

THE ENTERPRISE.

OREGON CITY, OREGON, JUNE 4, 1875.

Fifth or Foul Water the Cause of Boiler Explosions.

The following interesting matter is collected from a recent report of T. Hay to the Secretary of the U. S. Treasury on the subject of steam boiler explosions. His remarks are quite novel, and well worthy a close consideration:

When we boil pure water the steam rises regularly in spheres from the bottom of the vessel to the surface of the water. Steam at a like temperature and pressure has at all times the same number of molecules in a like volume, and the true measure of its energy may be calculated with mathematical precision. Water assumes three natural or allotropic forms: liquid, solid and vapor; in all these forms its qualities inhere. What is true of a molecule of water, ice or steam, is true of the whole volume of either—these several forms being due entirely to a change of temperature.

Water is the most stable compound in nature; neither pressure, cold nor heat alone being able to reduce it to its original elements.

Many of our most terrific explosions take place under a reduction of pressure; in fact, I have known instances wherein, just before an explosion ensued, the steam gauge would recede from 50 lbs. to 20 lbs. pressure, and no amount of firing would bring up the pressure sufficient to perform the work satisfactorily. If there had been a scarcity of water there would have been a surplus of steam. When boilers fire easily and steam freely there is no danger of any fearful disaster. If boilers give way under such conditions, it is simply from rupture, the effects of fever-pressure, and not explosions in any sense of the term.

There can be no violent explosion from steam made from clean water, free from organic matter. At least, after many years' close observation, and equipped with direct investigation and research, I have failed to find an instance where pure simple steam made from clean water ever exploded within a range of from 15 lbs. up to 500 lbs. pressure to the square inch. But I find that explosions in steam boilers reveal in fifth and foul water. Take, for instance, the Mississippi and its tributaries, and it will be found that steamboat boiler explosions have been most frequent in the vicinity of large cities, and that the water there has been termed a graveyard, while in that portion of the river above St. Louis, including the Illinois, where the waters are comparatively pure and free from nitrogenous matter, explosions have been very rare. Let us take the Ohio, from Cincinnati down to the Ohio, from Cincinnati down to the mouth of the river, and it is noted for many steamboat disasters. The most destructive and terrific explosions have occurred in the spring of the year, when the waters were loaded with organic substances, early salts and obnoxious matters.

When we boil foul water we find it tumultuous, accompanied with a low, lumping sound, with fits and starts, so violent in some instances as to jump bodily out of the boiler, and open vessels. This antagonism to the boiling of any compound solution is caused by the attraction of these foreign particles for each other (chemical action and reaction), while in the boiling of pure water there is no chemical action whatever. Great rivers, like those in the Ohio, Mississippi and Missouri valleys, are great natural sewers, and their waters at certain seasons of the year are loaded with organic remains in every stage of putrefaction, while city wells and those around factories frequently become great sink-holes and receptacles for matter. My researches show that such waters hold in solution and carry in suspension from six up to sixty-three grains per gallon of organic substances, to which may be added copious quantities of obnoxious matter in certain localities and the salts of ammonia—N. H3. These substances find their way into steam boilers, where they rapidly undergo chemical change, distillation, concentration, and sometimes violent decomposition—that is, culminate in terrific explosion.

These organic skeletons, glycerine salts, albuminous substances and ammoniacal gases found in water, consist chiefly of carbon, hydrogen, oxygen and nitrogen, and it is among such nitrogenous combinations and types that we find some of the most remarkable explosive bodies. They are not only aeriform, but they are gases of the most subtle and potent characters, and are so arranged in which the different elementary atoms are chemically combined in the same molecule, that is liable to sudden and violent decomposition whenever the opposing forces to which they owe their existence become overstrained, or heat or some external cause. Their activities are very feeble; hence their frequent destruction at high temperatures. Merely a molecular disturbance of any kind may be sufficient to cause their decomposition, and their combination being internal and instantaneous, they develop a force at least ten times greater and one hundred times quicker than that of steam pressure, sudden and violent enough to destroy open vessels. But in clean water we have the most stable substances known, under the three distinct forms named, either of which may be had out of the other by merely a change of temperature.

As I said before, heat alone cannot decompose water, but electricity readily resolve it into its original elements and chemical action being the source of electricity, water in the midst of feeble and treacherous company becomes demoralized and loses its virtue and stability, and goes off in a gaseous state in time of reaction. This frequently occurs when boilers explode, as neither water nor steam are ejected from them, but an inflammable gas is evolved. Under such conditions the engine, or rather the boiler, to become dry, when, in reality, a moment before the explosion, his boilers contained a full gauge of water.

