

16 MILES OF LEADEN ROPE

Telephone Cable Connects Sapulpa With Tulsa.

120 TALK CAPACITY

Number of Individual Wires Had Become so Congested as to Make Clotheslines.

A long distance cable, one of the newest varieties in the telephone development and one of the first cables of its kind ever put into use west of Washington, D. C., was today placed in service by the Southwestern Bell Telephone Company between Tulsa and Sapulpa. This cable is 16 miles long, contains 15,000,000 feet of wire and has approximately 120 talk capacity. It will provide single long distance facilities between Tulsa and Sapulpa for eight years and incidentally relieve a badly congested condition that has existed for the past three years.

The re-assembly growth of the state of Oklahoma which has been reflected in the increased volume of telephone traffic necessitated the introduction of this cable according to the engineers of the telephone company. And while the cable will immediately relieve the congestion between Tulsa and Sapulpa, it will also benefit the state as a whole by facilitating the handling of business in and out of Tulsa.

There are many interesting features connected with this piece of telephone construction which is physical proof of the conquest of science over one of the most baffling problems that confronted the telephone engineers. In the first place this cable simplified the maintenance of talk-trunks inasmuch as it concentrates all the wires in one lead sheath. A cable is merely a great number of wires, insulated by fine paper and incased in a lead sheath. It replaces the single open wire which is so much more vulnerable in storms, but the cable requires highly skilled and technical attention.

The Tulsa-Sapulpa cable actually contains only 140 small wires, two of which are necessary to make a circuit over which conversation can be held. This cable provides therefore, 80 pairs of physical circuits, but these are arranged in what is known as quads and designed so that a phantom or third circuit can be imposed on each two physical circuits. In other words science has decreed that three conversations can be simultaneously held over two elements. That, therefore, results in actually providing through this cable 120 telephone circuits, or talk trunks, over which long distance communications may be held.

This cable will take the place of more than 70 open wires between Tulsa and Sapulpa. In some places seven crossarms will be removed from the poles and with them the wires they hold. In place of all these wires will be one large "lead rope" containing a greatly increased number of telephone circuits.

"When we put that wonderful cable into service today," said Manager Bell of the Southwestern company, "we tingled with real delight. The completion of the job represents a real conquest because we met many heartaches in trying to rush it. When the demand for service in-

creased to the point where we were confronted with the problem of either rebuilding the tower nine miles long or adding an additional pole line, our engineers went into the subject and carefully worked out the plan of adopting this new lead cable as the real answer.

"We ordered the cable in December, 1919, and it was promised for delivery in March, 1920, but delays in manufacturing due to the scarcity of raw materials, particularly high grade paper required for insulation, forced us to wait until June 31 of this year before delivery began. The cable was shipped from

Chicago with the associated material and required nine freight cars for its transportation.

"We actually turned the job of packing the cable over to Foreman Hall in July, with a gang of skilled men to do what we think is a world's record in stringing, splicing this 16-mile lead rope. Incidentally this job cost us more than \$35,000, whereas the same job in 1914 would have easily been done for \$50,000. But for the telephone men and women in Tulsa and Sapulpa the completion of this job means a great deal. It will stabilize the toll plant and reduce the losses and service interruptions resulting from storm damage to open wires. It will provide additional facilities and give better service to the telephone users. We're pretty proud of our men, for the record they have, research and engineering department."

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Today—OPENING BILL—Today

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James B. Warner, the two-gun man, tricks a treacherous outlaw band and with a single shot from one of his famous guns ends a reign of terror. A whirlwind western. Also, Helen Gibson, entitled:



"WIRES DOWN"

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The funniest characters ever created. Side-splitting, animated cartoons

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NO CHANGE IN PRICES

TULSA joins in the third annual drive for better motion pictures

A Drive for Better Motion Pictures
SEPTEMBER 1920
THIRD ANNUAL Paramount WEEK
See this poster in theatre's lobby
Look for this banner across the front of theatre

WE prophesied that 1920 would be the greatest year in the history of the screen.
It was—and is!
Never before were there such pictures as: Cecil B. DeMille's "Male and Female" and "Why Change Your Wife?"; George Loane Tucker's "The Miracle Man"; John Barrymore in "Dr. Jekyll and Mr. Hyde"; George Frimour's "On With the Dance"; "Dance of Women," directed by George Melford; William D. Taylor's "Huckleberry Finn"; and William S. Hart in "Band".
All these are Paramount Pictures, and there were 100 more just as good.

Paramount has 104 even finer pictures in store for you in the new season that opens on September 3th. The theatres that will show these new Paramount Pictures in the twelve months to come are inviting you to join in the celebration.
Paramount Week is the time when there is proof-plenty that there is an abundance of good pictures. It marks the opening of the fall season—the refreshing indication that the hot weather is over and the best show-time of all the year is here again.
All the best theatres are showing Paramount Pictures this week. Celebrate by going!

THIRD ANNUAL
Paramount
WEEK
SEPTEMBER 1920
Look for this poster in theatre's lobby

COME IN—IT'S Paramount WEEK

Everybody's going!

At all these theatres, all this week—Paramount Pictures will be shown

MAJESTIC ORPHEUM RIALTO

"The Prince Chap"
A Paramount Super Special with Thomas Meighan
Liberty, Sand Springs, Okla.
Royal, Nowata

Sun., Mon., Tues. and Wed.
"Guilty of Love"
with DOROTHY DALTON
Thurs., Friday, Saturday
"WHITE CIRCLE"
Orpheum, Haskell, Okla.
Glory B. Miami, Okla.

Sun., Mon., Tues. and Wed.
CHAS. RAY
—IN—
"Homer Comes Home"
Thurs., Friday, Saturday
"The World and His Wife"
Lyric, Vinita, Okla.
Odeon, Bartlesville

6 CTS VAUDEVILLE 6 CTS Extra ROYAL Extra DIRECTION TUCKER BROTHERS

—PROGRAM—
Harvey W. Ferguson Presents

FRANCES FERGUSON

"The Act Beautiful"

Featuring "THE FOUNTAIN OF YOUTH" with Six Beautiful Girls. Singing, Posing, Instrumental Music. Special Electric and Water Effects.

McConnell & Lockhart
"Just a Little Different"

Ott and Bryan
"Knoby Knees" Comedy and Musical

Raye Lawrence
"Songs Deluxe"

Benton Bros.
An Evening at Home

THREE EDDY SISTERS
A Study in Daintiness, Singing and Dancing

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DOUGLAS FAIRBANKS in "THE HABIT OF HAPPINESS"
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