

Resurvey of the S. bdy. of T. 40 N., R. 31 E.

mine a meridian with the solar at my observation station, which meridian I note differs less than 30" from that established by the Polaris observation.

At this observation station I set off 18° 46.5' N. on the decl. arc, and at about 12h. 6m. p. m., l. m. t., observe the sun on the meridian. The resulting lat. is 41° 19.5'.

At 3h. 0m. p. m., l. m. t., I set off 41° 19.5' on the lat. arc and 18° 45' N. on the decl. arc, and determine with the solar at this station a meridian, which I note differs less than 30" from that established by the Polaris observation.

I conclude therefore that the adjustments of my instrument are satisfactory. July 29, 1913.

July 30 to August 4, 1913: Having received instructions to examine the survey of this township, which survey had been assigned to a U. S. Transitman and reported executed, I make such examination and find grave errors in measurement and very poor corner construction. As provided by the instructions I therefore make a new survey, destroying all the corners set by the transitman. I proceed as follows:

August 5: I find the old cor. of Ts. 39 and 40 N., Rs. 31 and 32 E., to be a trap stone, 20 x 15 x 9 ins., standing in a scattered mound of stone, apparently originally about 24 in. base and 16 ins. high. The stone bears evidence of having been chiseled, but no marks are legible.

As this cor. no longer refers to R. 32 E., I reestablish it as the cor. of Ts. 39 and 40 N., R. 31 E., by destroying the old cor. and setting in the same place an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, with brass cap mkd.