

BOHEMIA NUGGET

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BOHEMIA NUGGET PUBLISHING COMPANY.

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Entered at the postoffice at Cottage Grove, Oregon as second class mail matter.

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6 months.....\$1.00
1 year.....\$1.50
18 months.....\$2.00
If paid in advance.

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WEDNESDAY, NOVEMBER 4, 1905

An interesting application of Roentgen, or X-Rays, to mining was illustrated in some recent experiments made in the Electrical Engineering Laboratory of the Van der Naillen Schools at San Francisco. A number of samples of gold bearing quartz ore was placed on an ordinary holder containing a sensitized photographic plate. This was exposed to the influence of the Ray from an ordinary Crookes tube for about fifteen minutes. When the plate was developed, it showed the metal contained in the quartz in its crystalline form, as if it were suspended in space, the quartz surrounding it being but faintly discernible. Samples where none of the metal could be seen on the surface were thus shown to contain considerable value interiorly. This method will prove valuable in Mineralogical Research, as it shows the actual state in which metal exists in the quartz, which can be shown in no other way. By the comparison of the different densities in the shadow-graphs thus obtained, it is possible to tell also the presence in the ore of lead, iron and sulphur pyrites.

The horseshoe magnet is made of highly tempered steel and magnetized so that one end is a north pole, the other a south, or more commonly known as a negative and a positive. Once magnetized it is always magnetic unless the power is drawn from it by exposure to intense heat. An electro-magnet can be made from any scrap of soft iron from a piece of ordinary telegraph wire to a gigantic iron shaft. When a current of electricity passes through an insulated wire coiled about a soft iron object such as a nail, bolt, or a rod, that object becomes a magnet as long as a current of electricity passing through the coils of wire or helix. A coil of wire in the form of a spiral spring has a stronger field than a straight wire carrying the same current, as each turn or convolution adds its magnetic field to that of the other turns; and by having the center of the coil of iron, which is a magnetic body, the strength of the magnetism is much enhanced.

Gold Dredging Industry.

This comparatively new industry has added materially to the gold production of the United States. The yearly increase from this method of alluvial mining in California has raised the gold production of the state from \$15,863,355 in 1900 to over \$19,000,000 in 1905, the amounts produced for the past few years being as follows: In 1900 the product of gold dredging in California was estimated at \$200,000; in 1901 at \$481,762; in 1902 at \$864,421; in 1903 at \$1,475,749; and in 1904 at nearly \$3,000,000. In 1902, according to government statisticians, there were 36 dredges producing gold in the United States, 17 of which were in California. There were 41 producing dredgers in California now, five more than there were in all of the gold states then. Three years ago the dredger companies of California owned and held under lease about 7000 acres of alluvial land. Today the acreage controlled for dredging purposes is at least four times that amount and new options are continually being acquired on immense tracts of land in the northern counties of the state. In Idaho, Montana and New Mexico large areas of land are also held for dredging operations. It must not be understood that

the acreage held by dredging companies in the United States, representing altogether about 19,000 acres in 1902, when the last figures were furnished by the census bureau, was worked during that year. The total area treated was about 300 acres, from which gold amounting to \$1,329,038 was produced, the average yields being 26 cents per cubic yard.

In the same year five dredger companies, four in California and one in New Mexico, paid dividends amounting to \$246,810 on \$1,172,000 worth of stock or about 22 per cent. That was when dredging for gold was practically in its infancy. The industry is now assuming vast proportions and while new territory is being acquired new dredgers are being constructed and millions are being extracted by this method which could never have been mined profitably in any other way.

It is a common error into which writers on this subject fall, to state that the land over which these gold ships pass is forever ruined for agriculture. None of the chemical properties of land are lost. The earth is stirred as by a monster plow and after the metal values are extracted, it is replaced ready again for the agriculturist or horticulturist, and it is a well known fact that such land is the very best for deciduous fruit trees, which will thrive to perfection in the loose gravelly soil.—Mining and Engineering Review.

Subway Receipts for First Year are \$5,300,000.

New York, Oct. 27.—One year ago yesterday the subway was opened to the public. One hundred and six million passengers have since paid a nickel a piece to ride in it, making the gross earnings of the underground system \$5,300,000. It has realized the wishes of those who for years had waited for a railroad that would send them to "Harlem in 15 minutes." During its first quarter it achieved the record of earning a surplus and at the end of its second quarter it had accumulated a surplus of \$1,500,000 over fixed charges and payments into the sinking fund.

