

TO FINANCE, BUILD AND MAIN- TAIN PHONE LINES

Victor A. Farnell, St. Helens
manager of the Pacific Telephone
Telegraph Company.

is the second of a series of
articles by Mr. Farnell telling
of the organization, finance, build and
main of rural telephone lines so
that a maximum of service will be
made to the stockholders. The
article will appear at a later
date.

Building of a telephone lead is
an important construction project
and should be carefully planned,
the construction program out-
lined and carried forward to
completion.

Substantial poles should be
used. It is economical to use ced-
ar poles as the life of a cedar pole
in ordinary soil is from 15 to 22
years. Fir or pine poles unless dry
and treated with creosote should
not be used as they will rot in from
five to ten years. Poles should be
set in the ground as follows:

4-foot poles, 4 feet deep.
6-foot poles, 4 1/2 feet deep.
8-foot poles, 5 feet deep.

It is advisable to set poles six in-
ches deeper at corners or on curves.
Every year may be added to the
life of a pole by banking the earth 6
inches around the butt of the pole.

It is of the utmost importance
that a pole be economically main-
tained and that it be properly guyed
to stand the strain upon it. Metal
guy wires with rods or cedar logs may
be used for this purpose. When a
log is used the best practice
followed is to use an anchor or rod
around the log, as often the wire is
slipped around a log, especially when
the guy wire will then rust
at the ground.

How to Attach Wires.

When wires are attached to poles
the first pair should be
attached to the sides and at least 18 in-
ches apart vertically and the second
pair should have the same spacing.
It is not good practice to lace more
than four wires to a pole. Cross-arms
made of various lengths accord-
ing to the number of wires they ac-
commodate may be purchased or
made locally. Local electrical supply houses
frequently local mills can man-
ufacture them more cheaply. Space
between cross-arms should be not
less than 18 and preferably 12 in-
ches apart. Cross-arm pins are made
in 1/2 inch and 1 1/4 inches. The 1 1/4
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 1/2
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
bolted to the pole by two 30-inch
braces, made fast to the cross-
arm with 1/2 x 1/4 inch carriage bolts
and to the pole by a 4-inch fender
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 develop-
ment of the telephone on farms when
it seemed desirable to use single
poles for lines. This was during a
period when the telephone was not
generally in use on the farm as it
is at the present time. It is not un-
common at the present time to no-
tice as many as four or five paral-
lel pole leads including power
transmission line on the same high-
way, and if this is not a fact at the
time your project is under way it is
judgment to make provision for
an eventual.

Two Wire Lines Better.

We believe that under no circum-
stances can the construction of a
single wire telephone line be justified
except in a heavily timbered and
wildly settled country or semi-arid
portion of the state where there are
no settlers and no paralleling lines
and the little prospect of immediate
growth in population. We therefore
strongly recommend that only metal-
lic circuits (two wire lines) be con-
sidered. While it will cost a little
more than a single or grounded line,
the two-wire line will prove much
more satisfactory in every way. It
offers much better transmission,
practically eliminates possibility of
crosstalk and is much more free
from inductive disturbance from the
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
it may be constructed, a two-wire
lead may be placed on the new lead
and 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 construction.

Is carrying out a policy of doing
up new or reconstructed telephone
work in accordance with the best
practices, it follows that rural tele-
phone service will gradually improve
and the value of ownership of shares
in the rural telephone company
adopting such a policy will be cor-
respondingly 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 it is proposed to
construct will be in the future the
only rural telephone lead on that
highway carrying telephone wires. It
follows that as the paralleling leads
of 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 imme-
diate outlay of funds to each company
less burden than if the project
were financed by one company.

List of Tools Needed.

Following is a list of tools and sup-
plies that should be a part of the

outfit of every farmer line company
for the use of the line man on con-
struction and repair work.

1 Western Electric 17 A test set,
2 set 3-inch steel blocks, 2 No. 1
Buffalo grips, 1 pair connectors 3-
inch, 1 canvas line man's tool bag,
1 pair 8-inch line man's pliers, 3 pike
poles 12 foot length, 1 8-foot spoon
shovel, 1 8-foot straight shovel, 1
6-foot shovel, 1 8-foot steel bar, 1
blow torch Clayton Lambert, 1 nor-
dering 2 lbs., 1 dead man brace for
poles, 1 W. E. No. 35 battery gauge.

