

Long Lines site: Barnett, Missouri

- **Common Language Identifier:** BRNTMO
- **Coordinates:** 38°22'0.85" N, 92°40'4.30" W (38.36690 N, 92.66786 W)
- **County:** Morgan
- **AT&T call sign:** KAJ60 (inactive)
- **Antenna Structure Registration (ASR):** [1005481](#)
- **Height (overall):** 78.9 meters (259 feet)
- **Current owner:** American Tower Corporation
- **Currently in use?** unknown
- **Horn antennas?** Yes (x5 KS-15676 horn-reflectors, x2 Gabriel "cornucopia" horn-reflectors)
- **Original hops:** [Cole Camp](#), [Brinktown](#)
- **Later hops:** [Prairie Home](#)

This former AT&T Long Lines microwave relay site near Barnett, Missouri, was a repeater along the Kansas City-Halifax microwave relay route. Constructed around 1963, the route supported both telephone and television traffic between the mid-1960s and the 1990s.

The site is built around a semi-hardened concrete structure, a familiar sight along this route. Next to the building is the 260-foot tower, which is still populated with five KS-15676 horns (two on the top platform pointing west to Cole Camp, with the other two on top and the outrigger pointing southeast to Brinktown) and two Gabriel horns on top. It appears the Gabriel horns match perfectly with two Gabriel horns located on Prairie Home, which validates the Maprad.io license (WLK708) discussed above. Much like Prairie Home, some of waveguide is still intact on the tower, but has been removed at the base of the tower to the building.

(Some waveguides running up are completely missing altogether.)

[According to the 1966 map](#), Barnett had two hops: one to [Cole Camp](#) (approximately 24 miles west) and the other to [Brinktown](#) (approximately 36 miles southeast). The [1979 map](#) (*inset at right*) is slightly more confusing, since Versailles, Eldon and [Jefferson City](#) were added in the area. Based on the horn antennas mounted to the Barnett tower, I don't believe it had a hop to Eldon. The Eldon site (tower since demolished, though base station may still



HORNS ACROSS MISSOURI: Barnett

exist... but is on private property with a private driveway) had hops to the [Jefferson City central office](#) and Versailles.

Adding to the confusion, Maprad.io list the site's last hop to an unlikely fellow Long Lines site: [Prairie Home](#), in Cooper County — approximately 31 miles north. This hop isn't depicted in any maps I've seen, and suggests both Prairie Home and Barnett were active in the 2000s. The license mentioned in Maprad.io ([license WLK708](#)) was granted to AT&T Communications of the Southwest, Inc., effective Nov. 29, 2001, and canceled before its anticipated expiration of Feb. 1, 2010. The license states the hop operated at 6 GHz with a power of 79.2 watts EIRP.

A sign on the door to the facility reveals its current owner: American Tower. The site is registered with [FCC ASR #1005481](#). FCC records indicate it was constructed around February 1964 and reports the tower being roughly 78.9 meters (~259 feet) tall.

Online site page:

<https://personal.garrettfuller.org/blog/att-long-lines/missouri-long-lines-sites/long-lines-site-barnett-mo/>

Photo: September 29, 2024



Looking at the site from the northwest at Beacon Lane and Beacon Road. In the foreground is a Southwestern Bell cable marker at the northwestern corner of the site.