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planned, arranged and executed with that thorough attention to detail which always insures satisfaction to owners or tenants. Our work never has to be done over, and we live up to our contracts. We undertake any kind of plumbing, gas or heating that is known to modern building methods. We employ the best workmen and personally supervise all work.

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COTTAGE GROVE, OREGON

DANGERS LURKING IN THE OPEN WELL

Editor Leader.—The condition in which I find water received from various parts of the state warrants my calling the attention of the public to the unsanitary conditions which must exist surrounding their water supply. Some samples of water taken in sterile bottles under antiseptic precautions, contain as high as 63,580 germs per cubic centimeter (a teaspoon holds about five cubic centimeters of water and an ordinary drinking glass about 225 cubic centimeters). A glass-full of such water would therefore contain 14,305,500 living germs. While it is true that many varieties of these germs are not directly disease producing, the continued introduction of such large quantities of them into the system lowers vitality and increases susceptibility to the disease producing types when they gain access to the body. Water containing so many organisms carries also, in solution, the ptomaines from the putrefaction of the organic matter in which they grew. These large numbers of organisms generally find their way into open wells by surface drainage and where they can pass, so may the disease producing types pass also.

The waters from driven wells are comparatively free from organisms. An open well is an abomination and is not in keeping with our present understanding of the laws of sanitation.

A GOOD WELL.
The question arises, how can we better our condition? Where a well is the only means of obtaining water, let it be dug to the water bearing stratum, wall it up with brick laid in cement, for ten feet, arch it over, with the pump-pipe and arch well cemented in, fill the remainder of the hole, which may be fifteen to twenty feet, with clay well tramped down, and the result will be a bottomless brick jug, deep under ground, into which no surface water, worms nor animals can penetrate. The water from such a well is as pure as can be obtained from the locality in which it is situated.

POLLUTING THE WATER.
There are many families living in the country who should enjoy the best of health, but who are always ailing. The cause of ill health may, as a rule, be traced to their use of polluted water produced by the unsanitary condition of their surroundings. But few homes have proper drainage from sinks and baths; dishwater is thrown out of the back door on the ground near the well, garbage is similarly disposed of to decompose and drain into the well. Wash water containing filth that would not be tolerated on the clothing is also emptied on the ground to drain into the well. Most of the open wells situated near the house or barn are but cesspools. It is the lowest point in its vicinity into which liquids drain.

It is well known that milk is an ideal food for typhoid bacilli, and for that reason it should be well guarded from the invasion of flies. Keep flies out of the house, especially that part where food is kept. The ordinary stone or brick wall of an open well only serves the purpose of preventing the caving in of the earth, and in no sense acts as a filter.

E. F. PERNOT,
Agricultural College.

Look at This Proposition!

A 40 acre farm only 1/2 mile north of depot on good road and on bank of river. Fine land and good new buildings, house and one barn painted. Four acres of fine young orchard in bearing and plenty of berries, nearly all of the land is tillable and in crop. If you want a dandy home almost in town look this up at once. For the next 10 days this goes for \$7500. It has been held at \$8000. Call on J. D. Cochran, Cottage Grove, Oregon.

For Sale.
10,000 feet good lumber for sale. Inquire C. W. WALLACE. 50H

Poultryman's Alphabet.

Advertising is the stepping stone to success.

Be thankful to get any prizes at all without expecting anything.

Choose your variety and jump in.

Discard the narrow-breasted, long-legged ones. They are a delusion and a snare.

Every neglect has its cost in poultry raising.

Fatty meat should never be fed laying stock.

Gentleness is virtue in the poultry yard.

Have an object in view and then work strictly to line.

Indifferent care will ruin the capacity of any breed.

Johnny cake is a good feed—if you want to become a slave to your chicks.

Keep on advertising.

Let the comb act as your health barometer.

Mix carbolic acid with kerosene for the roosts and don't neglect to use it.

Nothing is better for growing stock than dry bran.

Overcrowded quarters mean disease, death and disaster.

Profit in any kind of poultry breeding comes from having the best.

Quite a few dollars can be made in poultry if you have enough sense.

Read all you can lay hands on regarding poultry breeding and then use your own common sense.

Scratching hens lay the eggs.

Trap nests expose the fraudulent hens.

Utility means more than symmetry, shape and feathers.

Vigor and vitality are the factors that make money.

Working hens, like working people, are the healthiest and easiest to get along with.

Xanthous-legged fowls are market-toppers.

You cannot expect to keep your culls and capture the cups.

