

Panama, Dec. 29. 1874

My dear Capt. Green,

Your favor by Dr. Boyd duly came. We observed our latitude stars on Sunday night, and of course last night again. The instrument behaves well. Yesterday morning (before your letter came) & this morn. we observed for azimuth & variation. Though heavily on our minds we couldn't accomplish it earlier, while the longitude work lasted. On Sat. night we observed 24 stars. I will enclose your signals. I think our work is a success. To-day Mr. Spencer dismounts the telegraph line. We hope to come over on Sat. Morn. I do not think the pier is ^{so} steady, I think some one hit an arm of the instrument unconsciously each time I found it out of meridian.

The vernier trouble is due to that arm making an angle with the vertical. I am convinced that most of the register troubles are due to bad quality of the fillet paper. It is of unequal thickness at two edges and also varies in thickness lengthwise, so as to require frequent readjustment of rollers & stylus.

Very truly Yrs.

Wiles Rock