Material.

5 lbs. Western Electrical flux solder,
6 feet 3-8 inch Flexduct, 20 feet
No. 18 B. & S. paired inside wire,
1 package 3-4 inch Blake staples, 1
package 1/2 Millionite nails, 1 pack-
age 1/2 inch friction tape, 2 2 1/2 ft.
No. 22 cords, 2 No. 200 mouthpieces,
25 lbs. No. 12 B. H. galvanized iron
wire, 25 lbs. No. 14 B. H. galva-
nized iron wire, 1000 feet of No. 14
duplex (for restoring service when
several poles are down pending per-
manent repairs), 1 dozen No. 4 por-
celain knobs, 1 dozen galvanized 3-
16 screws, 1 dozen money glass in-
sulators, 1 dozen No. 12 oak brackets,
1 dozen 1 1/2 inch x 8-inch locust pins
(measure pins in use 1 1/4 inch by 8
inches may be in use).

There is on file in all exchanges
where a wire chief is located, stan-
dard specifications for the construc-
tion of pole leads and pole lines and
before undertaking an extensive pro-
gram 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
lines are the same type or at least
the same bell resistance and genera-
tor power. Much better results will
be obtained if the instruments on
any one line are of the same manu-
facture. The instruments in your
home should be protected from the
fire and shock hazard or lightning
and from stray power line currents,
by installing carbon protectors and
fuses which are used by most com-
mercial telephone companies.

In the interest of good service it
is very necessary that the 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 ser-
vice on an overloaded line. It cannot
be done and where the demand
for service overruns the maximum
number of stations given above a sepa-
rate organization should be formed
or a second line be constructed by
the existing organization.

NOTICE OF SHERIFF'S SALE.

In the Circuit Court of the State of
Oregon for County of Columbia.

Joseph D. Sternberg and John H.
Montgomery, Plaintiffs,

vs.
Minnie M. Lee and M. E. Lee, her
husband, Defendants.

By virtue of an Execution, Judge-
ment, Decree and Order of Sale is-
sued out of the above entitled Court
in the above entitled cause to me
directed, the 16th day of May, 1922,
upon a judgment rendered in said
Court on the 10th day of May, 1922,
in favor of Joseph D. Sternberg and
John H. Montgomery, Plaintiffs, and
against Minnie M. Lee and M. E. Lee,
her husband, defendants in said suit,
for the sum of \$4500.00, with inter-
est thereon from the 1st day of
July, 1921, at the rate of six per cent
per annum until paid, and the fur-
ther sum of \$300.00, attorneys' fees,
and for their costs and disbursements
of and upon this writ amounting to
\$46.45 commanding me to make sale
of the following described real prop-
erty situated in the County of Col-
umbia, State of Oregon, to-wit:

Beginning at the northwest cor-
ner of the northeast quarter of the
northeast quarter of Section 22, in
Township 4 North of Range 1 West
of Willamette Meridian, and running
thence south along the west bound-
ary line of the east half of the north-
east quarter of said Section, 49
chains more or less to the intersec-
tion of said line, or a continuation
thereof, with what is known as Evans
Slough; thence in a general northerly
direction following the meander-
ings of said Evans Slough to its
intersection with the section line be-
tween sections 28 and 33 in said
township and range, at or near the
common corner of Sections 28, 29,
32, and 33, in said Township and
Range, and thence west along said
section line, and its continuation be-
tween said Sections 29 and 32, 29
chains and 50 links, more or less, to
a point of beginning.

Also all of lots 2 and 3 of Section
22 in Township 4 North of Range 1
West of the Willamette Meridian.

Also all that part of the southeast
quarter of Section 29, in Township
4 North of Range 1 West of the Wil-
lamette Meridian, lying south and
east of Santosh Creek in said quar-
ter section, described as follows, to-
wit: Commencing at the southeast
corner of said southeast quarter of
Section 29 and running thence west
along the south boundary line of said
Section 29, 1342 feet to the channel
of Santosh Creek; thence northerly
and easterly down said Santosh
Creek and following the meanders
thereof, to its intersection with the
east line of said Section 29; thence
south along the east line of said Sec-
tion 29, 1390 feet to the place of be-
ginning.

