HOW TO SECURE BETTER SERVICE ON RURAL PHONE LINES

By J. R. Farrington, Roseburg Manager of the Pacific Telephone and Telegraph Company.

This is the second of a series of articles covering various points to be observed so that a maximum of service will be rendered to the stockholders of rural lines.

An important feature in connection with the establishment of rural telephone service is the proper construction of the pole lead. This should be carefully planned and the construction program outlined and faithfully carried forward. It is economical to use the best poles, preferably cedar, as the life of a cedar pole is from 15 to 22 years.

Fir or pine poles unless dry or tank-treated with creosote should not be used as they will rot in from two to five years. Poles should be set in the ground as follows:

25-foot poles, 4 feet deep.
30-foot poles, 4½ feet deep.
35-foot poles, 5 feet deep.

It is advisable to set poles six inches deeper at corners or on curves. Several years may be added to the life of a pole by banking the earth 6 to 12 inches around the butt of the pole. It is of the utmost importance if a pole lead is to be economically maintained that it be properly guyed to withstand the strain upon it. Metal anchors with rods or cedar logs may be used for this purpose. When a cedar log is used the best practice to follow is to use an anchor or rod through the log, as often when wire is twisted around a log, especially when the connection is made at the ground line, the guy-wire will then rust off at the ground.

How to Attach Wires.

When wires are attached to poles or brackets the first pair should be on opposite sides and at least 18 inches apart vertically and the second pair should have the same spacing. It is not good practice to place more than four wires attached to a pole unless upon cross arms. Cross arms are made of various lengths according to the number of wires they are to carry. They may be purchased through local electrical supply houses but frequently local mills can manufacture them more cheaply. Space for pins on cross arms should be not less than 10 and preferably 12 inches apart. Cross arm pins are made 1½ inches and 1¾ inches. The 1¾-inch pin is always the best to use, as the larger sized pin weakens the cross arm and seems to rot about as fast as the smaller pin. Cross arms should be bolted to the pole with 1 5-8 inch bolt through the pole and cross arm; the hole in the pole to be 10 inches from the top of the pole. The cross arms should be braced to the pole by two 30-inch iron braces, made fast to the cross arm with ½x4-inch carriage bolts and to the pole by a 4-inch fetter drive screw. Where more than one cross arm is placed on a pole they should be spaced 24 inches apart.

There was a time in the development of the telephone on farms when it seemed desirable to use single wire telephone lines. This was during a period when the telephone was not as generally in use on the farm as it is at the present time. It is not uncommon at the present time to notice as many as four or five paralleling pole leads including a power transmission line on the same highway, and if this is not a fact at the time your project is under way it is good business judgment to make provision for such an eventuality.

Two-Wire Lines Better.

We believe that under no circumstances can the construction of a single-wire telephone line be justified excepting in a heavy timbered sparsely settled country or semi-arid section of the state where there are few settlers and no paralleling lines and little prospect of immediate growth in population. We therefore strongly recommend that only metallic circuits (two-wires lines) be considered. While it will cost a little more than a single or grounded line, the two-wire lines will prove much more satisfactory in every way. It offers much better transmission, practically eliminates the possibility of cross talk and is much more free from inductive disturbance from high power lines in the vicinity of the farmer line.

In the event of a pole lead, or a part thereof, carrying a single-wire line is to be reconstructed, a two-wire circuit may be placed on the new lead after it is constructed and the old lead may carry the single wire until such time as it is rebuilt and then it can be made to conform to modern standards of telephone constructions.

In carrying out a policy of doing all new or reconstructed telephone work in accordance with the best practices, it follows that rural telephone service will gradually improve and the value of ownership of shares in the rural telephone company adopting such a policy will be correspondingly enhanced.

In building a rural pole lead it is good engineering practice to carry forward the project on a basis that the lead of poles be in the future the only rural telephone lead on that highway carrying telephone wires. It follows that as paralleling leads or poles become obsolete the wires will be transferred to the best lead of poles, under a mutual business arrangement that will compensate for the excess first cost above the present requirements. Where there are several rural telephone leads on the same highway in poor condition it may be found to the best interest of all separate companies to join in the construction of a standard pole lead, and thereby make the immediate outlay of funds to each company a less burden than if the project were financed by one company.

List of Tools Needed.

Following is a list of tools and supplies that should be a part of the outfit of every farmer line company for the use of the linemen on construction and repair work:

Tools.

