

BRIEF MENTION.

Read the end of Wm. Justus. Read the "Notice to Stockholders" among the new ads. Ex Supt. W. H. Watkins passed Southward on the stage of Sunday last. James Miller has been appointed Postmaster at Brownsborough, in this county. Lieut. G. S. Hoyle and Miss Carrie Beach were married at Oakland, Cal., June 4th. B. F. Dowell has returned home and C. B. Watson will hereafter assist him in legal business. Rev. W. Hubbard will hold divine services at the M. E. Church tomorrow morning and evening. Charley Schultz says the boys on the Emeline cinnabar mine will soon have their wagon road completed. Farmers are busy now, haying and preparing for harvest. As a consequence the streets of our town appear quite dull. Read the notice to the stockholders of the P. of H. Mill Company. It will be found under the head of "New, this week."

One of those traveling frauds known as "gipsy fortune tellers" has been swindling the credulous of our community for several days. Our streets are becoming woefully dusty and every passing breeze is an annoyance. But we'll have to stand it, we guess, for awhile, anyway. C. C. Beckman, accompanied by his wife and daughter, left on Saturday's stage, bound for a month's vacation in San Francisco and surroundings. Judge Prim has a few fowls and fanny ones, too, as an old hen the other day hatched out a wee chicken with four legs—alive and kicking yet.

Judge Prim, Judge Watson, H. K. Hanna and A. C. Jones left for Lake county this week to hold court in that suburban district. They will be gone several weeks. The "Jacksonville Social Club" will give a grand ball at their rooms in this place on the evening of July 4th. Supper, dance, and all the fun for \$2.50. Read their advertisement.

Sacred Manning has taken to Salem the two Chinese robbers, M. W. Gilbreath and J. A. Alford, who were sentenced to State's prison for five years each at the late term of Court. Several beggars have thrust their importunities upon our people during the past week. One of them first "done" the town and then paid his fare on the stage line "like a little man."

Rev. Bell, Nat. Langell and the ladies accompanying them, returned on Tuesday from their visit to the Willamette. All are in good health and pronounce their visit a very pleasant one. Rev. J. R. N. Bell was chosen Grand Chaplain of the Grand Chapter of R. A. M. and also Grand Chaplain of the Grand Lodge of A. F. & A. M. during his late visit here. Thomas G. Reames was elected R. W. D. G. M. C. W. Savage and family have gone from our gaze to seek a new home in that beautiful valley where rolls the mighty Oregon and strikes hands with the blue Willamette as together they go on their clear winding way to the sea. Good bye; and may success attend you.

Our Marshal had a funny time last week with a drunk man answering the name of Williams. He—the drunk—had been fined \$10, which he refused to pay and was sent up for five days, but managed to break jail. He was recaptured and ironed and put into the County jail.

We've got a natural place of resort, too. It's a mineral spring—iron and sulphur—about a mile north of town, in Bybee's pasture. The water is clear and cool and nice shade trees surround it. Every morning a string of visitors can be seen wending their way thitherward. John Winjen is the discoverer.

Ham Walters and Jim Birdsey, on horseback, were driving a vicious cow to the slaughter pen Sunday last, when she turned and gored the horse Jim was riding, striking the animal just behind the shoulder and barely missing Jim's leg. The horse and rider were upset by the force of the blow—Jim underneath. The horse died Tuesday morning but the rider escaped with only slight bruises.

The other day Tom Keating, living up at Squaw Lake, took up his repeating rifle and whistling to his dogs started off to hunt some stray horses. He followed them down to the Applegate and there found two huge bears, which he attacked with his rifle. After firing eight or ten rounds into them they charged upon him and ran him up a tree. One of them followed up after him and dragged him down, biting and lacerating him in a ground fight, until the dogs got in their work, when Keating succeeded in making his escape. We have not yet learned the extent of Keating's injuries.

T. C. Reames returned on Thursday from his northward visit. He took a run down the Columbia to Astoria and speaks in glowing terms of the enterprise and prospects of that growing metropolis. He says the fisheries there are in full blast and thousands of men employed therein. Tom thinks that the town of this State. If he had looked close he might have seen a crease in every man's neck made by the anchor chain of the hat used to keep the wind from blowing it off.