Nor COMING.—Senator Mitchell was in San Francisco on the 16th inst. It is stated that he will not visit Oregon during the recess of Congress. This is probably on account of avoiding certain engagements in regard to Federal appointments. He may as well explain now as hereafter. The time for explanation will come sooner or later.

CHAS. H. CAUFIELD,

DEALER IN

GENERAL MERCHANDISE,

CORNER OF SEVENTH AND MAIN STREETS, OREGON CITY.

Has Just Received a New Stock of Calicoes, Dress Goods, Brown and Bleached Sheetings, House Linen, Shirtings, Table-Linen, Irish Bosom Linens, Lining Towelling, Table-Cloths, Corsets, Ladies' and Gents' Ties, Thread, Cambrics, Buttons, Ribbons, Laces and Insertions, Embroidery, White Goods, Millinery, Fancy Goods, &c

Also, a full assortment of

LADIES' AND CHILDREN'S SHOES.

Groceries, Crockery, Glassware, Coal Oil, Coal Oil Lamps, Wicks and Chimneys

Which have been selected with special care for this market and cannot be surpassed in quality or price.

THE HIGHEST MARKET PRICE PAID FOR COUNTRY PRODUCE.

March 13, 1875

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JOHN MYERS,

DEALER IN

OREGON CITY.

DEALER IN

DRY GOODS, GROCERIES, BOOTS and SHOES, HARDWARE, CROCKERY, AND GENERAL MERCHANDISE, Books and Stationery.

THE LATEST AMUSEMENT IS TERMED

"Printer's Delight," and is performed in the following manner: Take a sheet of note paper, fold it up carefully and enclose a bank note sufficiently large to pay up arrears and a year in advance. And what adds immensely to the feat is to send along the name of a new subscriber with cash to balance. Keep your eye on the printer, and if you detect a smile the trick is a success. Try it!

—Carthage Patriot.

THINK OF IT.—The amount of interest which the United States have paid on bonds issued to the Union Pacific railroad for which they have received no return amounts to the sum of \$20,318,558. This sum is due to the taxpayers of this country, and the Company is well able to pay it.

SOCIETY NOTICES.

OREGON LODGE NO. 3, I. O. F. Meets every Thursday evening at 7 o'clock in the Old Fellows' Hall, Main Street. Members of the Order are invited to attend. By order, W. M.

REBECCA DEGREE LODGE NO. 3, I. O. O. F. Meets on the Second and Fourth Tuesday evenings each month, at 7 o'clock in the Old Fellows' Hall. Members of the Degree are invited to attend.

MULTNOMAH LODGE NO. 1, I. A. F. & A. M. Holds its regular convocations on the First and Third Saturdays in each month, at 7 o'clock from the 20th of September to the 20th of March; and 7 o'clock from the 20th of March to the 20th of September. Brethren in good standing are invited to attend. By order of, W. M.

FALLS ENCAMPMENT NO. 1, I. O. O. F. Meets at Old Fellows' Hall on the First and Third Tuesday of each month. Patriarchs in good standing are invited to attend.

CLIFF ENCAMPMENT NO. 2, I. O. O. F. Meets at Old Fellows' Hall, in Oregon City, on the First and Third Tuesday of each month. Patriarchs in good standing are invited to attend. M. C. ARTHUR, G. M. BACON, I. S. M. G. M.

BUSINESS CARDS.

DR. JOHN WELCH DENTIST, OFFICE IN OREGON CITY, OREGON. Highest Cash Price Paid for County Orders.

J. W. NORRIS, M. D., PHYSICIAN AND SURGEON, OREGON CITY, OREGON. 27 Office Up-Stairs in Charman's Brick, Main Street.

S. HUELAT! ATTORNEY-AT-LAW, OREGON CITY, OREGON. OFFICE—Charman's Brick, Main Street.

JOHNSON & McCOWN ATTORNEYS AND COUNSELORS AT-LAW, Oregon City, Oregon. Will practice in all the Courts of the State. Special attention given to cases in the U. S. Land Office, Oregon City. 5491872-4.

L. T. BARIN ATTORNEY-AT-LAW, OREGON CITY, OREGON. OFFICE—Over Pope's Tin Store, Main Street.

OREGON CITY BREWERY. Henry Humbel, Proprietor. LAGER BEER, as good as can be obtained anywhere in the State. Orders solicited and promptly filled.

