



MATTHIAS P. MONSON  
MANAGER

730 KILOCYCLES IN THE GRAND COULEE BASIN

COLUMBIA BASIN BROADCASTING COMPANY  
E P H R A T A , W A S H I N G T O N

October 4, 1950

Mr. J. W. Brauner  
23 Howard Ave.  
Williamsville 21, New York

Dear Mr. Brauner:

This letter will verify your report of reception.

We commenced operations here on August 17 of this year, and since that time we have been on the air nightly for about 15 minutes at 1:00 PM, PST.

Up to this time we have been running without a frequency monitor, hence the nightly frequency checks. I am now in the process of calibrating our monitor, and with much luck, this will not continue more than a few days.

Our remarkable penetration has been a constant source of amazement for myself. Of course the only possible explanation is our antenna, and ground in which we are located. (and, of course, our desirable frequency).

Since the conductivity of our ground is not the best, we must conclude that the antenna is largely responsible for our penetration. Our antenna is only 200' tall, but is top loaded by a top-hat. (The three guys plus three auxiliary wires are electrically connected to the top of the antenna for a length of 75' each.) This results in a remarkably low antenna resistance. (18.13 ohms).

We have had previous reports of reception in New Jersey, Texas, Colorado, California, and Utah.--mentioning only the more distant points. And, needless to say, we are quite pleased to know we are reaching so far.

Sincerely yours,

WILLIAM EDWIN SMITH  
Chief Engineer