Zetetic method will bring results where blind following of custom fails.—Rural World.

Barrels 14 to 35 Gallons Carpets and Rugs

Made to order and Satisfaction guaranteed both as to workmanship and prices. Apply to

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For further particulars address

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Portland and Return Only \$5.90

The Southern Pacific Co. is now selling round trip tickets to Portland from Cottage Grove for \$5.90 good going Saturday on No. 16 at 1.50 a. m. train, returning Monday evening on No. 13 leaving Portland at 7.30 p. m., giving all day Saturday, Sunday and Monday in Portland. The same arrangements apply from Portland giving Portland people a chance to visit valley points at greatly reduced rates.

Dressmaking.

Mrs. Sanford desires to announce that she is again prepared to do all kinds of dressmaking and solicits the patronage of both old and new customers. Call at her residence on Locust street or Phone 277. Ladies tailored suits a specialty.

Fashion Stables



First Class Livery, Sale and Feed Barn in Connection
Powell & Tullar, Prop.

At Even MONEY A SAVING

Of time, traveling expenses and fatigue can be made by using the shortest route East.
There is but one short and direct route between the West East.

The Southern Pacific

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There is unsurpassed through fast train service to Denver, Omaha, Kansas City, Chicago with direct connections to all points East and South.

There is an abundance of matchless scenery, and an opportunity to make a daylight stopover at Salt Lake City if it is desired.

Let us tell you all about what can be done, before you purpose ticket.

J. M. ISHAM, Agent, Cottage Grove.

WM. McMURRAY,
General Passenger Agent
PORTLAND, OREGON.

Mr. J. M. Comer, the carpet maker, is prepared to take orders for converting pieces of Brussels carpet into rugs, call and see him at his home on Wall street.

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From all Parts of the East via

Union Pacific, Oregon Short Line
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\$33 from Chicago. \$30.50 from St. Louis.
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Correspondingly low from all other points.

TO THE PUBLIC

Write letters to everybody you know in the East and tell them about these low colonist rates. Send them literature about Oregon or send their addresses to us and we will do it. In this way you can be of great help in the growth and progress of your state.

You can Prepay Fares

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You Need Fire Protection.

Tom Awbrey can give you good reliable insurance at reasonable rates, put your residence insurance in the Oregon Fire Relief Association and your business property in the Bankers and Merchants Mutual. Call at the express office for rates.

NOTICE FOR PUBLICATION.

Department of the Interior,
U. S. Land Office at Roseburg, Ore.
April 21, 1909.
Notice is hereby given that **PRESTON W. GREEN** of Zion, Oregon, who on April 15, 1906, made Homestead entry, No. 1449, S. R. 0275, for the E 1/2 of SE 1/4, S 1/2 of NE 1/4, Section 2, Township 20 South, Range 1 West, Willamette Meridian, has filed notice of intention to make final five-year proof to establish claim to the land above described, before Geo. B. Dorris, U. S. Commissioner at Eugene, Oregon, on the 1st day of June, 1909. Claimant names as witnesses: Henry Tilton, of Dexter, Oregon; Asa Tilton, of Zion, Oregon; Joseph Wilhelm, of Dexter, Oregon; R. C. Travis, of Eugene, Oregon. 42-52 BENJAMIN L. EDDY, Register.

NOTICE FOR PUBLICATION.

Department of the Interior,
U. S. Land Office at Roseburg, Ore.
March 19, 1909.
Notice is hereby given that **CHAS. F. MILLER** of Cottage Grove, Oregon, who, on April 9, 1902, made Homestead Entry, No. 1443, S. R. 0234 for N 1/2 of SW 1/4, Section 4, Township 20 South, Range 4 West, Willamette Meridian, has filed notice of intention to make final five-year proof to establish claim to the land above described, before Geo. B. Dorris, U. S. Commissioner, at Eugene, Oregon, on the 8th day of May, 1909. Claimant names as witnesses: Chas. R. Tompkins of Cottage Grove, Oregon; M. S. Tompkins of Cottage Grove, Oregon; W. B. Hawley of Lorane, Oregon; Filetus Davis of Lorane, Oregon. BENJAMIN L. EDDY, Register.

Reliable Seeds

So much has already been said on the importance of buying your seeds from a reliable dealer that to repeat it is only waste of words. **DESS** Seeds have proved their worth—our increasing business is proof indeed that merit alone has made the Chas. H. Lilly Co. foremost seedsmen on the Pacific Coast. Send for catalog, 120 page, illustrated, descriptive.