The largest whirlwind we have ever seen in Oregon passed down California street on Saturday afternoon. It filled the street with a cloud of dust which penetrated the stores and shops along each side and created general havoc among swinging signs and cloth awnings. For a few seconds it was impossible to see across a narrow sidewalk. No serious damage done.

The Portland Standard says that Chinamen will build the Sterling ditch. We have no means of knowing how they obtained such information, but think it an error. From what we have learned the ditch, as soon as surveyed, will be let in sections to the lowest responsible bidder, without regard to what may be the nativity of the bidder.

Edward Graubner met with a severe and painful accident on Wednesday last. While traveling on the Sterling road, a few miles from town, his horse tumbled and fell, falling upon Mr. Graubner and dislocating his shoulder and otherwise bruising him. Dr. Belt attended him and says he will soon be all right again.

We have only two runaways to record during the past week, only one of which was serious—the driver left on the hind wheels in the middle of the road, while the team took an erratic spin with the fore wheels and made a job for the wagon maker.

The weather has grown quite cool during the past two days and a slight shower of rain fell Thursday night.

A TEST MILL.—Mr. J. H. Fisk, the Assayer of Portland, has constructed a small quartz mill in that city for the purpose of testing samples of ores of all kinds which can be worked by mill process. He has secured for it the best modern machinery to use in connection with his assaying apparatus. By these means he can furnish tests and instructions as to how to work rock most advantageously, thus relieving mine owners of the expense and annoyance necessary to ascertain these facts by their own experimenting. The capacity of the mill is about two tons per day.

NEW TAILOR SHOP.—A. Marks, recently of San Francisco, has opened a tailor shop in the Masonic building and is prepared to receive orders for anything in his line. He will manufacture suits to order of such goods as customers may select from samples kept on hand, will repair and clean all kinds of clothing, and cut goods to any pattern ordered for persons to make up elsewhere. He will also keep a good stock of trimmings on hand. Everything in the tailoring line done to order. Give him a call.

ELECTION OF OFFICERS.—The Directors of the Rising Star Gold and Silver Mining Company, on June 11, 1877, chose the following named gentlemen to serve as officers for the ensuing year: A. C. Jones, President; E. D. Foudray, Secretary; S. J. Day, Treasurer. The Directors of the Company are A. C. Jones, Silas J. Day, L. N. Browning, D. C. Browning and E. D. Foudray.

THE 4TH AT FOOT'S CREEK.—The patriotic people of the North end of the county will hold a grand celebration on the 4th at the old ground at the mouth of Foot's creek. W. M. Colvig will be the Orator and Thos. Mee, Esq., Reader. Procession, music, dancing, etc., will be the order of the day, and a good time may be anticipated.

[Written for the DEMOCRATIC TIMES.] SCIENCE SKETCH.

BY J. W. MERRITT.

Gunpowder. The Fourth of July is fast approaching, and already our boys and girls are watching for the appearance in the shop windows of those miniature fire-works with which they are to make merry on that festive day. Thinking that perhaps their pleasure may be heightened by knowing to what substances they are mainly indebted for their fire-crackers, torpedoes, rockets, etc., and in what way, we will give them, very briefly, some information on the subject.

The delight which they experience from these strange toys mainly arises from the explosions brought about and from imparting projectile force to burning substances. The agents employed for this purpose are gunpowder and nitro-glycerine. With the former the public are quite familiar, but of the latter they know little, except that it is extremely dangerous. Very frequently we are shocked by the news of some terrible catastrophe through the agency of this powerful compound; but as it usually occurs at a distance we soon forget everything about it but the one fact of its wonderful power—its destructiveness. These two agents, so similar in their effects, are yet quite dissimilar in their mode of being acted upon, as well as in their chemical nature and structure. We will speak of the structure of each—wherein they are dissimilar, and the chemical reasons for the great energy displayed in their effects.

