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VOL. II

Cottage Grove, Oregon, Friday, September 21, 1900.

NO. 36

PROFESSIONAL.

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The practical Boot and Shoe maker, located in the Case building, two doors east of the Postoffice.

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What to Wear!

When women see a stylish, handsome jacket, you often hear them say: "Oh dear, I wish I had one like that, but I'm sure it costs so much."



Now it's the surest thing in the world they're not familiar with the PALMER GARMENT.

They're absolutely correct for style—none made any more perfect as to that, and the price is within reach of any woman's pocket-book.

My! if every one could see them, how easy it would be to settle the question of

WHAT SHALL I WEAR?

Eakin & Bristow.



Mines and Mining

Devoted to Bohemia Notes and Items of general interest to Mining Men.

The Second of a Series of Articles on Structural Geology.

[CONTRIBUTED.]

Of the non-metallic elements by far the most abundant and important is Oxygen. In its free state it exists as a gas, which has been occasionally detected at active volcanic vents, but with this rare exception it is always found combined with one or more elements. Thus, mixed with Nitrogen, it constitutes the atmosphere of which it forms not less than 23 per cent; by weight it takes a still larger share in the composition of water, which consists of nearly 80 per cent of Oxygen and a little over 11 per cent of Hydrogen.

Next in importance to Oxygen among the metalloids is Silicon, which is never met with in a free state. In nature it always occurs united with Oxygen, forming the familiar substance known as Silica, which constitutes more than one-half of all the known parts of the earth's crust. It is the fundamental compound of the crust, forming by itself entire masses of rock and entering as a principal constituent into the majority of rocks. It occurs abundantly as the mineral quartz and also in combination with various metallic bases as the important family of Silicates.

Carbon, though found in a pure state in the clear gem diamond, and also in the black opaque mineral Graphite, more usually occurs mixed with various impurities, as in the different kinds of coal. This element has a high importance in nature because it is the fundamental substance made use of by both plants and animals to build up their structures, and because it serves as a bond of connection between the organic and the inorganic worlds; coal being chiefly carbon that has been taken out of the atmosphere by plants, and limestone consisting of carbon dioxide to the extent of nearly one-half, which has been secreted from water by the agency of animals.

Sulphur is found in the free state, more particularly at volcanic vents, in pale yellow crystals or in shapeless masses and grains, but it chiefly occurs in combinations. Some of its compounds are widely diffused among plants and animals. Combination with a metal from Sulphides and combination with a metal and Oxygen from Sulphates, which are the conditions in which sulphur chiefly exists.

Hydrogen is a gas seldom met with in a free state. It occurs chiefly in combination with Oxygen, as the oxide water of which it constitutes about one-ninth or 11 per cent by weight. It also enters into the composition of plants and animal substances and forms with carbon the important group of bodies known as Hydrocarbons. It is also united with Sulphur and Chlorine and a few other elements.

Chlorine is a gas that does not occur in a free state. United with Alkali metals it forms the chief salts of sea water. The most important of these salts Sodium-Chloride or common salt, contains nearly 61 per cent of Chlorine. This salt is found diffused in microscopic particles in the air, especially near the sea, and beds of it hundreds of feet thick occur in many parts of the world among the sedimentary rocks that constitute most of the dry land.

Phosphorus does not occur free. It has so strong an affinity for Oxygen that it rapidly oxidizes on exposure to the air and even melts and takes fire. Its most frequent combination is with Oxygen and Calcium Phosphate or Phosphate of Lime.

Fluorine also is never met with uncombined. It never unites with Oxygen, forming in this respect the sole exception among the elements. Its most frequent combination as a rock is with Calcium when it forms the mineral Fluor Spar.

To these metalloids we may add the colorless, tasteless gas Nitrogen, which, though not largely present in the earth's crust, constitutes four-fifths by volume or 77 per cent by weight of the atmosphere, and is always found in the composition of plants, also in peat and coal. It is also the principal ingredient of the substance called Ammonia.

Though so large a proportion of the known terrestrial elements are metals, these are much less abundant in the earth's crust than the metalloids. The most frequent are Aluminum, Calcium and Magnesium. The substance most familiar to us as metals occupy an altogether subordinate part among rocks, the most abundant of them being iron.

Aluminum never occurs free, but can be artificially separated from its compounds, when it is seen to be a white, light, malleable metal. It also occurs crystallized as the ruby and sapphire, but is for the most part united with Silica.

Calcium is not met with uncombined, but has been artificially isolated and found to be a light, yellowish metal, between gold and lead in hardness. It is present in many Silicates and so abundant is Calcium-Carbon or Carbon of Lime that it may be found in most natural waters. Magnesium is likewise only isolated artificially, when it appears as a soft white malleable metal.

Iron is in the free state in minute grains in some volcanic rocks. There is reason to believe that much of the solid interior of the earth may consist of native iron and other metals; but it is in combination that iron is chiefly of importance in the earth's crust. Iron is the great coloring matter of nature. Its Peroxide compounds give greenish hues to many rocks, while its Peroxide colors them various shades of red, which, when the peroxide is combined with water, pass into many tints of brown, orange and yellow.

Barium and Calcium are called metals of the Alkaline earth. The former can only be obtained in a free state by artificial means.

BOHEMIA NOTES.