NOW THEREFORE, By virtue of
Execution, Judgment, Decree and Or-
der of Sale and in compliance with
the commands of said writ, I will on
Monday, the 12th day of June, 1922,
at eleven o'clock in the forenoon
thereof, at the front door of the
County Court House in St. Helens,
Columbia County, Oregon, sell at
public auction subject to the redemp-
tion to the highest bid for cash in
hand all the right, title and interest
which the within and above-named
defendants and each and all of them
had on the 9th day of September,
1919, in the date of the mortgage here-
in foreclosed, or since that defend-
ants have acquired in and to the
above described real property or any
part thereof, and to satisfy said Ex-
ecution, Judgment, Decree and Or-
der of Sale, interests, costs and ac-
cruing costs.

Dated this 11th day of May, 1922.

J. H. WELLINGTON,
Sheriff of Columbia County, Ore-
gon.

First issue May 12, 1922.
Last issue June 9, 1922.

Chamberlain's Colic and Diarrhoea
Remedy.

Every family should keep this
preparation at hand during the hot
of the summer months. It is almost
sure to be needed, and when that
time comes, is worth many times its
cost. Buy it now.

STAGE LINE FOR VERNONIA-ST. HELENS

C. A. Mills, of Vernonia, who op-
erates the Vernonia-Timber-Forest
Grove stage line, informed The Mist
that as soon as the St. Helens-Pitts-
burg road is passable he intends to
start a stage line between Vernonia
and this city. He would leave Ver-
nonia about 9 o'clock arriving at St.
Helens before 11 o'clock and make
connections with the 11:12 train for
Portland. Returning the stage would
leave St. Helens about 3 to 3:30
o'clock arriving in Vernonia before
6 o'clock. Such a schedule would
allow Nehalem people who wish to
transact business in St. Helens ample
time to do so.

Vernonia parties who wish to go
to Portland now have to leave the
Nehalem metropolis at 10 o'clock and
catch the Tillamook-Portland train
which arrives at Timber about 1:30
o'clock and arrives in Portland at 5
o'clock. The fare from Vernonia to
Portland about \$2. The proposed
stage line via St. Helens-Pittsburg
road as the time to Portland would
be about 3 1/2 hours as compared
with seven hours via Timber and the
fare would be about \$1.50 to \$1.75
stage and 85 cents railroad fare, a
saving of 50c to 75c over the other
route.

Find Mouse in Fish.

A mouse-eating fish is said to have
been caught in the Wynoochee river
recently by Dr. L. A. McCracken of
Montesano, Wash. The fish was a
cut-throat trout measuring 13 1/2
inches. When opened for cleaning
two full grown field mice were found
in the intestine. The doctor is
wondering when the cut-throat trout
started chasing ground around field
mice.

It would help, too, if the agitators
would give us a rest from all this
talk about unrest.

OUR COMPLETE STOCK OF THE
LATEST IN

Jewelry

WILL PLEASE YOU

All American Watches—Hamilton,
Elgin, Waltham, South Bend and
Hampden.

Solid gold and gold filled Dickens
& Waldemar watch chains.

1847 Rogers silverware—fifty
year guarantee.

Pearls, rings, emblem pins—ev-
erything in jewelry from things for
the babies to the grandparents.

Watch repairing, engraving and
jewelry repairing. Have that old
mantel clock repaired. All work ab-
solutely guaranteed.

Von A. Gray

Reliable Jeweler
St. Helens, Oregon

SUMMONS.

In the Circuit Court of the State of
Oregon, for Columbia County.

Jesse R. Sharp, Plaintiff,

vs.
Victor Bisch and Jane Doe Bisch,
his wife whose real and true name
is unknown; Blanch Bisch Gilbert
and D. M. Gilbert, her husband; Oc-
tavia 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; Vic-
tor Lawton, her husband whose real
and true name is unknown; Emma
Luck and John Doe Luck, her hus-
band 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 defend-
ants; also all other persons or par-
ties unknown claiming any right,
title, estate, lien or interest in and
to the real estate described in the
complaint herein, Defendants.