Gunpowder is composed of three substances: saltpetre and charcoal, with a small amount of sulphur to facilitate the kindling of the charcoal. The first is a chemical compound, technically called potassium nitrate, of which the principal ingredient is oxygen, the other two being nitrogen and potassium, and is symbolized thus: KNO3. It is manufactured by reducing the materials to a fine powder and mixing them intimately together. Afterward, by great pressure, the mass is compacted into a firm, hard cake, and subsequently broken into grains. These grains, although they appear perfectly homogeneous, are, in fact, composed of potassium nitrate (saltpetre), charcoal and sulphur. Wherein, then, lies this great energy? To which of these simple substances shall we ascribe the power? We answer: To neither, separately, but to the result of the combination. All combustion takes place at the expense of oxygen, and by consulting the symbol for saltpetre it will be seen that we have three parts out of five, or 60 per cent., that are oxygen. The great essential for power in this compound is rapid combustion; hence a substance is selected that is rich in oxygen. Another important element is nitrogen. This, as well as oxygen, in its free state, is a gas, and has for its great characteristic or property, inertness. By this we mean its tendency to unite with other elements and its inability to disunite from the same elements upon the least provocation. A step upon the door will disengage it from some of its compounds, and another step, were its condition other than a gas, would reunite it. Hence the danger of handling nitrogenous compounds. Now, each black grain, so apparently harmless, contains millions of atoms of oxygen and nitrogen, which, upon being freed from bondage, expand into large volumes of gas. Some portions of the oxygen unite with the carbon (charcoal), forming a third gas—carbonic acid gas. These gases, by their incessant expansive power, acting almost instantaneously, tend to create a force which produces the effect we term explosion. These atoms of oxygen and nitrogen, lying so closely together, require but a small force to disengage them; hence the low igniting point of gunpowder.

The nitrogen is willing to quit its abode at "first notice," and the great surface exposed on all sides of so many grains renders the combustion complete in an instant. The gas disengaged occupies a space of about three hundred times that of the powder, and if confined in the space previously occupied by the powder would exert a pressure equal to about three hundred times fifteen pounds (pressure of air per square inch), or 4,500 pounds. This is over two tons to the square inch, and when we think of such a power left to act instantly on each square inch behind a cannon ball, can we wonder at the result of such power?

The nitrogen acts as the keystone of the arch, which, being liberated, the structure tumbles, large quantities of gas are formed, and great energy is developed. Picture to yourselves an immense number of gas molecules suddenly set free in the chamber of a gun and animated with all the force and velocity which energy is capable of imparting. See these molecules rushing against the ball with their whole might, and when at last it starts, imparting to the projectile their moving power until it acquires the fearful velocity with which it rushes from the mouth of the gun. The molecules impart their motion to the ball just as one billiard ball imparts motion to another. The effect is due to the accumulation of small impulses; for, although the power imparted by a single molecule may be as nothing, the accumulated effect of millions of these impulses becomes immense.

From the above it will be seen that gunpowder owes its power to the rapid formation of gases. These come principally from the potassium nitrate (saltpetre). The combustion is rapid, owing to an excess of oxygen. Nitrogen is the key that sets the gases free, its instability rendering the igniting point very low.

I wish each boy and girl would think just what takes place whenever a fire-cracker is exploded; how the charcoal and sulphur burn, giving out heat which disengages the nitrogen and oxygen of the saltpetre; how carbonic acid gas is formed, and how these three gases expand with a loud report and send the fire-cracker to atoms.

The subject of Nitro-glycerine will be discussed in another sketch.

NOTICE TO TEACHERS.—There will be a public examination of applicants for teachers' certificates held in Jacksonville on Saturday, June 30, 1877. Teachers will please take notice and act in accordance therewith.

E. J. FARLOW, School Supt.

STOCKHOLDERS' MEETING.—The stockholders of the Alden Fruit Preserving Company will take notice that they are requested to hold their second annual meeting at the Court House in this place on June 30th, at 1 P. M., for the purpose of electing officers for the ensuing year and attending to any other business. By order of the Board of Directors.

GEORGE BROWN, President.

