

THE BLACK DIAMOND

One of the Curiosities of the Mineral Kingdom.

PUZZLE TO SCIENTISTS.

There is a very peculiar way in which this rare form of carbon is produced. It is found in a small locality in Brazil...

The term "black diamonds" is sometimes jokingly applied to ordinary coal which we burn in our furnaces...

Another peculiar thing about the black diamonds is that they are found in one locality in the world. They are from a very small section of Brazil...

Outside of this limited territory pure black diamonds have ever been found. A peculiar freak of nature caused the deposition of the black diamonds in this section of the world...

The whole origin of the black diamonds is, therefore, a scientific enigma. Naturally the question is raised, "Of what use is a black diamond?"

It would care to wear one of these diamonds, which resembles a piece of more than a real diamond, and so no one has popularized the black diamonds as the black pearl has been.

Nevertheless the black diamonds serve an important and useful function in the industrial world. Pure black carbon is not only harder than the real diamond, but it is also not so brittle as the gem.

Consequently it is of great value for mechanical purposes and particularly for boring with diamond drills. Diamond drilling the tips of the bits are studded with carbon, or black diamonds, and when the bore is deep the pressure is so great that the gem diamonds would be crushed in process.

But the carbon resists continued pressure and slowly wears down into the rocks. The diamond drill work the carbon is in circular pieces of soft steel or iron called bits, and these bits are attached to tubing. Armed with these diamond teeth, the drills push their way down under severe pressure to a depth of five and six thousand feet cutting through the hardest kind of rock.

Some black diamonds are harder than others, and there is a way to determine by the color the degree of toughness. Black diamonds or pure carbon are of any means cheap, and the owners of the mines in Brazil where they are mined are making a good thing out of their monopoly. There is no substance that can take the place of carbon in drills in boring for silver, copper and other minerals.

PUZZLE OF THE AIR.

Changing Currents Shown by the Action of Birds in Flight.

The average person regards air much as he regards water—as much lighter, of course, but like it otherwise. Calm air is precisely to him as calm water in a pool. If there is a wind he pictures the air as a flowing river. And just so long as all men looked at it so, just so long the birds kept their monopoly, for the only state in which water approaches the condition of air is when water forms a maelstrom.

Now, a bird, circling with fixed wings, floats on a rising column of air. It maintains its altitude as to the earth, but it is constantly coasting down through the air's ascending volume. Once the bird loses the air column it has to flap its wings, and it flaps till it finds another column, when it goes on wheeling again with fixed wings. Moreover, when it flies the wind comes toward it in waves, rising and falling like the billows of the sea.

It meets them, and then it does precisely what a boat does—goes over them or goes through them. The Wrights learned all this, and when they'd learned they were about as near to flying as you and I would be to writing Chinese philosophy when we'd just learned the English alphabet.

FOUGHT WITH HIS BOYS.

An Amusing Passage Between Willich and Rosecrans.

There are times when the so called "red tape" of the army gives way under the stress of circumstances. At the battle of Chickamauga, General Willich, who was commanding a brigade, incurred the displeasure of General Rosecrans, the commanding general, by some very slight omission.

"General," said Rosecrans sternly, "consider yourself under arrest and leave your sword here until your case is tried."

"Yes, general, I will consider myself under arrest," was the reply, "and shut so soon as dia fight's over I'll come and fix him up."

"But, sir," said the astounded Rosecrans, "I want you to consider yourself under arrest now."

"Of course I do," responded Willich promptly, "and so soon as I get off dia fight I'll be up and settle him."

"But, sir," expostulated the commanding general, "I can't let you go into this fight. You are under arrest. I will send an officer to your brigade."

"You send an officer to fight my boys!" cried Willich indignantly. "He can't do it. They don't know him. Me they know. I teach them. I fight them, and none of the boys would know how to fight or what to do only when I go with them. My boys belong to me; yes, me, General Willich. I command the brigade, and I must fight the brigade."

General Rosecrans gave it up. General Willich was requested to return and "fight his boys," which he did most successfully. And that was the end of the matter.—Youth's Companion.

They Don't Like Rain.

The tortoise shows a greater dislike to and fear of rain than any other animal. Twenty-four hours or more before rain falls the Galapagos tortoise makes for shelter. On a bright, clear morning, when not a cloud can be seen, all the shellbacks on a tortoise farm may sometimes be seen headed for the nearest overhanging rocks. When that happens the people know that rain will come down during the day, and, as a rule, it comes down in torrents. The sign never fails.

Told the Truth. "Why are you sore at Miss Skreacher?"

"When she was urged to sing something at the party last night she said, 'Oh, I can't sing!'"

"Well?"

