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LAND SURVEYING

RPLS. # 1969

Kristopher Morgan

RPLS # 5655

September 25, 2019

RE: KSWP Antenna

J. F. Jones Survey

Abstract No. 382

Angelina County, Texas

At the request of Steve Comer and Dave Allen of Broadcast Works, I did cause an on the ground survey beginning February 11, 2016, April 22, 2016, July 12, 2018, May 28, 2019, and September 23, 2019, to stake the KSWP tower site, guy anchors, easements and azimuths. The purpose of the September 23, 2019 visit was to verify the True azimuth of the final installation of the newly installed antennas on the tower. The instruments used were a Trimble R10 Network Rover GPS receiver and a Leica TS06 Plus Total Station to determine and verify the azimuth.

The antennas were to be "face mount" and point at a True azimuth of 70° from geodetic North. The survey prepared on September 23, 2019 produced the following results.

A GPS survey in grid bearings, with the gamma angle of 02°55'40", was applied. Upon measurement and inspection of the installed antenna, they true azimuth of the direction of the installed azimuth was found to be 71°57'29" from Geodetic North (grid azimuth of 69°01'49"). Mr. Dave Allen of Broadcast Works visually verified, through the total station, that the antennas did indeed point along this azimuth, and that these actions were satisfactory and my field crew concluded their survey.

I, Kristopher Morgan do hereby state that this report represents the facts of the location of the True azimuth of 71°57'29", for the direction of new antennas on the KSWP radio tower in the J. F. Jones Survey, Abstract No. 382, Angelina County, Texas, made on the ground for BROADCAST WORKS, and that in accordance with the information and the instructions furnished me, same correctly represents the facts as found that the time of the survey. See plats and descriptions prepared on the above listed dates.

Kristopher Morgan

Registered Professional Land Surveyor No. 5655

