Sulphuret Saving.

The Virginia *Trespass* has the following of special interest to quartz miners:

One of the principal branches of industry now being followed in Storey and Lyon counties is sulphuret saving; or, in other words, catching in huge reservoirs or upon blankets laid in ordinary sluice boxes that portion of the fine silver ores which escapes the pans and separators in the mills. During the last year in these two counties at least one hundred thousand feet of sluices have been laid, covered with blankets, and are now in active operation with profit to those employed in the work. Very many mills have saved sulphurets (or tailings) in large bodies, and among these the Gould & Curry Company, through parties holding the right, have corralled two huge reservoirs of tailings. To the lower one of these we paid a visit yesterday afternoon, to witness the first working of Paine & Stevens' Separator and Concentrator, which takes the tailings in bulk and so separates the sand, quartz, lava, gravel and slum from the pure black sulphurets and quicksilver, that the tailings become valuable and easily reduced to bullion bars.

The Separator and Concentrator is thus described:

The motive power consists of a 12-foot water wheel, driven by four inches of water; by belting connected with pulleys from the wheel, other pulleys cause a horizontal shaft to revolve about seven times per minute, and to this shaft is connected the machinery. The Separator is built in the form of an arastra, being 18 feet in diameter, with a pan to hold the sulphurets obtained. The pan is of wood, 14 inches deep, and inclines from the outer edge to the centre at the ratio of one inch to the foot; in the center is an iron band, 16 inches in width, centered by the horizontal shaft. The sulphurets are supplied to this pan through six jointed spouts attached to the shaft from the main box that connects with the reservoir above, and these spouts continually discharge a stream of tailings—of the consistency of cream—into a groove just above the outer edge of the pan, and from which they fall below, over the pan's edge, with each revolution, causing the pouring stream of muddy silver to be distributed equally over the bottom in little waves, that float down the incline to the center, where the sand and lighter material is swept through the circle of the iron band and passes down the canon. Just in advance of these jointed spouts are six wooden sweeps, swinging about six inches over the surface of the pan, to which are attached numerous floats of rubber packing which gently smooth the angry surface of each tiny wave and persuade the lighter particles of sand and mud to float along with the water to the center outlet, while the sulphurets, obeying the higher law of specific gravity, settle on the outer rim in a solid phalanx of aristocratic breeding. Meantime, as the sulphurets collect on the incline bottom of the pan, by aid of two transverse cones or drums, running by aid of a belt connecting with the main gearing, a screw works with each revolution, and raises the iron drum in the center gradually, so as to preserve the exact grade from the outer edge of the pan to its center discharge. When the pan is filled, it is found that the outer portion of it, for four feet, is filled from the bottom to the top with concentrated tailings or silver sulphurets. Then the jointed spouts are turned perpendicularly to the main shafting, the sweeps detached and the pay circle shoveled on the surrounding platform, whence, after the refuse near the center is washed out of the pan, the same operation is gone through with, leaving only the nearly pure sulphurets in the pan. The sulphurets thus obtained are worth $100 or thereabout per ton. The Separator will work, it is calculated, 50 tons per day of the tailings, of which will be saved six tons of concentrations that will be worked in pans, and amalgamated after the usual style of working silver ores. Blankets in sluices concentrate tailings slowly, with much sand, lava, quartz, etc., in the saved mass. This Separator concentrates tailings only. Blankets save only a portion of the passing silver, and the next set below is almost as good. This machine saves everything in the tailings, and another machine below would not catch a color. An ordinary set of blankets costs as much money as does a Separator, and it requires more force to run them.

A CLOUD-BURST.—The Austin *Reveille* of August 5th relates the following remarkable occurrence: We have been informed that there was a "cloudburst" on Saturday, about sixteen miles to the northward of Austin, which did considerable damage to the ranches in the locality. The fall of water was sudden and very heavy. On the farm of Spencer the grain was beaten down or uprooted, and the uncocked hay was scattered and covered with debris. The adjoining claims of Wilson and Bradley received much damage from the sand, gravel and stones which were deposited upon them by the rushing water. Since the foregoing was written we have received further information that a tremendous fall of hailstones accompanied the water. Persons from the neighborhood tell the incredible story that at the cessation of the storm they found the hailstones lying upon the ground to the depth of two

