ash is rather dull at late rates, Quotations vary considerably according to export market, and range for tierces may be called about as follows: Leblanc ash, 48%, 24 58, 024 108; 55%, 24 104.0424 158, per ton net cash; ammonia ash, 48%, £3 7s, 6d.(a £4; 58%, £3 12s, 6d.(a £4 5s, per ton, net cash. Bags are 5s, per ton under price for tierces. Special terms for American orders. Soda crystals are selling at from £2 7s, 6d. (a £2 17s, 6d, per ton, less 5% for barrels, and 7s, less for bags, according to export markets. Special quo-tations for American busin 28s. Caustic soda is in a firm position and spot range may be quoted as follows : 60%, £6 3s, 9d.(a £6 5s.; 70%, £7 3s. 9d.(a £7 5s.; 74%, £8 2s. 6d.(a £8 5s.; 76%, £6 15s.(a £9 per ton, net cash. Bleaching powder is in retail request and is nom-inally quoted at about £6 12s. 6d.(a £6 17s, 6d. per ton net cash for hardwood packages as to destina-tion. Chlorata of potesh is quiet at nominally 4d. per

tion

Chlorate of potash is quiet, at nominally 4d. per pound.

pound. Bicarb. soda continues steady at £6 15s. per ton, less  $2\frac{3}{4}$  for the finest quality in l-cwt. kegs, with usual allowances for larger packages. Sulphate of ammonia is without special feat-ure and is quoted at £7 16s  $3d.@\pm 3$  ner ton, less  $2\frac{3}{4}$  for good gray  $2\frac{4}{2}$ @25% in double bags f. o b, here, as to quality. Nitrate of soda is retailing at from £7 17s.6d.@  $\pm 3$  per ton, less  $2\frac{3}{4}$ % for double bags f. o b, here, as to quantity and quality. Carb. ammonia, lump.  $2\frac{3}{4}$ @3d. per lb.; powdered,  $3d.@3\frac{3}{4}$  per lb., less  $2\frac{3}{4}$ %.

JULY 31, 1897.

#### MINING STOCKS.

Complete quotations will be found on pages 146, 147 and 148 of mining stocks listed and dealt in at:

muntoff at	Deks listed and dealt	III OU;
n. more. m. 9. bland. Springs. er.	Helena. Los Angeles. New York. Philadelphia. Pittsburg. Salt Lake. San Francisco.	London. Mexico, Paris. Rossland, Shanghai. Valparaiso.
	New York.	July 30.

Asper

Butte Cleve

The local mining market has not been active this week, and business that has been reported was con-fined principally to a few stocks. On the Com-solidated Stock and Petroleum Exchange the Comstocks have shown some fluctuations, and among these Sierra Nevada was most in favor. This stock advanced to \$1.60 from 78c. last week on the strength of some good low-grade ore being found on the property.

stocks have show some fluctuations, and among atocks have show some fluctuations, and among dayanced to \$1.40 from 78c. last week on the strength property. At the Mining Exchange several changes took property is the proposed amondments was to the ex-pany has actual posession of property. This applies especially to the Klondike com-pany has actual posession of property. This applies especially to the Klondike com-pany has actual posession of property. This applies especially to the Klondike com-pany has actual posession of uncertainty in place of 200 instead of 300 as hereitofore. It was also decided to have three calls a day instead of two; at 19.15, 12.15 and 2 o'clock. A new member with a member of the New York Produce Ex-change to 200 instead of 300 as hereitofore. It was also decided to have three calls a day instead of two; at 19.15, 12.15 and 2 o'clock. A new member with, a member of the New York Produce Ex-hange and of the Philadelphila Stock and Petro-teum Exchange. Many applications were received by Among them was the Alaska-Klondike Goldmin-gersith. The secretary of State of Colorado, president. The secretary of State of Colorado, president. The secretary of the company is hegi-alid Paris. Among the directors are: William as a said to be owned by this company, and president. The secretary of the sompany, and president. The secretary of the sompany, is the properties, and in general to act as a trading co-text company for bids on five boats which the own which is considered valuable is near Dawson, Alaska. The object of the stern-wheel type. Among the said heat such ho City.

Alaska. The funds of the company will be deposited at the Knickerbocker Trust Company, of New York City. Another concern which is soliciting subscriptions for its stock to enter into the Alaskan gold venture is the Yukon-Klondike Gold Mining and Trading divided into shares of \$5 each. The president is 2000 John F. Enright is secretary, and Louis A. May, reasure. The announcement is made that this gold, and not for the purpose of selling stocks. The Office of this company are at No. 1 Broad way. Two stocks have been withdrawn from the Mining Exchange list, Eagle and Russell. The former is a Colorado stock which has been in litigation between Dr. William Brandreth and Warner Miller. The latter is a North Carolina property, whose stock outation has been lifted from about 15c. to 52%. Dr. Brandreth, who is treasurer of the Eagle Gold Mining Company, stated that he did not see the justice in eliminating these two stocks, claiming theat the Eagle during September, 1896, had thereated 116 tons of ore at the mill from the first level which showed returns of \$100, or an average of \$8.60 per ton. He further contended that during the same month 75 tons of ore were treated at the Allegheny Mill from the first level also, which showed mint returns of \$100, or an average of \$8.07 per ton. At the end of the morth Dr. Brandreth says the company struck \$300 or an average of \$8.07 per ton. At the end of the morth Dr. Brandreth says the company struck \$300 or an average of \$24.63 per ton. He also said

that William A. Farish made a very thorough exam-ination of the property, and that he handed in a satisfactory report. About the Russell property Dr. Brandreth merely stated that the brokers on the instead of 52%cr, at which the last stocks sold change hands. The Mining Exchange is looking with interest on these ventures, and the fact is that the existence of that institution depends upon the listing of new stocks it is now dealing have transfer offices in New York. It is feared by some that the harmony of the Exchange has been shaken by the recent change of management. However, we shall wait and see what impetus the gold craze in the North will give to speculation.

#### Boston. (From Our Special Correspondent.)

July 29.

July 24.

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#### Salt Lake City.

Sait Lake City. July 24. (From Our Special Correspondent.)
Sup Lake City. July 24. (From Our Special Correspondent.)
King Jubilee has ruled magnificently in Zion of the 50th anniversary of the arrival of the first of the days' gala celebration of the 50th anniversary of the arrival of the first of the semi-rentennial jubilee, on Tuesday, the parades and all festivities fully came up to every reasonable antici-pation, even to the weather, which continued cool and clear throughout. Under such surroundings is not favorable era for active, wild speculation. Provide a day or able era for active, wild speculation. They investors show faith in the favorites and any investors show faith in the favorites and show the to coal transactions last week were found to be coal transactions last week were found yocket money and in many instances a buy on the local transactions last week were fold by pocket money and in many instances and all the best under some down of the local transactions last week were fold by pocket money and in many instances and all the best under some down of the local transactions last week were hold by pocket money and in many instances and all the best under and by are dissipated. The yote the miners on Wednesday to accept the reduce the body of the miners on Wednesday to accept the reduce the body be to accept the reduce and the miners of the weak site is firm and unchanged. Naturally, Ontario weak ender the the miners and silver market, all the days the decision reconsidered. No friction over was inactive and silver favorable y by the distributed by the wise fell off from the same the days for the same and unchanged. Naturally, Ontario weak ender the weak silver market, all the days of the same and silver favorable distributed by the was the decision reconsider (From Our Special Correspondent.)

share owners. There were

There were sales of Sacramento at last week's figures. Little Pittsburg grows in favor and scores an advance. The same is true of Sunbeam, which has moved up to  $8\frac{1}{2}$ c, asked. Of the other stocks

it can be said, generally, they will hold their own and there is nothing of moment to chronicle. There has been a good deal of talk about Ajax, and possibly it is a shrewd guess, that, at the direc-tors' meeting on July 31st, Geo. H. Robinson, Henry M. Ryan and William G. Nebeker will retire from the board, and Col. A. E. Wall, Henry and Clarence McCormick will be chosen.

#### San Francisco. (From Our Special Correspondent.)

July 24.

The market was very quiet at the opening this week and little tusiness was done. The only strong point was in Sierra Nevada, and a general impression that a streak of good ore has really been found in this mine helped matters here consid-

erably. Later there was some improvement. Later there was some improvement, and the week on the whole might be called fairly active. Prices were variable, however; the north end Com-stocks generally showed a little advance at the close over the earlier quotations of the week, but the middle Comstocks declined n little, and the Gold Hill stucks were also off in price. There was no special reason for this in the weekly letters or otherwise, but buyers seemed to take no interest in anything outside of the north end. Outside of the Comstocks there was no business, except a few sales of Standard Consolidated at about \$1.55@\$1.60. and

about \$1,55@\$1.60. Some closing quotations were: Consolidated Cali-fornia & Virginia, \$1.35@\$1.40; Confidence, \$1,15; Sierra Nevada. 96@98c.; Chollar, 75@76c.; Ophir, 70@71c.; Best & Belcher, 42@43c.; Gould & Curry,

34(a.3):c. The Cadmus Gold Mining Company of Nevada County has levied an assessment of 5c. per share, delinquent August 23d. The annual meeting of the Eureka Consolidated Drift Mining Company has been called for August

Drift Mining Company has been called for August 5th. The delinquency in office of the assessment of 2½c, per share on Thorpe Gold Mining Company stock has been postponed to July 31st, and the day of sale to August 21st. A despatch from the office of the Consolidated Galiornia & Virginia Mining Company states that the output of the mine this week amounted to 31 to of ore of the average assay value of \$34.49 per ton. The output for the previous week was 35 tons of the average assay value of \$38.75 per ton. The ore now being taken from the mine continues to come chiefly from narrow streaks, which are being followed in working upward from the end of the sill floor of the 1,650-ft. level.

#### London.

July 20.

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

Sonora, Mexico, belonging to J. M. Zepeda and ac-quired by L. H. Manning and Brewster Cameron, of Arizona. No independent report is given of the property nor are the claims specified. The company is promoted by Todd & Stormont, of London. The capital is £100,000 and the purchase price £80,000, mostly in shares. The directorate is not particu-larly influential and the issue of the prospectus has no effect on the London market.

#### July 11.

#### Paris. (From Our Special Correspondent.)

The past week has been one of few events, and there is very little to be said of the stock market In fact, the only changes of moment have been in other departments, chiefly in that of foreign securi-

ties. The African gold stocks are stronger than they have been for some time, and are supported by a continued increase in production and reports of ap proaching reforms and economies in management. The disposition of French holders to sell has been checked a little, though many sales are still being made quietly. made quietly.

The second secon

IMPORTS: Food Raw materials Manufactures	. 1,195,162,000	1897. France. 414,756,000 1,220,337,000 309,897,000
Total		1,974,993,000
EXPORTS: Food. Raw materials. Manufactures Postal parcels	. 411,465,000 903,649,000	334,014,000 470,862,000 945,691,000 82,427,000
Total	.1,707,417,000	1,832,991,000

141.996.000

The decrease of 40,522,000 fr. in the imports was accompanied by an increase of 125,577,000 fr. in the exports, the result being a diminution of 166,099,000 fr. in the excess of imports. The best feature in the return is the increase in exports of manufactures. Our financiers are going to the seaside generally, and matters will be quiet for the next month. The world must wait while its owners amuse them-

selves. AZOTE.

#### Rossland, B. C. (From Our Special Correspondent.)

July 21.

(From Our Special Correspondent.) The great increase in the amount of shipping ore produced in the Trail Creek camp of late is not without a benetical effect on those who have worked hard and legitimately to build up the camp and make it prosperous. The danger here, as else-where, lies in the tendency to project all kinds of absurd schemes as serious business projects, and capital is needed to take hold. It is unnecessary to say that these projects are more or less started by men without past experience, especially of the kind necessary to achieve success, but unfortunately not a few of the projectors cannot be classed as among the successful ones, but rather of the failures. The system of financiering stocks and properties here is very primitive and, or course, it has not been at-reckless schemes of last year, but rather to those ventures which primarily had merit but which have been more or less tied up from inexperience and cupidity. No great change for the better has taken place since my last report.

#### MEETINGS.

Alice Mining Company, annual, at Silver City, Colo., on August 2d, at 2 p. m.

Calumet & Hecla Mining Company, of Michigan, annual, at 12 Ashburton Piace, Boston, Mass., on August 18th, at 10 a. m.

Parrot Silver and Copper Company, special meeting, at Butte, Mont., on August 24th, at 11 a.m.

St. Elmo Mining and Milling Company, annual, at Deadwood, S. Dak., on August 2d, at 2 p. m.

#### LATE NEWS.

A despatch from Houghton, Mich., July 30th, says: "Five drill holes blasted in Six Mile Hill shaft yesterday broke seven tons of ground, over one ton of which was native copper. This is by far the richest strike of copper ever made, and has caused great excitement throughout the Lake Su-perior mining district."

## STOCK QUOTATIONS.

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   | 55   |  
  | ****   |  |   |  
  |   | *****  | 300  |  
  |  |   |   |  | AS  | PEN,  | co   
  | 10.  |   |  |   |  | uotat   
   |
|   |  |   | COA  | LAN  
   | ID IN   | DUS   
   
   | TRI  | AL ST  
  | roc  | KS.  |   |  
  |   |  |  | NAME OF  
  |  |   |   | -  |   | ocatio  |  
  |  | italiza   | ation  | Pa  | ie. B  | ia.   
   |
| merican Coal  |  | . 100   |  | 120  
   |   | 120   
   
   | ·····  | 1/2  
  | 246  | 16   | 34  | 1.5  
  |   |  |  | Agnes C<br>Alta Argent .<br>Argentum-Jun   
  |  |   |   | A 1  | •pen  |   | ****   
  | •  | \$2,60°,<br>2,60  |  | 81<br>1<br>2  | .0 80  | 0316  
   |
| L. Fuel & I<br>L& H.C.& I<br>on.Cogl  | Ohio.  | 101   | .844   |  
   |   |   
   
   | 1*3%   |  
  |  |  | 492   | 1294   
  | 20  |  | 1,0 0  | Ascen Contact<br>Aspfn Deep.   
  | L  |   | ** ***  |  | **  | 54<br>54<br>64  | *** ***  
  | * *** ×*   | ******  | ******   | 1   | .00  | 0276  
   |
| Hison E I of B  | 1.4  |   | 120  | 110  
   |   | 110   
   
   | 1211/4   | 110  
  | 35<br>122  | 110  | 38  | 1051%  
  |   |  | 654  | Aspen Mining<br>Bankok-Cora  
  | Bel  | 1   |   |  | eadvi   |   | **   
  |  | 2,900,<br>60°,  | LUO  |   | .00 1<br>.00   | .20<br>.025/  
   |
| neral Elec<br>inois Steel.  |  | 100   | 35   | 33   
   | 3.13%   | 33%   
   
   | 34%  | 33 14  
  | 34%  | 24   | 2646  | 24%  
  | 351/4   |  | 20 263   | Bushwhacker  
  |  | *****   |   |  | spen<br>"   | **  |  
  |  |   |  | 1   | .00  | 00%   
   |
|   | Md   | 100   | 60   | 40   
   | 60  | 40  
   
   | 60<br>35%  | 45   
  | 60<br>58<br>34%  | 45   | 60<br>59<br>343/8   | 45   
  | 3456  |  | 211  | Della 8, Conso<br>Gold Valley Pl   
  | lace   | ated.   |   | **   | **  | **  | *** **   
  |  | 1,004   | ******   |   | .00<br>.00   | .20   
   |
| aryland C.pr<br>nnesota Ir  | Minn   | 104   |  | 4  
   | 3   | 4   
   
   | î  | 5  
  |  | 5  | 8   | 5  
  |   |  |  | Homestead<br>Ingersoll<br>Little Apple.  
  |  |   |   | N  | eibar<br>spen,  | t. Yon  | . D<br>t   
  | 1 1  | ******  |  |   |  | .08<br>.02<br>.01%  
   |
| aryland C. pr<br>nnesota Ir<br>tional Lead<br>ew('eptre: C.<br>w N.S.& D.D.   | Md.  | 100   |  |  
   | 1.  |   
   
   | Incored  |  
  | 8  |  |   | | | |
  |   | I  |  |  
  |  |   | *****   |  |   |   |  
  |  |   |  |   | .00  | 01  
   |
| aryland C. pr<br>nnesota Ir<br>tti.nat Lead<br>ewCentre C.<br>w N.S.& D.D.<br>egon Impr<br>ecosylv'nia C  | N. J<br>Md<br>Va<br>Ore<br>Pa  | 100<br>100<br>100<br>100  | â  |  
   |   | 330   
   
   | *****  | 320  
  |  | 320  |   | 320  
  |   |  |  | Mineral Farm<br>Mollie Gibson  
  | Co   | nsolie<br>usolie                                    | iated.  |  | 4.4   | **  |  
  |  | 5,900.  | 0.00   |   |  |   
   |
| aryland C. pr<br>nnesota Ir<br>dional Lead<br>ew('entre C.<br>w N.S.& D.D.<br>egon Impr<br>etnsylv'nia C.<br>nn steel<br>itandard Off.  | N. J<br>Md<br>Va<br>Ore<br>Pa  | 100<br>101<br>100<br>100<br>100   | 310+   | 325<br>309   
   | 3°1†  | 810   
   
   | 310+   | 320<br>309   
  | 310  | 323<br>303   |   | 307  
  |   |  |  | Mollie Gibson<br>Roaring Fork<br>Sheep Mt Tun  
  | Co   | usolie  | iated.<br>lated.  |  | **  | 11<br>13<br>14<br>14<br>14  |  
  | *  | 3,000   | 000.<br>400  | 1   | .0:  | 0136  
   |
| aryland C. pr<br>nnesota Ir<br>dionat Lead<br>ewCentre C.<br>w N.S.& D.D.<br>egon Impr<br>ecusylvinia C<br>un steel.<br>Standard Oll.<br>nn C. L.&R.R.  | N. J<br>Md<br>Va<br>Pa   | 100<br>101<br>100<br>100<br>100<br>100<br>100   | î<br><br>310†<br>25  | 325  
   | 3°1†  |   
   
   |  | 320<br>309   
  | 310  | 323<br>303   |   | 307  
  |   |  | 12,812   | Mollie Gibson<br>Raaring Fork<br>Sheep Mt Tun<br>Smuggler<br>Tenderfoot Co   
  | Col  | usolie<br>  | lated.  |  | **<br>**<br>**  |   |  
  | *  | 3,010   | 000<br>100<br>100<br>100   | 1   | .0:<br>.0:<br>.0!  | 011/6   
   |
| aryland C. pr<br>nnesota Ir<br>Il.nat Lead<br>ewCentre: C.<br>w N.S.& D.D.<br>egon Impr<br>eonsylv'nia C<br>nn steel.<br>Randard Oll.<br>nn C.,L.&R.R.<br>orth. Pamp<br><br>forth P.,prel<br>Official quott<br>shares: Cons   | N. J<br>Md<br>Va<br>Pa<br>N. Y<br>N. Y   | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100  | 310†<br>25<br>84   | 325<br>309<br>2434<br>80   
   | Silt<br>21<br>Si<br>Si  | 810<br>24<br>80<br>24<br>80   
   
   | 310+<br>24%<br>84  | 320<br>309<br>2456<br>80   
  | 310<br>4558<br>81  | 323<br>303<br>25<br>81<br>0.7 sh   | 203<br>26%<br>84<br>ares;   | 307<br>2334<br>80  
  | er sto  | ocks,  | 12,812<br>10,419   | Mollie Gibson<br>Rearing Fork<br>Sheep Mt Tun<br>Smuggler  
  | Col  | usolie<br>  | lated.  |  | eadvi   | ille, Co  | 10   
  |  | 3,0°0<br>2, °0<br>7,00<br>2,060<br>5,0  | 000<br>900<br>000<br>000<br>900  | 1   | .0:<br>.0:<br>.0!  | .60   
   |
| aryland C. pr<br>nnesota Ir<br>Il.nat Lead<br>ewCentre: C.<br>w N.S.& D.D.<br>egon Impr<br>eonsylv'nia C<br>nn steel.<br>Randard Oll.<br>nn C.,L.&R.R.<br>orth. Pamp<br><br>forth P.,prel<br>Official quott<br>shares: Cons   | N. J<br>Md<br>Va<br>Pa<br>N. Y<br>N. Y   | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100  | 310†<br>25<br>84   | 325<br>309<br>2434<br>80   
   | Silt<br>21<br>Si<br>Si  | 810<br>24<br>80<br>24<br>80   
   
   | 310+<br>24%<br>84  | 320<br>309<br>2456<br>80   
  | 310<br>4558<br>81  | 323<br>303<br>25<br>81<br>0.7 sh   | 203<br>26%<br>84<br>ares;   | 307<br>2334<br>80  
  | er sto  | ocks,  | 12,812<br>10,419   | Mollie Gibson<br>Roaring Fork<br>Sheep Mt Tun<br>Smuggler<br>Tenderfoot Co<br>Union Leasing  
  | Co<br>Col<br>nuel<br>ons<br>g &  | usolia<br>solida<br>Mg.                             | ted.  | OLO  | eadvi   | lle, Co   | Io.  
  | NGS,   | 3,010<br>2,100<br>1,010<br>2,060<br>5 0<br><b>CO</b>  | 000<br>100<br>00<br>00<br>00<br>00<br>100  | 1   | .0;<br>.0;<br>.0;  | .60   
   |
| aryland C. pr<br>nnesota Ir<br>il.mai Lead<br>ew N.S.& D.D.<br>egon Impr<br>eonsylv'nia C<br>un steel.<br>standard Oll.<br>nn C.,I.&R.R.<br>orth. Pamp<br><br>Yorth P.,prel<br>Official quott<br>shares; Cons   | N. J<br>Md<br>Va<br>Pa<br>N. Y<br>N. Y   | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100  | 310+<br>25<br>84<br>V Yol<br>et al   | 325<br>309<br>2434<br>80<br>rk Sto<br>nd P<br>share<br>PHI   
   | S <sup>1</sup> 1<br>21<br>SI<br>SI<br>SI<br>SI  | 810<br>24<br>80<br>Excha<br>eum<br>1, 1,4,<br>DELF  
   
   | 3104<br>24%<br>81<br>81<br>Exch<br>85  | 309<br>309<br>24%<br>309<br>24%<br>80<br>minin<br>ange,<br>* Bid   
  | 310<br>25%<br>81<br>ng. 2.0<br>, min<br>and 4  | 323<br>303<br>25<br>81<br>0.7 sh   | 203<br>26%<br>84<br>ares;   | 307<br>2334<br>80  
  | er sto  | ocks,  | 12,812<br>10,419   | Mollie Gibson<br>R-aring Fork<br>Sheep Mt Tun<br>Smuggler<br>Union Leasing<br>CAME OF<br>OMPANY- V   
  | Co<br>Col<br>inel<br>ons<br>g &  | usolia<br>solida<br>Mg.                             | ted.  | July<br>H.   | eadvi<br>RAC<br>20  | lle, Co   | 10.  
  | July<br>H.   | 3,010<br>2,100<br>1,010<br>2,060<br>5 0<br><b>CO</b>  | 000<br>900<br>000<br>000<br>900  | 23.<br>L.   | .0:<br>.0:<br>.0!  | .60   
   |
| aryland C. pr<br>nnesota Ir<br>til.mat.Lend<br>ewCentre: C<br>w N.S.& D. D.<br>egon Impr<br>econsplvinia C<br>mn Steel.<br>Standard Oll.<br>nn C., L&R.R<br>orth. P.mp.<br>Vorth P., prei<br>shares; Cons<br>change, 62,95<br>NAME OF   | N. J<br>Md<br>Va<br>Pa<br>Pa<br>N. Y<br>N. Y<br>stions.<br>olidate<br>9 share  | 10(<br>  10(<br>  10(<br>  10(<br>  10(<br>  100<br>  100 | i<br>310†<br>25<br>84<br>V Yol<br>eck a<br>otal  | 325<br>309<br>24%<br>80<br>rk Stond P<br>share<br>PHI  | 3'11<br>2'<br>'84<br>CCK E<br>'etroles sold   
   | 810<br>24<br>80<br>Excha<br>eum<br>1, 1-1,<br>9<br>ELF<br>y 23.   
   
