

HOW TO FINANCE, BUILD AND MAINTAIN PHONE LINES

By Mr. J. Victor A. Farnell, St. Helens Manager of the Pacific Telephone and Telegraph Co.

This is the third and last of a series of articles by Mr. Farnell telling how to organize, finance, build and maintain rural telephone lines so that a maximum of service will be rendered to the stockholders.

It is unfortunately true that many rural telephone companies, having first completed a good construction job in the building of their telephone lines, thereafter promptly neglect to provide for the important task of properly maintaining their poles, lines and instruments.

Telephone plants deteriorate rapidly, and frequent repairs are required to keep the lines working satisfactorily. Commercial operating companies charged with the responsibility of rendering uniformly good service, with as little interruption as possible are required to keep a force of trained men constantly engaged in the upkeep of the plant.

For the most part the maintenance of farmer lines has been considered as the joint responsibility of all the farmers receiving service on the line and it has usually worked out that way. It is usually the responsibility of that farmer line maintenance unit is that irregular and inefficient. Some lines have varied the plan by making each individual on the line responsible for a specified section of the line, with the result that the maintenance of the line is measured by the weakest section or the one least maintained. Neither plan is satisfactory and where they still exist they should be abandoned in favor of a plan which will get definite results, namely: make one man responsible for the maintenance of the entire line and compensate him for time devoted to such maintenance.

The first rule of good maintenance is to cure a bad condition before it actually menaces service on the line and to this end, the maintenance program should provide for periodic inspection of every foot of the line, in order to detect and correct conditions which if allowed to continue, will sooner or later put the line in trouble. The trouble man should be provided with the proper tools and a small quantity of material necessary for ordinary maintenance of a telephone line. If he will call at the office of the Pacific Telephone and Telegraph company where a lineman or wire chief is regularly employed, our men will gladly give him all instructions necessary for ordinary line and instrument maintenance and will show proper methods of wire splicing, tying in line insulators and other repair work.

Testing Service Available.

In telephone exchanges where a wire chief is stationed there is in place testing apparatus and men skilled in its use who readily locate faults on lines and stations. This testing service may be also used by farmer line repairmen and they are cordially invited to make use of it in locating line and instrument troubles. Ask the central office operator for "wire chief" and when connected explain the problem to him and doubtless time, patience and energy will be saved in observing his instructions that will follow the tests he will make.

It is necessary to maintain good insulation between the wires and the ground and this is particularly true in a damp country. Wires should be in contact with the trunks or limbs of trees or in contact with brush or poles. Cutting brush and trimming trees away from wires and poles is one of the jobs we seldom neglect. It is an unescapable task if good talking and ringing circuits are to be had.

Broken insulators and pins should be replaced. Bare wires should not be in contact with farm buildings unless made fast to insulators. Loose ends of wire should be cut off to avoid possible trouble from crossed or grounded wires. Loose connections are the most difficult of all trouble to locate on outside wires, and largely the principal cause of a poor rural telephone service. As a matter of fact, we class poor line connections first of all causes for unsatisfactory rural telephone service. Many of the service faults charged to central office operator that may be listed as the failure to promptly answer calls, failure to properly ring bells and cutting off from your party during conversation may be traced to poor connections in the line wires. A noisy line cutting out and in during conversation with a party is usually found to be caused by a loose connection. Connections between the entrance wires, going in to farm house and the line wires making fast to the house are locations where line wire and copper in contact with iron sets up a chemical action which forms an insulation medium. This trouble can be avoided by soldering all connections between copper and iron wires.

Poor Connection Causes Trouble. A poor connection will frequently be found that will measure in line resistance the equivalent of several miles of iron wire. If there were found five loose connections in a telephone line measuring the equivalent of five miles of No. 12 iron wire it would have the same effect on talking and ringing over a line as adding 25 miles of No. 12 iron wire to the line. We have removed many poor connections from farmer lines which have far exceeded in resistance five miles of No. 12 iron wire.

There are many things to do that may be classed as chores to keep a telephone line in good condition, but the two most important things are to watch for and correct are poor insulation of the line and loose connections.