1 Western Electric 17-A test set
2 sets 3-inch steel blocks
2 No. 1 Buffalo grips
1 pair connectors, 8-inch
1 canvas lineman's tool bag
1 hand line 3-8-inch manilla, 100 ft.
1 pair 8-inch lineman's pliers
2 pike poles, 12-ft. length
1 8-foot spoon shovel.
1 8-foot straight shovel.
1 5-foot shovel.
1 9-foot steel bar
1 blow torch, Clayton Lambert
1 soldering iron, 2 pounds
1 dead-man brace for poles
1 W. E. No. 25 battery gauge

Material.

5 lbs. Western Electric flux solder
6 feet 3-8-inch Flexduct
20 feet No. 18 B. & S. paired inside wire
1 pkg. ¾-inch Blake staples
1 pkg. ½ Millonite nails
1 pkg. ½-inch friction tape
2 2½-ft. No. 92 cords
2 No. 200 mouthpieces
25 lbs. No. 12 B. B. Galv. iron wire
25 lbs. No. 14 B. B. Galv. iron wire
1000 feet of No. 14 duplex (for restoring service when several poles are down pending permanent repairs)
1 doz. No. 4 porcelain knobs
1 doz. Galv. 3x16 screws
1 doz. poney glass insulators
1 doz. No. 12 oak brackets
1 doz. 1½-inch x 8-inch locust pins —(measure pins in use; 1¾-inch by 8 inches may be in use)

There is on file in all exchanges, where a wire chief is located, standard specifications for the construction of pole leads and pole lines, and before undertaking an extensive program it would be of advantage to make use of this reliable source of information, which service will be cheerfully rendered upon request without cost.

Particular care should be used to see that instruments for use on the line are the same type or at least the same bell resistance and generator power. Much better results will be obtained if the instruments on any one line are of the same manufacture. The instruments in your home should be protected from the fire and shock hazard of lightning and from stray power line currents, by installing carbon protectors and fuses which are used by most commercial telephone companies.

In the interest of good service it is very necessary that farmer lines be not overloaded. Twelve stations on the line should be the maximum number allowed. If more subscribers than this are interested in the organization, arrangements should be made to construct two or more lines. There is no feature of farmer line service which is more discouraging than the attempt to secure adequate and satisfactory service on an overloaded line. It cannot be done and where the demand for service overruns the maximum number of stations given above, a separate organization should be formed or a second line be constructed by the existing organization.

Roseburg needs a public library. You can do your bit by attending the dance at the Armory, Tuesday, June 20, or buying a ticket.

Olcott's Lead Stands at 521

SALEM, June 18.—Governor Olcott's official lead over Chas. Hall for the republican nomination for governor in the recent state primary election stands at 521, the report of the canvassing board made today showing no change in the unofficial figures announced by Sam Kozer, secretary of state, last week.

The official canvas of the election returns was completed this morning and the results were immediately proclaimed by Governor Olcott.

DEVELOPMENT

DEVELOPMENT MEANS IMPROVEMENT. WE ARE IMPROVING OUR FACILITIES EVERY DAY FOR THE BETTERMENT OF SERVICE.

We cannot grow faster than the surrounding country; though we have to keep far in advance of our present needs. Thus maintaining a larger investment than ordinarily required.

WE ARE PREPARED TO SERVE YOUR EVERY NEED AT A MOMENT'S NOTICE WITH ECONOMY TO YOU.

Douglas County Light & Water Co

R. M. JENNINGS, Manager.

Love's Masquerade

A Dramatic Story of Love and Romance

By Idah McglONE Gibson

THE MEETING

"But you could never make a woman understand that, Dave, any more than she understands that a man can love truly two women at once," queried Clavering, somewhat satirically.

"It is according to what you call love," said Milton.

"I don't call it," interrupted Clavering, "I have no more of an idea of what love is than I have of what a soul is. I know it is an intangible thing. However, I do not think it is going to be intangible very long with the wonderful strides that science is making into the explanation of that peculiar agency we call electricity. I would not be surprised if our grandchildren were able to solve questions of life and death as well as love."

"Does Margaret Earle say anything more in her letter about her feelings at the moment when Harry met the American Beauty? The phenomena rather interests me."

"No," answered Doctor George Milton, "Margaret has not a particularly scientific mind and she is more concerned with her feelings than she is with the gyrations of her intellect. She continues:

"All through that night I kept waking and wondering what had happened to Harry. I had lost that feeling of oneness with him. I felt an impending tragedy. Visions of automobile accidents and sudden death came to me.

"However, as morning came and I had no letter or telegram I was sure that if anything happened to him, his secretary at least would let me know. I felt better and chided myself for my foolish fears.