"Well, she went ahead and proved it."—Cleveland Leader.

Her View of It. "There was a time," said the old inhabitant, "when that piece of property sold for a song."

"Really?" replied the grand opera prima donna. "How very expensive!"—Washington Star.

Knew Her Style. Suitor—But you haven't asked me yet whether or not I can make a living for your daughter. Father—Never mind, Henry. If you marry her she'll see to that.—Chicago News.

Better Late Than Never. "I hope this proposal of mine hasn't taken you completely by surprise, dearest."

"Well, yes, it has. I long ago abandoned all idea of it."—Life.

WASHING DISHES.

Only One Time in a Woman's Life When She Enjoys It.

We never knew but one woman who professed that she liked to wash dishes, and from that moment our faith in her veracity melted like soap in hot dishwater.

The only time we wish we were a man is after a hearty dinner when he can enjoy a siesta or discuss the papers, while we must attend to the inevitable dishes.

Can any one wonder that girls get tired of the monotonous round of dishwashing, which must be done three times a day for the 365 consecutive days?

Think of it, ye gods, and tear your hair and weep for the woes of our sisterhood!

There is a short time in most every woman's life when it is a pleasure, but that is when we are too small to reach upon the kitchen table without a chair and are permitted to wash the cups and saucers to keep us out of mischief. When we are older and have it to do alone the soup tureen would not hold the tears we shed over it.

How we have dreamed over the blue pictures on the old fashioned dishes—pictures of impossible temples and castles, built in unhealthy proximity to "clear lakes," and in girlish fancy wandered to unheard-of lands to dwell in those "castles in the air."

There should be no dishwashing there.

But hark! The shrill voice of our mother rings out clear and sharp:

"Matilda, what are you doing?" with rising inflection on the last syllable of our name.

All the house knows that "Till" is dreaming over the dishes again, and reverie is not permitted in our active household, which was conducted on the "whoop her up" system.

When we see ladies going mad over ceramics we wonder if they served their apprenticeship polishing tabiatefs of china.—New York Weekly.

A DREAM CAT.

Repeated Appearance Premonitory of Disease.

"Some years ago, early in the summer," says H. Addington Bruce in Success Magazine, "I dreamed that while out taking a walk I was suddenly attacked by a huge cat, which clawed ferociously at my throat. That was all there was to the dream, or, at any rate, that was all I remembered on awakening in the morning, and, naturally enough, I dismissed it from my mind as nothing but a dream."

"But when I found myself dreaming the same dream again and again I began to wonder what significance it would possibly have. Usually it varied greatly in minor detail. Always, however, the climax was the same—the cat had me by the throat and was biting and scratching viciously. Altogether I dreamed this dream not less than a score of times in six months."

"Shortly before Christmas I took a cold, which settled in my throat, affecting it so badly as to require the attention of a specialist. Much to my astonishment, it was then discovered that a growth had been developing for some time and that an immediate operation was necessary."

"Several weeks later, the operation having been performed successfully, it suddenly occurred to me that I was no longer being troubled by the phantom cat. For the first time the meaning of the singular dream dawned upon me. "It had been a genuine premonitory dream. Consciously I had been in utter ignorance of the dangerous growth in my throat. It had not progressed far enough to give me any pain or even to cause discomfort. At the same time the organic changes it involved had produced sensations plainly felt by what psychologists call the subconscious and manifesting through the subconscious to the conscious in the form of a symbolic dream."

No Port in a Storm.

The most dangerous of all places when a thunderstorm rages is probably a powder house; consequently it is a rule in explosive works that all the workers shall leave their "house" at the approach of a thunderstorm. So far all is well. But very often when the thunderstorm has passed and the men return and open the cake presses severe explosions have occurred. The reason of these accidents is that in the process of manufacture black powder is placed in the cake presses in alternate layers of powder and ebonite. This acts as an electric pile, just like the pile of coppers and disks of zinc with which boys amuse themselves. When the pile is disturbed the electricity "sparks," and up go building workers and all.—London Answers.

How a Moose Eats.

Of all peculiar sights I think that that of a moose eating grass is the most extraordinary. The neck is so short and the legs are so long that the animal usually kneels in eating grass. True, it does not attempt it very often, for grass is by no means a staple with it, but even a moose likes a change of diet. The appearance of this huge and awkward creature in this devotional attitude is not only interesting, but laughable.—St. Nicholas.

In School.

Teacher—Bobby, give me a sentence in which the verbs "to set" and "to sit" are used correctly. Bobby—The United States is a country on which the sun never sets and on which no other country ever sits.—Judge.

Grinds His Own Meal.