THE NEW IMPROVED FLORENCE Sewing Machine. Agency Established on the Pacific Coast in 1853. Side Feed and Back Feed. THE LIGHTEST RUNNING, MOST SIMPLE, AND MOST EASILY OPERATED SEWING MACHINE IN THE MARKET. Always in Order and Ready for Work. If there is a FLORENCE MACHINE within one thousand miles of San Francisco not working well, I will fix it without any expense to the owner.

SAMUEL HILL, Agent, No. 19 New Montgomery Street, GRAND HOTEL BUILDING, SAN FRANCISCO.

M. C. ATHEY, Oregon City, Enterprise Building, Agent.

A. B. RICHARDSON, Auctioneer.

Corner of Front & Oak sts., Portland

Auction Sales Of Real Estate, Groceries, General Merchandise and Horses.

SALE DAYS—Wednesday and Saturday A. B. RICHARDSON, Auctioneer.

At Private Sale. English Refined Bar and Bundle Iron English Sash and Oregon Cast Street, Home Sheds, Risps, Saw-Sheds, Dry Pans, Sheet Iron, R. G. Iron.

ALSO A large assortment of Groceries and Liquors in the city and country. A. B. RICHARDSON, Auctioneer.

J. P. DAVIES, JOSHUA DAVIES, J. P. DAVIES & CO., AUCTIONEERS AND COMMISSION MERCHANTS.

Wharf Street, Victoria, B. C. Liberal Advances Made on Consignments. July 24, 1874

THOMAS CHARMAN ESTABLISHED 1853. DESIRES TO INFORM THE CITIZENS of Oregon City and of the Willamette Valley, that he is still on hand and doing business on the old motto, that

A Nimble Six Pence is Better than a Slow Shilling. I have just returned from San Francisco, where I purchased one of the

LARGEST AND BEST SELECTED STOCK OF GOODS ever before offered in this city; and consists in part, as follows:

Boots and Shoes, Clothing, Dry Goods, Hats and Caps, Hosiery of Every Description, Hardware, Groceries, Paints and Oils, Sash and Doors, Chinaware, Queensware, Stoneware, Crockery, Flat-ware, Glassware, Jewelry of Various Qualities and Styles, Clocks and Watches, Ladies and Gents' Furnishing, Patent Medicines, Goods, Fancy No. Rope, Fishing, Hooks of Every Description, All Kinds, Carpets, Mattings, Oil, Cloth, Wall Paper, etc.

Of the above list, I can say my stock is the MOST COMPLETE ever offered in this market, and was selected with special care for the Oregon City trade. All of which I now offer for sale at the

Lowest Market Rates. No use for the ladies, or any one else, to think of going to Portland to buy goods. I am Determined to Sell Cheap and not to allow myself to be

UNDERBORN IN THE STATE OF OREGON. All I ask is a fair chance and quick payments, believing as I do that

Twenty Years Experience in Oregon City enables me to know the requirements of the trade. Come one and all and see for yourselves that the old stand of

THOMAS CHARMAN cannot be beaten in quality or price. It would be useless for me to tell you all the advantages I can offer you in the sale of goods, as every store that advertises does that. All I wish to say is that I have been pointed. All I wish to say is that I have been pointed. All I wish to say is that I have been pointed.

Come, and See, and Examine for Yourselves for I do not wish to make any mistakes. My object is to tell all my old friends now that I am still alive, and desirous to sell goods cheaply for cash, or upon such terms as agreed upon. Thanking all for the liberal patronage heretofore bestowed,

THOMAS CHARMAN, Main Street, Oregon City, Legal Tenders and County Sheriff taken at market rates. THOMAS CHARMAN, 227,000 lbs wool wanted by

THOMAS CHARMAN.

A. C. WALLING'S PIONEER BOOK BINDERY, Pittcock's Building, Corner of Stark and Front Streets, PORTLAND, OREGON.

BLANK BOOKS RULED AND BOUND to any desired pattern. Music books, Magazines, Newspapers, etc., bound in every variety of style known to the trade. Orders from the country promptly attended to.

S. T.-1860-X

Homestead Tonic

is a purely Vegetable Preparation, composed of Calava Bark, Roots, Herbs and Fruits, among which are found Sarsaparilla, Quinine, Wild Cherry, Sassafras, Juniper, Gentian, Sweet Flag, etc. also Iodine, Pepsin, Vinous and Linger Bitters, prepared to a sufficient quantity (only) of the following Sugar Cane to hold in any climate. They are especially adapted as a remedy for the diseases to which

WOMEN are subjected, and as a tonic for the aged, feeble and debilitated, has no equal. They are strictly intended as a Temperance Tonic or Bitter, to be used in moderation only, and always according to directions.