Post-Office Business Increases in all Cities of State.

Following are the receipts of the post-offices of the principal cities of the state and those of Lane county:

	1904	1905.
Portland.....	\$353,208	\$416,052
Salem.....	25,521	29,241
Astoria.....	16,871	18,824
Baker City.....	16,448	16,748
Pendleton.....	13,391	16,515
Eugene.....	14,551	15,745
The Dalles.....	10,481	12,712
Albany.....	10,630	11,166
Oregon City.....	9,170	10,300
LaGrande.....	9,028	10,283
Roseburg.....	8,089	8,792
Ashland.....	8,381	8,776
Grants Pass.....	7,907	8,623
Cottage Grove.....	4,200	4,316
Junction City.....	1,190	2,638

\$2000 a Week at Victimizing Timber Speculators.

The men recently before the public for victimizing some Wisconsin men of several thousand dollars by locating timber locations on barren land, after showing the parties good lands are now up for further investigations and it is believed that they made great quantities of money through such practices. J. W. Gardner and W. H. McCrossen are in the business for all the money there is going and certainly seem to be getting it too. McCrossen, it is claimed has remarked that he has made for several weeks as high as \$200 a week.

Twelve Killed in Missouri Wreck.

Kansas City, Oct. 30.—Twelve persons were killed and 30 injured in a wreck caused by the derailment of passenger train No. 1 on the Santa Fe line, one mile east of Sheffield, Missouri this morning. Four of the dead were trainmen and baggage men. The train was running at high speed through a rock cut when the accident occurred piling the cars 30 feet high and pinning many people down. What caused the wreck is not known.

\$15,000 in Worthless Newspapers.

Helena, Montana, Oct. 30.—A clever thief abstracted \$15,000 from an express package sent from Missouri to New York before it reached its destination and as a result the Northern Pacific company has several detectives engaged in trying to discover what became of the money. Charles F. Kelley shipped the money to N. W. Harris & Company for an investment. Instead of receiving the securities he purchased Kelley was dumfounded to receive a letter stating that the package, upon receipt by the New York firm, contained only a newspaper. The seals were intact, however.

Woman's Club.

The Woman's Club was entertained at a social meeting Saturday afternoon by Mrs. H. O. Thompson. The parlor of the Commercial Club rooms, where the Woman's Club meetings are held, was transformed into a witches cave, lighted only by Jack-o'-lanterns and the fire under the big iron kettle.

Roll call was responded to by personal Halloween reminiscences. Mrs. Thompson read an interesting paper on Halloween, its history and observance.

Mrs. Beason recited an appropriate selection in a delightful way and Mrs. Johnson read an original story.

Wooly kittens, clammy hands, prickly vegetables and crawly bugs were passed around but nobody wanted to keep them.

The ghost was summoned by Mrs. Thompson with fitting ceremony and by the light of the ghost fire told a harrowing tale.

Tea and wafers were served, Mrs. Abrams and Mrs. Chambers presiding at the table afterwards telling interesting fortunes from the tea grounds.

Souvenirs were passed and then a short business meeting held in which Mrs. Billington was elected to the Club.

It was one of the most enjoyable social meetings the club has ever had.

VALUE OF SEPARATORS.

Testing Milk in Shallow Pans is a Wasteful Practice.

The old fashioned way of setting milk in the ordinary six quart shallow pans has nothing to commend it except the cheapness of the outfit, says American Cultivator. The pans take up a great deal of room in the dairy and make a great deal of work in washing, although the pans are not so hard to wash as the old ones that were made out of four or five pieces and had a seam around the bottom and two or three up the sides.

Leaving out of consideration the large amount of room that forty or fifty pans take up in a dairy, which is a big item on milky farms, we find other strong objections in that pans last but a few years they become full of moss from spilling and leaking and the milk sours and thickens before the cream has time to rise. This last point is the greatest objection, and a very serious one, to the use of shallow pans in dairies of half a dozen cows or more. Just how much butter fat or cream is lost in the milk the average farmer does not know. He thinks that it is only a little and that it does not amount to much. But really it amounts to a good deal and may be the whole of the profit.