"Never had a week in all my life stretched out so long, but at last I arrived in Harry's city. I went to the hotel where I always stayed and telephoned Harry immediately. I had a feeling that he would be waiting for me because he knew that this was the very day which we had planned that I should come.

"I was greatly disappointed when I heard his secretary say: 'Mr. Glendening is not in.' But he told me to say that if you called, Mrs. Earle, that he had an imperative engagement that it was impossible for him to break. He will see you at luncheon.

"Again I had that feeling of tragedy hovering near. I could not shake it off. I went upstairs to my room and looking in the mirror I found that my face had changed. I was surprised at my own countenance. It was white and worn. I had been blooming when I arrived.

"I spent the entire morning trying to make myself beautiful, for I kept telling myself that my anxiety was only foolish imagination on my part, that nothing that Harry had done in the last two weeks was any different from what he had done before.

"My efforts at beautifying were of no avail. Anxiety combatted and overturned all the foolish little makeshifts to which we women resort when we try to conceal worry, or aching hearts.

At last the telephone—"Mr. Glendening calling."

"Tell him I will be right down."

"I hastily adjusted a new and becoming hat, a hat which I had purchased as soon as I knew I was coming over here, for this occasion.'

"Good Lord, Milton, that woman is leaving nothing unsaid that will throw a light upon the nature of femininity."

"She wrote me in another letter," answered Dr. George, "that in this letter she had tried to tell me all the secrets of her soul as a kind of purge. 'Nothing will be too trivial or too humiliating for me to put down in black and white for your dear critical eyes, Doctor George, and for the masculine judgment of the two friends to whom you are reading it,' she said."

"My knees were wobbly," writes Margaret, "as I entered the elevator. I had not dared to give one last look at myself after putting on my hat.

"As I left the elevator I raised my eyes expecting to see Harry standing where I had always found him on other occasions.

"He was not there.

"I walked toward the desk. I turned and looked into his eyes.

"Was I dreaming or did they waver for one little instant as he came forward, and took my hands in his.

"Margaret, I am so glad you have come," he said.

"Are you?" I questioned tremulously.

"Of course I am. Why should you think differently?"

"You are usually here at the hotel to meet me."

"The words were not out of my mouth before I realized that I had broken our compact in which each had agreed never to ask the reason for any dereliction on the part of the other.

It came to me with great surprise that this was the first time I had really thought there was a dereliction on the part of Harry and I noticed the annoyance in his face at my complaint as I followed him to our accustomed table in a somewhat secluded corner of the dining room.

"Our order given, Harry looked up at me, but I felt that the wonderful smile was somewhat forced as he waited, as usual, for me to begin.

"What is it, Harry?" I questioned.

Tomorrow—Harry's Confession.

ADVICE TO THE LOVELORN

BY MRS. ELLSBURY

A Daily Column of Questions and Answers Conducted by a Woman Who Knows. Address your Letters to Mrs. Ellsbury Care Roseburg News-Review

Hereafter no questions will be answered in this column aside from those pertaining to advice to lovelorn. The questions concerning other subjects that are already on hand will be answered and their completion will close that part of the column.

Dear Mrs. Ellsbury: Would you help me with a problem of mine? I do not know whether it would come under the heading "Advice to Lovelorn" or not, but it is a real problem and I would like your advice on it. I have a sister-in-law that is noted for living with her relatives and I just had a letter from her saying that she was coming to make us a long visit. That means that she will live with us a year or two and pay nothing. She has enough money to keep her if she does not have to do anything but buy clothes, and she is too lazy to do to work so she just visits around. My husband does not want her any more than I do, but we don't like to offend her, and can scarcely bring ourselves to tell her not to come. Can you suggest any way to help. X. X. X.

Ans. If convenient you might take a short vacation about the time she is expected, and write her that you could not have her at the present time as it would be inconvenient as you had planned on an outing. Or you might invite someone else to see you for a few days, and write her that you already have a visitor.

Dear Mrs. Ellsbury: I have been puzzled for weeks as to what to do, and although I am probably as old if not older than you are I thought I would write and ask your opinion as they say two heads are better than one. I am a widow and make my home with my married daughter. My husband left me barely enough to buy what few clothes I need each year, and a few things like that but not enough to keep me if I lived alone. My daughter and her husband have nothing but his salary which is small and they have three little children that take everything they make.

I have had a chance to marry again, and would really like to and have a home of my own and be a little more independent. I am not really old yet, and I would be much happier. My daughter is violently opposed to my marrying again, and even said that if I did she would never have anything more to do with me. Would you go ahead and be married anyway?

