

**GREATER  
MILWAUKEE'S  
TOP 54**

**WYLO 54 ON YOUR  
RADIO DIAL**  
**COUNTRY & WESTERN**

**HIT  
TUNES \***

Mr. Kermit Geary  
R. D. 2, Box 298  
Walnutport, PA 18088

5567 North 36 Street  
Milwaukee, WI 53209

March 9, 1974

Dear Kermit,

In response to your recent report, we are pleased to verify your reception of the equipment test over WYLO Radio, on February 25, 1974, from Jackson, Wisconsin. You correctly logged a code ID at 2:29½ and also a 2 kHz tone from 2:35 - 2:36 am, CDT. Your report was the 18th best, in that you are 659 miles from Jackson. Other reports in PA came from Jim Poterba, in Yardley. Best reception was in NW California.

WYLO is 0.8 mile NE of Jackson, Wisconsin, a town of 691, located 23 air miles NW of Milwaukee, our exact site being 43°20'00" North Lat., 88°09'13" West Long. Waylow began broadcasting on May 1, 1964.

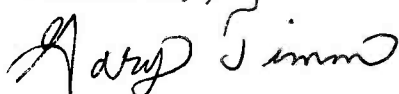
The Big Country Sound is a daytime only station, operating on 540 kHz, with a power of 250 watts. Being on a Canadian clear channel, we are ineligible for any pre-sunrise authorization. The directional radiation pattern resembles a four-leaf clover. Our major lobe is on a bearing of 174°, in a southern direction. Minor lobes are oriented NE at 70°, West at 280°, and North at 352°. Nulls are NE at 33°, East at 92° (protecting CBEF, Windsor, Ontario), SW at 253° (protecting KWMT, Ft. Dodge, Iowa), and NW at 316° (protecting CBK, Regina, Saskatchewan). You are 93 miles south of the bearing of our East null, explaining your poor reception.

The WYLO antenna system consists of three series-fed, uniform-triangular-cross-section, guyed towers, on an in-line array, at a bearing 354°. The end towers are each a distance of 90° (456 feet) from the center tower, with the base of each tower at an elevation of 842' above mean sea level. The radiating portion of each tower is 320' (63°), with top loading, using horizontal cables, interconnecting the top 80.3' of each of the three guy wires, just above the insulator, thus simulating a height of 74°. With each tower built on a 4' high base, the top of the tower is at 1166' above mean sea level.

The antenna ground system utilizes 237,000' of #10 copper ground wire, and 2,900' of 4" copper ground strap. Some 240 ground rods, spaced at 1.5° intervals, radiate out from the base of each tower, to alternate lengths of 200' and 470'. All towers are interconnected by the copper bonding strap, which then continues on into the transmitter building. The transmitter and studios are housed in a building just south of the antenna array. We use a Gates BC250GY transmitter, with most other equipment made by Collins, including Phasor cabinet, audio board, and cart machines.

Thanx much for the report, and best of luck in your DXing hobby.

Sincerely,



Gary Timm  
Staff Engineer  
WYLO Radio