   | 3104<br>24%<br>81<br>81<br>Exch<br>455<br>PHIA   | 320<br>309<br>24%<br>30<br>309<br>24%<br>30<br>80<br>minin<br>ange,<br>Bid<br><b>A, P</b><br>y 24.  | 310<br>45%<br>81<br>ng. 2.0<br>nd. and a<br>PA.t<br>Jul  
   | 323<br>303<br>25<br>8)<br>0:7 sh<br>ing, 2<br>ask qu   | 30.3<br>263/2<br>84<br>ares;<br>7,950<br>10fat  | 307<br>2)34<br>80<br>othe<br>shar<br>lic ns.  | er stares; M   
  | ocks,<br>lining<br>x-div   | 12,812<br>f0,419<br>g Ex-  | Molile Gibson<br>Rearing Fork<br>Sheep Mt Tun<br>Smuggler<br>Tenderfoot C.<br>Union Leasing<br>Company.<br>Alamo<br>Anaconda.   | Co<br>Co<br>co<br>co<br>so<br>so<br>so<br>so<br>so<br>so<br>so<br>so<br>so<br>so<br>so<br>so<br>so   
   | usolida<br>olida<br>Mg.<br>Jul<br>H.                | ted.  | July<br>H.   | eadvi<br>PRAC   | Ille, Co  | 10.<br><b>PRIN</b><br><b>y</b> 21<br><b>L</b><br>-03<br>-44   | NGS,<br>July<br><u>H.</u><br>.49%  | 3,0 40,<br>2, 400<br>1,0 40<br>2,000<br>5 0<br><b>CO</b>  
   | 000<br>000<br>00<br>000<br>000<br>000<br>100<br>LO.:<br>July<br><u>July</u>  | / 23.<br>L.   | .0 '<br>.0'<br>.0'<br>.0'<br>.0'<br>.0'<br>.0'   | .60<br>.03<br>24.<br>L<br>.45   |
| aryland C. pr<br>nnesota Ir<br>di.nat Lead<br>ew(Centre C<br>w N.S.& D.D.<br>egon Impr<br>econsplvinia C<br>an steel.<br>nn steel.<br>fandard OH.<br>fandard OH.<br>nn C.L.&R.R<br>orth P.appe<br>Official quoti<br>shares; Cons<br>change, 62,00<br>NAME OF<br>COMPANY.<br>mbria Iron.   | N. J<br>Md Va<br>Ore<br>Pa<br>N. Y<br>Mtions.<br>olidate<br>9 share  | - 100<br>-   | 310+<br>25<br>84<br>W Yol<br>Cas a<br>otal   | 325<br>309<br>2434<br>80<br>rk Sto<br>nd P<br>share<br>PHI<br>y 22.  | Sili<br>21<br>Si<br>Si<br>Si<br>Si<br>Si<br>Si<br>Si<br>Si<br>Si<br>Si<br>Si<br>Si<br>Si   
  | 910<br>24<br>80<br>Excha<br>eum<br>1, 1,4,<br>9<br>ELF<br>y 23.  
   
  | 310+<br>24%<br>81<br>81<br>Exch<br>\$5<br>PHIA<br>H.   | 320<br>309<br>2456<br>80<br>minin<br>ange,<br>* Bid<br>A, P<br>y 24.  | 310<br>25%<br>31<br>310<br>25%<br>31<br>31<br>31<br>31<br>31<br>310<br>25%<br>31<br>310<br>25%<br>31<br>310<br>25%<br>31<br>310<br>25%<br>31<br>310<br>25%<br>31<br>310<br>25%<br>31<br>310<br>25%<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31  
  | 320<br>303<br>25<br>8)<br>0:7 sh<br>ing, 2<br>ask qu   | 203<br>263<br>81<br>ares;<br>2,9 W<br>uotat   | 307<br>2)14<br>80<br>shar<br>ticns.   | er stores; M<br>t E:  
   | ocks,<br>iining<br>x-div   | 12,812<br>f0,419<br>g Lx-  | Molile Gibson<br>Rearing Fork<br>Sheep Mt Tun<br>Smuggler<br>Tenderfoot C.<br>Union Leasing<br>KAME OF<br>OMPANY<br>Vame of<br>Anaconda.<br>Arg'ntumJ<br>Banner<br>Bob Lee  | Co<br>Col<br>inel<br>ons<br>g &   
  | Jul<br>Jul<br>H.                                    | ted.  | Jaly<br>H.   | eadvi<br>RAC<br>7 26  | Jul<br>45%  | 10.<br><b>PRIN</b><br><b>y</b> 21<br><b>L</b><br>-03<br>-44   | July<br>H.<br>43<br>45<br>41   | 3,0 00<br>2, 00<br>1,0 00<br>2,060<br>5 0<br><b>CO</b>   
  | 000<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00  | 23.<br>L.   | .01<br>.01<br>.01<br>.01<br>.01<br>.01   | .60<br>.03  |
| uryland C. pr<br>nnesota Ir<br>il.nat Lead<br>ew('entre' C<br>w N.S.& D.D.<br>geon Impr<br>.ensylv'nia C<br>man steel.<br>in steel.<br>in steel.<br>in c.L.&R.R<br>orth P.app.<br>Official quoti.<br>Conther P.apped<br>Official quoti.<br>hares; Cons<br>change, 62,93<br>NAME OF<br>COMPANY.<br>mbria Iron.<br>oc.&GH7.Ctfs<br>Gas C  | N. J<br>Md Va<br>Ore<br>Pa<br>N. Y<br>N. Y<br>ations.<br>olidate<br>9 share  | 100<br>  100 | 310+<br>25<br>84<br>W Yol<br>Cas a<br>otal   | 325<br>309<br>2434<br>80<br>rk Sto<br>nd P<br>share<br>PHI<br>ly 22.   | з 11<br>21<br>   
                              | 810<br>24<br>80<br>Excha<br>eum<br>1, 1-4,<br>y 24<br>5<br>8<br>5<br>8<br>6<br>8<br>6  
   
  | 3104<br>24%<br>81<br>81<br>Exch<br>\$55<br>PHIA<br>H.<br>536.00  | 320<br>309<br>2454<br>30<br>309<br>2454<br>30<br>309<br>2454<br>30<br>309<br>2454<br>30<br>309<br>2454<br>30<br>309<br>2454<br>30<br>309<br>2454<br>30<br>309<br>2454<br>30<br>309<br>2454<br>30<br>309<br>2454<br>30<br>309<br>2454<br>30<br>309<br>2454<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30   | 310<br>25%<br>81<br>93. 2,0<br>min<br>and a<br><b>PA.t</b><br><b>JUI</b><br><b>H.</b><br>38.0<br>8.8  
  | 320<br>303<br>25<br>8)<br>0:7 sh<br>ing, 2<br>ask qi<br>1y 26.<br>1 36 (0)<br>8 8 75   | 30.3<br>26%<br>84<br>ares;<br>2,9%<br>totat   | 30;<br>2);4<br>80<br>other<br>shar<br>ticns.  | 25%<br>er sta<br>res; M<br>f E:<br>Ju<br>H.<br>36 5   
   | ocks,<br>tining<br>x-div   | f0,419<br>g LX-  | Mollie Gibson<br>Rearing Fork<br>Sheep Mt Tun<br>Smuggler<br>Tenderfoot C.<br>Union Leasing<br>XAME OF<br>MIRANY.<br>Valamo<br>Ranconda.<br>Arg'ntumJ<br>Bannet<br>Co, D<br>Cr. & C. C.   | Consecution of the second seco | Jul<br>Jul<br>Jul<br>H.                             | ted.  | July<br>H.<br>.02  
   | eadvi<br>PRAC<br>20<br>   | Ile, Co   | y 21<br><b>PRIP</b><br>y 21<br>L<br>03<br>-44<br>40<br>   | NGS,<br>July<br>H.<br>.03<br>.49%<br>.41   | 3,0 °0,<br>2, °0(°<br>1,0 0,<br>2,060<br>5 °0<br>5 °0<br>5 °0<br>220<br>1,<br>1,<br>1,<br>1,<br>1,<br>1,<br>1,<br>1,<br>1,<br>1,<br>1,<br>1,<br>1,  | 000<br>000<br>00<br>000<br>000<br>000<br>000<br>100<br>LO.:<br>10<br>11.<br>   
   | 7 23.<br><b>L.</b><br>37  | .0 '<br>.0 '<br>.0 J<br>.0 J<br>.0 J<br>.0 J<br>.0 J<br>.0 J<br>.0 J<br>.0 J   | .60<br>.03<br>7 24.<br>L<br>.45<br>.40%   |
| uryland C. pr<br>nnesota Ir<br>filmai Lead.<br>ew (Tentre C<br>w N.S.& D.D.<br>geon Impr<br>sensylvina C<br>in steel.<br>fandard Oll.<br>fandard Oll.<br>na C.L.&R.R<br>orth P.appe<br>Official quota<br>shares; Come<br>Schange, 62,93<br>NAME OF<br>COMPANY.<br>mbria Iron.<br>ioc.&GH.Ctts<br>mn'ns Gas C<br>ant& Br.Top.<br>" pref  | N. J<br>Md. Va<br>Pa<br>Pa<br>N. Y<br>N. Y<br>tions.<br>olidate<br>9 share   | 100<br>  100 | 310†<br>25<br>84<br>V Yoo<br>CE a<br>otal<br>36 0<br>9.0   | 325<br>309<br>2434<br>80<br>rk Sto<br>nd P<br>share<br>PHI<br>ly 22.<br>L.<br>0 34 0<br>0 8 6  | S 11<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>21<br>31<br>31<br>21<br>31<br>31<br>21<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31   
                              | 810<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80  
   
  | 3104<br>24%<br>84<br>84<br>84<br>84<br>84<br>85<br>9<br>9<br>9<br>9<br>9<br>9<br>10<br>1<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8  | 320<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>24%<br>309<br>309<br>309<br>309<br>309<br>309<br>309<br>309   | 310<br>25%<br>81<br>91<br>93<br>94<br>94<br>94<br>94<br>94<br>94<br>94<br>94<br>94<br>94  
  | 320<br>303<br>25<br>8)<br>0.7 sh<br>ing, 2<br>ask qu<br>19 26.<br>1 36 00<br>8 8 75  | 203<br>2636<br>81<br>ares;<br>930<br>uotat  | 307<br>2)34<br>80<br>other<br>shar<br>ticns.  | 25%<br>er str<br>res; M<br>t E:<br>Ju<br>H.<br>36 5   
   | ocks,<br>tining<br>x-div   | 12,812<br>10,419<br>g b.x-<br>[Sate<br>1011<br>1,33  | Mollie Gibson<br>Rearing Fork<br>Sheep Mt Tun<br>Smuggler<br>Tenderfoot C.<br>Union Leasing<br>XAME OF<br>MINNY.<br>Valamo<br>Robues<br>Gr. & C. C.<br>C. C. Con.<br>Des Molnes   | Consortante la consecutiva de  | Jul<br>Jul<br>H.                                    | C<br>y 19.<br>  | Jaly<br>H.<br>.49<br>.02<br>.091/s   
   | eadvi<br>PRAC<br>26<br>L.<br>3956   | Jul<br>H.<br>Jul<br>H.<br>Jul<br>41%  | 10.<br><b>PRIN</b><br><b>y</b> 21<br><b>L</b><br>-03<br>-41<br>40<br>   | July<br>H.<br>.43<br>.41<br>0.6  | 3,0 °0,<br>2, °0°<br>7, 0, 10<br>2, 0, 00<br>2, 0, 00<br>5 °0<br><b>CO</b><br>222<br>1,<br>1,   | 000<br>900<br>900<br>900<br>900<br>900<br>900<br>900   
   | 23.<br>23.<br>2.<br>37<br>.(9)4   | .0 '<br>.0 f<br>.0 J<br>.0 J<br>.0 J<br>.0 J<br>.0 J<br>.0 J<br>.0 J<br>.0 J   | .60<br>.03<br>7 24.<br>L<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>.40<br>24.<br>.40<br>.40<br>.40<br>.40<br>.40<br>.24.<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40  |
| uryland C. pr<br>nnesota Ir<br>il.nai Lead.<br>ew ("entre" C<br>w N.S.& D.D.<br>geon Impr<br>.sensylv'nia C<br>man steel.<br>Inn steel.<br>Inn C.L.&R.R<br>orth P.app.<br>Official quots<br>shares; Cons<br>shares; Cons<br>shares; Cons<br>change, 62,93<br>ComPary.<br>Mambria Iron.<br>ioc.&GH.Ctfs<br>pml'is.Gas C<br>ant & Br.Top.<br>a.S'ILMIG.C  | N. J<br>Md. Va<br>Ore<br>Pa<br>N. Y<br>N. Y<br>N. Y<br>ittons.<br>olidate<br>9 share   | 100<br>  100 | 310+<br>25<br>84<br>V Y On a<br>otal otal of<br>9.0<br>9.0   | 325<br>309<br>2434<br>80<br>rk Sto<br>share<br><b>PHI</b><br>y 22.<br>0 34 0<br>0 8 6<br>103   | S 11<br>2)<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>84<br>21<br>21<br>84<br>21<br>21<br>84<br>21<br>21<br>84<br>21<br>21<br>84<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21   
                              | 810<br>24<br>80<br>24<br>80<br>2xcha<br>eum<br>1, 1 · 4,<br>9<br>25.<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25   
   
  | 3104<br>24%<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84  | 320<br>309<br>24%<br>30<br>309<br>24%<br>30<br>8<br>24%<br>30<br>8<br>30<br>30<br>24%<br>30<br>30<br>24%<br>30<br>30<br>24%<br>30<br>30<br>24%<br>30<br>30<br>24%<br>30<br>30<br>24%<br>30<br>30<br>24%<br>30<br>30<br>24%<br>30<br>30<br>24%<br>30<br>30<br>24%<br>30<br>30<br>24%<br>30<br>30<br>24%<br>30<br>30<br>24%<br>30<br>30<br>24%<br>30<br>30<br>30<br>24%<br>30<br>30<br>30<br>24%<br>30<br>30<br>30<br>30<br>24%<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30   | 310<br>25%<br>81<br>81<br>A.t<br>JUI<br>H.<br>58 0<br>8 88<br>  
  | 32.)<br>30.3<br>25<br>8.)<br>0.:7 sh<br>ing, 2<br>ask qu<br>1 y 26.<br>1 36 00<br>8 8 72<br>103  | 30.3<br>263/2<br>84<br>84<br>ares;<br>2930<br>aotat<br>H.   | 307<br>2)34<br>80<br>othershar<br>blens,<br>1y 27,<br>L.  | 25%<br>er stores; M<br>f E:<br>Ju<br>H.<br>36 5<br>45.0   
   | ocks,<br>iining<br>x-div   | 12,812<br>f0,419<br>g b.x-<br>Sate<br>1.012<br>1,333<br>30   | Molile Gibson<br>Rearing Fork<br>Sheep Mt Tun<br>Smurgler<br>Tenderfoot C.<br>Union Leasing<br>Value of the second<br>Ang'ntum<br>Bob Lee<br>C o. D<br>Rob Lee<br>C o. C. C.<br>C, C. Con.<br>Des Molines<br>Elkton<br>Fanny R  | Co<br>Co<br>ons<br>g &<br>ar<br>al<br>1<br>1<br>1<br>1<br>1   
  | Jul<br>Jul<br>H.<br>.39<br>.006                     | ted.  | Joly<br>Joly<br>H.<br>.09%<br>1.05<br>.17%   | eadvi<br>PRAC<br>20<br>   | Ille, Co  | y 21<br><b>D</b><br><b>D</b><br><b>D</b><br><b>D</b><br><b>D</b><br><b>D</b><br><b>D</b><br><b>D</b>                | VCS,<br>July<br>H.<br>49%<br>49%<br>41<br>0 6  | 3,0 °0<br>2,0 °0<br>1,0 %<br>2,0 %<br>2,0 %<br>5 °0<br>5 °0<br>5 °0<br>5 °0<br>5 °0<br>5 °0<br>5 °0<br>5 °0  
  | 000<br>000<br>00<br>000<br>000<br>000<br>000<br>100<br>LO.:<br>10<br>11.<br>   | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                               | .0 '<br>.0 f<br>.0 J<br>.0 J<br>.0 J<br>.0 J<br>.0 J<br>.0 J<br>.0 J<br>.0 J   | .60<br>.03<br>7 24.<br>L<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>.40<br>24.<br>.40<br>.40<br>.40<br>.40<br>.40<br>.24.<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40  |
| nryland C. pr<br>nnesota Ir<br>Al.nat Lead<br>ewCentre C<br>w N.S.& D.D.<br>egon Impr<br>ecosylvinia C<br>min steel.<br>in steel.<br>in steel.<br>in c.l.&R.<br>orth Pump<br>Orth P<br>Orth P<br>Orth P<br>Orth P<br>Orth P<br>Orth P<br>Orth C<br>Sorth P<br>Orth C<br>ComPany<br>mbria Iron<br>oc. & GH Cits<br>onc & GH Cits<br>onn's Gas Coal<br>a.s'itMfg.Coo<br>sina. Steel<br>" pref.<br>iftedGas Im   | N. J<br>Md<br>Ore<br>Pa<br>N. Y<br>N. Y<br>stions.<br>olidate<br>9 share<br>L'ca-<br>tion.<br>Pa.<br>I T.<br>Pa.<br>a<br>a   | 100<br>  100 | 310+<br>25<br>84<br>0 ctal<br>36 0<br>9 0  | 325<br>309<br>24%<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80  | Sitt<br>21<br>S4<br>Store E<br>Store Sold<br>Sold<br>Sold<br>Sold<br>Sold<br>Sold<br>Sold<br>Sold  
                              | 510<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>24<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80  
   
  | 310+<br>310+<br>247%<br>81<br>Exch<br>\$55<br>PHIA<br>5 36.00<br>5 8 89  | 320<br>309<br>2456<br>50<br>minin<br>ange,<br>* Bid<br>A, P<br>y 24,<br>L.<br>0<br>8<br>  | 310<br>25%<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81  
  | 320<br>303<br>25<br>8)<br>0.7 sh<br>ing, 2<br>ask qu<br>1y 26.<br>103<br>0<br>103  | 30.3<br>263/2<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84   | 307<br>2)34<br>80<br>other<br>shar<br>ticns.  | 25%<br>er stores; M<br>f E:<br>Ju<br>H.<br>36 50<br>45.0  
   | ily 28   | 50,419<br>g b.x-<br>sate<br>1.013<br>1,334<br>19<br>11   | Molile Gibson<br>Rearing Fork<br>Sheep Mt Tun<br>Smuggler<br>Tenderfoot C<br>Uniou Leasing<br>OMFANY.<br>V<br>Alamo<br>Anaconda.<br>Arg num.<br>Bannet<br>Cr. & C. C.<br>C. C. Con.<br>Des Molnes<br>Elkton<br>Fauny R<br>Frankin   | Co<br>Co<br>ons<br>g &<br>ar<br>al<br>1<br>1<br>1<br>1<br>1   
  | Jul<br>Jul<br>H.<br>.39<br>.006                     | C<br>y 19.<br>  | Jaly<br>H.<br>.49<br>.02<br>.09%   | eadvi<br>PRAC<br>20<br>   | Jul<br>H.<br>Jul<br>H.<br>Jul<br>H.<br>Jul<br>105<br>.18  | y 21<br>L<br>.03<br>.44<br>40<br><br>1.04%<br>.1054   | July<br>H.<br>49<br>49<br>41<br>0 6  | 3,0 °0<br>2,0 °0<br>1,0 %<br>2,0 %<br>5 °0<br>5 °0<br>5 °0<br>5 °0<br>5 °0<br>5 °0<br>5 °0<br>5 °0   
  | 000<br>900<br>00<br>00<br>00<br>000<br>300<br>LO.:<br>July<br>11.<br>  | 1<br>1<br>1<br>1<br>23.<br><b>L</b> .<br>37<br>.(9)4<br>1.(4)54   | .0 '<br>.0 '<br>.0 J<br>.0 J | .60<br>.03<br>7 24.<br>L<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>.40<br>24.<br>.40<br>.40<br>.40<br>.40<br>.40<br>.24.<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40  |
| Interest and the second  | N. J<br>Md<br>Va<br>Va<br>Pa<br>Pa<br>N. Y<br>N. Y<br>N. Y<br>N. Y<br>N. Y<br>N. Y<br>N. Y<br>N  | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>100  | 310+<br>25<br>84<br>9 H.<br>36 0<br>9.0  | 325<br>309<br>24%<br>80<br>rk 80<br>rk 80<br>rk 80<br>rk 80<br>80<br>rk 80<br>80<br>rk 80<br>80<br>rk 80<br>80<br>rk 80<br>80<br>rk 80<br>80<br>rk 80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80  | 8'11<br>2)<br>84<br>ectol<br>8 sold<br>Jul<br>H.<br>0 36 000<br>9.00<br>4.00   
  | 210<br>24<br>80<br>Exchaster<br>PELF<br>0<br>35 8<br>35 8<br>4<br>0<br>8<br>35 8<br>4<br>3<br>5<br>8<br>4<br>3<br>5<br>8<br>4<br>3<br>5<br>8<br>4<br>8<br>9<br>8<br>10<br>24<br>80<br>8<br>10<br>24<br>80<br>8<br>10<br>24<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   
   