To Victor Bisch and Jane Doe Bisch,
his wife whose real and true name
is unknown; Blanch Bisch Gil-
bert 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, and T. A. Mar-
quam 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;

IN THE NAME OF THE STATE
OF OREGON, You and each of you
are hereby required to appear and
answer the complaint filed against

you and each of you in the above en-
titled 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 sum-
mons, and, if you fail so to appear
and answer, for want thereof, the
plaintiff will apply to the above en-
titled Court for a decree that plain-
tiff be adjudged the absolute owner
in fee simple of the real estate de-
scribed in the complaint herein and
more particularly described as fol-
lows, to-wit:

All of the Northwest quarter
(NW 1/4) of Section 32 in Township
5 North of Range 2 West of the Wil-
lamette Meridian in Oregon, save and
except an undivided one-eighth in-
terest therein owned by Maria De-
Lashmott, and

All of the Southeast quarter
(SE 1/4) of Section 23 in Township
4 North of Range 2 West of the Wil-
lamette Meridian in Oregon, and
all in Columbia County, State of Ore-
gon; that the title to said premises
be adjudged 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 there-
of, 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 re-
lief 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 under-
signed attorneys for plaintiff resid-
ing within the State of Oregon at the
address hereinafter first stated.

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

Address:
505 Selling Building, Portland,
Oregon.

That primrose path never leads to
easy street.

Comfortable Collars

New collars are comfort-
able, and when they are
properly laundered they re-
tain their smooth, comfort-
able edges for a long time.

If you have ever been an-
noyed by saw-edged collars,
perhaps you had better
change your laundry.

The customers of this
modern laundry know that
they invariably receive the
kind of service which sat-
isfies. Because our cleansing
methods are scientific and
modern in every respect, we
are able to offer you a ser-
vice which cannot be ex-
celled anywhere.

We are careful—we know
our business. We can
please you. Just phone and
the driver will call for your
bundle.

St. HELENS STEAM
LAUNDRY

Chamberlain's Colic and Diarrhoea
Remedy.

Every family should keep this
preparation at hand during the hot
of the summer months. It is almost
sure to be needed, and when that
time comes, is worth many times its
cost. Buy it now.

DON'T BLAME THE BREED
CORRECT THE FEED

You can't cheat biddy with inferior feed. She must
have egg-making mash before you get eggs. Kerr's
Egg Producer is a uniform, balanced, dependable egg
making feed, 21 per cent egg protein.

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.

Strawberry Crates

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.

Building Material

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 85
Building Supplies: Feed Hay and Grain

you and each of you in the above en-
titled 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 sum-
mons, and, if you fail so to appear
and answer, for want thereof, the
plaintiff will apply to the above en-
titled Court for a decree that plain-
tiff be adjudged the absolute owner
in fee simple of the real estate de-
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more particularly described as fol-
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(NW 1/4) of Section 32 in Township
5 North of Range 2 West of the Wil-
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except an undivided one-eighth in-
terest therein owned by Maria De-
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all in Columbia County, State of Ore-
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be adjudged in the plaintiff; that you
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THEODORE OPSUND,
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M. A. ZOLLINGER,
Attorneys for Plaintiff.

Address:
505 Selling Building, Portland,
Oregon.

That primrose path never leads to
easy street.

The Energy Food is Meat

When you work hard your appetite craves tender
brown roast meat or a thick juicy steak. Here is
where you get the best of meats at lowest prices.
Our stock of groceries, fruits and fresh vegetables is
complete. Give us a portion of your patronage. We
will save you money on your purchases.

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 fisher-
man's outfit.

Deming's Drug Store

Muckle Building

LOOK!

Radio Sets and Supplies

Chevrolets All Makes. Let us
demonstrate. New cars \$225.00
down, balance easy terms.

Some bargains in Used Cars

Tires Batteries Accessories

COPELAND AUTO CO.

ST. HELENS, OREGON

"Everywhere You Look You See a Chevrolet"

Every family should keep this
preparation at hand during the hot
of the summer months. It is almost
sure to be needed, and when that
time comes, is worth many times its
cost. Buy it now.

Chamberlain's Colic and Diarrhoea
Remedy.

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