"Pa, what is a dentist?" "A dentist, my son, is a man who uses other people's teeth to feed himself."—Boston Transcript.

Studebaker

WAGONS, BUGGIES, AUTOMOBILES.

Cost no more than others. Don't buy until you investigate. Let us send you our catalogue. Ask us about the 1910 automobiles—you won't regret it.

Automobile Salesroom, Chapman and Alder Sts, PORTLAND.

Wagons and Buggies, 330 E Morrison St, PORTLAND.

LOOK OVER OUR NEW LINE OF FANCY AND STAPLE JEWELRY.

We have Jewelry suitable for Gifts for all occasions. The latest in everything.

EUGENE JENKINS, The Reliable Jeweler

BIG BARGAINS IN FLOUR.

Now is the time to buy your Winter's Flour, Snow Drift Flour, \$5.60 a bbl.; 1.45 a sk. Light-house Flour, 5.10 a bbl. 1.35 a sk.

Pure Cane SUGAR, \$5.80 a sk. Extra Fine Dry Granulated SUGAR, \$5.60. See our goods and get our prices before buying your winter's goods. We carry Bran, Shorts, Middlings, Wheat, Barley, whole and Caked Corn, Alfalfa Meal, also a full line of Canned Goods and Dried Fruits.

RAY FEED CO

Look! Look! Look! And then look deeper into the 20th CENTURY WONDER THE ALADDIN MANTLE LAMP,

A marvel in light and simplicity. It does not burn oil or gasoline, but gas generated from kerosene (coal oil). Gives at least five times the light of an old fashioned lamp. It will save half your light bill and give better satisfaction than any light now in the market. An ornament to any home. Carried about the house or store the same as the ordinary lamp. SEE

H. F. RODDY, At HOWARD WHALEN'S Jewelry Store.

HARNESS, COLLARS, etc.

You Use Them. We Sell Them.

W. A. WILLIAMS & CO., Next Door to Tillamook County Bank.

Winter Reading.

These long Winter evenings you will put your eyes to the test. Do not work them too hard if you value them. If you have a pair of properly fitted glasses you can hardly work them too hard.

ALL WORK GUARANTEED. Dr. Henry E. Morris.

D. R. A. D. PERKINS, RESIDENT DENTIST.

Office in Sturgeon's Building. All Work Guaranteed. TILLAMOOK, OREGON.

J. R. HARTER, Real Estate and Financial Agent.

Insurance. OFFICE: TILLAMOOK HOTEL.

THE POET SAYS "Beauty draws us by a single hair."

This seems like something of an exaggeration on the part of the poet, if at least does not apply to men. The man with a single hair would not draw worth a cent, unless as a curiosity.

People to look their best need hair, they need all they ever have. If the hair begins to go it is time to use

IMPERIAL HAIR TONIC.

This preparation saves hair. It stimulates the hair bulbs, cleans the scalp of dandruff or eruptions, and promotes new growth. Try it now.

Price 50c. and \$1.00 a bottle.

CHAS. I. CLOUGH CO., Reliable Druggists and Prescription Experts.

For Real Estate,

SEE W. C. TROMBLEY, BAY CITY, OREGON.

CLEANING & PRESSING

neatly done at the TOGGERY I

Did You Ever Try HARRIS'S NEW FEED AND LIVERY BARN,

If not, give him a call. Everything first-class. Second block South of P. O. W. G. HARRIS, Prop.

Painless Dentistry

Out of town people can have their teeth and dentures finished in our day if necessary. We will give you a good 22k gold or porcelain crown for \$3.50. Metal Crowns 5.00. 22k Bridal Teeth 2.50. Gold Fillings 1.00. Silver Fillings 1.00. Silver Plates 2.50. Gold Plates 4.00. Dent. Gold Plates 7.50. Painless Extractions .50.

WORK GUARANTEED FOR 15 YEARS. Painless Extractions 1 row, 2 rows, plates or bridge work is ordered. Consultation Free. You cannot get better painless work done anywhere. All work fully guaranteed. Modern electric appliances. Best work in Tillamook.

Wise Dental Co.

PAID UP BUILDING INCORPORATED. 219 W. 4th St. PORTLAND, OREGON. OFFICE HOURS: 9 A. M. to 5 P. M. Sundays, 9 to 12.

THE WORLDS GREATEST SEWING MACHINE LIGHT RUNNING

NEWHOME



If you want either a Vibrating Shuttle, Rotary Shuttle or a Single Thread (Chain) Sewing Machine write to THE NEW HOME SEWING MACHINE COMPANY, Orange, Mass. Many sewing machines are made to self-regulate in quality, but the New Home is made to work. One guarantee never runs out. Sold by authorized dealers only.