NOTICE TO STOCKHOLDERS.—The stockholders of the P. of H. Mill Company are hereby notified that the second annual payment on their stock falls due on the 1st day of July, 1877, and it is necessary that every stockholder come forward and pay the amount due on his subscription. The Secretary, F. M. Plymale, will be in Jacksonville on Monday, July 2d, to receive the money.

Tonic. Every one, at times, feels the necessity of some restorative of the vital powers, depressed by mental or bodily exhaustion. In such conditions, let every one, instead of flying to the alcoholic or medicinal stimulants, which must be followed by depression equal to their excitement, reinvigorate his deranged system by the natural tonic elements of the PARVIAN SYRUP. Sold by all druggists.

Unsolicited Testimony. FAYETTEVILLE, ME., April 28, 1874. Gentlemen—Seeing numerous certificates in the Maine Farmer endorsing the merits of the Great Lung Remedy, WILSON'S BAL-SAM OF WILD CHERRY, I am induced and I take great pleasure in giving publicity to the great cure it accomplished in my family in the year 1852. During the summer of that year my son, Henry A. Archer, now postmaster in this place, was attacked with spitting of blood, cough, weakness of lungs, and general debility, so much so that our family physician declared him to have a "seated consumption." He was under medical treatment for a number of months, but received no benefit from it. At length, from the solicitation of himself and others, I was induced to purchase one bottle of WILSON'S BAL-SAM OF WILD CHERRY, which benefited him so much I obtained another, which in a short time restored him to his usual state of health. I can safely recommend this remedy to others in like condition, for it is, I think, all it purports to be—THE GREAT LUNG REMEDY FOR THE TIMES! This above statement, gentlemen, is my voluntary offering to you in favor of your Balsam, and is at your disposal. As ever, yours, ANDREW ARCHER.

The National Gold Medal was awarded to Bradley & Robinson for the best Photographs in the United States, and the Vienna Medal for the best in the world. 429 Montgomery street, San Francisco.

NEW, THIS WEEK. A GRAND BALL WILL BE GIVEN BY THE Jacksonville Social Club, AT THEIR HALL, WEDNESDAY EVENING, JULY 4, 77. SUPER AT MRS. VINING'S. TICKETS, (Supper Included), \$2 50.

FLOOR MANAGERS: D. Linn, Sol Sachs, R. Kandler, T. J. Kenney. GOOD MUSIC FURNISHED.

NEW TAILOR SHOP! A. MARKS, RECENTLY OF SAN FRANCISCO, HAS OPENED A Tailor Shop in Masonic Building, opposite the Postoffice, where he is prepared to execute all work in his line in a workmanlike manner, from the cleaning and repairing of clothes to the

Manufacture of Complete New Suits! A good stock of all kinds of Gents' Trimmings will be kept on hand. Persons desiring to make up their own goods can have the same cut to order. Samples of goods kept from which suits can be ordered and made up. Jacksonville, June 23, 1877.

P. of H. Mill Co. Notice. NOTICE IS HEREBY GIVEN THAT the annual meeting of the stockholders of the P. of H. Mill Company will be held at the Grange Hall at Phoenix, Oregon, on Thursday, July 12, 1877, at 10 o'clock A. M., for the purpose of electing officers and transacting such other business as may come before the meeting. All are requested to be present.

By order of the Board of Directors: F. M. PLYMALE, Secretary.

Notice to Stockholders. NOTICE IS HEREBY GIVEN THAT the annual meeting of the stockholders of the Cannon Mill and Mining Company will be held at the office of the Company in Jacksonville on Saturday, June 30, 1877. By order of the President. J. H. PENN, Secretary.

Caution to the Public. I HEREBY NOTIFY EVERYBODY that my son, WILLIAM JUSTUS, has absented himself from home without my permission, and that I will not in any way be responsible for debts or other obligations of his contraction. WM. JUSTUS, Sr.

GRAND BALL! AT THE Junction House, . . . Slate Creek, JOSEPHINE CO., OREGON, Wednesday, July 4, 1877. TICKETS (Supper Included), \$2 50.

EVERYBODY IS INVITED, AND GOOD music will be in attendance. EVERY description of Cutlery for sale cheap by JOHN MILLER.

