

View of Radio Masts and Antenna at KZY

KZY—A Record Installation

By Ellery W. Stone

PROMPTLY at midnight, on the morning of Christmas Day, the Atlantic-Pacific Radio Supplies Company formally placed in commission its new high power radio-telephone broadcasting station at Rockridge, Oakland, Calif. This station is located at the residence of Mr. Henry M. Shaw—the president of the Atlantic-Pacific Radio Supplies Company, the Moorehead Laboratories, Inc., and the Shaw Insulator Company, of Newark, N. J.—where it is planned to make extensive experiments in the broadcasting of music. Mr. Shaw's residence and the location of the radio equipment therein are excellently adapted for this purpose, the radio room opening onto a large music room on the lower floor which will permit the holding of vocal and instrumental concert numbers.

While the radio world heard this new station come into commission exactly as Christmas Day dawned, it was not aware of the strenuous efforts which were required to put this station into commission at that time, and it is believed that our readers will find this short account of the building of KZY of interest.

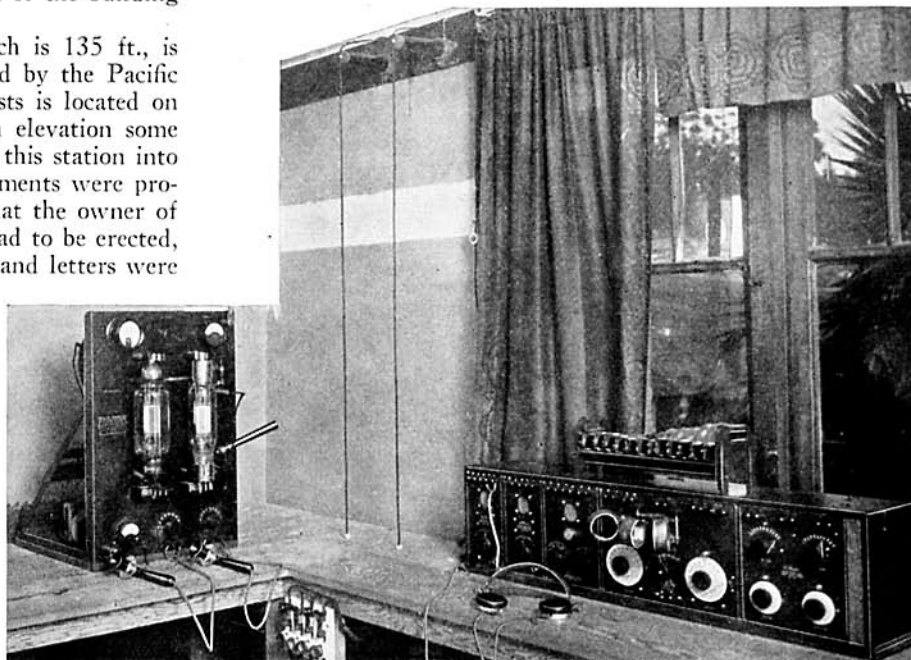
The antenna, the active length of which is 135 ft., is suspended between two 75 ft. masts, erected by the Pacific Gas & Electric Company. One of the masts is located on Mr. Shaw's property and the other on an elevation some distance away. It had been planned to put this station into commission on Christmas Day, and arrangements were progressing satisfactorily when it was found that the owner of the property on which the "far end" mast had to be erected, was residing at Santa Barbara. Telegrams and letters were sent him, but as he was on a vacation trip, it was found impossible to reach him.

Accordingly, Mr. Fred Anderson was sent to Santa Barbara on the evening of December 16th to endeavor to locate the owner of the property. Upon his arrival at Santa Barbara, Mr. Anderson discovered that he was in Los Angeles, and motored to Los Angeles, arriving there late that evening. The owner of the property signed an agreement giving permission to use the property for the antenna. Mr. Anderson was able to return on the train from Los Angeles that evening, arriving in Oakland on the 18th. On Monday, the 18th construction work was started on the

antenna by the Pacific Gas & Electric Company, thru the co-operation of Mr. Lee Newbert, division manager, and Mr. Worthington, construction engineer. The weather during the week preceding Christmas was very stormy and considerable difficulty was encountered in erecting the masts and laying the counterpoise ground.

While the antenna was being constructed, work had been started on the interior installation of the radio equipment.

The equipment consists of DeForest apparatus throughout, the transmitting equipment being the standard DeForest ½ kw. set and the receiving equipment comprising the latest DeForest multiwave tuner, detector and two stage amplifier. Interpanel receiving equipment. In conjunction with this receiver are employed the Magnavox loud speaker together with two-step power amplifier. The transmitting tubes are DeForest ½ kw. Oscillions, and the receiving tubes, including those employed in the Magnavox power amplifier, are the standard A-P detector and amplifier tubes.



Interior View of Radio Station at KZY, Showing DeForest ½ kw. Transmitter, and DeForest Interpanel Receiver.

Part of this equipment was formerly used at the California Theatre radio station in San Francisco, 6XC. The old station was installed in April, 1920, by Lee Deforest, Inc., and was later taken over by the Atlantic-Pacific Radio Supplies Co., when the latter company assumed western representation of DeForest Radio Tel. & Tel. Company. The California Theatre set had the distinction of being the pioneer station in the world for the sole purpose of concert broadcasting, having transmitted some 1500 concerts by radio before its removal to its more efficient location at Rockridge.