Wm. Griffith of Griffith & Reed, came in this week and reports things humming at the Broadway group. About twenty-five feet has been gained on the Broadway tunnel and the results are most satisfactory. On the Diamond claim the Broadway people have drifted on the Knott ledge about twelve feet and have struck some exceedingly rich milling ore which grows more promising with each foot gained in depth. On the Frank Brass claim the boys are up against a fine ledge which will compare with anything heretofore uncovered in camp. There is one thing peculiar about this property which is furnishing no end of speculation among those who have had their attention called to the matter. The "country rock," which has been thrown over the dump by the ton has been assayed and the returns show a copper value of \$5 to the ton.

Recent reports from Stock & Harlow are to the effect that the boys are striking it richer than ever. Last Friday they were up against an eighteen inch shute of the yellow metal in streaks as thick as the blade of a case knife. It is said that this shute will run \$25.00 to the ton.

Cluckey & Peterson have struck a rich free milling proposition on their claim, the Aurora, which pans a splendid string of gold.

A report comes to town from most reliable sources that the Helena people have within the past few days run into a body of very fine ore which is much like and fully as rich as that of the Stocks & Harlow mine.

The Chicago Typewriter

Price \$35.00

The CHICAGO Cannot Be Excelled for Compactness and Clearness of Writing. It is easy to learn to operate, and there is a small number of parts to get out of order.

E. L. KING, C. J. HOWARD,
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FOR MEN.

We handle Saranac Glove Company's goods. They are considered the best glove in the market.

Good Yellow Oil Stock with patented string fastener... 50 and 75c.

Our Steam Proof line are a soft, pliable glove, as well as durable; made with patented string fastener... 85c, \$1 and \$1 25.

Unlined Kit, soft finish, making a very nice driving glove... \$1 25.

Saranac Buck, light weight, fine stock, no hand, open back, Porter fastener, welted, wax linen thread soft and pliable; undoubtedly the best glove in the market... \$1 50.

Unlined Chopper Mitts, oil grain calf skin... 50c and \$1.

Lined Kit Gloves, fine stock... \$1.

Garman & Newland
COTTAGE GROVE, ORE.

FOR BOYS.

Cotton Sweaters, good quality, in maroon and assorted striped colors... 50c.

All-Wool, light weight, assorted colored striped... \$1 25.

FOR MEN.

Cotton, good quality, color maroon... 50c.

Mixed Cotton and Wool, medium heavy, maroon... 80c.

All-Wool, good quality, medium heavy, maroon... \$1 10.

Same as above, only finer wool, assorted solid colors... \$1 45.

All-Wool, very fine quality, in assorted colored stripes... \$2 25.

White, medium heavy... \$2 50.

FOR CHILDREN.

Lawn Hoods, made of lace open work; very pretty designs... 35 to 65c.

Embroidered and Tucked Muslin and Swiss, different designs... 75c to \$1 35.

Ladies' Sun Bonnets, made of chambray, full back crown, stitched and lined, assorted colors... 50c.

Our line of Loose Embroideries, Ribbons and Drygoods Notions is large.

Ladies' Summer Skirts, large variety; in price from... 50c to \$3.

Shirt Waists, different colors and kinds... 50c to \$6 75.

Ladies' Neck Wear in latest styles... 15c to 60c.

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NOTICE OF FINAL SETTLEMENT.

Notice is hereby given that the undersigned administrator of the estate of J. C. Stouffer, deceased, has filed his final account in said estate and that the County Court of Lane County, Oregon, has fixed Monday the first day of October, 1900, at the hour of ten o'clock A. M. as the time for examining and passing upon the same.
Dated this 29th day of August, 1900.
C. H. BURKHOLDER,
Administrator.

FOR SALE.

I have 75 to 80 goats for sale.
VRS VEATCH.

Parties desiring to build barns, sheds or other outbuildings would do well to take advantage of the low figure at which The Booth-Kelly Lumber Co. are offering some cull lumber in 1 inch and 2 inch thickness. Call on them or write them for particulars.

Take the Bohemia Nugget.

Hotel Eugene

HOLLENBECK BROS. & BRISTOW.

Headquarters for MINING MEN.

EVERY WANT ATTENDED TO.

EUGENE, - - - - - OREGON.

NOTICE.

There will be a call meeting of the South Lane County Stock and Wool Growers Association at Cottage Grove, on Saturday Sept. 29th at one o'clock p. m. Important business.

J. G. POWELL, Pres.

JEROME KNOX, Sec.

FIREMAN'S NOTICE.

All members of the R. H. Co., are requested to meet Oct. 1st, 1900.
J. C. VEATCH, Sec.

ENDURED DEATH'S AGONIES.

Only a roaring fire enabled J. M. Garretson, of San Antonio, Tex., to lie down when attacked by Asthma, from which he suffered for years. He writes his misery was often so great that it seemed he endured the agonies of death; but Dr. King's New Discovery for Consumption wholly cured him. This marvelous medicine is the only known cure for Asthma as well as Consumption, Coughs and Colds, and all Throat, Chest and Lung troubles. Price 50c and \$1.00. Guaranteed. Trial bottles free at Benson Drug Co., Drug Store.

A WORD TO MOTHERS.

Mothers of children affected with croup or a severe cold need not hesitate to administer Chamberlain's Cough Remedy. It contains no opiate nor narcotic in any form and may be given as confidently to the babe as to an adult. The great success that has attended its use in the treatment of colds and croup has won for it the approval and praise it has received throughout the United States and in many foreign lands. For sale by Benson Drug Co., Cottage Grove. LYONS & APPELATE, Drain Druggists.

Bohemia Nugget and Weekly Oregonian \$2.00 per year.

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For Miners' Supplies, the only house South of Portland. Give us a call.

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