HORSE, Paint, Sash, Scrubbing and Blackening Brushes at JOHN MILLER'S.

LIME FOR SALE.

—AND— BRICK-LAYING & PLASTERING DONE

THE UNDERSIGNED WOULD HEREBY inform the public that he has ONE THOUSAND BUSHELS of superior Jackson Creek Lime for sale cheap. Persons wishing Brick-laying or Plastering done in the best style and at reasonable rates will do well to call on me. For further information inquire at the Franco-American Hotel. G. W. HOLT. Jacksonville, Feb. 11, 1875.

JOHN L. CARTER & SON, PAINTERS. WE ARE FULLY PREPARED TO DO all kinds of Painting, including HOUSE PAINTING, SIGN PAINTING, ORNAMENTAL PAINTING, WAGON AND CARRIAGE PAINTING. ALL STYLES OF GRADING DONE. Orders from the country promptly attended to.

SELLING OFF AT COST TO CLOSE BUSINESS! THE UNDERSIGNED, HAVING DETERMINED to close out business immediately, now offers for sale his entire stock of cigars, tobacco, pipes, stationery, Yankee notions, fancy goods, musical instruments, frames and brackets, nuts and candies, jewelry and other articles too numerous to mention. AT COST. Sale positive and terms cash. Those desiring anything in this line should call and see for themselves. F. BRECKENFELD. Jacksonville, May 16, 1877.

GREAT SACRIFICE! BLACKSMITHING! AS ALL OUR MERCHANTS ARE SELLING out at cost and freight, we are ready to do blacksmithing at cost and freight, but must have the cash when the work is completed. Shop on the corner of California and Main streets. SHANNON & BIRDSEY.

TO THE PUBLIC. YOU ARE HEREBY NOTIFIED THAT all persons traveling and crossing the bridge on Rogue River, at Rock Point, that Jackson county is in no wise responsible for any accident or loss that may be sustained while crossing said bridge, as the same is not standing upon any public highway. Published by order of the County Court, this 9th day of April, 1877. Attest: E. D. FOUFRAY, Clerk.

MINING NOTICE. NOTICE IS HEREBY GIVEN THAT the undersigned have purchased the interests of Wm. Irwin, W. F. Brown and W. W. Smith in the Courtney, Irwin & Co. mine in Josephine county, and will pay all debts of said company up to this date. D. C. COURTNEY, W. M. MURPHY. Pilot creek, April 19, 1877.

Estray Notice. TAKEN UP BY THE UNDERSIGNED, living in Table Rock precinct, one bay horse, nine years old, about 16 hands high, branded on the left shoulder with the letter V. The owner is requested to come forward and prove property, pay damages and take him away, or he will be sold according to law. M. COLWELL.

A FINE STOCK & LOW PRICES. J. S. HOWARD'S STORE.

All Kinds of Job Printing. NEATLY & CHEAPLY EXECUTED AT The Times Office. Farms for Sale. Persons desiring to purchase good farms of any size will do well to enquire of JOHN BOLT, Applegate, Oregon.

CURRENCY WANTED. CURRENCY OR EASTERN DRAFTS wanted for coin. Apply at this office.

THE BEAUTIFUL



IMPORTED PERCHERON STALLION, PRIDE OF PERCHE, WILL MAKE THE ENSUING SEASON at my stables near Ashland. TERMS—\$25 the season; or \$30 the season with the privilege of retaining the mare one year to foal, with a history of horses if she does not prove with foal this season—payable in U. S. gold coin or grain at market price.

Good pasturage for mares at 62 1/2 cents per week. No liability for accidents or escapes. In a short time I will issue a circular with engravings of several of my horses, mares and view of my stables, with a history of the Percheron Horse, and why they are preferable to other large horses; hints on breeding, demand and prices for horses in Europe and America.

I have full blood Jersey Cattle of the best quality for sale. Every family that keeps a cow should have a Jersey. The above circular will be sent on application. W. C. MYER. Ashland, Ogn., March 24, 1877.