THE Indian Peace Commision passed Omaha on the 16th, on the steamer St John, en route to the Upper Missouri. The following were the names of the party: General W. T. Sherman, United States army; General John B. Sanborn, General William F. Harney, Hon. A. G. Taylor, Hon. J. B. Henderson, S. F. Tappan, A. S. H. White, General Campbell, special agent; Captain John Howland, artist; H. M. Matthew, special agent; G. F. Beauvais, special agent. The following are the members of the press traveling with the Commission: H. J. Budd, Cincinnati *Commercial;* George Willis, reporter for the Commission; S. T. Balkney, New York *Herald;* Spooner, Missouri *Democrat;* William Fayel, St. Louis *Republican;* Mr. Brown, Cincinnati *Commercial.*

ERA OF FREEDOM.—Six years have witnessed the emancipation of 25,000 serfs in Russia; the liberation of 4,000,000 slaves in the United States, and the virtual manumission of 3,000,000 negroes in Brazil. As a cotemporary says: "It is a glorious six years' work—32,000,000 men restored to freedom, and a curse taken off three of the largest empires in the world."

The Union Pacific Railroad—Open Four Hundred and Twenty-five Miles.

A few weeks ago we noticed the opening of the Union Pacific Railroad to Julesburg, three hundred and seventy-seven miles west of Omaha, and sometime this week we expect to report its completion to Crow Creek, a point forty-eight miles further west, making a total of four hundred and twenty-five miles. Fifty miles of track in addition are graded and ready for the iron, and there is no doubt of the completion of the road to the base of the Rocky Mountains early in the fall. The company are confident that the whole line to the Pacific will be open for business in 1870. The Indians have annoyed the surveying parties and tie-cutters, who are many hundred miles in advance of the work; but they have a wholesome fear of the population that a railroad carries with it, and all trains run without interruption. The business of the company has been most flattering. The earnings for the quarter ending August 1, were about $600,000, but as the report for the last week in July has not been received, the exact fraction cannot be given. These earnings accrued from operating an average of not more than three hundred and fifty miles of road, and, after deducting operating expenses, the balance is far in excess of the interest obligations of the company on the amount of bonds they can issue on that distance. It should be remembered that this result is from a way business alone, through a new country, and it is not to be compared with the vast through business that must follow the opening of the whole line to the Pacific. The success of the enterprise seems to be thoroughly assured, and we can see no reason why the first mortgage bonds are not entitled to rank among the best securities. The daily sales are now so large that the company already entertain the idea of advancing the price.—*Denver News, Aug.* 20.

CHEAP FREIGHTS ON THE MONTANA ROUTE.—We copy the following from the Walla Walla *Statesman* of the 9th inst.: "The steamer Mary Moody, on Pen d'Oreille Lake, is carrying pack trains from Pen d'Oreille to Kootenai Landing, a distance of 35 miles, and back, (that is up and down) including cargo, for $2 per head, a distance of 50 miles. The rates are about the same, or near it, as charged by common ferries on the rivers in the upper country, and trains make three days' travel in one, by taking the steamer, thereby saving in expense of hands and time, the steamer charges, and, as we understand, have much better roads and feed. Packers will certainly take advantage of such cheap rates. We are informed by the agent, H. A. Hogue, that he has succeeded in getting the steamer Missoula above Rock Island, without the slightest damage, and made a successful trip to Thompson's Landing, below Thompson's Falls, and found the river much better than was expected, making eight miles an hour up stream. The company is now fully prepared to transport freight and passengers from Pen d'Oreille to Thompson's, a distance of 130 miles, through the Cœur d'Alene range of mountains without delay. Traveling time from Walla Walla to Pen d'Oreille, three to four days; thence to Thompson's (by boat) two days; thence to Helena, three to four days, making the entire trip in from eight to ten days with ease and comfort, and with a line of good stages the time can be reduced regularly to six days. The boats make the down trip from Thompson's to Pen d'Oreille in one day."