  | 3104<br>243%<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84   | 320<br>309<br>2454<br>50<br>minin<br>ange,<br>Bid<br>y 24.<br>L.<br>0<br>8<br>  | 310<br>25%<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81  
  | 320<br>303<br>25<br>8)<br>0.7 sh<br>ing, 2<br>ask qu<br>1y 26.<br>103<br>0<br>103  | 30.3<br>263/2<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84<br>84   | 307<br>2354<br>80<br>other<br>sharticns,  | 23%<br>er sta<br>t E:<br>Ju<br>H.<br>. 36 5   
   | 000 00 00 00 00 00 00 00 00 00 00 00 00  | 12,812<br>f 0,419<br>g k-x-<br>1 01:<br>1,33:<br>33<br>19<br>10<br>10<br>11<br>10<br>11<br>10<br>11<br>10<br>11<br>10<br>11<br>10<br>11<br>10<br>11<br>10<br>11<br>10<br>11<br>10<br>11<br>10<br>10  | Molile Gibson<br>Rearing Fork<br>Sheep Mt Tun<br>Smyggler<br>Tenderfoot C<br>Uniou Leasing<br>C<br>Marching C<br>Marching C<br>Marchin  | Co<br>Co<br>ons<br>g &<br>ar<br>al<br>1<br>1<br>1<br>1<br>1  | Jul<br>Jul<br>Jul<br>Jul<br>Jul<br>Jul              | ted   | Jaly<br>H.<br>.02<br>.09%<br>1.05<br>.12%<br>.04%  
   | eadvi<br><b>RAC</b><br>26<br>1.04%  | Jul<br>10 S<br>Jul<br>11.<br>0234<br>1.05<br>.18  | 10  | July<br>H.<br>49<br>49<br>41<br>0 6  | 3,0.0<br>2,000<br>1,0.0<br>2,000<br>5 0<br><b>CO</b>  | 000<br>000<br>000<br>000<br>000<br>100<br>100<br>105<br>20%  
   | 23.<br>L.<br>37<br>.(9)4<br>1.0454<br>.20   | .0 '<br>.0 '<br>.0 J<br>.0 J | .60<br>.03<br>7 24.<br>L<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>.40<br>24.<br>.40<br>.40<br>.40<br>.40<br>.40<br>.24.<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40  |
| uryland C. pr<br>nnesota Ir<br>il.nat Lead<br>ew Centre: C<br>w N.S.& D.D.<br>geon Impr<br>sensylvinia C<br>nn steel.<br>in steel.<br>in steel.<br>in steel.<br>orth P<br>orth C<br>Santon C<br>Santon<br>ComPARY<br>mbria Iron.<br>is des C<br>nnt & Br. Top.<br>orn. Gas Sed<br>" pref.<br>a.S'ILMEg.Co<br>mn. Steel"<br>" pref.<br>elsb.Com'l"   | N. J<br>Md<br>Va<br>Va<br>Pa<br>Pa<br>N. Y<br>stions.<br>olidate<br>9 share  | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>100  | 310+<br>25<br>84<br>9 H.<br>36 0<br>9 0<br>  | 325<br>309<br>2494<br>80<br>rk Stond P<br>share<br>PHI<br>y 22.<br>L.<br>0 34 0<br>0 8 6<br>103  
   | 8'11<br>2)<br>84<br>ectolol<br>5 sold<br>Jul;<br>H.<br>0 35 00<br>3 9.00<br>4.00  | 210<br>24<br>80<br>Excha<br>5, 1-4,   
   
   | 3101<br>243%<br>84<br>84<br>84<br>84<br>84<br>85<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | 320<br>309<br>2434<br>50<br>minin<br>aange<br>80<br><b>A, P</b><br>50<br><b>L</b><br>0<br>8<br><br>103<br><br>103<br>  
  | 310<br>25%<br>81<br>ag, 2,6<br>81<br>and 2<br><b>A.</b> t<br><b>J</b> t<br><b>H.</b><br>38 0<br>8 8<br>  | 323<br>303<br>25<br>8)<br>0.7 sh<br>102, sh<br>102, sh<br>102, sh<br>102, sh<br>102, sh<br>103, sh<br>104, sh<br>1 | 303<br>2632<br>84<br>ares;<br>.930<br>aof at<br>H.  | 307<br>2354<br>80<br>other<br>sharticns,<br>1y 27,<br>  | 23%<br>er sta<br>res; M<br>f E:<br>Ju<br>H.<br>36 5<br><br>74.5.<br><br>67 0<br>47.5   
  | ocks,<br>ining<br>x-div<br>0<br><br>0<br><br>0<br><br>0<br><br>0<br><br>0<br><br>0<br><br>0<br>  | 12,812<br>f 0,419<br>g b.x-<br>Sate<br>1 01:<br>1,33:<br>30<br>11:<br>00 1,15:<br>10:<br>10:<br>10:<br>10:<br>10:<br>10:<br>10:<br>10  | Molile Gibson<br>Rearing Fork<br>Sheep Mt Tun<br>Smurgler<br>Tenderfoot C<br>Union Leasing<br>OMPANY-<br>V<br>Mamo<br>Rob Lee<br>C O. D<br>Rob Lee<br>C C. D. C.<br>C C Con.<br>C C Con.<br>Finny R<br>Fluctures<br>Findley<br>Frankiln<br>Gold Fl'ce.<br>Cold Fl'ce.<br>Cold Sci.<br>Hayden G.<br>Hayden G.  | Co<br>Co<br>ons<br>g &<br>ar<br>al<br>1<br>1<br>1<br>1<br>1  
   | asolid<br>olida<br>Mg.<br>Jul<br>H.<br>.39<br>.006  | tted.   |  | 26<br>27<br>26<br>1.0454<br>2996<br>2<br>3996<br>2<br>3996<br>2<br>2  | 10254<br>105  | y 21<br><b>L</b><br>-03<br>-44<br>40<br>1.0434<br>-1134   | July<br>H.<br>403<br>405<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40 | 3,0.0<br>2,000<br>1,0.0<br>2,000<br>5 0<br><b>CO</b>  
   | 000<br>001<br>000<br>000<br>000<br>000<br>000<br>000   | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                               | .0,<br>.0,<br>.0,<br>.0,<br>.0,<br>.0,<br>.0,<br>.0,   | .60<br>.03<br>7 24.<br>L<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>24.<br>.40<br>.40<br>24.<br>.40<br>.40<br>.40<br>.40<br>.40<br>.24.<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40<br>.40  |
| nryland C. pr<br>nnesota Ir<br>il.nat Lead<br>ew Centre C<br>w N.S.& D.D.<br>et al. 1000<br>tanatari (11000<br>tanatari (110000<br>tanatari (11000<br>tanatari (110000<br>tanatari (110000<br>tanatari<br>tanatari (110000<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari<br>tanatari | N. J. Md<br>Md<br>Va<br>Pa<br>N. Ya<br>tions,<br>lidate<br>share<br>share<br>r<br>a.<br><br>Can.<br>Pa.<br><br>a.<br><br>Can.<br>Pa.<br>   | 100<br>  100 | 310+<br>25<br>84<br>9 H.<br>360 0<br>9 0<br>9 0<br>9 0<br>9 0<br>9 0<br>9 0<br>9 0<br>9 0<br>9 0   | 325<br>309<br>2494<br>80<br>rk 8tc<br>nd P<br>share<br>PHI<br>y 22.<br>103<br>100<br>8 6   | 3'11<br>2'1<br>84<br>Extractional<br>100 and 100<br>3 9.00<br>3 9.00<br>4.00<br>5 0 0<br>0 20 0   | 210<br>24<br>80<br>Excha<br>eum<br>4, 1)4, '<br>9<br>ELF<br>V<br>25,  
   
   
   | 310 <sup>1</sup><br>310 <sup>1</sup><br>24%<br>81<br>81<br>81<br>9<br>PHIA<br>9<br>35<br>5<br>8 %<br>8<br>5<br>8 %<br>1<br>1<br>1<br>4<br>0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | 320<br>309<br>2456<br>50<br>12456<br>50<br>12456<br>50<br>45<br>24<br>103<br>103<br>103<br>103<br>103<br>103<br>103<br>103  | 310<br>2056<br>81<br>and z<br>81<br><b>A.</b> t<br><b>J</b> U1<br><b>H.</b><br>38 0<br>8 8<br>   | 323<br>303<br>25<br>83<br>0.7 sh<br>hing, 2<br>nsk q<br>y 26.<br>1<br>9 36 00<br>8 8 72<br>0<br>9 36 00<br>0<br>103<br>0<br>0<br>23,88<br>103<br>0<br>0<br>103<br>0<br>0<br>103<br>0<br>0<br>103<br>103<br>103<br>103   
  | 203<br>26%<br>84<br>ares;<br><br>200<br>aotat<br>H.   | 307<br>2054<br>80<br>shar<br>shar<br>shar<br>shar<br>shar<br>shar<br>shar<br>shar   | 23%<br>er str<br>tes; M<br>t E<br>Ju<br>H.<br>36 5  | ocks,<br>tinina<br>x-div<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>1<br>0<br>0  
   | (12,812<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,   | Molile Gibson<br>Rearing Fork<br>Sheep Mt Tun<br>Smuggler<br>Tenderfoot C<br>Union Leasing<br><u>vame of py</u><br><u>vame of py </u> <u>vame of py </u> <u>vam</u> | Co<br>Co<br>ons<br>g &<br>ar<br>al<br>1<br>1<br>1<br>1<br>1  | usolida<br>Mg.<br>Jul<br>H.<br>.39<br>.006          | tted.   | L<br>July<br>H.<br>.02<br>.0956<br>.1256<br>.0154<br>.003   
  | 20<br>20<br>1.0454<br>  | Julie, Co<br>Juli<br>11.<br>.023%<br>   | y 21<br><b>L</b><br>-03<br>-44<br>40<br>1.0434<br>-1134   | July<br>H.<br>403<br>403<br>41<br>0 6  | 3,0.40<br>2,-060<br>7,0.80<br>2,060<br>5 0<br><b>CO</b>   | 000<br>000<br>000<br>000<br>000<br>000<br>100<br>11.<br>105<br>00958<br>103<br>2056<br>31<br>0556  | 1 1 1<br>1 1<br>1 1<br>1 1<br>1 1<br>1 1<br>1 1<br>1 1<br>1 1<br>1  | 0)<br>0)<br>0)<br>0)<br>0)<br>0)<br>0)<br>0)<br>0)<br>0)   
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| nryland C. pr<br>nnesota Ir<br>il.nat.Lead<br>www.entre.C.<br>www.entre.C.<br>www.entre.C.<br>www.entre.C.<br>tandard off.<br>nn CL&R.R.<br>orth. Pamp<br>orth P<br>pref.<br>Official quotic<br>scharge, 62,93<br>million of the scharge<br>change, 62,93<br>million of the scharge<br>company<br>mbria Iron<br>mbria Iron<br>mbria Iron<br>million of the scharge<br>or scharge, 62,93<br>million of the scharge<br>company<br>mbria Iron<br>mbria Gas Co<br>nn. & Steel<br>pref.<br>filted Gas Im<br>elsb. Com T<br>" Com.pr<br>" Light<br>" Vest. Coal   | N. J. Md<br>Md<br>Va<br>Pa<br>N. Ya<br>tions,<br>lidate<br>share<br>share<br>r<br>a.<br><br>Can.<br>Pa.<br><br>a.<br><br>Can.<br>Pa.<br>   | 100<br>  100 | 310+<br>25<br>84<br>9 H.<br>360 0<br>9 0<br>9 0<br>9 0<br>9 0<br>9 0<br>9 0<br>9 0<br>9 0<br>9 0   | 325<br>309<br>2494<br>80<br>rk 8tc<br>nd P<br>share<br>PHI<br>y 22.<br>103<br>100<br>8 6   | 3'11<br>2'<br>84<br>Extrallation<br>100 20 0<br>Stock  
                              | 210<br>24<br>80<br>Excha<br>eum<br>4, 1.4,<br>9<br>25, 8<br>0<br>35, 8<br>8<br>0<br>4, 1.4,<br>9<br>25, 8<br>0<br>8<br>4, 1.4,<br>9<br>25, 8<br>0<br>0<br>35, 8<br>8<br>4, 1.4,<br>9<br>24<br>80<br>ELF<br>0<br>24<br>ELF<br>0<br>24<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>ELF<br>0<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>E<br>ELF<br>0<br>E<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>E<br>ELF<br>0<br>E<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>ELF<br>0<br>E<br>ELF<br>ELF<br>ELF<br>ELF<br>ELF<br>ELF<br>ELF<br>ELF<br>ELF<br>E   
   
  | 310 <sup>1</sup><br>310 <sup>1</sup><br>24%<br>81<br>81<br>81<br>9<br>PHIA<br>9<br>35<br>5<br>8 %<br>8<br>5<br>8 %<br>1<br>1<br>1<br>4<br>0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | 320<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>245<br>50<br>309<br>245<br>50<br>309<br>245<br>245<br>50<br>309<br>245<br>245<br>50<br>309<br>245<br>245<br>247<br>50<br>309<br>247<br>247<br>247<br>247<br>247<br>247<br>247<br>247  | 310<br>2056<br>81<br>and z<br><b>A.</b> t<br><b>J</b> v1<br><b>H.</b><br>38 0<br>8 8<br>  
  | 323<br>303<br>25<br>83<br>0.7 sh<br>hing, 2<br>nsk q<br>y 26.<br>1<br>9 36 00<br>8 8 72<br>0<br>9 36 00<br>0<br>103<br>0<br>0<br>23,88<br>103<br>0<br>0<br>103<br>0<br>0<br>103<br>0<br>0<br>103<br>103<br>103<br>103  | 203<br>26%<br>84<br>ares;<br><br>200<br>aotat<br>H.   | 307<br>2054<br>80<br>shar<br>shar<br>shar<br>shar<br>shar<br>shar<br>shar<br>shar   | 23%<br>er str<br>tes; M<br>t E<br>Ju<br>H.<br>36 5  
   | ocks,<br>tinina<br>x-div<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>1<br>0<br>0  | (12,812<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,419)<br>(0,   | Molile Gibson<br>Rearing Fork<br>Sheep Mt Tun<br>Smuggler<br>Tenderfoot C<br>Union Leasing<br>C<br>Marcon C<br>Marcon S<br>Marcon S<br>Mar  | Co<br>Co<br>ons<br>g &<br>ar<br>al<br>1<br>1<br>1<br>1<br>1  | a solid<br>olida<br>Mg.<br>Jul<br>H.<br>.39<br>.006 | iated,<br>iated,<br>ited.<br>y 19,<br>  | L<br>July<br>H.<br>.0954<br>.0054<br>.0054<br>.0054<br>.0054   
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<td>12,812<br/>10,419<br/>(b,419<br/>(b,419<br/>(b,419<br/>(b,419<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)<br/>(b,419)</td> <td>Molile Gibson<br/>Rearing Fork<br/>Sheep Mt Tun<br/>Smuggler<br/>Tenderfoot C<br/>Uniou Leasing<br/>OMTANY.<br/>V<br/>Anaconda,<br/>Anaconda,<br/>Anaconda,<br/>Anaconda,<br/>Co. D<br/>Cr. &amp; C. C.<br/>C. C. Con.<br/>Des Molnes<br/>Elkton<br/>Frankin<br/>Gold Flee<br/>Jock Pol<br/>Jack Pol<br/>Jack Pol<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor<br/>Martor</td> <td>Co<br/>Co<br/>ons<br/>g &amp;<br/>ar<br/>al<br/>1<br/>1<br/>1<br/>1<br/>1</td> <td>a solid<br/>olida<br/>Mg.<br/>Jul<br/>H.<br/>.39<br/>.006</td> <td>iated.<br/>ated.<br/>c<br/>y 19,<br/>L.<br/></td> <td>L<br/>J
uJy<br/>H.<br/>.0956<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036<br/>.0036</td> <td>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>2</td> <td>(Jul)<br/>11.<br/>11.<br/>11.<br/>11.<br/>1.05<br/>1.05<br/>1.8<br/><br/><br/><br/><br/><br/><br/></td> <td>lo.<br/><b>PRIN</b><br/><b>y</b> 21<br/><b>L</b><br/>-03<br/>-03<br/>-04<br/>-04<br/>-04<br/>-04<br/>-04<br/>-04<br/>-04<br/>-04</td> <td>July<br/>H.<br/></td> <td>3,0°0,0<br/>2,000<br/>3,0 m<br/>2,000<br/>3,0 m<br/>3,0 m</td> <td>000<br/>900<br/>900<br/>900<br/>900<br/>900<br/>100<br/>100</td> <td>1<br/>1<br/>1<br/>1<br/>23.<br/><b>L.</b><br/>37<br/>37<br/>.(9)4<br/>1.(4)5<br/>20<br/>.019k<br/>5:34</td> <td></td> <td>(6)<br/>(6)<br/>(24,<br/><u>1</u>,<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)</td> | 310+<br>245%<br>84<br>Back 199<br>9100<br>199<br>199<br>199<br>199<br>199<br>199<br>199<br>199   | 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| 310<br>2556<br>81<br>min and 1<br><b>A.</b> t<br><b>J</b> :1<br><b>H.</b><br>38 0<br>8 8<br>  
  | 323<br>303<br>25<br>81<br>0.7 sh<br>shing, 2<br>ask qr<br>9 26.<br>1 25<br>9 36 00<br>8 8 72<br>9 36 00<br>8 8 72<br>9 36 00<br>103<br>0<br>103<br>103<br>103<br>103<br>103<br>103<br>103<br>103   | 203<br>2636<br>84<br>84<br>ares;<br>500<br>aofat<br>H.  | 307<br>2034<br>80<br>other shar<br>shar<br>is shar<br>is | 25%<br>25%<br>1 E<br>25%<br>1 E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>E<br>25%<br>1<br>2<br>1<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | ocks,<br>tining<br>x-div<br>0<br>0<br>0<br>0<br>1<br>1<br>5<br>7<br>4<br>0<br>1<br>1<br>5<br>5<br>8<br>1<br>5<br>8   |
12,812<br>10,419<br>(b,419<br>(b,419<br>(b,419<br>(b,419<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)<br>(b,419)   | Molile Gibson<br>Rearing Fork<br>Sheep Mt Tun<br>Smuggler<br>Tenderfoot C<br>Uniou Leasing<br>OMTANY.<br>V<br>Anaconda,<br>Anaconda,<br>Anaconda,<br>Anaconda,<br>Co. D<br>Cr. & C. C.<br>C. C. Con.<br>Des Molnes<br>Elkton<br>Frankin<br>Gold Flee<br>Jock Pol<br>Jack Pol<br>Jack Pol<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor<br>Martor  | Co<br>Co<br>ons<br>g &<br>ar<br>al<br>1<br>1<br>1<br>1<br>1  | a solid<br>olida<br>Mg.<br>Jul<br>H.<br>.39<br>.006 | iated.<br>ated.<br>c<br>y 19,<br>L.<br>   | L<br>J
uJy<br>H.<br>.0956<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036      | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>2   | (Jul)<br>11.<br>11.<br>11.<br>11.<br>1.05<br>1.05<br>1.8<br><br><br><br><br><br><br>                    | lo.<br><b>PRIN</b><br><b>y</b> 21<br><b>L</b><br>-03<br>-03<br>-04<br>-04<br>-04<br>-04<br>-04<br>-04<br>-04<br>-04 | July<br>H.<br>   | 3,0°0,0<br>2,000<br>3,0 m<br>2,000<br>3,0 m<br>3,0 m  | 000<br>900<br>900<br>900<br>900<br>900<br>100<br>100   | 1<br>1<br>1<br>1<br>23.<br><b>L.</b><br>37<br>37<br>.(9)4<br>1.(4)5<br>20<br>.019k<br>5:34                                |  
   | (6)<br>(6)<br>(24,<br><u>1</u> ,<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)  |
| nryland C. pr<br>nnesota Ir<br>il.nat.Lead<br>www.entre.C.<br>www.entre.C.<br>www.entre.C.<br>www.entre.C.<br>tandard off.<br>nn CL&R.R.<br>orth. Pamp.<br>Jorth Pprei<br>Official quot<br>schares; Cons<br>change, 62,93<br>NAME OF<br>COMPANY.<br>mbria Iron<br>mbria Iron<br>mbria Iron<br>mbria Iron<br>mbria Iron<br>mbria Iron<br>mbria Gas C.<br>nn. & F. Top.<br>nn. Gas Prei<br>Int& Br. Top.<br>nn. Gas C.<br>diff.Ctfs<br>nn. Steel<br>" pref.<br>filedGas Im<br>elsb. Com Jr<br>" Com.pr<br>" Light<br>" Vest. Coal   | N. J. Md<br>Wad<br>Va<br>Pa<br>Va<br>Pa<br>Va<br>Va<br>Pa<br>N. Y<br>I. Ya<br>Va<br>Va<br>Pa<br>N. Ya<br>N. Ya | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100  | 310+<br>25<br>84<br>9 M Yoo<br>ex a<br>otal<br>36 0<br>9.0<br><br><br><br><br><br><br><br><br>   | 325<br>309<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>2434<br>80<br>24<br>80<br>24<br>80<br>86<br>86<br>86<br>86<br>86<br>86<br>86<br>86<br>86<br>86   | 8'11<br>2)<br>54<br>20<br>54<br>55 sold<br>1LAD<br>Jul;<br>H.<br>0 35 00<br>3 9.00<br>6<br>3 9.00<br>6<br>50 0<br>8<br>50 0<br>8<br>50 0<br>8<br>50 0<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7   
   | 810<br>24<br>80<br>Excha<br>eum<br>1, 1, 4,<br>1, 1, 1, 4,<br>1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1  
   