The following experience shows the loss through setting milk in open pans: A herd of fourteen cows was in milk and giving about 250 pounds of milk a day. The pans were set in a cool room and allowed to stand for thirty-six to forty-eight hours. The skim milk was tested, and it showed that nearly all the cream rose in the first twelve hours, no difference being shown between that set twelve hours and that set thirty-six hours. But the amount of butter fat which was lost was something appalling, amounting as it did to eight-tenths of 1 per cent, or about one-sixth of the whole amount of the butter in the milk. This loss is not surprising to one who has opportunity to make such tests, and it is going on every day on hundreds of farms in this country. In this case it amounted to two pounds of butter per day, and nearly all of this could have been saved by the use of a separator.

Wanted Advers.

After all has been said concerning treatment of caked or indamed udders I doubt if any single application will be more effective than gentle rubbing and working with the hands, not for a few minutes, but for a half hour at a time, writes H. E. Cook in National Stockman. Turpentine and lard, hot water, vasoline—all are good. But just test the effectiveness of each with and without manipulation.

Causes of Abortion.

Dr. H. M. Reynolds of the Minnesota experiment station has collected a great deal of information on the causes of abortion. He divides the general causes of abortion into the following groups: Bacterial infection, objectional feeding stuffs or material in drinking water, poor physical condition of the animals and injuries.

Size of Dairy Cows.

The Wisconsin station, after studying the milk production for over four years, came to the conclusion that the larger type of cows is better suited to average farm conditions than the smaller type, or what is known as the extreme dairy type.

Self Binder in the Dairy.

Near I hear the lord of the household saying, "I'll never put \$75 or \$100 in a cream separator." Penny wise, pound simple. What did that self binder cost? One hundred and twenty-five dollars, and you only use it three or four days in a year, and the cream separator your wife uses 365 days in a year and twice a day. How about the moving machine or the gang plow? But you say, "I must have these." Now, there was a time when our fathers did not have these things. The separator is as much ahead of the crock or pan method as the self binder is ahead of the sickle. Now, don't tent around on the old crop ground of our fathers, but be progressive. New conditions confront the farmers of today to that of our fathers, and to meet these we must have new methods.—Farm Sentinel.

Royal Baking Powder

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Commercial Club.

The Commercial club on Monday evening approved for payment Prof. Stafford's bill for the repacking and shipping of the Fair exhibits of Bohemia ores, and the relief map owned by the club. The exhibit will be well taken care of here.

The club ordered 500 booklets sent the Portland board of Trade for distribution as per their request.

E. D. Wheeler, C. J. Howard and J. M. Fisher were appointed a committee to draft a resolution to be presented to the proper officers regarding the opening of the Roseburg Land office and that copies of such resolution be either printed or typewritten and sent to the various Commercial clubs of the state with letters urging them to take similar steps to urge the opening of the office at an early date.

The Lane County Medical Association was tendered the use of the club rooms for their meeting on November 11th, and cordially invited to enjoy the privileges of the Club.

The entertainment committee was given special duties in the issuance of invitations to the social evenings of the club.

The largest known sand wheel is that of the Calumet and Hecla mine at Calumet, Mich. The wheel measures 65 feet in its greatest diameter and carries 550 sand buckets. This wheel makes ten revolutions per minute and removes 5,500 buckets of sand in that time. The wheel weighs 50 tons and is driven by a 700 h. p. electric motor. The axle is a hollow steel cylinder, 27 feet long, and weighs 42,000 pounds.

A Bubble Party.

Saturday afternoon Mrs. F. E. Billington entertained the Junior Endeavorers of the Christian Church at the home of Mrs. C. Nelson. There were about thirty five present. For a time the air was fairly alive with bubbles and the merry shouts of the children. Many other games were indulged in until evening. Light refreshments were served, when all departed for home having spent a most enjoyable afternoon.

Dave Markley was drawn on the Circuit court jury Wednesday and Deputy Sheriff Piper served notice at his residence Thursday. Mr. Markley is working at the Vesuvius mine and it seems pretty tough to have to call a man from that distance to serve on a jury.

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Subscribe for the Nugget.

HERB W. EDWARDS INJURED.
Herb W. Edwards of Des Moines, Iowa, got a fall on an icy walk last winter, spraining his wrist and bruising his knees. "The next day," he says, "they were so sore and stiff I was afraid I would have to stay in bed, but I rubbed them well with Chamberlain's Pain Balm and after a few applications all soreness had disappeared." For Sale by The Modern Pharmacy.

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