NOTICE, STOCKMEN! THE WELL-KNOWN DRAFT HORSE, TURK. WILL MAKE THE SEASON AT JACKSONVILLE, Rock Point and Sam's Valley, commencing April 1st, at the following rates: \$5, \$10 and \$15. Turk is 8 years old this Spring. His sire was Arabian, out of a Thoroughbred mare. Turk's dam was French. He is a dark chestnut sorrel, with white points, 17 hands high, and weighs 1,500 pounds in working condition.

Competent judges agree that Turk's colts will compare favorably with any produced in the State, and he is highly recommended by leading stock-raisers of Douglas county, where he has made several seasons. ROBT. WESTROP. The Meadows, Feb. 1, 1877.

1,000,000 BOTTLES OF THE Centaur Liniments have been sold the last year, and not one complaint has reached us that they have not done all that is claimed for them. Indeed, scientific skill cannot go beyond the result reached in these wonderful preparations. Added to Carbolic, Ammonia, Mentha, Senecio-Oil and Witch-Hazel, are other ingredients, which make a family liniment that defies rivalry. Rheumatic and bed-ridden cripples have by it been enabled to throw away their crutches, and many who for years have been afflicted with Neuralgia, Sciatica, Caked Breasts, Weak Backs, &c., have found permanent relief. Mr. Josiah Westlake, of Marysville, O., writes: "For years my Rheumatism has been so bad that I have been unable to stir from the house. I have tried every remedy I could hear of. Finally, I learned of the Centaur Liniment. The first three bottles enabled me to walk without my crutches. I am mending rapidly. I think your Liniment simply a marvel."

This Liniment cures Burns and Scalds without a scar, extracts the poison from bites and stings, cures all Chafes, Frost-bites, and is very efficacious for Ear-ache, Itch and Cutaneous Eruptions. THE CENTAUR LINIMENT, YELLOW WRAPPERS, is intended for the tough fibres, cords and muscles of horses, mules, and animals. READ! READ! Rev. Geo. W. Manokill, Schoharie Co., N. Y., says: "My horse was lame for a year with a fetlock wrench. All remedies utterly failed to cure and I considered him worthless until I commenced to use Centaur Liniment, which rapidly cured him. I heartily recommend it."

It makes very little difference whether the case be "wrench," sprain, spavin or lameness of any kind, the effects are the same. The great power of the Liniment is, however, shown in Hock-swell, Big-head, Swollen, Spavin, Ring-bone, Galls and Scratches. This Liniment is worth millions of dollars yearly to the Stock-growers, Livery-men, Farmers, and those having valuable animals to care for. We warrant its effects and refer to any Farrier who has ever used it.

Laboratory of J. B. Rose & Co., 46 St., New York.

CHILDREN. A complete substitute for Castor Oil, without its unpleasant taste or recoil in the throat. The result of 20 years' practice by Dr. Sam'l Pitcher, of Massachusetts. Pitcher's Castoria is particularly recommended for children. It destroys worms, assimilates the food, and allows natural sleep. Very efficacious in Croup and for children Teething. For Colds, Feverishness, Disorders of the Bowels, and Stomach Complaints, nothing is so effective. It is as pleasant to take as honey, costs but 25 Cents, and can be had of any Druggist. This is one of many testimonials: "COLEWELL, LEBANON CO., PA., March 17, 1874. "Dear Sir,—I have used your CASTORIA in my practice for some time. I take great pleasure in recommending it to the profession as a safe, reliable and agreeable medicine. It is particularly adapted to children where the repugnant taste of Castor Oil renders it so difficult to administer. E. A. ENDERS, M. D." Mothers who try Castoria will find that they can sleep nights and that their babies will be healthy. J. B. Rose & Co., New York.

FARM FOR SALE. THE UNDERSIGNED OFFERS FOR sale his farm situated on Antelope creek, 12 miles east of Jacksonville, containing 400 acres of land, 400 acres being good farming land and under fence. It is a good grain farm and sheep ranch, well watered and good houses and barns upon it. TERMS OF SALE—\$9 per acre, one-half down, the balance to suit purchaser. J. W. SIMPSON. N. B.—This land will be sold in smaller parcels, if desired. 74.