   | 310+<br>245%<br>84<br>BXch<br>984<br>Jul<br>H.<br>386.00<br>55 8 %<br>55 8 %<br>56 8 %<br>57 0<br>14 0<br>14 0<br>14 0<br>14 0<br>14 0<br>14 0<br>14 0<br>14   | 320<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>2454<br>50<br>309<br>245<br>50<br>309<br>245<br>50<br>309<br>245<br>245<br>50<br>309<br>245<br>245<br>50<br>309<br>245<br>245<br>247<br>50<br>309<br>247<br>247<br>50<br>247<br>50<br>247<br>50<br>247<br>50<br>247<br>50<br>247<br>50<br>247<br>50<br>247<br>50<br>247<br>50<br>247<br>50<br>247<br>50<br>247<br>50<br>247<br>50<br>247<br>50<br>247<br>50<br>247<br>50<br>247<br>50<br>247<br>50<br>247<br>50<br>247<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50   | 310<br>2556<br>81<br>min and 1<br><b>A.</b> t<br><b>J</b> :1<br><b>H.</b><br>38 0<br>8 8<br>   
   | 323<br>303<br>25<br>81<br>0.7 sh<br>shing, 2<br>ask qr<br>9 26.<br>1 25<br>9 36 00<br>8 8 72<br>9 36 00<br>8 8 72<br>9 36 00<br>103<br>0<br>103<br>103<br>103<br>103<br>103<br>103<br>103<br>103   | 203<br>2636<br>84<br>84<br>ares;<br>500<br>aofat<br>H.  | 307<br>2034<br>80<br>other shar<br>shar<br>is shar<br>is | 23%<br>er str<br>tes; M<br>t E<br>Ju<br>H.<br>36 5  | ocks,<br>tining<br>x-div<br>0<br>0<br>0<br>0<br>1<br>1<br>5<br>7<br>4<br>0<br>1<br>1<br>5<br>5<br>8<br>1<br>5<br>8  
  | 2.812<br>10.419<br>g bx-<br>1000<br>1.334<br>1.334<br>1.455<br>566<br>   | Molilie Gibsom<br>Rearing Fork<br>Sheep Mt Tun<br>Smuggler<br>Tenderfoot C<br>Union Leasing<br>Anaconda.<br>Arg'ntumJ<br>Banner<br>Bob Lee<br>C o. D<br>Cr. & C. C.<br>C. C. Con.<br>Des Molnes<br>Elktoy R<br>Favorite<br>Frankin<br>Gold Flee.<br>Jack PoL<br>Jack PoL<br>Jack PoL<br>Magner K.<br>Magner K.<br>Magner K.<br>Molile G.<br>Wollie G.<br>Wollie G.<br>New Haven   | Co<br>Co<br>ons<br>g &<br>ar<br>al<br>1<br>1<br>1<br>1<br>1  | a solid<br>mg.<br>Jul<br>H.<br>.39<br>.006          | ated.<br>ted.<br>C<br>y 19.<br>1.62<br><br><br><br><br><br><br>                       | L<br>J
uJy<br>H.<br>.0956<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036<br>.0036      | ead vi<br>RAC<br>20<br>1.0454<br>   | (Jul)<br>11.<br>11.<br>11.<br>11.<br>1.05<br>1.05<br>1.8<br><br><br><br><br><br><br>                    | 10  | July<br>H.<br>   | 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| nryland C. pr<br>nnesota Ir<br>Al.nat. Lead<br>ewCentre C.<br>w N.S.& D.D.<br>etc.nsylvinia C.<br>Mandard Office<br>itandard   | N. J.<br>Md<br>Va<br>Ore<br>Pa<br>N. Y<br>ttions.<br>Pa.<br>T.<br>Pa.<br>Pa.<br>Can.<br>Can.<br>Can.<br>Can.<br>Can.<br>Can.<br>Can.<br>Ca   | 100<br>  100 | Jui<br>310† 23<br>84<br>9 H.<br>36 0<br>9 0<br><br>74 (<br><br>44 s<br>51.0<br>44 s  | 325<br>309<br>2494<br>80<br>PR 810<br>PHI<br>y 22.<br>1034 00<br>8 6<br>1034 00<br>8 6<br>1034 00<br>9 8 6<br>1034 00<br>9 8 6<br>1034 00<br>9 8 6<br>1034 00<br>9 8 6<br>1034 00<br>1034 0 | 8'11'<br>2)<br>54<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55   | Bit         Bit <td>310+<br/>243%<br/>81<br/>Excher<br/>55<br/>5<br/>8<br/>3<br/>3<br/>5<br/>5<br/>8<br/>9<br/>9<br/>10<br/>10<br/>1<br/>9<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10</td> <td>320<br/>309<br/>243%<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>s0<br/>aninch<br/>aninch<br/>s0<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>aninch<br/>ani</td> <td>310<br/>255%<br/>81<br/>81<br/>81<br/>81<br/>81<br/>81<br/>81<br/>81<br/>81<br/>81</td> <td>320<br/>303<br/>25<br/>81<br/>0.7 sh<br/>182<br/>19 26.<br/>19 26.<br/>188 22<br/>10 38 60<br/>10 38 00<br/>10 38 00<br/>10 30<br/>10 30<br/>1</td> <td>203<br/>2636<br/>84<br/>84<br/>ares;<br/>500<br/>aofat<br/>H.</td> <td>307<br/>2:34<br/>80<br/>othorshar<br/>shar<br/>ly
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<td>12.812<br/>10.419<br/>10.11<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.13<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1.33<br/>1</td> <td>Molilie Gibsom<br/>Rearing Fork.<br/>Sheep Mt Tun<br/>Smuggler<br/>Tenderfoot C.<br/>Uniou Leasing<br/>Valler Schemer<br/>Anaconda,<br/>Arg'ntumJ<br/>Banner<br/>Bob Lee<br/>C o. D.<br/>C o. D.<br/>C c. C Con.<br/>Des Molnes<br/>Elkton t<br/>Findley<br/>Frankin<br/>Goid Fice<br/>Goid &amp; Gl<br/>Jack Pot<br/>Magnet E<br/>Magnet A<br/>Magnet E<br/>Magnet A</td> <td>Co<br/>Co<br/>ons<br/>g &amp;<br/>ar<br/>al<br/>1<br/>1<br/>1<br/>1<br/>1</td> <td>a solid<br/>mg.<br/>Jul<br/>H.<br/>.39<br/>.006</td> <td>ated.<br/>ted.<br/>C<br/>y 19.<br/><br/><br/><br/><br/><br/><br/></td> <td>L<br/>Jaly<br/>H.<br/>.02<br/>.095%<br/>1.05<br/>.125%<br/>.045%<br/>.005%<br/>.005%<br/>.005%<br/>.005%<br/>.005%<br/>.005%<br/>.005%</td> <td>200<br/>200<br/>1.0454<br/>201<br/>2.20<br/>2.20<br/>2.20<br/>2.22<br/>2.23<br/>2.23<br/>2.24<br/>2.25<br/>2.25<br/>2.25<br/>2.25<br/>2.25<br/>2.25<br/>2.25</td> <td>Ile, Co<br/>OO S<br/>Juli<br/>11,<br/></td> <td>10</td> <td>ACS,<br/>July<br/>H.<br/>.03<br/>.43<br/>.44<br/>0 6<br/></td> <td>3,0°0,0<br/>2,000<br/>3,0 0<br/>2,000<br/>3,0 0<br/>CO<br/>22<br/>1.</td> <td>000<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(00)<br/>(</td> <td>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>23.<br/><b>L.</b><br/>37<br/>37<br/>.(9)4<br/>1.(4)5<br/>20<br/>30)5<br/>5.(3)4<br/>5.(3)4<br/>5.(3)4</td> <td>.0)<br/>.0(<br/>.0(<br/>.0)<br/>.0)<br/>.0)<br/>.0)<br/>.0)<br/>.0)<br/><br/>.45½<br/>.45½<br/>.006<br/><br/>.006<br/><br/><br/><br/><br/><br/></td> <td></td>  
   | 310+<br>243%<br>81<br>Excher<br>55<br>5<br>8<br>3<br>3<br>5<br>5<br>8<br>9<br>9<br>10<br>10<br>1<br>9<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  | 320<br>309<br>243%<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>s0<br>aninch<br>aninch<br>s0<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>aninch<br>ani | 310<br>255%<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81  | 320<br>303<br>25<br>81<br>0.7 sh<br>182<br>19 26.<br>19 26.<br>188 22<br>10 38 60<br>10 38 00<br>10 38 00<br>10 30<br>10 30<br>1   | 203<br>2636<br>84<br>84<br>ares;<br>500<br>aofat<br>H.   
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   | 200<br>200<br>1.0454<br>201<br>2.20<br>2.20<br>2.20<br>2.22<br>2.23<br>2.23<br>2.24<br>2.25<br>2.25<br>2.25<br>2.25<br>2.25<br>2.25<br>2.25   | Ile, Co<br>OO S<br>Juli<br>11,<br>  | 10  | ACS,<br>July<br>H.<br>.03<br>.43<br>.44<br>0 6<br>   | 3,0°0,0<br>2,000<br>3,0 0<br>2,000<br>3,0 0<br>CO<br>22<br>1.   | 000<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>( | 1<br>1<br>1<br>1<br>1<br>1<br>23.<br><b>L.</b><br>37<br>37<br>.(9)4<br>1.(4)5<br>20<br>30)5<br>5.(3)4<br>5.(3)4<br>5.(3)4 |
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   | 310+<br>245%<br>81<br>Excher<br>55<br>81<br>9<br>HIA<br>4<br>55<br>8<br>85<br>5<br>8<br>9<br>HIA<br>4<br>5<br>5<br>8<br>9<br>1<br>4<br>0<br>24<br>5<br>8<br>1<br>7<br>4<br>0<br>7<br>4<br>0<br>8<br>1<br>7<br>4<br>0<br>8<br>1<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>7<br>8<br>1<br>8<br>1 | 320<br>329<br>309<br>2456<br>50<br>101<br>101<br>103<br>103<br>104<br>105<br>104<br>105<br>104<br>105<br>104<br>105<br>104<br>105<br>105<br>105<br>105<br>105<br>105<br>105<br>105  | A.
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  | ocks,<br>illy 28<br>0<br>0<br>0<br>0<br>1<br>1<br>2<br>1<br>2<br>1<br>1<br>2<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>1   | 2.812<br>10.419<br>g bx-<br>1001<br>1.334<br>1.345<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.355<br>1.   | Molilie Gibsom<br>Rearing Fork.<br>Sheep Mt Tun<br>Smuggler<br>Tenderfoot C.<br>Uniou Leasing<br>C.<br>Markov, V.<br>Marcov, Marcov, Ma   | Co<br>Co<br>ons<br>g &<br>ar<br>al<br>1<br>1<br>1<br>1<br>1  | a solida<br>Mg.<br>Jul<br>H.<br>                    | iated.<br>ited.<br>C<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S |
L<br>Jaly<br>H.<br>.02<br>.095%<br>1.05<br>.125%<br>.045%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005%<br>.005% | 200<br>200<br>1.0454<br>201<br>20534<br>20544<br>20544<br>20544   | Julie, Co<br>JOO S<br>Juli<br>105<br>1.05<br>.18<br>.16<br>   | lo  | NCS,<br>July<br>H.<br>03<br>494<br>06<br>  | 3,0°0,0<br>3,0°0,0<br>3,0°0,0<br>3,0°0,0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   |
000<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>(00)<br>( | 1<br>1<br>1<br>1<br>1<br>1<br>23.<br><b>L.</b><br>37<br>37<br>.(9)4<br>1.(4)4<br>20<br>30)5<br>5.(3)4<br>5.(3)4<br>5.(3)4 |  | (13)<br>(13)<br>(13)<br>(124,<br>14)<br>(14)<br>(14)<br>(14)<br>(14)<br>(14)<br>(14)<br>(14)  |
| aryland C. pr<br>Innesota Ir<br>All.nai.Lead<br>eww.Ceptre.C.<br>www.S.& D.D.<br>emster.c.<br>ensite of the second<br>of the second of the<br>mc.L.&R.R.<br>worth. Pump.<br>Yorth P., prei<br>Official quot.<br>Shares; Cons<br>ehange, 62,93<br>NAME OF<br>COMPANY.<br>mbria Iron<br>oc.&Gif.Ctfs<br>onn'as Gast<br>prei<br>ens.Gast Cons<br>n<br>Steel<br>mitself.ctfs<br>onn's.Gast Cast<br>prei<br>ens.Gast Cons<br>n<br>filed.Gas Im.<br>'Elab.of Can<br>felsb.of  | N. J. Md<br>Va<br>Va<br>Pa<br>tions.<br>L'ca-tion.<br>Pa<br>C an.<br>Pa<br>C an.<br>Pa<br>C an.<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa  | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100  | 310+25<br>84<br>9 Uu<br>360 0<br>9 U<br>9 U<br>9 U<br>9 U<br>9 U<br>9 U<br>9 U<br>9 U<br>9 U<br>9 U  | 325<br>309<br>2434<br>80<br>rk Store<br>PHI<br>y 22.<br>10<br>34 0<br>9 86<br>PHI<br>y 22.<br>10<br>34 0<br>9 86<br>10<br>34 0<br>9 86<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | 8'11<br>21<br>23<br>34<br>Eetrolo<br>3 9,00<br>3 9,00<br>4,00<br>3 9,00<br>4,00<br>50 0<br>50 | 910<br>24<br>80<br>Exchan<br>eum<br>1, 1, 4,<br>1, 1, 1, 1, 1,<br>1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1  
   
   
   | 310+<br>245%<br>81<br>Branke,<br>455<br>PHIA<br>Jul,<br>H.<br>455<br>8 8 99<br>  | 320<br>329<br>309<br>2456<br>50<br>101<br>101<br>102<br>103<br>103<br>103<br>103<br>103<br>103<br>103<br>103  | 310<br>205%<br>81<br>92<br>81<br>93<br>94, f<br>11<br>11<br>12<br>13<br>10<br>88<br>88<br>88<br>88<br>88<br>88<br>88<br>88<br>88<br>8  | 323<br>303<br>25<br>83<br>0.7 sh<br>1027 sh<br>1027 sh<br>1027 sh<br>1027 sh<br>1027 sh<br>1027 sh<br>103 sh<br>103 sh<br>103 sh<br>103 sh<br>104 sh<br>104 sh<br>104 sh<br>105 sh   | 30)<br>26%<br>84<br>ares;<br>30<br>uotat<br>H.<br><br>d qu<br>Wee<br>oca-   | 307<br>2 354<br>80<br>other<br>shartic ns.<br>1y 27.<br>L.   
  | 23%<br>er stres: M<br>H.<br>.36 5<br>.45.0<br>.74.5<br>.67 0<br>.47.5<br>.67 0<br>.47.5   | Unity 28<br>0<br>11y 28<br>0<br>11y 28<br>0<br>11y 28<br>11y 29<br>11y 29<br>11y 29<br>11y 29<br>11y 29<br>11y 29<br>11y 29<br>11y | 12.812           f0.419           g b.x-           g b.x-           1.011           1.012           1.013           1.014           1.015           1.015           1.011           1.0  | Molile Gibson<br>Rearing Fork<br>Sheep Mt Tun<br>Smurgler<br>Tenderfoot C<br>Union Leasing<br>Ontany.<br>V<br>Mamo<br>Anaconda.<br>Arg'numJ<br>Banner<br>Bob Lee<br>C C. C Con.<br>Des Moines<br>Elkton<br>Fauny R<br>Gold Fl'ee.<br>Sold & Gl.<br>Hayden G.<br>Lible C<br>Magnet K<br>Marion<br>Marion<br>Franklin<br>Gold Fl'ee.<br>Sold & Gl.<br>Hayden G.<br>Lible C<br>Magnet K<br>Marion<br>Moon-A'C'r<br>mt. Rosa.<br>Solve Gold<br>Sheet In C.<br>Pitland<br>Silver Gold<br>Sector   
  | Co<br>Co<br>ons<br>g &<br>ar<br>al<br>1<br>1<br>1<br>1<br>1  | a solida<br>Mg.<br>Jul<br>H.<br>.39<br>.006         | iated.<br>ited.<br>C<br>y 19.<br>L.<br>   | LL<br>DLCC<br>Jaly<br>HL<br>49<br>.02<br>.0956<br>.1256<br>.1256<br>.0154<br>.003<br>.003<br>.003<br>.003<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034<br>.0034   | 200<br>201<br>202<br>203<br>203<br>203<br>203<br>203<br>203<br>203<br>203<br>203  | 100 S   | 10  |  |
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| aryland C. pr<br>nnesota Ir<br>nl.snai Lead.<br>ew Centre C<br>ww N.S.& D.D.<br>egon Impr<br>econsplvinia C<br>standard Oil<br>standard Oil<br>nn C.L.&R.<br>orth P.unp.<br>Standard Oil<br>Standard Oil<br>Standard Oil<br>Standard Oil<br>Standard Oil<br>Standard Oil<br>Standard Oil<br>Official quot<br>Standard Oil<br>Standard Oil<br>Standard Oil<br>Company.<br>mbria Iron.<br><br>orth Standard<br>Standard Standard<br>Br<br>Company.<br><br>" Company.<br><br>yest, Coal<br>* Official quot<br>elsb. Com I<br>* Light Official quot<br>* Off  | N. 5 Md<br>Md<br>Va<br>Pa<br>Va<br>Pa<br>Va<br>Va<br>Pa<br>Ca<br>Pa<br>Ca<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa  | 100           50             | 310+<br>25<br>84<br>36 0 9 0<br><br>74 (<br><br>44 8<br>5 ).(<br><br>44 8<br>5 ).(<br><br>5 ).   | 325<br>309<br>24%<br>80<br>PHI<br>924%<br>80<br>PHI<br>1922.<br>103<br>108<br>103<br>109<br>103<br>103<br>103<br>103<br>103<br>103<br>103<br>103   | 8'11<br>21<br>23<br>34<br>Eetrolo<br>3 9,00<br>3 9,00<br>4,00<br>3 9,00<br>4,00<br>50 0<br>50 | 210<br>24<br>80<br>Exchase<br>4, 1.4,<br>4, 1.4,<br>9 25.<br>0 35 8<br>0 41,<br>5<br>0 41,<br>5<br>0 41,<br>5<br>0 41,<br>5<br>0 41,<br>5<br>0 41,<br>5<br>0 14<br>10 10<br>10 10<br>10 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1   
   
   
   | 3101<br>243%<br>84<br>5xch<br>5xch<br>5xch<br>5xch<br>5xch<br>5xch<br>5xch<br>5xch   | 320<br>303<br>303<br>304<br>305<br>305<br>305<br>305<br>305<br>305<br>305<br>305  | 310<br>4355<br>81<br>32, 2, 6<br>31<br>31, 2, 2, 6<br>31<br>32, 2, 6<br>31<br>32, 2, 6<br>31<br>32, 2, 6<br>31<br>32, 2, 6<br>34<br>38<br>38<br>38<br>38<br>38<br>38<br>38<br>38<br>38<br>38   | 32)<br>30)<br>25)<br>8)<br>9)<br>1027 sh<br>1017 sh<br>1027 sh   | 303<br>2632<br>31<br>ares;<br>38<br>at<br>ares;<br>38<br>at<br>ares;<br>38<br>at<br>ares;<br>38<br>at<br>ares;<br>38<br>at<br>ares;<br>38<br>at<br>ares;<br>38<br>at<br>ares;<br>38<br>at<br>ares;<br>38<br>at<br>at<br>ares;<br>38<br>at<br>at<br>ares;<br>38<br>at<br>at<br>ares;<br>38<br>at<br>at<br>ares;<br>38<br>at<br>at<br>at<br>at<br>at<br>at<br>at<br>at<br>at<br>at<br>at<br>at<br>at   
  | 307<br>2 334<br>50<br>other<br>sharting the starting  | 23%<br>er stu<br>t E<br>Ju<br>H.<br>. 36 5  | Uly 28<br>0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | 12.812           10.119           g bax           1011           1,334           30           31           32           56           56           1,151           2,21           33           34           35           56           56           56           56           56           57           56           57           58           59           50      50           50  | Molile Gibson<br>Rearing Fork<br>Sheep Mt Tun<br>Smuggler<br>Tenderfoot C<br>Union Leasing<br>Anaconda.<br>Arg'ntumJ<br>Banner<br>Bob Lee<br>C o.
D<br>Cr. & C. C.<br>C. C. Con.<br>Des Molnes<br>Elktoy R<br>Favorite<br>Franklin<br>Gold Fl'ee.<br>Told & Gl<br>Hayden G.<br>Isabella<br>Magner R.<br>Jack PoL<br>Jack PoL<br>Magner R.<br>Magner R.<br>Magn  | Co<br>Co<br>ons<br>g &<br>ar<br>al<br>1<br>1<br>1<br>1<br>1  | a solid<br>Mg.<br>Jul<br>H.<br>                     | iated.<br>ted.<br>C<br>y 19,<br>L<br>   | J uly<br>H.<br>49<br>.02<br>.095%<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.0154<br>.01544<br>.0154<br>.0154<br>.01544<br>.0154<br>.0154<br>.01544<br>.01544<br>.015 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## STOCK QUOTATIONS.