WIDOW.

Ans. It seems very foolish of your daughter to act that way, and I think that she would get over it if you really did get married. If you would be happier in a home of your own, and you are a burden on your daughter, I think it would be wise if you really wanted to, to marry again. Children many times act that way about parents remarrying.

Help put a public library in Roseburg by attending the library dance at the Armory, Tuesday, June 20.

ALL STATES APPROVE NEW FORD LENS

Passes All Road Illumination and Anti-Glare Laws.

A new headlight lens recently perfected by the Ford Motor company, Detroit, for use on its cars and trucks has received formal official approval in east of the forty-eight states now having specific regulations and provisions for tests.

Ford engineers state that the two requirements of any headlight are sufficient road illumination and lack of glare. To achieve this result, it is necessary to develop a lens which throws a strong light over the road, but which so weakens the rays on a level with the eyes of an approaching motorist, that there is an absence of glare.

When testing the new Ford lens, even in those states whose headlight laws are the most exacting, it was found that it produced three times the required illumination of the road, and that the glare was reduced to one-half of that allowed.

State officials were impressed with the Ford lens, many stating that it would set a new and higher standard for automobile headlights, and commending the Ford company for the progress that had been made. Although they are now included as standard equipment on all Ford cars, the new Ford "H" lenses were so designed that they would be adaptable to all head-lamps now in use on Ford cars.

DAILY WEATHER REPORT

U. S. Weather Bureau, local office, Roseburg, Oregon, 24 hours ending 5 a. m.

Precipitation in inches and Hundredths
Highest temperature yesterday 82
Lowest temperature last night 52
Precipitation, last 24 hours 8
Total precip. since first of month 1.61
Normal precip. for this month ... 1.67
Total precip. from Sept. 1, 1921 to date 37.45
Normal precip. from Sept. 1, 1921 32.32
Total deficiency from Sept. 1, 1921 6.87
Average precipitation for 44 wet seasons (Sept. to May, inc.) ... 31.29
Forecast by U. S. for Southwestern Oregon:
Tonight and Tuesday fair.

WILLIAM BELL, Observer.

GAINS 33 LBS. AND YEARS OF SUFFERING ENDS

MRS. C. B. ROWLAND SAYS TANLAC IS JUST GRAND—DISTRESSING CASE OF STOMACH TROUBLE ENTIRELY OVERCOME.

"Tanlac actually increased my weight thirty-three pounds and gave me relief from trouble that made me miserable for years," said Mrs. C. B. Rowland, 344 Eugene St., Portland, Ore.

"About fourteen years ago I began to have trouble with my stomach. Then about eighteen months ago I had the 'flu' which left me as weak as I could be. I couldn't eat anything scarcely and the little I did manage to force down formed gas which bloated me up terribly and made my heart palpitate until I nearly smothered. My nerves were so wretched than any noise like the children playing around the house nearly drove me distracted.

"But I had hardly started on Tanlac before I was feeling better and now it has brought me out until I haven't a trace of my old troubles left. My husband has also taken Tanlac for his stomach trouble and it has helped him wonderfully. Tanlac is truly the grandest medicine I have ever found."

Tanlac is sold by all good druggists.

Business Houses to Change Locations

A shifting of business locations will take place about the first of the month, arrangements having been completed today. The Marksbury store, formerly the Square store, will move to the building now occupied by J. V. Casey's real estate office, while Aaron Salzman, the jeweler, who is the owner of the building in which the Marksbury store is located, will move into the place which that store will vacate. J. V. Casey is endeavoring to obtain the store room formerly occupied by Mr. Salzman in the Hamilton building, but is not yet able to announce definitely where he will be located. The Hamilton building is now being improved, and will not be leased until it is completed.

The new changes will carry into effect several important improvements. The Marksbury store will have much more room than at present, and the new quarters will be redecorated and improved before they move into them.

Mr. Salzman intends to make a substantial improvement in his building. He is already contracting for this work and will have one of the best-looking business places in the city. He is greatly increasing his stock and has placed a large order for jewelry and other articles carried by him, so that he will have one of the most complete stocks of goods of this kind in the city.

ENTERTAIN FRIENDS FRIDAY.

Mr. and Mrs. J. H. Short entertained a few of their friends Friday evening at their home on Oak Creek. The evening was spent with games and music, and home made ice cream and cake were served. Those present were Mr. and Mrs. J. V. Short and son and Mr. and Mrs. A. T. Lawrence and two children from Roseburg, Mr. and Mrs. T. O. Dixon and daughter, Mr. and Mrs. F. R. Richter and child, and Mr. and Mrs. W. H. Boak.