For the transmission of music, special phonographic arrangements are being made, employing devices hitherto not used for radio work. In addition to the phonograph, equipment similar to that formerly used at the California Theatre has been installed for the transmission of chamber, vocal and instrumental music. As noted above, this equipment has been installed in the music room adjoining the radio room and wires are led from this apparatus into the radio station.

Despite the short time available for the erection of this station, the first tests were held on the afternoon of December 23rd, just four days after construction had been started. Preliminary tests were kept up until the official opening of the station on Christmas morning, on which occasion Christmas carols were sent over the air by a trio, consisting of the Misses Aida, Vivian, and Barbara Baxter, daughters of Mr. A. A. Baxter, one of the directors of the Atlantic-Pacific Radio Supplies Company. This trio was accompanied by Miss Helen Culver, well known in San Francisco musical circles. Following the rendition of "Silent Night" and other Christmas carols, Mrs. W. A. Divoll, soloist at St. Peter's Episcopal Church of Rockridge, sang "O, Little Town of Bethlehem" and additional Christmas songs. The concert was closed with a formal announcement of the opening of the station and the extending of the Season's Greetings by the Atlantic-Pacific Radio Supplies Company to its radio audience.

Experiments were carried on during the week, and on the holidays of January 1st and 2nd special news reports and concerts were sent out. In the first few days of its operation, reports were received by letter and telephone, from at least two hundred radio enthusiasts who had heard these concerts.

The number of responses by telephone was so great that the telephone lines were soon congested in handling this traffic. In fact, some of the radio enthusiasts reported that they had

been kept waiting over an hour to voice their appreciation of the opening of the new station. One man in the outlying districts had tried to reach KZY by telephone for over four hours and finally resorted to the ingenious expedient of getting his Chief of Police to demand of the telephone supervisor a clear line ahead of all other calls. Needless to say, he succeeded, but the radio operator at KZY, who must have had a guilty conscience, hasn't recovered yet from the shock of the telephone operator telling him that she had a rush call from the Chief of Police for him. As the result of the tremendous demands on the telephone facilities previously installed, the Pacific Tel. & Tel. Co. rushed in another trunk line so that KZY may now be reached by calling Piedmont 8778 or Piedmont 7768-W.

At the time of writing this article, the station has only been in operation a little over a week, and reports have already come in showing reception over a distance up to 1400 miles, the *U. S. S. Vigilant* having reported, by radio, receiving the concert while off Baja California, Mexico. Reports have been received from all points in California and in Oregon, and it is expected, when sufficient time will have elapsed, to receive reports that even greater distances were covered.

Special arrangements have been made with the San Francisco *Call* and the Oakland *Post-Enquirer*, affiliated publications, to render an up-to-the-minute news service to KZY in order to carry out its news schedules.

KZY will operate on the following schedules, comprising part of the joint schedule drawn up by the Pacific Radio Trade Ass'n, and approved by Major J. F. Dillon, U. S. Radio Inspector of the Sixth Radio District.

Every afternoon except Sunday, 3:30 to 4:30 p.m.—Concert.
Every night except Sunday, 7 to 7:10 p.m.—News Service,
Sports and Foreign.
Sunday, 3 to 4 p.m.—Concert.
Wednesday, 2:30 to 8:15 p.m.—Concert.
Saturday, 8:15 to 9 p.m.—Concert.

The construction of KZY at the Rockridge home of Mr. Shaw was performed by the following engineers, under the supervision of Lieut. Ellery W. Stone, general manager of the Atlantic-Pacific Radio Supplies Company: Fred Anderson, exterior construction; B. F. McNamee and Edward M. Sargent, design and interior construction; Earl Bowen, J. W. A. Legge-Willis, S. A. Sollie, and Wm. Morelli, interior installation.



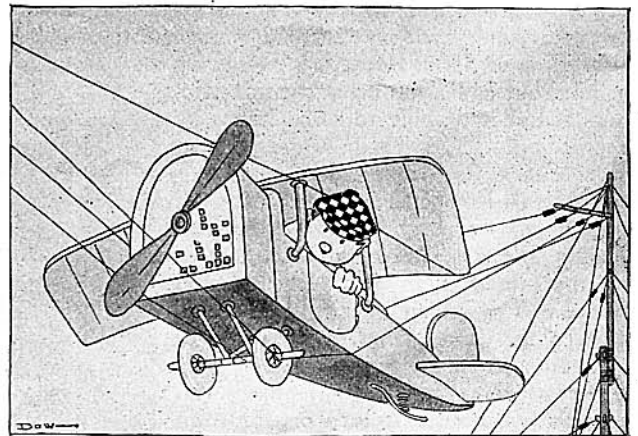
PACIFIC PLAN

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until 8 p.m., in certain localities, the club may authorize the extension of the local period from 6:30 until 8 p.m., or they may subdivide the long-distance periods into directional periods if found necessary, etc., etc.

b. Special stations on 375 meters do not come under the traffic rules, except that they shall not transmit during the concert periods. When they are using the 200 meter wave for ordinary correspondence, they shall be governed by the same rules as all other stations on 200 meters.

c. No stations shall transmit concerts, or music of any kind on any wave but 360 meters, and then only during the hours provided for this class of work. No matter to be transmitted by the broadcasting stations, except music and the necessary conversation relating thereto. No 200 meter stations shall broadcast music at any time.



Aeronaut, After Tailspin: "Wireless Is Certainly a Boon to Mankind."