				STOCK OU	JOTATIONS.
	, July 16			July 28. / July 24 /	LOS ANGELES, CAL.*
11	ABE OF         Part         B.         A. $-$ rie C         61         .005         .003         .004         .005           nao         1         .026         .033         .003         .004         .005           a.         1         .026         .033         .004         .005         .005         .005         .005         .006         .005         .005         .005         .005         .006         .006         .006         .005         .005         .005         .006         .006         .005         .006         .005         .006         .005         .006         .005         .006         .005         .006         .005         .006         .006         .005         .006         .005         .006         .005         .006         .005         .006         .005         .006         .005         .006 <t< th=""><th><math display="block"> \begin{array}{c c c c c c c c c c c c c c c c c c c </math></th><th><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></th><th><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></th><th>Company         Unit         H         L</th></t<>	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Company         Unit         H         L
Inte Min, g. s       25       1,00       1,00       1,000,000       1	атаск., 1 1226.03 е H.S., 10024 10024 M, 10024 M, 10024 M, 10024 M, 10024 M, 10024 M, 10024 0 M, 10024 0 0 M, 10024 0 0 0 0 0 0 0 0 0 0 0 0 0	0.26	04 .02*6 .13 .02*0 .003 .0 .013% .135% .135% .1 .03 .035% .0 .03 .035% .0 .005% .0.5% .005% .0 .005% .005% .0 .005% .005% .0 .005% .005% .0 .005% .005% .0 .005% .0 .005% .0 .005% .0 .005% .0 .005% .0 .005% .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	0216         13         25,000           022         00224         002         0024           022         00224         002         0024           024         .1456         .1458         1.09           .1456         .1456         .1458         .1.92           .024         .0056          120,000           .056          120,000            .04         .0056          120,000           .056          120,000            .04           120,000           .056          120,000            .0056          120,000            .01              .01   <	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
AHE OF MEPANY.         Location.         Company's office.         Paile.         Bid.         Asked         Shad. sold.         Price.           MEPANY.         Mont. & Idaho         Et Paul. Minn., & GibiVille.10.         \$1         \$0.90         \$1.00         1.00         Asked         Shares.         Price.         Shares.         NAME OF COMPANY.         State.         No. of shares.         Last assess.         Assess.         Price.           Butte					Keystone 1 1 10 11
Dev.&M.Co.         Mont. & Idaho         Et. Paul, Mion., & Gibb ville, Id., Bibb ville, Id., Bibb ville, Id., Bibb ville, Id., Grante         I and total         I and total <thi and<="" th="">         I and         <thi and<br="">total</thi></thi>	NAME OF Location			Asked (Shares) Price	i i Last i Prices.
wwstone  Meagher" " [ " " " 5 ] .08 ] 10	Dev.&M.Co. Butte ta& Cl'ke C Granite bination na & Frisco Mountain. (e Hefferson Till (Gold) DeerLodge	ho &Gib'ville, o. Helena, Moo St. Louis, Mo Helena, Moo Butte Butte	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Alianzu
SAN FRANCISCO, CAL.*         Carmen         Dio ago.         1.00 ago.	lowstone Meagher "	i " "		.10	Candelaria de Panuco         1,200         2J           Candelaria de Chalch         1,800         83           Capuzaya         1,600         160
NAME OF COMPANY.         Lion         July         July <td>5</td> <td>SAN FRANCI</td> <td>SCO, CAL.*</td> <td></td> <td>Castellana y SanRam Tepic</td>	5	SAN FRANCI	SCO, CAL.*		Castellana y SanRam Tepic
te Belcher	NAME OF COMPANY.	Loca- tion. Par. value. Nev. 100 " 100 " 100 " 100	July         July           23.         24.           .13            .06            .14	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Concepcion y Anexas         5. Luis FO008         2.700
u. California & Virginia	uld & Curry. lo & Norcross la antuck Con. sxican. cidental Con. bir. erman. tosl. Vage. vage.	a         100           a         100	.39           .91           .05           .35           .06           .07           .08           .09           .09	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	s. Ped. Chalchibuiltes
Carbon Learning         ************************************	Nevada. Never Hill andard. Nion Con	" 100 " 160 Cal. 100 Nev. 100 " 100	.01	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Zaragoza         1.00         15           Zomelahuacan (gold)         Vera Cruz         5.000         100           Zona Min. de Pozos.         Guanajuato         2.400         1.50         20           Norz In most of the older Mexican mining companies the shares have no fixed par v         The capitol is formed of a certain number of shares, the total value not being na         1.50         20

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	LC	NDON.				J	July 16.			PARI	8.*		Week	ending J	uly 17.
					dunkdowd			NAME OF COMPANY.	Country.	Product.	1	Bee	Divs. last	Prie	ces.
NAME OF COMPANY.	Country.	Author- ized capital.	Par value.	_	Date.		s Sellers.	NAME OF COMPANY.	Country.	Froduct.	Capital Stock.	Par value.	year.	Op'ning.	Closin
			£ . d			2 8. 0		Acieries de Creusot	France	steel mfrs.	Francs. 27,000,000	Fr. 2,000	Fr 80.00	Fr. 2,020.00	Fr. 2,05%
laska-Mexican, g	Alaska	£200,000	100	0 4.8	Apr., 1897	1 5	0 1 10 0	" " Firminy	44 +2.4++	44 44	. 3,000,000	500	85.00	1,890.00	1,893.
laska-Treadweil, g	Montana.	1,000,000	5 0 0		May "	5 18	9 6 1 3	" " la Marine		43 44	10,000,000	500 500	85.00 87.50	791.00	1,115.
'ariboo Goldf., pref., g	British Col	100.000	100				0 1 0 0	" " Longwy	spain.	fron pyrite	10.000 00	500 500	\$5.00 25.00	9 0.00 86 00	900, 86,
biapas, g., s., c De Lamar, g., s	Mexico Idaho	252,500	100	110	Nov., 1896	5	6 0	Aguas Tenidas	France	Coal			190.00	5,3.0.00	5,400.
oric, g Ikhorn Priority (New), s	Colorado	125,000	5 0			3	6 <u>4</u> 0 6 <u>17</u> 6	Blache-St Vaast Bully Grenay	61	Steel	* *** ****	1,000	169 00 80.00	3,650 00 2,400,00	
olden Feather, g	California	20,000	100	)	*******	6	6 7 8	Briansk.	Lower Cal	Copper		500	93.50	1.875.00	1.585.
iolden Leaf g	Montana	89,000 370,0.0	101				6 3 U 6 1 O	Briansk Bruay	Russia . France	Coal & Iron	a	400	810.00	1,247.50 26,765.00	1.257. 28,705.
and Central, g., s latt Mines, c., s Allooet, F. R. & Car., g	Mexico	250,000	100		Dec., 1896		9 11 3 0 1 12 6	USIISO.	Venezuela.	Gold	. 32,200,000	125			3.
illooet, F. R. & Car., g	Mexico. British Col	250,00	100		*** ******		U 1 12 0	Cape Copper Champ d'Or	S. Africa	Gold		50 25	1.50	59.L0 31.0J	
iontana, g., s	Montans	060,000	100		June, 1596	3	5 0 1 1 6	Courrieres. De Beers Consolidated.	France 8. Africa	Coal Diamonds .	6(0,000	800 125	160.00	1,650.00	1,700.
'atmarejo, g., s 'tumas-Eureka, g	Mexico California	800,000 281,250	2 0 0	06	Oct., 1896		6 5 0	Denain-Anzin	France	steel.		500	15.65	739.50 615.0	6at'.
tienmond, g., S., L.,	Nevada	270,000	500	10	Dec., " Apr., "	8	9 11 3 5 8 9	Donetz	Russia	Coal		500	12 50	585.00 935.00	
Berra Buttes, g Central Chile Copper	California Chile Colombia	225,000	1 0 0		a proj	3		Donetz Dourges	** ****	C081	I.covered I	1,000	250.00	12.0 0.00	12.1.0.1
oumb. Hydrautic, g	Colombia	2.0.000	100		July, 1895 June, 1897	2 0 0	0 2 5 0	Dynamite Centrale Epinac	France	Explosives. Coal		500 2,590	12.50	410.00	450.0
rontino & Bolivia, g	Colombia	140,000	100	20	44 64	1 8 1	5 1 11 3	rraser River	Brit. Col'mb	Gold				S4a50	30.
anta Anna, g	Brazii	150,600	1 0 0		Jan. 1895		6 1 U U	Huanchaca	Bolivia Russia	silver		125	5.00	58.0 · 8,89 I.OC	53. 3,845 (
Tolima A., S., g	Colombia	70,000	5 0 0	50	July, 1897		0450	Langlaagte Estate	S. Africa	Gold	11,750,000	25	11.25	109.00	118.
Tolima B., s., g	Italy	31,000 252,500	5 0 0	40	May, 1897	2 2 1	1276	Lagunas	Chile	Nitrates	16.900.000	125	12.50	63.10	70. 614.
lason & Barry, c., sul	Portugal	1,150,000	4 0 0		44 64	2 17 4	6 3 0 0 6 22 2 6		Chile	Nitrates.	12,500,006	125		120.00	115.
tio Tinte, c	Spain	3,250,000	000	£1 76	April. "	21 17 0	600	Malfidano Metaux, Cle. Fran. de	Italy France	Metal d'lers	12,500,000	500 500	40 95	1.01 .00	1.007.
harsis, c layley's United, g	W. Australia.	600,000	5 0	04	Dec., 1894		6 5 U	Mokta-el-Hadid	Algeria	Iron Petroleum.	18,812,500	500	40.00	76 .01 12: 50	535.0 525.0
Broken Hill Prop., s on. Gold Mines, g	N.S. Wales W. Australia	384,000 375,000	1 0 0		July, 1897	8 1	6 3	Napthe, Le.	Russia	retroieum.		******		2,701.00	2.01.0.0
reat Boulder, g	*. 16 *	175,000 300,000	100	40	M. y. 1897 Nov., 1894	7 18	9 8 1 8 2 U	Napthe Nobel	44 ······	64 · ·				439, 1- 8,6,0,00	415 ( 8.275
larquahala, g., s lauraki, g. s	New Zealand	41,000	2 6	06	Apr., 1897	6 1	6 6 0	Nickel.	N.Caled'nia	Nickel	14,720,010	500	80.00	303.00	A.S.1
apanga, g ake View Consols, g	W Anoteollo	250,000 250,000	1 0 0	b.&rt	May, 1896	8 5 1	8 7 6		Chile	Nitrates		500	65.00	14.50 1,925.00	14 3
tenzies Gold Reef, g	W. Australia	175 000	100	20	June, 1856	7 1	5 5 9		Colo'do,U.S.	Gold				3.75	37
It. Lyell Min. & R., i., c Mt. Morgan, g	Tasmania Queens and	900,000	300	rts.	July, 1897		6 10 12 6 6 3 12 6	Rivede Gier	Spain	Copper	81,250,000	250	27.6	548.50	561.u
Vaihi, g Vaitekauri, g	New Zealand,	160.000	100	20	44 44	1 2 1	6 7 7 6	NUDIDBUID PALL A A ANAL	8. Africa	GOID		125	12.5	.8.L0 2.15.00	303.0
Valtekauri, g Ventworth, g., s	N. S. Wales.	136,000	100	10	June, 4 Apr., 1896	7 6		saint Ene,	France Fr. Guiana			25	17 00	395.66 25.60	395.0
Vhite Feath, Rew., g.	W. Australia	80,000	1 0 0			18 4	113	salines oe l'Est	France	Salt		500	20.00	28 .00	869.0
hampion Reef, g	Colar Fields	200,000 190,000		8 u 1 0	Apr , 1897 Feb., **	3 12 1	5 3 15 0	sela Gem.de la Rus Mer	Russia.	" etc		50	40.00 25 00	850.C0 568.c0	850.0 550.0
lysore Gold, g	** ****	250,000	10 0	30	June, "	4 17 4	1000	Tharsis Viccigne-Neux.	Spain France	Copper		50	8.15	151.00	151 (
oregum, g	45	220,000 145,000	1 0 0	26	Apr , "	2 18 5	1 2 16 3	vielle Montagne	Belgium	Zinc	9,000,000	1,000	20.00	19,7.0.00 :45.00	20,00 .4
Ooregum, pref., g ritish S. Af., chartered	So. Africa	120,000	1 0 0	20	100 54	3 7 0	5 3 10 0 2 16 3								
ape Copper, c	56	2,500,000	2 0 0	26	June, 16	2 6 3	1 2 8		*From o	our special c	orrespond	lent.			
nty & Suburban, g	Transvaal	1 360,000	4 0 0		Oct . 1596	4 16 2	4 18 9 4 15 0		MALD		0.000				10
De Beers Con., d	** *****	120,000	100	16.0	May, 1897	11 12 1	6 11 .7 6		VALP	ARAISO,	CHILE				une 19
urban Roodepoort, g	80	3,950,000	1 0 0		June, "	0 5 4	1 7 11 0	NAME OF COMPANY.	Loca-	Capital   Sh	Val.   n	Last vidend.	1	Prices.	
Ferreira, g	44	90,000 200,000	1 0 0	300	Jan., "	.000	20 10 0	Arturo Prat, silver	Chile 188	paid.   pa .suu.000	aluo (1		Bid.	[Asked.]	Last mil
jeldennuis Main Reef, g.	68	150,000	100	20	June, 1896	17 6	6109	Caracoles, silver	1	315,000	100 5	percen	\$18	821	\$15
ioldfields Deep, g	** *****	600,000 125,000	1 0 0	10 0	July, 1897	7 18 1	8 1 3	Huantajaya (mine) silver Huanchaca, silver.	Bolivia,	,000,000	100 18 25 4	8.0			
Herlot (New), g	44 ******	115,000	100	50	64	8 0 6	850			800,000	200		324	339	320
agersfontein, d	Orange Fr. St Transvaal	1,000,000	500	60 30	Apr., " July, "	9 2 1	0 8 5 0 9 7 6 6 4 7 6	S. Agus. de Huanta,silver Todos Santos, silver		,500,000	100 256	per cen	8	10	10
Istabele G. Reefs, g	So. Africa	160,000	1 0 0				6 3 2 6	Agua Banta, hitrate	3	1,000,000	50 7	#5	13)	.32	,31
Namaqua, c rimrose (New), g	Care Colony Transvaat	200,000	2 0 0	3040	July, 1897 May, 1897		6 2 2 6 6 4 10 0	Antofagaste, nitrate Huantajaya (mill) nitrate		\$00,000 \$00.00	200		. 138	140	138
kand Mines, g	So. Africa	400,000	100			28 7	6 29 7 6	Maderar, coal.		460,000	92				17
thodesia, Exp., lands, etc.	Transvaal	50,000 2,750,000	5 0 0		Jan., 1897	7 17	6 5 2 6 6 8 2 6	Union, nitrate	1 1 2	,100,000	200	*** ***	. 15	g 17	17
heba, y Im. & Jack (New), g	******	1,100,000	1 0 0 5 0 0	10	June, "	2 6 3	6 8 2 6 3 2 8 9 3 12 6	* Special Report of	Jackson Br	08. V	alues are	in Chile	an pes	os or doll	lars.
Wemmer, g	**	5,000,000 81,000	1 0 0		July, 1897		7 15 0								
		* ** *****						-	SHA	NGHAI,					July 2.
***************							**** *****	NAME OF COMPANY.	Country.	No. of	vaiue.		ist divid		Price.
	*********									hares. Pa				mount.	
								elebu Mg. & Trad Ch runjom Mg., Ltd	ina	45.UUX \$	5 85	Jan ,		20	aeia 16
		******		******		*** ***		do. pref	*********	3,10	1 134, 10		**	.50%	" 1.35 " 21 90
													THEME	.22	

				DIVID	ENDS.										
NAME OF COM-		nt Divi- nds.	Paid since	Total to	NAME OF COM-		nt Divi- nds.	Paid since	Total to	NAME OF COM- PANY.	Loca- tion.	No.		Sale.	An
PANY.	Date.	Am't.	Jan. 1, 1897.	date.	PANY.	Date.	Am't.	Jan. 1, 1897.	date.	Alpha Con Alta *Belcher	h4	56	July 2	2 Sept. 2 0 Aug. 10	.1
tna Con. Q			\$60,000	\$100,000				67,500	270,0.0	Benton Con.	Cal	19	4.0	3 Sept. 13 2 Aug. 25	.2
aska-Mexican			36,000	209,031	Kearsarge	Aug. 1	4 ,000	40,000	160,000	Best & Belcher				5 . 26	.1
aska-Tread well.			150,000	3,175,000	Last Chance	******	*********	20,000	40,000	Brunswick Con			July 2	6 1.9	.(
ice			20,000	1,015,000	*Le Roi			175,000	459,000	California	Utah	****			.(
aconda			1,500,000 42,000	3,750.000 72.000	*Mercur Merrimac			175,000 9,400	750,000 9,400	*Central Eureka Christmas	Utah.	Э	Aug. 1	Sept. 7	.(
zona Copper			48,000	12,000	*Mont.Ore Pur.Co.	******		120.000	600,00	Confidence G	Cal.	****		3 Aug. 17	
antic Copper			40,000	740,000	*Moon-An chor			6,000	30,000	Emerald	Utah	****		Aug. 7	:0
d Butte			2,500	482,500	Morning Star				519,600	Eureka Con	Cal	9		7 ** 28	.0
Six			12,500	5,000	*Napa Cos			40,000	850,000	Gibraltar Con		15		5 " 5	.0
ston& Montana.	Aug.20	450,000	1,350,000	6,275,000							86 ····	5	1:		.1
llion Beck			170,000	2,117,000	silver			10,000	10,000	Hale & Norcross	66	111	** 25		.1
alumet & Hecla				49,850,000				105 004		Homestake	Utah		1		
riboo			32.000	156,965				105,005	787,500	Merrill Con			21		.1
ntennial Eureka			98 000 8,000	2,010,000	Ontario	******		90,000	13,445,000	Montecito	Cal	4	** 1:	2 ** 9	.1
entral Lead				8,000 86,700	*Osceola Pennsylvania		********	100,000 10,390	2,172,500	North Gould &		10	** 9	1	.1
ampion				150,000	"Portland	******		210,000	15,500 1.073,000	Curry Osceola	NOV	18	ders	8 Aug. 14	
onas			4.500		Princess.	*****		5,000	45,000	Reward Gold				8 3 Sept. 4	.0
y			37,500	2,925,000	Quincy	A'g.16	400.000		9,470,00)	Shasta Iron	46 ****	4		) Aug. 10	.0
adwood Terra			80,000	1.320.000		TE DIAG	100,000	40.00	40,000	Sterling	6.6	4	* 19	2 9	1
lla S			10,000	60,000					187,500	Tecumseh C	Mich.				. 1.0
ston Con			125,000	286,960	Sacramento			15,000	22,000	Transit	S. D	9	Aug.	2 Aug. 17	.0
orence			18,030	132,530				262,500	1,125,000	Utah Con			**	30 ** 30	.2
lena			5,000	71,000				50,000	350,000						
rfield-Grouse			12.000	24,000	*South Swansea			45,000	52,460						
eyser-Marion			36,000 45,000	36,000	Standard Con		********	20,000	3,737,868	*** **********					
ld Coin			6.000	540 170	*Swansea Tamarack	*****	********	180,000	51,500 4,950,000	*****					
Iden Fleece			6.000	6110	Utah	******		2,000	175.000		****				
cla Con			30,000	2.175.000		******	********		765.000	***************					
ghland			20,000	3,244,918	Western Mine En	-		001000	100,000	*. ***************					
omestake			218,750	6,306,250	terprise			6,000	12,000						
pe			40,000	692,252						******					
ho			89,000	152,000	Totals		\$9,0,000	10,288,080	\$150,643,613	****************					
va Gold	* * * * * * *		5,000	65,000			1	1		*****************					
ore -This tabl	e does	not give	all the di	vidends na	id by mining compa	anies, a	s it is in	nossible	to obtain a	***************					
aplete list of di	vidend	s declare	d. Man	companie	es are close corpora	tions a	and refus	e to give	the infor-						
cion. Readers o	f the	Engineer	ing and	Mining Jo	urnal will confer a	favor	on the p	ublishers	if they will			****			****
tify the Journal	of any	errors or	omission	s in the abo	ve table. * July d	ividen	l paid.			* New assessme	nt.				
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	-	-													
							and the second second	100 M					-		

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## THE ENGINEERING AND MINING JOURNAL