Individual subscribers should be cautioned against attempting re-

pairs to telephones. In any difficult or repeated case of instrument trouble, if the telephone is brought to our central office it will be thoroughly tested and repaired. On instruments brought to our office one half hour's work will be performed without charge and parts of the telephone damaged will be replaced at actual cost of material.

The replacement of dry batteries should be done at regular intervals by the rural lineman looking after the repair work and should not be left to the discretion of individual subscribers. The lineman should be provided with a Western Electric No. 35 battery gauge and all dry batteries more than six months in use or testing less than normal, as shown by the gauge, should be replaced.

It requires a careful patrol of the line and an inspection of the instruments from time to time to locate and remove faults mentioned, but it will be found the time and money involved is well expended. Rural subscribers observing the practices herein outlined will be appropriately rewarded in more satisfactory talking and ringing, and calling parties will be encouraged to transact business over the line that will be to the mutual advantage of the farmer and those who buy his products. Good telephone service plays an important part in the business of conducting a successful farm.

COURT PROCEEDINGS

Saturday, June 17, 1922, 5th Judicial Day.

In the Matter of Cattle Indemnity Claim of Shannon B. Shafer. Claim received and set for hearing on Wednesday, the 5th day of July, 1922.

In the Matter of Improvement of the Deep Creek Road in Road District No. 8. Bids for this improvement advertised for July 5, 1922.

In the Matter of the Construction of a Wooden Bridge Across Nehalem River near Vernonia. Bids for the construction of this bridge advertised for July 5, 1922.

In the Matter of Transfer from Special Deposit Fund to General County Fund. Ordered that \$31.14 be transferred.

In the Matter of Transfer from Old Road Districts 1 to 17 to the General Road Fund. Ordered that \$496.02 be transferred.

In the Matter of Transfer from Highway Bond Fund Accounts to General Road Fund. Ordered that \$68.55 be transferred. Whereupon court adjourned to July 5, 1922.

Household Hints

Flour sacks when bleached make good every day pillow cases, or even bloomers and skirts for the kiddies.

Do not neglect to darn or patch clothing over time a break is noticed. A garment will wear twice as long if properly cared for.

Save all wool goods, even partly worn, and make quilts. Those that can not be used for quilts may be sewed like carpet rags and hooked or braided into rugs.

When pancakes are sticky they aren't stiff enough. Pancakes made with buttermilk or sour milk must be quite stiff and those made with sweet milk and eggs should be very thin.

Do not turn house plants oftener than once in two weeks if you wish them to grow fast, as they always grow towards the light, and turning them is like resetting them, they have to make a new start.

Recommend Chamberlain's Tablets. "Chamberlain's Tablets have been used by my husband and myself off and on for the past five years. When my husband goes away from home he always takes a bottle of them along with him. Whenever I have that heavy feeling after eating, or feel dull and played out, I take one or two of Chamberlain's Tablets and they fix me up fine," writes Mrs. Newton Vreeland, Minoa, N. Y. Take these tablets when troubled with constipation or indigestion and they will do you good.

A Beautiful Thought. You can boost until you become a bore. An appropriate "knock" at the right time accomplishes more than an inappropriate "boost."

St. Helens Candy Kitchen Hewitt Building ICE CREAM Fancy Dishes Home Made Candies Sundaes and Parfaits Frappes and Frosted Drinks Soda Fountain Specialties St. Helens Candy Kitchen

NEVER SAW ITS EQUAL, STATES MRS. BROWER

Portland Resident Says No One Has More Reason Than She To Praise Taniae.

"I've never seen such a change in anyone and I don't believe anybody has better reason for praising Taniae than I have," declared Mrs. J. P. Brower, 662 E. 81st St., Portland, Oregon.

"Nearly all my life I had awful spells of sick headache that kept me in bed days at a time. My nerves seemed to collapse and I would almost go distracted over any little raise. Then about three years ago my stomach began to trouble me and I have simply suffered tortures from indigestion. I had to be extremely careful about the little I did eat for gas made my heart palpitate until I could hardly breathe.