A NEWLY MARRIED MAN COMPELLED TO KNEEL ON HIS LATE WIFE'S GRAVE AND ASK HER FORGIVENESS.—A jailor at Donaldsville, Louisiana, who had buried his wife in the early part of May, married again in three or four weeks afterwards. This so shocked the moral sense of the community that a public meeting was called, and a procession formed and marched to his residence and took him out. After being marched out of his door-yard to the tune of the "Dead March," with lighted candles on each side of him, the procession formed, music in front—the latter consisting of oil cans, horns, tin pans, and a large bell, carried on the shoulders of two of the party, which was tolled continually, whiles cries of mirth and jollity tended to enliven the scene. After traversing the principal streets, and thoroughly arousing everybody in town not engaged in it, they proceeded to the final act, it now being near midnight. After forming properly, the procession moved to the graveyard, where the joke was finished by his kneeling down at the grave and asking pardon of his latewife's spirit; after which the party proceeded to a saloon, and taking a drink at his expense, he was permitted to join his new ly made wife—this being the third marriage bond he has entered into.

THE CENSUS OF 1870.—It is proposed to take the next census of the United States through the Internal Revenue officials. The Bureau of Statistics at Washington have been making experiments in this direction which convince them that the census of the United States can be accurately taken through the internal revenue organization at a merely nominal expense to the government. Indeed, it is said, that the Bureau has already actually taken a census of the entire population of the country, through this organization, without incurring any expense except for stationery. The result is, that 37 States contained, in November and December last, 34,100,255; and the Territories 405,627. In the Southern States there has been a decrease of population; in the Eastern, a small increase; in the Western, a large increase. Total increase of population since 1860, 3,062,561.—*Boston Traveller.*

THE new Dominion of Canada is threatened with that greatest curse of politics a religious question. In Canada East, or Quebec, the Roman Catholic religion is in the ascendancy. In Canada West, or Ontario, the dominant religion is Protestant, and the party in power is largely tinged with Orangeism. A distinct Roman Catholic movement in opposition to this Orange tendency has been set on foot, and a formidable organization effected for the purpose of carrying the religious question into the political campaign, the Roman Catholics agreeing in a recent Convention to form an alliance with the Reform party for their mutual benefit. The political contest among our neighbors is already warm. The introduction of religious questions will carry it to fever heat.—*Gold Hill News.*

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Commission Merchants,

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BEING exclusively in the Storage and Commission business, we will give our individual attention to receiving, storing and forwarding all goods consigned to us. We respectfully solicit the patronage of the business men of Montana Territory. We refer, by permission, to

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Mr. John S. Rockfellow, " " "
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Messrs. King & Gillett, Helena City, "
" Gaston, Simpson & Co., Helena City, M. T
Mr. J. R. Upson, " " "
Capt. W. H. Parkinson & Co., " " "
Messrs. M. Branham & Co., Blackfoot City, "
Mr. A. Beattie, Banker, St. Joseph, Mo.;
Messrs. Strode, Rubey & Co., St. Louis, Mo.;
" Dameron Brothers & Co., " "
Mr. E. M. Samuel, St. Louis, Mo.;
Mr. William North, " " " w91

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WE have two large warehouses, capable of storing 400 tons of merchandise; also, a large stock of Goods, suitable for Freigeters, Auctioneers, Miners and retailers.

We solicit a share of public patronage, confident that we can make the prices an advantage to the purchaser, over any point in this Territory. w131tf

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Corner of Jackson and Wallace St.

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Suitable for Holiday presents

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WE HAVE CONSTANTLY ON HAND A LARGE supply of

LAGER BEER,

MALT HOPS,

BREWERY FIXTURES,

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☞ Special attention paid to ladies and children traveling unattended.

A Piano on Board.

Her speed, light draught and fine accommodations commend the "Only Chance" to all travelers to the States. 150-w-td

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WE have now at Virginia City, for sale, a few self-raking

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The cheapest and best machines in the world

Simple in construction, light in draught, easily adjusted to grain or grass, saving two hands more than any other. These machines have been able to compete with all others successfully.

THEY DO NOT GET OUT OF REPAIR EASILY.

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☞ Call and get a pamphlet, and see list of premiums taken and recommendations.

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July 13, 1867. f151

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MUTTON,

Pork, **Veal,**

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Every Article in their Line.

☞ The large stock necessitated by their extensive business enables purchasers to make a selection exactly suiting their taste.

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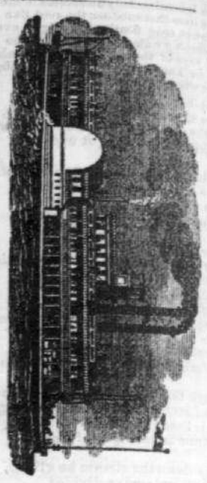

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