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	DIVIDI			ING I									NON-DI	VIDI	END-P	AVIN	IG	MINI	ES.		
Name and Location of Company.	Capital Stock.	Share No.	Par	Total		ate an		Total		ite an			Name and Location Company.	1 of	Capital Stock.	Share No,	s. Par	A	ssessm	ents. ite ar	
			Val	Levied.	Amou	nt of	Last.	Paid.	Amou	1	Last.		*			NO,	Val	Levied.	Amou		
ms, s. l. c Colo. Cal		100,000	5	:					June.	1897	.04	2	Ada Cons., s. l Ajax, g	Colo	1.000.000			\$3,333	Nov.,		
ka-Mexican, g Alash	1,000,000 5,000,000	200,000	) 25	*				8,175,000	April. April.	1897	.371/6	3	Alice, g. s. c Alliance, g. s. 1	Colo	5,000,000		1	* 200,000			
g. S. Mont	30,000,000	1,200,000	25	*				1,015,000 3,750,000	May	1897 1	.05	5	Alpha Cons., g. s Alta, s	Nev	10,500,000 10,080,000	105,000 108,000		262,750 3,601,360	April.	1897	.0
oria-Leland, g Colo.	0004000	600,000		*					June. July		.01	7	American, c ¶AmericanBelle,g.s.c	Idaho	5,000,000	500,000	10				1
	2,000,000	200,000	) 10					900,000	July Feb	1894	.10	9	Anaconda, g	Colo	5,000,000	1,000,000	5			****	
tic, c Mich	2,500,000	100,000	25					700,000	April. May.	1896	.50	11	Anchor, g. s. l Aola, g	Colo	1,000,900	1,000,000	1	560,000		1893	
Butte Bell. S. I. Colo.	600,000	600,000	) 1					107,510	July	1896	.03	13	Argonaut Cons., g. s. Belcher, s. g	Nev	10,400,000	104,000		\$,338,420	April.	1897	
n, F. E., m N. H.	500,000 500,000	500,000	) 1					5,000	Jan April.	1897	.04	15	Belle Isle Ben Hur, g.	Colo	10,000,000 900,000	100,000		240,271	July		
a & M. Cons. g.s.c Mont	5,000,000	150,000	25	*		1		1,630,000 5,825,000	May	1897	3.00	16 17	Blue Bell, g Blue Jay Cons., s. l.	Colo Utah.	500,000 2,000,000			* 4.750	July.		
erton, i Mich n, Beck & Champ. Utah								120,000 2,117,000	) Mar	1893 1897	.50	18 19	Bob Lee, g. Boston & Crip. Creek	Colo	1,200,000 200,000	1,200,000	1				
net & Hecla, c Mich B.C.	2,500,000							49,850,000		1897	10.00	20	Bullion, s. g Bunker Hill & S., s.l.	Nev	1,000,000	100,000	100	3,050,000	June.	1897	
n'l-Eureka, g.s.l.c Utah	1,500,000	30,000	50	30,000	Mar.		1.00	2,010,000	Mar	1897	1.00	22	Burlington, g. s	Cal	10.000.000	100,000	100	3,000	May	1896	
al, c Mich pion, g. s Cal.	1 390,00	34,000	0 10					86,700	June.	1897	.25	24	Butte & Boston Con.,c Butte Queen, g	Cal	1.000.000	100,000	10		Feb.	1893	1.1
eston, p. r S. C. Colo.	500,00	500,000	0 1	*				25,000	) Feb ) Mar	1896	.01	25 26	Calumet, g Centennial, c	Colo., Mich.	1,400,000 2,000,000			220,000	April	1897	1.0
d'Alene, s. I Idano	5,000,00 21,600,00				April.	1897		3,898,80	June. Feb	1895	.06	28	Central Lead, 1 Central North Star. g.	Mo Cal	400,000				July.		1
s, g. s Nev. n & Lark, s. l Utah	10,000,00		0 100					77,00	0 Feb 0 Aug	1895	.01	29	Challenge, s, g Chollar, g. s	Nev	5,000,000	50,000	100	305 000 2,038,400	June.	1897	
s.1Utah wood-Terra, gS. D.	- a,000,00	150,000	0 20					2,925,00 1,240,00	Mar	1897	.25	31	"Chrysolite, s. I	Colo.,	10,000,000	200,000	50	# #			
mar. g. s Idah	2,000,00	400,00	0 5	*				2,250,00	0 Oct	1896	.25	33	Cleveland Cliffs, i Columbine. g	Colo	1 000 000	1,000,000	1				
S Colo. tun, I Mo	. 500,00		0 100				*****		Jan April.	1897	.10 .50	34 35	Confidence, g. s Cons. Imperial, g. s Creede & C. C., g	Nev.	2,496,000 5,000,000		100	1,644,462 2,082,500		1897	۲.
rn, s Mont Cons., g Colo.	1,000,00 1,250,00		0 5					1,212,00 286,96	June.	1895 1897	.02	36	CrippleCreekCons.g.	Colo	2 000.000	800,000	1				
prise, g. s Colo.	. 2,500,00	0 500,000	0 5			1		825,00	0 May . 0 May .	1893	.25	30	Crip.Cr'k Gold Expl'n Dante, g.	Colo.	1.800.000	1,800,000	1				
lin, C MICh	1,000,00	0 40,000	0 25					1,240,00	0 Jan	1894	2.00	40	Denver City, s	Colo.	15,000,000	500,000	10			****	
a, g. s. 1 Utah Id-Grouse, g Colo.	1,200,00	0 1,200,000	0 1	*				24,00	0 Jan 0 Dec	1896	.01	42	Denver Gold, g Dickens-Custer, g. s	Colo.	2,100,000	420,000	5				
r-Marion, g Utah Coin, g. s Colo.	1,500,00 1,000,00			*					0 June. 0 May			43	¶Enterprise, g ¶Eureka Cons., g. s. l.	Colo. Nev.	800,000			567,500	Feb.	1897	
Coin, g. s Colo. n Eagle, g Colo. n Fleece, g. s Colo.	. 1,000,00	$ \begin{array}{c} 1,000,000 \\ 600,000 \end{array} $		*				10,00	0 Sept 9 Feb	1896	.01	45	Eureka Con. Drift,g. Exchequer, g. s	Cal	500,000	500,000	1	140,000	May	1897	7 .
c Globe, g Colo.	. 750,00	0 750,00	0 1					36,00	0 Aug	1896	.00,3	41	Favorite, g	Colo.	1,200,000	1,200,000	1	8		1000	
te Mountain, g. s. Mont st'n Quicksilv., q. Cal .	. 5,000,00	0 50,00	0 100					12,120,00 388,36	6 Nov	1893	.10	49	Free Coinage. g Galena, I. s	Idaho	500,000	500,000	1				
Cons., g. s. c. l., Mont	1,500,00			*				2,175,00	0 Nov 0 Feb	1897	.50	51	Gold Belt, g. s Golden Age, g	Colo.	1.000,000	500,000		3,012	July.	1896	
a & Frisco, s. 1 Idah and, g S. D.	2,500,00 . 10,000,00							475,00 3,244,91	0 Aug 8 Feb	1896	.04	52	Golden Dale, g Golden Fleece Grav, g	Colo.	2,000,000 130,000		1000	* 56.26(	Mar.		
and, g S. D. stake, g S. D. s Mont	12,500,00 1,000,00	0 125,00	0 100		July.		1.00	6,275,00		1897	.25	54	Gold Flat, g Gold King, g	Cal	1,000,000	100,000	10	13,000	Aug	1893	3.
Silver, g. s. c. sp. l. Utah	. 10,000,00	0 400,00	0 25	*				5,130,00	0 Jan	1896	.1216	56	"Gold Rock, g	Colo.	1,000,000	1,000,000	1 . 1			****	
g B. C. Colo.	. 500,00	0 1,000,00	0 1				*****	65,00	0 Mar 0 Feb	1897	.001/2	58	Gold Standard, g Gould & Curry ¶Hale & Norcross,g.s.	Nev.	1,000,000 10,800,000	108,000	100	4,872,000			
Mountain, s. l Mont Silver, s. l Colo.	. 10,000,00							492,50 2,500,00	0 Nov 0 April.	1896 1889	.06	59 60	"Hale & Norcross,g.s. Head Cent. & Tr., g.s.	Nev.	.11,200,000 .2,000,000	112,000		5,798,000 22,824	April. Mar		
lla, g Colo. arge, c Mich	2,250,00 1,000,00	$ \begin{array}{c} 0 & 2,250,00 \\ 0 & 40,00 \end{array} $		190,000	Oet	1887	1.00		0 June. 0 Dec			61	Hidden Treas., g. s Humboldt Cons	Cal	20,000	20,000	1		Nov		
edy, g	. 10,000,00	0 100,00	0 100					1,796,00	0 Aug.,	1895	.48	63	Idaho Co., Ltd., g Idlewild, g	Idaho	100.000 1,000,000	1,000	100				1.1
ille Cons., s. L Colo.	4 000 00	0 400,00	0 10	*				316,00	0 Jan 0 Feb	1893	.03	65	Jack Pot, g	Colo,	1,250,000	1,250,000	1				1.1.1
B. C. Chief, s. l. i o Colo.	. 500,00	0 200,00	0 50					820,00	0 July . 0 Dec	1890	.05	67	Jack Pot, g Jackson, I Justice, g. s. c	Colo.	. 300,000	500,000	) 1	*			
of Erin, g. s. c. 1., Colo. noth, g. s. c Utah	. 10.000.00	0 400,00	0 25	*				1,150,00	0 Nov	1896	.05	69	Lacrosse, g	Colo,	1,500,000	100,000	0 10				
ower Gravel, g Cal. Mazeppa Con., I. s. Colo.		$ \begin{array}{c} 0 & 60,00 \\ 0 & 1,000,00 \end{array} $		*****					7 Dec 0 Oct			170	Matoa, g Mayflower, g	Colo.	. 5,000,000	1,000,00	0 5	*			
ir, g Utah sota Iron, i Minn	. 5,000,00	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							0 June.	1897	.121/0	172	Merced, g Mexican, g. s	Cal.	1,500,000						
e Gibson, s Colo.	. 5,000,00	0 1,000,00	0 5	20,000	Jan .			4,080,00	0 Jan.	1895	.05	74	Milwaukee, s. l	Idaho	500,000	500,00	0 1	8,104,240			
tor, g S. D. ana, Ltd., g. s Mont	. 2,500,00 . 3,300,00	0 660,00	0 5	*				2,890 63	0 Oet 7 Oet	1895	.061/4	76	Modoc Chief, g. s. l Monarch, g	Colo.	. 1,000,000	1,000,00	0 1	4,37	Jan.	1892	
ana Ore Purchas'g Mont Anchor Gold	600.00			*				600,00 24,00	0 July 0 July	1897 1896	1.00	78	"Mt. Diablo, s Mutual, g	Colo.	. 5,000,000			145,000		1896	
e, g Colo. ing Star, g Cal.	. 600,00	600,00	0 1	70.800	Feb.			186,00	0 Jan 0 May	1896	.01	79	New Gold Hill New Viola, s. I	N. C. Idaho	. 1,750,000	350,00	0 5			[····	
088, g Colo.	. 1,000,00	0 1,000,00	0 1	*****				30,00	0 Oct 0 July.	1896	.001/2	81	North Banner, g. s North Belle Isle, s	Cal.	. 1,000,000	100,00	0 10	21,79	Oct.		
ElkhornColo Guston, g. s. cColo	1 500 00	0 300,00	0 5					72,00	0 Sept.	. 1896	.24	83	Occidental Cons., g.s.	Nev.	. 10,000,000	100,00	0 100	473,65:	June.	1897	7
noover Hill, g N. C.	.1 - 300.00	0 120,00	0 2.50	*					0 Dec.	1885	.20	85	Original Keystone, s. Oro Cache, g. s Orphan Bell, g	S. D.	1,250,000	100,000 250,000	0 5	6,250	Mar.	1892 1893	
dria Quicksilver Cal Hon.Rosario.s.g. C. A.	1 500 00		0 10					772,50	0 June. 0 June.	1897	.10	81	Overman Silver, g. s.	Nev.	. 1,152,000	115,200	100	4,200,080	May.	1897	
Star, g Cal.	. 2,000,00		9 10	20,000 *	June.		.02	450,00	0 June. 0 Jan	1893	.50	88	Peer, s Peerless, s	Ariz. Nev.	. 10,000,000	100,000	0 100	215,000	July.	1894 1894	4
		0 150,00	0 100					13,445,00 2,172,50	0 June.	1897	.10	90	Pine Hill, g Potosi, g. s	Cal .	. 1,000,000	100,000	1 10		July.	1897	7
la, c Mich c Coast Borax, L	2,000,00	0 20,00	0 100					422,50	0 July	1893	1.00	92	Princess, g	Colo.	. 1,000,000	1,000,000	1 1				
nacist of Cols	. 5,150,00	0 51,50	0 100		Feb.	1892	.05	1,622,21 15,50	0 June.	1897	.05	94	Puritan, g, s Quicksilver, pref., q.	Cal .	4,300,000	43,000	0 100	*			: :
		0.1,200,00 0.3,000,00	0 1	******				80,00 1,043,00	0 Jan 0 June.	1897	.01	95 96	Quincy, c	Colo.	3,000,000	300,000	0 10				: :
Colo,		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 1	*				45,00 9,0,00	0 Feb	1897	.001/2	97 93	Red Mountain, s Reward, g	Colo. Cal	. 300,000	60,00		22,500	Mar.		
ler-Cariboo B. C. s. L. B. C.	1.000,00	0 1,000,00	0 1					40,00	0 April. 0 May .	1897	.02	- 99	St. Mary, c Savage, g. s	Mich.	1,000,000	40,00	) 25		July.	1895	5
s. l B. C. Saltional, s	500,00	0 500,09	0 1	*				45,00	0 Dec	1890	.01	101	Seg. Belcher & M., g.s.	Nev.	. 10,000,000	100,000	0 100	345,000	May.	1897	7
manto g. s. i Colo.	. 1,000,00	0 1,000,00	0 1	*				27,00	0 Mar 0 June.	1893	.00.1	103	Sevier, g. s Silver Age, g. s. l	Colo.	. 2,000,000	200,000	0 10	*	April	1897	
mento, g Colo. unento, g Utah seph. 1 Mo. King, g. s. 1 Utah	. 5,000,00 . 2,500,00								0 Mar Mar	1897 1897	.15	105	Silver Hill, s Silver King, s	Ariz.	, 10,000,000	100.000	100	1,992.600 279,858	July.	1894	
King, g. s. 1 Utah n Star. B. C.	. 3,000,00		0 20	3,000	Jan.	1897	.02	1,087,50		1897	.25	106	Silver Queen, c Silver State, g	Ariz.	5,000,000	200,000	) 25	*			
galas Huiss	. 5,000,00	0 250,00	0 20					3,275,00	0 Mar.	1896	.10	108	Siskiyou Con., s	Cal	2,000,000	200,000	1 10		June		
dard Classed, S. L Utah	. 150,00	0 150,00	0 1					44.96	0 Oct 0 June.	1897	.05	110	Specimen, g ¶Temonj, g Tombstone, g. s. l	Colo.	1,000,000	1,000,000	) 1				
sea, s. I Utah	. 20,000,00	0 100,00						3,737,86 46,50	8 Mar 0 June.	$1897 \\ 1897$	.10 .05	112	Tornado Con., g. S	Nev.	100,000	100,000	) 1	*			:
Boy, g Colo.	1,500,00 2,000,00	0 60,00	0 25					4.950.00		1897	3.00	113	Union Con., g. s Utah Cons., s	Nev.	10,000,000 10,000,000	100,000	100	2,565,000 420,725		1897 1897	7
ty River, g Cal .	500,00	0 500,00	0 1	*				15,00	0 July	1893	, 901/2	115	Victory, g. s Virginia M. Cons., g.	S. D.,	1.250,000	250,000	1 5	2,62	Nov.	1896	
n Leasing Colo.	. 1,250,00		0 1					340,00	0 June. 0 July	1895	,04	110	Waterloo, g West Granite Mt., s	Cal.	2,000,000	200,000	) 10		Aug.	1893	
ern Mine Entarro	1,000,00	0 200,00	0 5	*				175,00 765,00	0 Feb 0 Mar	$1897 \\ 1897$	.02	119	¶Whale, g. s. l	Colo.	.500,000	500,000	1	**** ***			
ern Mine Enterp. Mont	. 500,00			32,500	1	1894		187,00		10000		1 COM	Work, g	101-1-		14 -180 004	1 M				100

6. Gold. S., Silver. L., Lead. C., Copper. B., Borax. \* Non-assessable. + The Deadwood previously paid \$275,000 in eleven dividends and the Terra \$75,000. Previous to the consolidation in August, 1884, the California had paid \$31,320,000 in dividends and the Cons. Virginia \$42,330,000. | Dividends paid since consolidation. Bodie, Bulwer and Mono transferred to Standard Cons., January, 1897. \* Dividends have not been paid in several years. Morg.-This table is corrected up to July 1. Correspondents are requested to forward changes or additions so as to reach us before the end of each month.

RARE ELEMENTS, CHEMICALS AND MINERALS-CURRENT PRICES. Note.-This table is revised up to July 12th. Readers of the Excinerance AND MINING JOURNAL are requested to report any corrections needed, or to suggest additions which they may consider advisable.

NoneThis table is revise	d up t	o July 12th.	Readers
CHEMICALS AND	MIN	ERALS.	
These quotations are for	whole	sale lots in	Cement Portlar
New York unless otherw.	ise sp	ecified, and	Germa
are generally subject to discounts.	use u	ALL DE COLLEG	Danish Englisi
Abrasives- Cust	. Mea	s. Price.	"Rose
Carborundum, grains, f.o.b. Niagara Falls	16. 5	80.15@,\$0.16	Sand c Ceresin
Corundum, flour	6.6 6.6	.05@.07	Chalk-
Grain Emery, Turkish flour	**	.10@.12	Englis French
Grains	55	.0416@.0512 .03@.0312	Powe China (
Naxos flour Grains	44	.041/6 @ 051/6	Lowes
Chester flour	46 66	.03@.0312	Mediu
Grains Peekskill flour	66	.011/2	Best g Chlorin
Grains	66	.0110.02	Chrome (50% ch
Pumice Stone, powdered Lump	£.6	.05@.12	Oxide.
Rottenstone, ground	*1	.02%@.03	Cobalt- Black
Lump, according to quality	ai.	.051/2@.12	Carbo
Acids- Acetic, Pure (30%)	lb.	.06@.07	Chlorie
Benzoic, English	*5	1.12	Oxide.
German BoracicAm.retin ed cryst	66	.49	Copper Copper
Powdered	44 84	.0816 @. 0916	Acetat
Carbolic,cryst.in bottles In drums	4.5	.25 .18@.19	C. p. Carbot
Chromie com	**	.25	Chlorie
Chem. pure Hydrochloric, c. p. (in		.35	Nitrat
carboys)	55	.10@.12	Oxide,
Hydrofluoric XX	**	.05	Red. Sulpha
54×62 C	46	.25	Cher
Phosphoric, English, st.p Salicylic	65	.37@.42	Explosi Judsor
Sulphurie, c. p.(in cbys.)	**	.10@.12	cal
Tartarie, cryst Powder	4.	.280.281/2 .281/20.29	"Rack Dynan
<b>Alcohol</b> -94% Refined wood, 95% 97%	gal.	2.29@2.33	gly
Kenned wood, 95%		.65	(50% (60%
purmed.,	55 100 11	1.20@1.50	(75%
Alum –Lump Ground	100 108	1.75(0.1.80)	Glycer (32 2
Porous Chrome, com'l	**	1.871/2@2.25	Nitro I
Aluminum-		3.00@4.00	Feldspi Flint—(
Chloride, pure cryst	lb.	1.00	Fluors
Oxide, hydrated Sulphate, com'l	4.6	.011/4@.013/4	Fuller' Pow
Pure cryst. (retail)	46	1.00	Gilsoni
Ammonia – Aqua (in carboys), 16°	6.6	.031/4	Gold-
18°	66 64	.04@.05	Chlori
20°	6.6	.051/4@.053/4 .061/4@.063/4	(reta Oxide
Ammonium -	**		Gypsui
Bromide, pure Carbonate, domestic		.52@.53	Englis
Foreign	66	.071/4@.073/4	Iodine
Chloride, granulated Chem. pure	6.4	.05@.07 .10½	Resub Iron M
Muriate, gran. (100%)	46	.10	Nitrat
Gray. Nitrate, white, pure (99%)	6.	.09	Pure Oxide,
Sulpho-cyanide Chem. pure	66	.25 .35	Kaolin
Antimony-		.00	Kryoli Lead-
· Oxide	56	.12@.13	Aceta
Sulphide, powdered Pentasulphide	66	.06 .20	Whi Nitrat
Argols-Red (30%)	**	.05@.051/6	Chei
(50%)		.0816@.09 .1412@.15	Lime_ Buildi
(80%) Arsenic – White, powder Red, Saxony Silesian Ashestos – Board	44	.03/400.03%	Slacke
Silesian	*	.071/2@.073/4 .071/4@.071/2	Fertili
Asbestos-Board.	**	.0234	Magne
Fiber, long Medium		.10	Lun Calc
Short Pipe covering, magnesia	85	.031/2	Powde
fib., av. size	sq. ft.	.11	Calc
Asphaltum_	11.	04/2 02	Metal
Hard	84	.04@.05	Pow Ribb
Trinidad, refined.	**	.0116.0134	Carbo
Hard Trinidad, refined Bermuda, refined, f.o.b., South Amboy, N. J. Egyptian, refined Barium –	sh. tor	45.00	Chlori Pure
Egyptian, refined Barium—	10,	.05@.06	Manga
Carbonate, Am. lump	lg. ton	26,00@,30,00	Crude 75
Powdered	lb. sh ter	.02@.021/2	85 90
<sup>9</sup> Foreign Chloride, com'l	100 lbs.	1.60@.200	Metal
Chem. pure cryst Nitrate Nitrite, com'l	16.	.051/2@.06	Pure Carbo
Nitrite, com'l	66 66	.057/4	Chlori
			Oxide Pow
Sulphate, com'l (pulp) Barytes-Crude American, floated	lg. ton	7.75@ 10.00	Perox
			Sulpha Pure
Bauxite-Ga., At mine. Benzole-90% C. p. water white	lg, ton	3.00@3.75	Marble
C. p. water white	est.	1.00(@1.10	Flour. Mercui
BISMUCH-NICRALE, CLASS.	OZ.	.15	Bisulp
Oxide, hydrated Bone Ash	8.4	2.65	Red, p White
Borax - Am. refined	-95 8.5	.0514	Mica_0
Crystal Concentrated,		.05	Sheets
Concentrated, Bromine-Com'lat wks.	64	.047/8	Minera
Metallic sticks (Ger)	kg.	8.14	Slag Nickel
Sheets (Ger)		7.57	Oxid
Powder (Ger)		8.09	No Gree
Acetate, brown	100 lbs.	75@.80	Oils, Mi
		1.25@1.30 .70	duce Black,
Bromide (retail) Carbonate, ppt Chem pure	**	10	cold
Hypophosphite100	lbs. 1	.75	Black, Black.
Chem pure Hypophosphite100 Oxide. Phosphate, ppt Sulphite	Ib.	.05	Black, Smith
Phosphate, ppt		.20	WestV Stock,
		104	June 1