"I took Taniae because a friend told me how much good it did her. Now I feel so well in every way I can't tell there was ever anything the matter with me and I gladly give this statement in the hope that others may profit from my experience. Taniae is sold by all good druggists.

NOTICE OF SHERIFF'S SALE.

In the Circuit Court of the State of Oregon for Columbia County, vs. M. F. Hazen and M. A. Hazen, Plaintiffs.

vs. J. P. Donohue and Bertha Donohue, Defendants.

Under and by virtue of an execution issued out of the above named court, in the above entitled suit, on the 20th day of June, 1922, in pursuance of a judgment, decree and order of sale, rendered and entered in said court on the 19th day of June, 1922, in a mortgage foreclosure suit wherein the plaintiffs, M. F. Hazen and M. A. Hazen, recovered judgment against the defendants, J. P. Donohue and Bertha Donohue, for the sum of \$500.00 with interest thereon at eight per cent per annum from July 8, 1921, for \$60.00 attorney's fees, and for \$40.30 costs, I am commanded to make sale of the following described real property in Columbia County, Oregon, to-wit: Beginning at the Southwest corner of Lot Six of Block Seven of Georgetown, according to the official plat of said Georgetown of record in the office of the County Clerk of Columbia County, Oregon, thence running North 63 degrees, 51 minutes West 129 feet; thence North 25 degrees, 05 minutes East 298 feet; thence South 63 degrees, 51 minutes East 129 feet; thence South 25 degrees, 09 minutes West 298 feet to the place of beginning, and containing 82-100 acres, all being located in Section 4 in Township 4 North of Range 1 West of the Willamette Meridian.

Now, therefore, notice is hereby given, that on Saturday, the 22nd day of July, 1922, at 11 o'clock in the forenoon of said day, at the front door of the court house in St. Helens, Columbia County, Oregon, I will, in obedience to said execution, decree and order of sale, sell at public auction (subject to redemption), to the highest bidder for cash, all the right, title and interest which the above named defendants have or either of them had on July 12, 1921, the date of said mortgage, in and to said real property to satisfy said execution, judgment, interest, attorney's fees, costs and accruing costs.

J. H. WELLINGTON, Sheriff of Columbia County, Oregon. 2815

At one time no taxes were levied in this country. But the country wasn't fit to live in then.

Nearly every day is a fine day in the police court.

SUMMONS.

In the Circuit Court of the State of Oregon, for Columbia County, vs. Jesse R. Sharp, Plaintiff, vs. Victor Biseh and Jane Doe Biseh, his wife whose real and true name is unknown; Blanch Biseh Gilbert and D. M. Gilbert, her husband; Octavia Hughes and John Doe Hughes, her husband whose real and true name is unknown; Eliza C. Jones and John Doe Jones, her husband whose real and true name is unknown; Victoria Lawton and John Doe Lawton, her husband whose real and true name is unknown; Emma Luck and John Doe Luck, her husband whose real and true name is unknown; Mathilda Stilson and John Doe Stilson, her husband whose real and true name is unknown; and T. A. Marquam and Jane Doe Marquam, his wife whose real and true name is unknown; and all the unknown heirs of the above named defendants; also all other persons or parties unknown claiming any right, title, estate, lien or interest in and to the real estate described in the complaint herein, Defendants.

To Victor Biseh and Jane Doe Biseh, his wife whose real and true name is unknown; Blanch Biseh Gilbert and D. M. Gilbert, her husband; Octavia Hughes and John Doe Hughes, her husband whose real and true name is unknown; Eliza C. Jones and John Doe Jones, her husband whose real and true name is unknown; Victoria Lawton and John Doe Lawton, her husband, whose real and true name is unknown; Emma Luck and John Doe Luck, her husband whose real and true name is unknown; Mathilda Stilson and John Doe Stilson, her husband whose real and true name is unknown; and T. A. Marquam and Jane Doe Marquam, his wife whose real and true name is unknown; and all the unknown heirs of the above named defendants; also all other persons or parties unknown claiming any right, title, estate, lien or interest in and to the real estate described in the complaint herein, the above named defendants:

you and each of you in the above entitled suit on or before the 15th day of July, 1922; said date being six weeks from and after the date of the first publication of this summons, and, if you fail so to appear and answer for want thereof, the plaintiff will apply to the above entitled court for a decree that plaintiff be adjudged the absolute owner in fee simple of the real estate described in the complaint herein and more particularly described as follows, to-wit:

All of the Northwest quarter (NW 1/4) of Section 32 in Township 4 North of Range 2 West of the Willamette Meridian in Oregon, save and except an undivided one-eighth interest therein owned by Maria DeLashmatt, and All of the Southeast quarter (SE 1/4) of Section 23 in Township 4 North of Range 2 West of the Willamette Meridian in Oregon, all in Columbia County, State of Oregon; that the title to said premises be quieted in the plaintiff; that you and each of you have no right, title, estate, lien or interest in or to the said real property or any part thereof, and that you and each of you be forever barred and estopped from asserting or claiming any right, title, estate, lien or interest in and to said real property or any part thereof, and for such further equitable relief as to the Court shall deem meet and proper in the premises.

This summons is published in the St. Helens Mist, St. Helens, Oregon, by order of the Hon. J. A. Eakin, Judge of the above entitled Court, which order was made and entered on the 25th day of May, 1922.

The date of the first publication of this summons is June 2, 1922, and the date of the last publication thereof is July 14, 1922.

All processes and papers in this suit may be served upon the undersigned attorneys for plaintiff residing within the State of Oregon at the address hereinafter first stated.

THEODORE OPSUND, C. L. STARR, M. A. ZOLLINGER, Attorneys for Plaintiff.

Address: 595 Selling Building, Portland, Oregon.

If you want to make a man smile, tickle his vanity.

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Address: 595 Selling Building, Portland, Oregon.

If you want to make a man smile, tickle his vanity.

QUALITY MEATS

Our meats are first picked for quality, and then kept under sanitary conditions, and perfectly refrigerated. That's why our meats are the best you can get. A full line of choice groceries, fruits and vegetables always on hand and at reasonable prices.

The Peoples Market

Strand St. St. Helens, Oregon Telephone 40

It's Trout Time



And you will want a new fishing outfit or replenish the old one. Come in and look our fishing goods stock over. We are headquarters for everything in the way of Rods, Reels, Baskets, Lines, Hooks and the dozen and one things that go into a trout fisherman's outfit.

Deming's Drug Store

Muckle Building

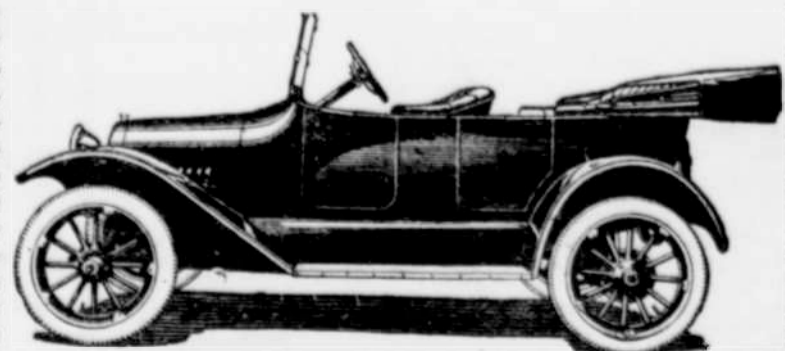
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ST. HELENS, OREGON

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Kerr's Dairy Feeds, none better. We also have several other brands of dependable Dairy Feeds. Prompt delivery and priced right. Also Wheat, Cracked Corn, Grains and Hay.

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Strawberries are ripening fast. Don't let them go to waste for the lack of crates. We have a large supply at prices lower than last season.

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We can supply your wants in this line and at surprisingly low prices. Always in stock—brick, lime, cement, plaster and other materials when building that home.

Frank Wilkins

Office and Warehouse on Sheldon Dock, Phone 86 Building Supplies Feed Hay and Grain