SOLD BY ALL FIRST-CLASS DRUGGISTS.

Plantation Bitters is a purely Vegetable Preparation, composed of Calava Bark, Roots, Herbs and Fruits, among which are found Sarsaparilla, Quinine, Wild Cherry, Sassafras, Juniper, Gentian, Sweet Flag, etc. also Iodine, Pepsin, Vinous and Linger Bitters, prepared to a sufficient quantity (only) of the following Sugar Cane to hold in any climate. They are especially adapted as a remedy for the diseases to which

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DR. J. WALKER'S CALIFORNIA VINEGAR BITTERS are a purely Vegetable Preparation, made chiefly from the native herbs found on the lower ranges of the Sierra Nevada mountains of California, the medicinal properties of which are extracted therefrom without the use of Alcohol. The properties are almost daily asked, "What is the cause of the unparalleled success of VINEGAR BITTERS?" Our answer is, that they remove the cause of the disease. They are the great Food Purifier and Life-giving principle of the system. Never before in the history of the world has a medicine been discovered possessing the remarkable qualities of VINEGAR BITTERS in healing the sick.

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DR. HENLEY'S

GENERATED

WATER

PREPARED

BY THE

INDIAN

TRIBE

OF

OREGON

LOSS OF APPETITE.

A most pleasant and invigorating tonic. Recommended by all the eminent Physicians throughout the United States. Every family should have it in the house.

Read certificates on each bottle. Sold by all Liquor Dealers and Druggists. H. EPSTEIN & CO., Sole Proprietors, 618 FRONT ST., SAN FRANCISCO, CALIF.

Money! Money! MONEY TO LEND IN SUMS OF \$500, and upwards. Oregon City, March 10, 1875. JOHN SON & McCOWN.

Town Lots for Sale. NOTICE IS GIVEN TO ALL PERSONS desiring to purchase Town Lots in the County addition to Oregon City, Clackamas County, Oregon, that application for the purchase will be received by the Clerk in execution of the County Court, and acted upon by the Court in term time, and value placed on the lots to be sold.

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R. R. R. RADWAY'S READY RELIEF

CURES THE WORST PAINS In From One to Twenty Minutes. NOT ONE HOUR

after reading this advertisement need any one with pain. RADWAY'S READY RELIEF is a sure cure for every pain. It was the first and is

that instantly stops the most excruciating pains, allays inflammation, and cures all the most distressing affections, whether of the Lungs, Stomach, Bowels, or other parts affected, by one application, in from One to Twenty Minutes, no matter how violent or excruciating the pain, the Rheumatism, Bed-ridden, Infirm, Crippled, Nervous, Neuralgic, or prostrated, with disease may suffer.

RADWAY'S READY RELIEF will afford instant ease, Inflammation of the Bladder, Inflammation of the Lungs, Sore Throat, Diarrhoea, Cholera, Pain of the Heart, Hysterics, Croup, Typhoid, Catarrh, Influenza, Headache, Toothache,

Sciatica, Rheumatism Cold Chills, Acute Chills. The application of the Ready Relief to the part or parts affected, by the pain or difficulty exists will afford ease and comfort.

Twenty drops in half a tumbler of water will in a few moments cure Cramps, Travellers should always carry a bottle of Ready Relief with them. A few drops of this medicine will cure all the pains from change of water. It is stronger than French Brandy or Bitters as a stimulant.

FEVER AND AGUE. Fever and Ague cured for fifty cents. There is no more rapid or sure cure for it than that which cures Fever and Ague, and all other Malarial Fevers, such as Typhoid, Yellow, and other Fevers, which RADWAY'S READY RELIEF cures for fifty cents per bottle Sold by Druggists.

HEALTH! BEAUTY!! Strong and pure rich blood—Increase of the red corpuscles—skin and beautiful complexion secure and permanent.

DR. RADWAY'S SARSAPARILLIAN RESOLVENT. It cures all the most distressing affections, whether of the Lungs, Stomach, Bowels, or other parts affected, by one application, in from One to Twenty Minutes, no matter how violent or excruciating the pain, the Rheumatism, Bed-ridden, Infirm, Crippled, Nervous, Neuralgic, or prostrated, with disease may suffer.

Every drop of the Sarsaparillian Resolvent cures all the most distressing affections, whether of the Lungs, Stomach, Bowels, or other parts affected, by one application, in from One to Twenty Minutes, no matter how violent or excruciating the pain, the Rheumatism, Bed-ridden, Infirm, Crippled, Nervous, Neuralgic, or prostrated, with disease may suffer.

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