1	inter const	-
	Cust. Meas. Price.	
	Portland, Am., 400 lbs bbl. 1.80@2.00	
	German, 400 lbs.         2.0062.5           Danish.         2.0062.5           English, 400 lbs.         2.0062.2           "Rosendale," 300 lbs.         4.7562.8           Sand cement, 400 lbs.         1.8           Ceresine.         lb.         .09466.1           Chalk—Com'l, lumpsh. ton         2.0062.2           English, 400 lbs.         1.8           Ceresine.         lb.         .09466.1           Chalk—Com'l, lump	6
	"Rosendale," 300 lbs "	0
	Sand cement, 400 lbs " 1.80 Ceresine lb	1
	Chalk-Com'l, lump sh. ton 2.00@2.2 English. ppt lb. 04@.041	5
	English, ppt ib04@.04½ French, lump sh. ton 10.00 Powdered	5
	Chanse Clav	
	Lowest gradelg. ton 9.09@11.00 Medium grade	0
	Best grade	05
2		5
2	Converse       20         Black peroxide (retail).       20         Carbonate (retail).       25         Chloride (retail).       20         Nitrate (retail).       22         Oxide.       100 lbs.         100 lbs.       4216/06 501	0
	Chloride (retail) " 2.0	0
	Nitrate (retail) 100 lbs. 1.60@2.0	0
1	Copperas	é
	Acetate, com'l lb16@.2 C. p. cryst. (retail) "	0
-	Carbonate, pure pt20(0.2	$\mathbf{z}$
5		000
2	Nitrate, solution (40°B.)         0.06@.1           Cryst. (retail)         1           Oxide, black         15@.1           Red         15@.2           Sulphate, com 1         0.05½@.03%           Chem. pure         1.05½@.03%           Explosives	9
i i	Red	04
i	Sulphate, com'1 "	Õ
-		
	Judson R.R. powder, by carload	55
1	Dynamite, (40% nitro- glycerine)	0
•		
)	(75% nitro-glycerine) " .3 Glycerine for nitro	6
1	(32 2-10°Be.)	1
,	(60) nitro-glycerne).         "	0
)	Flint—(See Silica). Fluorspar—By carload	0
í	Fuller's Earth-Lump. 100 lbs7 Powdered	50
)	Gilsonite—Ordinarysh. ton 35.0 Select	0
í	Cold	, v
	Chloride, pure cryst. (retail) oz. 11.7 Oxide	
8	Oxide	
3	Gypsum-Am., ground., sh. ton English	0
1007	Iodine-Crude lb. 2.5 Resublimed ** 3.0	5
60	Iron Muriate	1
6	Nitrate, com'l	2
95	Nitrate, com'l	
5	Lond	12
36	Acetate, brown cryst.* "	4
06	White, cryst	260
5	Lime-	
6	Building, about 250 lbs bbl. Slacked and quick "	0
4	Fertilizing	0
6	Lump lg ton 7 00@10 0	
6	Calcined	0
9 1	Powderedlg. ton 30.0 Calcinedsh. ton 40.0	
1	Magnesium – Metallic, ingots (Ger) kg. 6.66@6.9	
5 68	Powdered (Ger.) 4 7.1 Ribbon or wire (Ger.). 4 9.7	6
4	Carbonate lb, .1 Chloride, com'l <sup>14</sup> , .0	1
0	Pure (retail)	
0	Crude, powdered, 70@75% " .0114@.011	107
6	85@.90%	4
0	Metallic, (93%) (Ger.) kg. 1.9	()
5	Pure " 3.8 Carbonate, chem, pure. lb	11
14.7	Oxide, gran'l (90%) "	5
ŝ	Powdered	6
)	Sulphate powdered "	5
1 5	Marble Dust, 400 lbs bbl. 1.10@1.2	05
)	Mercury-Bichloride lb	0 9
5	Red, ppt	9
3	White, ppt	$^{2}$
	Sheets, according to size	2
-	and quality. Mineral Wool-Rock " .021	6
	Nickel	100
	Oxide, black, No. 1 " .65@.7	
	No. 2	
ł	duced 29 gr. 25@30% gal. 0616@.0%	24
	Black, reduced 29 gr. 15 cold test	8
	Black, reduced 29 gr. zero " 11@ 19	2
	Black, summer	F
1	Stock, dark steam ref " .07%@.12%	I,

Prie	t. Meas		s. Price.	t. Mea	Cu
		Salt- Domestic, gr. 200 lbss	1014@ 1514	gal	lls, Mineral –
12	sh. ton	Lump s	10%@.15%	gal.	Dark filtered Light "
	nack	Liverpool, gr. 200 lbs	2012 . 2412		Extra cold test
115	sh, ton	Fines	121/2 @. 181/2		Neutral fittered. lemc- 83@34 gr
	sack	Turk's Island, 200 lbs	2016 @. 2216	*	white, 35(0.34 gr
.03@.0	lb. sh. ton	Saltpeter-Crude Silica-Precipitated	.10%@.14		Wool grade, 32 gr Bloomless, 32@34 gr
8	46 15	Ground quartz, carload	5.50	bbl.	Naphtha, crude
3.00@4	OZ.	Lump quartz Silver-Chloride (retail).	6.00 3.50	Ed.	Deodorizee Petroleum, refined, bulk
1	66 66	Cyanide (retail) Nitrate.	200 25		Paraffine, high viscosity
.40@.4		Nitrate.	.11@.1116	**	Red No. 1
1	66	Sulphide (retail)	.11@.1114 .1042 .12@.13	46	No. 2 231/2@24 gravity
	ka	Sodium— Metallic, in Germany	.071/2 (0.091/2	**	28@32 gravity
.031/4@	kg. lb.	Acetate	.11@.1112	lb.	25 zokerite-Imported
	**	Chem. pure, rused	.021/4 @.023/4	6.4 6.6	aints-Blanc Fixe
081/2@.0	44 '	Bichromate Bisulphite, com'l dry	.85@.40 .27@.28		Benzoin, Samatra Marbled
.47@	64	Bromide	.05@.09	6.6 6.5	Chrome, green, com'l
.101/2@	66 66	Carbonate, pure (retail) Chlorate, cryst	.10@.19 .20@.40	46	Green, extra Chem. pure
.107200	OZ.	Cyanide, pure (retail)	.05@.09	4.6	Yellow, common
.471/2@1	1b. 1	Hyposulphite	.10@.15 .16@.33	66 66	Com'l
7%@.0	lb.	Molybdate, pure (retail) ( Nitrite	.03@.05	65	Chem. pure Lampblack—Com'l
7%@.0	46	Oxalate (retail)	.08@.10	66	Refined
.03@.0	46	Phosphate, gran. pure Cryst. c. p. (retail)	.10@.20 .20@.30	44	Calcined Fine spirit
	**	Dry, c. p. (retail)	.051/4 @.051/2	66	Litharge, American
1	66	Salicylate	.06%@.07		English flake Metallic, brown
.01@	44	Silicate, p. cryst. (retail) Com'l, lumps	20.00@, 22.00	6.5	Red
	45. 115	Sulphate, pure Sulphite, cryst	1.10@1.20	lb. sh. ton	Ocher, Rochelle American
.04@	* 6	Granulated (retail)	021.600.04	lb.	Golden
1	8.6 8.6	Tartrate, c. p. cryst	.043/ @.05	**	Dutch washod
	**	Tungstate, com'l(retail) Pure	.0102.01%	66	French "
	12	Strontium-	.0616@.0634	66 66	English
.13@	lb.	Carbonate, precipitate Nitrate	.0816@.09 .0616@.065%	6.	French German
071/4@.0 .39@	46 100 H	Nitrate Oxalate	.13@.14	66 66	Paris green, in bulk
1.65@1	100 108.	Sulphur-Flour 1 Roll	$.05\frac{1}{6}$ .05 $\frac{1}{6}$ .05 $\frac{1}{6}$ .06 $\frac{1}{2}$	46	Red lead, American Foreign
i	4.6	Sublimed	.15@.17	46	Shellac, No. 2, Orange.,
.40@	lb.	Pure, precipitated Talc-American	.16@.17 .18@.19	66	T. N. A. C. Garnet
.90@.1	100 10S.	French	.17%@.18	6.5	Bleached
	sh. ton !	Italian	.2160.22	66 66	S. S. & S. O. S
s. 14	100 grm	Metallic, c. p. (Ger)	.221/6	44	Triangle G V. S. O
ę	**	Powder	.26	66 66	Diamond I
	lb.	Tin- Chloride, pure cryst.	.26@.27 .001/2@.01	66	D. C Sienna, American raw
	8.6	Fused cryst. (retail)	.011/4 @.011/2	**	Burnt and powder
09¼@.0 .06@		Crystals	.011/4@.031/2	65	Italian, raw, lumps Burnt and powder
.21@		Muriate Oxide	.02%@.031/2 .03@.25	**	Ultramarine
	OZ.	Protoxide	.021/6 .031/4	44 66	Umber, Turkey burnt
4	15.	Tripoli–Powder Uranium–Oxide	.021/4@.03	66	Raw American burnt
		Zinc-	.011/4@.011/2	*.6	Raw
.051/2@	66	Carbonate Chloride, gran	.14@.,16 .52@.55	6.6 6.L	Vermilion, Amer. lead Quicksilver
	4.6	Dust, indigo auxiliary.	.70@.75	**	Chinese
.021/6@	84 64	Sulphate Sulphide, com'l	.60@.65	4.5	English, imported Artificial
.04720		Zirconium-	.10@.20	6.6	White lead, Am., dry
	OZ.	Oxide (retail)	.051/4@.06	44	In oil
		Oxide, hydr. (retail)	.0434@.0716 .0416@.05		Foreign, dry
TS.	EMEN	THE RARE EL	40@.45	100 lbs	Whiting, common
rks in G		Prices given are at mak	.50@.55	16.	Gilders Zinc white, Amer., dry.
as. Pr	'ust Me	many, unless otherwise n	.057/2	6.6	Antwerp, red seal
84	. tube.	Argon-Spectrum (N.Y.).	.0634 .0634	4.6	Green seal Paris, red seal
1	· grm.	Barium-Amalgam Electrol.	.0818	**	Green seal
(		Beryllium-Powder			alladium-
5	**	Crystals	.77	5.4	Metallic (Ger) Black (Moor)
1	5.6	Boron-Amorphous, pure Crystals, pure	.05@.051/2	lb.	earl Ash
4		Calcium-Electrol	.08 9.00	gal.	itch -Coal tar latinum-Bichloride
08.	100 gri	Cerium—Fused Chromium—Fused			lumbago - American.
1	. kg.	Com'l pure powder	95 00/2 90 00	sh ton	pulverized, f.o.b., Providence, R. I
5.47@	. grm. . kg.	Chem. pure cryst Cobalt (98@,99%)	.01@.0114	Ib.	German, hump
30		Pure	.01%@.0134	66	Pulverized Ceylon, crude
4	. grm.	Didymium-Powder	.011/4@ 041/2 .02@.05	6.6	Pulverized
6	. grain	Erbium Gallium		64	otash Alum-
35 35	OPPER	Germanium_Powder	.05@.06	46.	Caustic, pure white (76@78%)
6		Fused. Glucinum – Powder	.06@07	66	(90%)
5		Crystals	18.56	kg.	Metallic, in Germany
6	.) tube. . grm.	Hel'umSpectrum (N.Y. Indium.	30	lb.	Acetate (retail).
1		Iridium-Powder	.0860.81/1	**	Bicarbonate cryst Bichromate
1		Fused Lanthanum-Powder	.10@.1014	44	Bromide
8		Electrol, in balls	.0434 @. 051/6	64 84	Carbonate
2		Lithium	.25 .47	6.6	Chloride, pure (retail) Chromate (retail)
ns. 15	6) kg. . 100 gri	MolybdenumCom'l(95% Fused, electrol	.2560.26	44	Cyanide (98@100%)
8	. grm.	Niobium Chem. pure	.36@.38	*5	Ferricyanide, red, com'l Chem. pure
3	6.6	Osmium Rhodium	1.25		Ferrocyanide, yellow.
4	4.6	Rubidium – Pure	.14	**	com l Chem. pure
1		Ruthenium Selenium – Com'l powder	2.35@ 2.40	**	Iodide, bulk
40		Sublimed powder	2.45@ 2.65	6.6 6.6	in ootties
33 23	4.5	Sticks	.05	**	Nitrate, double refined Chem. pure cryst
a 18	100 ceres	Silicon—Amorphous Crystals, pure	.05@.07 .20	**	Oxalate, neutral (retail)
0	grin.	Strontium-Electrol	.19@.20	6.6. 6.6	Permanganate, pure cr.
4 29	64	Tantalium-Pure	.34 .16	**	Chem. pure (retail) Sulphide, com'l
7	orm	Thallium Thorium	1.00	44	Chem. pure
	**	Titanium	.53	**	Tartrate (soluble tartar).
		Uranium Vanadium-Fused	6.00	g. ton	Am., iron (50%
1			0.00	66	Smalls
1	kg.	WolframCom'l (95@98%)	5.80	61	Spanish Mar
1	) kg. 100 grn	WolframCom'l (95@98%) Fused.	6.50	66 68	Spanish, Non-cupreous. Iron, smalls
1. 15. 15. 4. 8. 119.	) kg. 100 grn	WolframCom'l (95@98%)		 1b.	Spanish, Non-cupreous. Iron, smalls aartz—(See Silica). A Ammoniac – White

	cui cui	st. Mea	s. Price.
	Salt-	and a	
3	Domestic, gr. 200 lbs Lump Liverpool, gr. 200 lbs Fine Lump. Turk's Island 200 lbs	SACK	51.
3	Lump	sn. ton	12.00
5	Liverpool, gr. 200 108	Mack	.75 1.88
1	Fine	-1	1.85
2	Lump. Turk's Island, 200 lbs	sh, ton	15.00
24	Turk's Island, 200 lbs	Sack	.25
	Saltpeter-Crude Silica-Precipitated Ground quartz, carload Lump quartz	10.	.03@.081/4
8	Silica-Precipitated	sn. ton	\$12.00
0	Ground quartz, carload		8.50
0	Lump quartz. Silver—Chloride (retail). Cvanide (retail).		
0	Silver-Chloride (retail).	OZ.	.90 1.00
5	Cyanide (retail). Nitrate, Oxide. Sulphide (retail).		1.00
2	Nitrate.		.40@.4116
Caso	Oxide	66	.40@.4116 1.10
	Sulphide (retail)	66	1.00
2			
20	Metallic, in Germany	kg.	1.19
9	Acetate Chem. pure, fused	lb.	.031/4@.08
1	Chem. pure, fused		
0	Bichromate Bisulphite, com'l dry	**	.081/2@.081/
8	Bisulphite, com'l dry	65	.07
19	Bromide		.47@.48
9	Carbonate, pure (retail) Chlorate, cryst	6.6	.10
0	Chlorate, cryst	6.6	.101/2@.11
9	Cyanide, pure (retail) Hyposulphite Molyblate, pure (retail)	OZ.	.55
15	Hyposulphite	1b.	1.471/2@1.80
33	Molybdate, pure (retail)	OZ.	.50
応	Nitrite. Oxalate (retail). Phosphate, gran. pure Cryst.c. p. (retail).	lb,	.07160.0734
0	Oxalate (retail)	46	.071/2@.073/4
20	Phosphate, gran, pure	66	.03@.0316
30	Cryst. c. p. (retail)	66	.30
6	Cryst. c. p. (retail) Dry, c. p. (retail) Salicylate	4.6	.50
6977	Salicylate	6.6	.35
10	Silicate, p. cryst. (retail)	6.6	1.10
10	Salicylate Silicate, p. cryst. (retail) Com'l, lumps Sulohate, pure.	6.6	.01@.04
20	Com'l, lumps Sulphate, pure Sulphite, cryst Granulated (retail) Tartrate, c. p. cryst	44	.10
00	Sulphite, cryst	**	.04@.06
)4	Granulated (retail)	* 6	.16
15	Tartrate e p. cryst.	8.6	1.00
14	Tartrate, c. p. cryst Tungstate, com'l(retail)		.35
4	Pure	4.6	.50
4	Strontium-		.00
3		lb.	.13@.14
KA	Nitrata	44	001460 0014
14	Ovalata	66	.01 /4 00.01 /0
	Sulphun Flour	100 11.	1.65 @ 1.92
100	Ball	100 108.	1.00@1.70
2007	Roll	45	1.00
11	Suonmed	11	1.90
17	Carbonate, precipitate. Nitrate Oxalate Sulphur-Flour. Roll Sublimed. Pure, precipitated <b>Tale</b> -American French.	10.	.12
19	Tale-American	100105.	40(0.00
18	French		.10(0)1.50
22	French Italian Tellurium—	sn. ton	20.00@85.00
12	Tellurium-	100	41.00
24	Metallic, c. p. (Ger)	. 100 grn	ns. 14.28
26	Powder		9.52
27	Tin-		
01	Chloride, pure cryst.	Ib.	.22
1	Chloride, pure cryst. Fused cryst. (retail) Crystals	**	.50
	Crystals	**	.091/4@.091/6
12	Muriate	4.5	.09¼@.09¼ .06@.08
225	Muriate. Oxide. Protoxide. <b>Tripoli</b> –Powder.	6 m	.2160.25
4	Protoxide	OZ.	.25
03	Tripoli-Powder	lb.	.04
19	Uranium-Oxide	6.0	4.00
1216	Zine-		
16	Carbonate	6.6	.15
55	Chloride, gran	6.6	.051/2@.08
75	Carbonate. Chloride, gran. Dust, indigo auxiliary, Sulphate. Sulphide, com'l.	44	07
65	Sulphate	66	.021/2 .021/2@.06
20	Sulphide, com'l	64	.021/20.06
05	ZIFCOHIUM-		
06	Oxide (retail)	OZ.	.85
1/2	Oxide (retail) Oxide, hydr, (retail)	66	.66
05			
45	THE RARE EI	EMP	NTS
55			
	Prices given are at mai	Kels, M	orks in Ger-
22	many, unless otherwise r	noted.	Del.
12/23/4	A	Cust. M	eas. Price.
4	Argon-Spectrum (N.Y.).	tube.	\$5.00
12		. grm.	1.19
18	Electrol		5 71

	in Ger-
nany, unless otherwise noted. Cust. Meas.	Price.
Argon-Spectrum (N.Y.) tube.	\$5.00
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Beryllium–Powder "	6.42
	9.52
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CALCINIII — FACCUOL.	4.28
CCIRCIAL TUSCU	2.02
Chromium-Fused 100 grms.	5.95
Com'l pure powder kg.	1.90
Chem, pure cryst grm.	.24
Cobalt-(98@.99%) kg. 5.4	7@5.71
Pure	30.94
Didymium-Powder grm.	4.28
Erbium	8,57
Gallium grain	6.15
	33.32
Formanium-Powder, grm.	35.70
	6.42
THE THEFT TOWART.	
UT y Stalls	9.52
Hel <sup>*</sup> umSpectrum (N.Y.) tube.	6.00
ndium grm.	4.05
Iridium-Powder	1.25
Fused **	1.31
Lanthanum Powder "	4.28
Electrol, in balls	9.04
Lithium	2.38
Molybdenum-Com'l(95%) kg.	2.86
Fused, electrol 100 grms.	15.47
Niobium-Chem. pure grm.	3.81
Smium	.83
Rhodium	3.57
Rubidium – Pure "	4.76
WILLPATERIE III - I HIC	1.49
CTELINE HILLING	30.94
selenium - Com'l powder kg.	40.46
CUCKBALLALLA ANTICIALIA	33.32
HICOn-Amorphous	23.80
Crystals, pure 100 grms.	13.09
trontium-Electrol grm.	6.19
Cantalium-Pure	4.28
Thallium kg.	29.75
fhorium grm	7.85
litanium	.71
ranium	.60
anadium-Fused	1.43
anadium-rused	.95
VolframCom'l (95@98%) kg.	15.47
Fused	4.76
Powder, pure kg.	3.33
ttrium grm.	
ttrium	119.00

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Inst. of Technology Michigan Mining School. University of Arisona. Electrical Hatteries Machet, James, & Co. Denver Eng. Was. Co. Cooper, Hewitt & Co. Diffrey Mig. Co. Dimers, Conversors and Hoisting En-Coalifornia Wire Was. Cooper, Hewitt & Co. Denver Eng. Was. Co. Dimers, Conversity. State & Commers. State & Commers. Dimers, Consens. State Stringer. See Directory Pages 4, S and 6. States Co. Bergen eng. Commers. Dimers, Consens. Builtock & Commers. State Co. Beners. Commers. Dimers. Dim Bryers. Brown, Horace F. Cummer& Son Co. New York Beiting & Packing Co., Lt Scales. Fultbanks, Morse & Co. Bereens. Altohison, R., Perf. Metal Oo Denver Eng. Wike, Go. Praser & Chaimers Gates iron Works, Harrington & King Perforating Co. Link act Machinery Co. See Machiners Co. Batemers and Dies Constar Steel Co. Batimers Copy Wir. Batimore Copy Wis. Co. Batimers Copy Wir. Gon. Kas. City S. & Batimer Copy Wis. Co. Batimers Copy Wir. Bitori Copy Co. Batimers Copy Wis. Co. Steel Kalis, Umstings, Relis, Drill Steel Gates Evel Co. Bate Wheels. Betholem Iron Co. Chester Steel Co. Steel Kalis, Umstings, Relis, Drill Steel Betholem Iron Co. Chester Steel Co. Batimers Co. Steel Kalis, Umstings, Relis, Drill Steel Betholem Act Co. Betholem Act Co. Chester Steel Co. Steel Kalis, Umstings, Relis, Drill Steel Chester Steel Co. Steel Steel Co. Steel Steel Wheels. Chester Steel Co. Steel Steel Wis. Co. Chester Steel Co. Steel Steel Co. Steel Steel Co. Steel Steel Co. Chester Steel Co. Steel Steel Co. Steel Steel Co. Steel Steel Co. Chester Steel Co. Steel Steel Co. Steel Steel Co. Chester Steel Co. Steel Steel Co. Steel Steel Co. Steel Steel Co. Steel Steel Co. Chester Steel Co. Steel Co. Steel Steel Co. Steel Co. Steel Steel Co. Steel Steel Co. St ply Co. Manganese Steel. Taylor Iron & Steel Co. Mathison Sm'iting Co. Mathiessen & Heg-eler Zinc Co. Montana Ore Purchas-Metal Dealers Merican Dev., & Mathiaon Sm'iting Oo. American Metal Oo. Am. Zinc-Lead Oo. Baith, Henry & Bon. Besty, Coas. H.,&Co Bridgeport CopperCo. Billott's MetalCo.,Ldi Eureka Co. Jonnson.Matthey&Co Lambert's Whart.Co. Lewwohn Bros. Belt Lacing. Bristol Co. Blasting Cabs. Metallic Cap Mfg. Co. Metanic Cap Atteries, Caps and Fuse. Climax Fuse Co. Lau, J. H., & Co. Beller, Compound. Parsons, J. H., Chemical Co. Lewischn Bros. Motaliurgioni Works and Ore Pur-chauers' Processes American Dev. & Mg. Co. American Dev. & Mg. Co. American Dev. & Mg. Jance Co. Jaibach Sm. & Ref.Co. Baitimore Copper Was. Co. Con. Kas. Lity B. R. Co. Denver Eng. Wise. Co. Elliott's MetalCo.Ltd. Wine time. Parsons, J. H., Onether **Bellers**. **Bellers**. Parver Eng Wks. Co. | Philadelphia Eng. Parver & Chaimers. Por ock. Wm. B. 3 + 0. Stilwell - Bierce & Billin, Chas. E. & Co. (See Machinery.) Brattice Cloth. Bealy, Chas. H.,& Co. Brick Machinerr. Freese, E. M., & Co. Elliott's means Mine Cars Fairbanks, More & Co. Hendrie & Bothoff Mfg. Co. Hunt, C. W., Co. Neisonville Foundry & Machine Co. (See Machinery.) Berlin iron Bridge Co. Berlin iron Bridge Co. Gillette-Herzog Mfg Co (See Machinery.) Brimstone Apparatus, White, Edw. F. White, Edward 2. Tanas. Billin, Chas. E. & Co. Denver Eag. Wks. Co. Fairbanks, Morse& Co. Gates i ron Works. Williams Mfg. Co. Telegraps Wires and Cables Okonite Co., Ltd., (See Machinery.) Mine. Mili and Smolters' Supplies. Cuninghame & Co. Denver Eng. Wiss. Co. Gates Iron Hassiacher Chemical Co. Koes Machinery.) Mining and Lance (See Machinery.) Mining and Lance (See Machinery.) Co. Atianate Mg. Co. Atizona Copper Co. Nickes. Canadian Copper Co. Order Grouper Co. Mar. Co. Carbons New York Diamond Drill Co. Lexow. Theodor. Baginer, M. C. Mfg. Co Builock, M. C. Mfg. Co Faitbanks, Morse&Co. Stilweil - Bierce Chain and Link Bolting (See Belting.) Chemical Engineers. Dunbar, R., & Son. 
 Dunbar, R., & Son.
 McCandless Chemical Bater & Adamson.