Don't forget the library dance at the Armory, Tuesday, June 20. Good music and a good time for everybody.

Coal and Manchu's Ghost.

The Fushun coal mine of China is one of the largest open-cut mines in the world. The Tartars are known to have worked the mine in the Twelfth century.

For years the Chinese have been urged to work the mine, but Chinese officialdom has always pointed to the fact that the spirit of Tai-Tsu-Kao, a Manchu emperor, who was buried 10 miles away in the Seventeenth century must not be disturbed. Thus for centuries superstition kept over 1,000,000,000 tons of coal untouched. In their efforts to open the mines, the Japanese not only found great official hostility to their scheme on the part of the Chinese officials, but even the native coolies were reluctant at first to work, through their fear of the sleeping Tai-Tsu-Kao, 10 miles distant.

Rainbows Shaken.

It is usually supposed that the downpour of rain that sometimes follows a flash of lightning is due to the coalescence of fine drops on losing their electrical charge, but a Finnish observer concludes that the thunder jars the drops together. Near Vasa a heavy thunderstorm came up from the east late one afternoon, and, as the sun was unclouded, a brilliant double rainbow appeared in the east for half an hour, arching from horizon to horizon. At each roll of thunder the rainbows seemed to be much shaken, the wedge being displaced and the colors blurred. This could not be due to the lightning, and it seemed that the same cause might enlarge the raindrops and disturb the rainbow.

The Flapper.

"Mother, you ought not to let daughter dress the way she does."

"How foolish you are, John! I depend on her to keep me posted on styles."—Louisville Courier-Journal.

Don't be Fooled.

There has been a lot of bunk spread about the Moline Plow Co. being busted and selling out to close up shop. Don't believe a word of it. That kind of talk is the last resort of a lot of old line dealers and salesmen who are not yet willing to admit the war is over. They cannot knock the quality of Moline goods and get away with it; there are too many men who have used them and know better. Price is the last thing they want to mention, and there is nothing left but repair service for them to hang a selling talk on. The Moline Plow Co. maintains as complete a stock of repairs on the Pacific coast as any implement company in the field, and as for going out of business, is it reasonable to think that a company whose sales and profits have been greater this season than ever before is going to quit? Rats? Those fellows are picking at the quilts right now because they see their fat profits disappearing and can't think of anything else to say. Ask any Moline user if our repair parts service has not been as good as any one could expect.

The truth is that the Moline Co. is the only company that had vision and courage enough to face facts, take their losses the same as the farmer had to do, and strike out on a direct to user selling campaign.

The results speak for themselves. They are selling more goods than ever before and building up a good will among farmers that is worth millions of dollars.

If you need any kind of farm machine buy a Moline and be assured you will be able to get all the repairs you will ever need.

"See us first—we can save you money."

Farm Bureau Cooperative Exchange

Roseburg and Oakland

BRITISH AIRPLANES TO CARRY PARACHUTES FOR ALL TRAVELERS OF AIR

(International News Service).

LONDON, June 19.—Compulsory use of parachutes on all passenger-carrying aircraft is a decision of the Air Ministry which will shortly be made public.

At present the "airway companies" carry lifebelts for their passengers when crossing the seas, but none has yet thought fit to equip its air "liners" with aerial life buoys.

Their argument against the practice is that such a step would militate against the use of aeroplanes for transport, since travelers would not care even to contemplate coming to earth in so thrilling a way.

Ignoring this, the Air Ministry is taking the line that "safety first" must be the rule of the air. It is pointed out that at least 2,000 lives were saved during the war by means of parachutes used with kite balloons and ,although no form of transport can even be free from accident and constant risk of accident, the peculiar nature of air travel makes it incumbent that no possible means of safety should be ignored.

Pure Milk this Summer

This is the season of the year when mothers take more than ordinary precautions in protecting their youngsters from impure milk.

OUR MILK IS PASTEURIZED—IT'S PURE.

Roseburg Dairy and Soda Works

Telephone 186

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SHEET METAL WORKS
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PURE MILK

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PHONE 324.

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ODD LOTS BONDS. FOR QUICK SALE.

$100 CITY OF BELLINGHAM (WASH.) TO YIELD 6% INTEREST.

$400, CITY OF SEATTLE (WASH.) TO YIELD 6% INTEREST.

$627, OLYMPIA (WASH.) BONDS, TO YIELD 6½% INTEREST.

$7,000, CITY OF PROSSER (WASH.) TO YIELD 6% 7% INTEREST.

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