 Balter & Adamson.
 McCandless Chemical Laboratory.

 Bullock & Cronshaw
 Roessier & itasslacher Chemical Co.

 Fuers & Bros. & Co..
 Sargent & Co., E. H.

 Hearr Heil Chem. Co.
 Soury Process .c.

 Penn. Bait Mfg. Co.
 Western Chemical Co.
 Teols Besly, Chas. H., & Co. Pratt & Whitney Co. Tubes Besly Chas. H., & Co. | Pollock, Wm. B. & Co. Bubing-Rubber New York Beiting and Packing Co., Ltd Konvators Excavators Bucyrus Steam Shovel & Dredge Co. Marion Steam Shovel Co. Vulcan Iron Worss. Fire-Brick and Clay Chur, Walter. Denver Fire Clay Co. Garcen City Sand Co. Standard Fire Brick Co. HuarsBar. Chemical Plumbers. Volimer & Beaton. Turbine Water-Wheels American Impulse Wheel Co Leffel, Jas., & Oo. Peiton Water Wheel Co. Stilweil-Bierce & Smith Vaile Co Ueal. Serwind-White Coal Mg. Co. Coastner & Curran ConsolidationCoal Co. Potta, F. A., & Co. Stickney, Conynghan Coal Cutters. (see Machinery). Ingersoll-Sergeant Drill Co. Jeffrey Mg. Co. Ling feit Machinery Co. Cent Ore Cars. Gillett & Herzog. Ore Moasters Brown, Horace F. Cummer, F. D., & Sons Co. Dunbar R., & Son, Eddy Valve Co. Eddy Valve Co. Fairbanks Morse, & Jenkins gros Lunkenheimer Co Poweil, Wm., Co. Ore Testing Works Hunt, F. F. I Ricketts & Banks, Ledoux & Co. Robertson, W. F. Montana Ore Purchas ing Co. Fuerst Bros. & Co. Fuerst Bros. & Go, Fuerst Bros. & Go, Billin, Chas, E. & Co. Brown, Borace F. Denver Fire Chay Co. Sargent & Co., E. H. Ster Babbiaser, J. Fower a Chalmers. Tod, Wm., & Co Fraser & Chalmers. Cont Washing Machinery. Cuninghame & Co. wright Cuninghame Jeffrey Mfg. ( Racking and Pipe Ceverings. Brandt, Randolph. Jenkins Bros. Robertson, J. L., & Son Fuses. Ingersoll-Sergeant Drill Co Macbeth & Co. Gas Engines. Hercules Gas Engine Works Union Gas Engine Co. oltmeters. Weston Electrical Instru Compressed Air Shop Tools. Clayton Air Compressor Works. Vulcanite Kmery Wheels New York Belting and Packing Co., Lt3 Campressors. Campressors. Clayton Air Compressor Works. Ingersoli-Sergeant Drill Co. Laidiaw-Duan-Gordon Co. Norwalk fron Works Co. Rand Drill Co. American Impulse Wheel Co. Leffel, James, & Co. Petton Water Wheel Co. Stilwell-Bierce & Smith-Valle Co Perforated Metals. Aitchison, R., Perf. Metal Co. Fraser & Chaimers. Harrington & King Perforating Co. Gas Works Pollock, Wm., B. & Co. | Wood, R. D. Rand Drill Co. Concentrators, Crushers, Pulveriz, ers. Separators, Etc. Milis Co., Ed. P. Bradiny Pulveriser Co. Concentration of the Co. Person of the Concentrator. Gates from Works, Henoric Works, Strates from Works, Henoric Works, Gates from Works, Gates from Works, Henoric Works, Co. Krupp, F. Henoric Monther, McCuity, R. Haymond Berg, Instant Data Co. McCuity, R. Gauges, Recording, Etc. Bristol Co. Peroxide of Sodium. Roessler & Hasslacher Chemical Co. Weil Drilling Machinery. Builivan Mach'y Co. | Williams Bros. Brisiol Co. Genring Besly, Chas, H., & Co. '| Denver Eng, Wks. Chester Steel Cast. Co. | Fraser & Chalmers (See Machinery.) Grease, Graphice, Ktc. Besly, Chas. H. & Co. | Fuerst Bros. & Co. Diton. 200. or uc. Co. Wharfage. Lambert's Wharfage Co. Phosphor-Bronze. Phosphor-Bronze Smelting Co. Lampert's whattake Uo. Wheels, Clar. Chester Steel Cast. Co. Taylor Iron & Steel Co. Wire Clath. Aitchison, R., Perf. Metal Co. Harriarco & King Perforsting Oo. Tyler, W. S., Wire Works Co. Plie Drivers. Bucyrus Steam Shovel and Dredge Co. Ingersoll-Sergeant Drill Co. Heavy Machinery. Denver Eng. Works Co. Fraser & Chalmers. Pines Billin, Chas. E. & Co. Fairbanks, Morse & Co. Power Specialty Co. Wyckoff, A., & cons, Tyler, W. 3., Wire Works Co. Windmills, Fairbanks, Morse & Co. Wire x.ope & Wire Bely, Chas.H., & Co. Broderick & Baseom Rope Co. California Wire Wixe. Cooper Hewitt & Co. Hunt, C. W. Co. Hunt, C. W. Co. Hose, Rubber, Etc. New York Beiting & Packing Co. Ltd. Link Belt Machinery Co., McCully, R., Raymond Bros. Impact Pulv. Co., Steaman Foundry & Mach. Co., Walburn-Bwenson Co., See Machinery.) See Machinery.) Cantractors. (See Machinery.) Hydraulic Rams. Power Specialty Co. Piatinum. Baker & Co. Johnson, Matthey & Co. Walourt-swemen XXX See Machinery.) Cenvering Beltz, Robins Conveying Belt Co. Cesper in Reitars and Producers. American Metal Co. Atlantic Ming Co. Atlantic Ming Co. Atlantic Ming Co. Balbach S. 28 C. Co. Balbach S. 28 C. 200 Bath, 28 Son Bath, 4, 28 Son Bridgeport/CopperCo. Injectors. Jenkins Bros. Lunkenneime Plumbage (See Graphite.) er Co. Powder. Atlantic Dynamite Co. Ingersoll-Sergeant Drill Co. Insulated Wires and Cables Okonite Co., Ltd. Hunt, C. W. CO Wire Hepe Tramway. Brown Hoist, & Conv. Roebling, J. A., Bon Machine Co. California Wire W'ks. Colorado Iron Works. Brohert & Chalmers. Hunt, C. W. Co. Valcan Iron Works Insurance Companies. Hartford Steam Bolley inspect'n and Ins.Co Mutaai Life Insurace Co. Iron Ore. Spanish-American Iron Co. Lead Burners. Vollmer & Beaton. Profice. If "A & C. Trade Review American Fertilizer, Austratian MaxStand. British Columbia Mining Investor, Mining Journal.

## POSITIONS VACANT

Free Advertising. Inquiries from employers in want of Superintendents, Engineers, Merallurgists, Chemists, Mine or Furnace Foremen, or other assistance of this character, will be inserted in this column WITHOUT CHARGE, whether subscribers or not.

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

ET Applicants should inclose the neces-sary postage to insure the forwarding of their letters.

1534 WANTED — AN EXPERIENCED Placer Mining Foreman; one who is capable of taking full charge of a placer mine and is able to put in such improvements as will be required; building dams for holding water in reservoir, digging ditches, and putting in pipe and giant. Must also be familiar with under currents. Must come with best recommen-dations as to ability and honesty. State experience and salary expected. Mines are located in Oregon. Address PLACER FOREMAN, ENGINEERING AND MINING JOURNAL.

1535 WANTED-MILL SUPERINTEND-ent for Peru; must fully understand the amalgamation of silver ores by the latest processes. House rent and table board furnished free. State experience, salary desired and references. Address PERU, ENGINEERING AND MINING JOURNAL.

1536 WANTED - AN ASSAYER AND Chemist for the City of Mexico; preferably one having had experience in Western smelter practice, Salary \$150 Mexican currency per month. Address, stating age, experience and references, PUENTE, ENGI-NEERING AND MINING JOURNAL.

1537 WANTED — MINING ENGINEER for State of Durango, Mexico. Must be competent to assume full charge of mining operations, erect plant, conduc, development and prospect work, assays, etc. Must speak Spanish and be thoroughly re-liable. Address, with full particulars as to experience, ability and salary desired, DURANGO, ENGINEERING AND MINING JOURNAL. MINING ENGINEER

1538 WANTED-A MINING ENGINEER of a technical school, to go to Peru; must have best references as to competency and reliability, and good knowledge of Spanish language. Address, stating galary expected, etc. LIMA, ENGINEERING AND MIN-ING JOUKNAL.

1539 WANTED.—A FIRST-CLASS SUR-mill and craniding plant. State qualifications, recom-mendations and silary expected. Address C., ENGI-NEERING AND MINING JOURNAL.

1540 WANTED-COMPETENT ASSAYER 1040 and Refluer for Jewelry Factory at Seat le, Washington. One who is ready to go without delay for good pay. Address SEATTLE, ENGINEERING AND MINING JOURNAL.

#### SITUATIONS WANTED.

Advertisements for SITUATIONS WANTED will be charged only 10 cents a line.

MAN, 27 YEARS OLD, WITH TECH-A A MAIN, 21 Internet at a meal education, previously assistant chemist at a large smelter and now with a consulting engineer, desires a position in the fall with a milling, swelting or refining company. Good references. Address C. D., ENGINEERING AND MINING JOURNAL, No. 18,040, Aug. 14,

WANTED BY MINING ENGINEER POSI-W ANLED DY MINING ENGINEER POSI-tion as superintendent of mine or mill; fully competent to take charge of iron, silver and gold mine, and understands steam and electric mining machinery has had similar position, and is familiar with handling men; fine recommendations. Address No. 3a, Excl. NEERING AND MINING JOURNAL. No. 18,059, Aug. 14.

SUPERINTENDENT.-POSITION AS MINE Superintendent wanted by an experienced man now under engagement with well-known mining com-pany; first-class mechanic; utderstands all details of Superintendent wanted by an experienced man now under engagement with well-known mining com-pany; first-class mechanic; urderstands all details of mining from the sinking of shafts to the development of same. Specialties: reduction of costs and increase in production of output. Address PRACTICAL, Exon-NEERING AND MINING JOURNAL. No. 18,042, Aug. 7.

SOUTH AMERICA OR MEXICO-AN AS South AMERICA OR MEAICO-AN AS-ayer and chemist who is familiar with heavy electric and steam machinery desires a position. Speaks Spanish; can give good recommendations. Ad-dress L. E. W., ENGINEERING AND MINING JOURNAL, No. 18,055, Aug. 7.

CHEMIST-LEHIGH UNIVERSITY GRADU-Date wants position as Chemist. Some experience Best of references furnished. Address A. C., ENGI-NEERING AND MINING JOURNAL. No. 18,(60, Aug. 21.

A MINING ENGINEER 26 YEARS OF AGE, now under engagement with well-known mining company, desires changa; has been continuously em-ployed for past five years in every cancely; thorough assayer and chemist, Address MINING, ENGINEER-ING AND MINING JOURNAL. No. 18,030, Aug. 14.

POSITION WANTED BY MINING ENGI-neer and metallurgist; also good chemist; 20 years' experience; good references; will go to any country. Address ENGINEER, ENGINEERING AND MINING JOURNAL. No, 18,052; Aug. 7.

\$7,800 GIVEN AWAY TO PERSONS out of the phrase "Patent Attorney Wedderburn." For full particulars wittenhe National Recorder, Wash-ington, D. C., for sample copy containing same.

## CONTRACTS OPEN.

TREASURY DEPARTMENT, Office Supervis-ing Architect, Washington, D. C., July 27, 1897.-Sealed proposals will be received at this office until 2 o'clock P. M. on the 31st day of August, 1897.-and opened im-imediately thereafter, for furnishing all the labor and materials required for trench excavation, concrete foundations, iron work and brick arches of terrace, and stone and brick work of basement, area and terrace walls for the U. S. Mint Building at Philadelphia, Pa., in accordance with drawings and specification, copies of which may be had at this office or the office of the superintendent of the Mint at Philadelphia, Pa. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the government to do so. All pronosals received after the time stated for opening will be returned to the bidders. C. E. KEMPER, Acc. Orig. SEWERS.-Sealed pronosals will be received by TREASURY DEPARTMENT, Office Supervis

ing Supervising Architect. Orig. SEWERS.—Sealed proposals will be received by the city of Corry until 8 p.m., Monday, August 9th, 1897, for the furnishing of the material and the con-struction of the C agress succet system of sewers(about 2 miles of 10, 12, 15, 18, 22 and 24 in. pipe sewer), together with manholes, catch-basins, etc Also for the furnishing of the material and the construction of the Smith street sewer (about 775 ft. of 18 in. pipe sewer), together with manholes, catch-basins, etc. Al.o for the furnishing of the material and the construction of the Franklin and Mott street sewer (about 1,300 ft. of 10, 12 and 15-in, pipe sewer), together with manholes, catch-basins, etc. Also for the turnishing of the material and the con-struction of the Spring and Church street sewer (about 1,337 ft. of 10, 12 and 15-in, pipe sewer), together with manholes, catch-basins, etc. Also for the furnishing of the material and the con-struction of the Washing of the material and the con-struction of the Washing etc. Also for the furnishing of the material and the con-struction of the Washing, etc. Also for the furnishing of the material and the con-struction of the Wast Church street, Euclid street and second avenue sewer (about 2,790 ft. of 12, 15, 22, and 24-in, pipe sewer), together with manholes, catch-basins, etc. Bids must be in duplicate, one addressed to City

In pipe revery, together with mannels, eaten-basins, etc. Bids must be in duplicate, one addressed to City Clerk, and the other to City Controller. The bids ad-dressed to City Clerk must contain cash or certified check, payable to the City Treasurer, as a guarantee that in case the contract is awarded, the successful bidder will, within 5 days after notice in writing from the City Engineer, execute said contract. The amounts of each or checks are as follows:

Congress street system\$50	10
Smith street sewer 10	10
Franklin and Mott street sewer 10	K
Spring and Church street sewer 10	N
W. Church, Euclid and Second avenue sewer 20	)()

Bonds to an amount not exceeding one-third of the contract price, with securities satisfactory to the City Solicitor, will be required of those to whom contracts are awarded. The Councils reserve the right to reject any or all bids, also to wrive defects in form. Plans and specific cations may be seen at the office of the City Engineer, and bidding sheets may be there obtained.

ARTESIAN WELLS.—Sealed proposals will be received at the Mayor's office, Scranton, Miss., until 12 o'clock, noon, August 18th, 1897, for sinking and fur-niching materials for a 6-in, artesian well, which will probably be about 800 ft, deep. No bid will be con-sidered unless accompanied by cash or cert.fied check payable to the order of the Treasurer of the town of scranton, Miss., for % of the amount of the bid, to in-sure good faith and to be forfeited to the town of Scran-ton if the bidder fails to enter into a contract and file a satifactory bond within five days after notice has been given that he has been awarded the contract. Specifi-cations may be obtained by addressing J. D. Clark, Mayor, pro tem., Scranton, Miss., to whom all propo-sals or other communications are to be addressed. Bids must state fully and clearly therein just how the bidder proposes to finish the well on the bottom. The right to reject any or all bids is reserved.

WATER-WORKS.—Sealed bids will be received at the office of the Secretary of the Committee on Im-provement of the Water-Works of the city of New-bern, Tenn., until 2 o'clock p. m., on Monday the 23d day of August, 1897, to furnish the necessary material, etc., and to erect and install the following; 1,300 ft. (approx.) of 8 in. cast-iron water pipe; 1,300 ft. (approx.) of 6 in. cast-iron water pipe; 7,200 ft. (approx.) of 6 in. cast-iron water pipe; 2,20 ft. (approx.) of 6 in. cast-iron ster pipe; 2,20 the solarity special castings; thalf ton of flanged special castings; two 8 in. gates; two 6 in. gates; eicht 4 in. gates; 12 gate boxes; 22 ftre hydrants; one 8 in. tubular well; one 65,000 gat. Steel tank, and 50-ft. steel tower. All in accordance with the plans and specifications on file in my office. Each bid must be accompanied with a certified check for §250. The Committee reserves the right to reject any and all bids. WATER-WORKS .- Sealed bids will be received

ELECTRIC LIGHTING.—Sealed proposals will be received at the office of the town clerk until 1 o'clock p. m. August 12th, 1897, for lighting the town of Leb-anon, O., by electricity. Liberal franchise will be granted. Proposals to be for a term of five years or more, with price of purchase of plant on completion and at stated times thereafter. Each bidder to furnish his own plans and specifications and each bid must be ac-companied by a certified check for \$1,000. The council reserves the right to reject any and all bids.

DITCH.—Sealed proposals will be received by the Drainage Commissioners of the city of Momence, III, until August 12th.1897, at 1 of clock p. m., for the con-struction of a main dich and six branches in the Hop-kins Drainage Digitrict in Kankakee County, State of Illinois. The ditch and branches will be about 15 miles long and constructed by dredge, and will require the removal of approximately 320,000 cu. yds. of earth. Said bids will be opened at the office of B. F. Gray, over Ex-change Bank, city of Momence, III. Plans and profiles and specifications of the proposed work may be ob-tained by calling at or addressing the office of J. L. Clark, engineer of the said district of Momence, Illinois, & Sch bid must be accompanied by a check certified for \$590.

LEVEE CONSTRUCTION.-U. S. Engineer Office, Equitable Building, Memphis, Tenn.-Sealed proposals for Levee Construction in Third District, improving Mississippi River, will be received here until 1:30 p. m., August 11th, 1897, and then publicly opened. Information furnished on application.

HOISTING MACHINERY FOR HEAD GATES --Proposals will be received by the Water Board un---Proposals will be received by the Water Board un-til 3 o'clock p. m., August 9th, 1897., for hoisting ma-chinery for head gates for water-works, Bangor, Me, Same are to be made in accordance with plans and specifications of the work, which can be seen at the of-fice of the Water Board or may be obtained of A. B. TOWER, Holyoke, Mass. The right is reserved to re-ject any or all bids.

STONE BRIDGES.--Sealed proposals will be received by the Board of Selectmen of the town of Kill-ingly, at the office of the Clerk of the Board in Daniel-son, Conn., until 12 o'clock noon, on August 7th, 1897, for constructing three stone arch bridges. Plans and spec-ifications may be examined at the office of O. W. Bowen, Clerk of the Board of Selectmen. The select-men reserve the right to reject any or all bids.

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FOR SALE.—One five-million-gallon, Worthington, high-duty pumping engine. This engine has been used at the Eastern Pumping Station of the Baltimore City Water Department since 1892, and 1s in first-class re-pair, having been in service up to June 15th, 1897. The engine was removed, as the service required a larger engine. The engine is of the Worthington compound type, with high duty attachment, and is as good as new, having been curefully cared for. The engine has given in regular service a duty from 75,000,000 to 85,000, 600 foot pounds, pumping 6,500,000 gallons in 24 hours. For price and other details apply to NICHOLAS S. HILL, JR., Chief Engineer Water Department, City Hall, Baltimore, Md. THE Reliable Examinations and Reports Made on All Kinds of Mining Properties

